

**29. CLEMATIS** Linnaeus, Sp. Pl. 1: 543. 1753.

铁线莲属 tie xian lian shu

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*Archiclematis* Tamura; *Atragene* Linnaeus.

Vines woody or herbaceous and perennial, rarely erect shrubs, subshrubs, or perennial herbs. Leaves opposite, rarely fascicled or alternate, simple or compound; leaf or leaflet blades palmately veined. Inflorescences cymose, sometimes solitary, usually pedunculate, 2-bracteate. Flowers bisexual or unisexual. Sepals 4 or 5(–8), petaloid, spreading, ascending, or erect, usually valvate in bud. Petals absent. Stamens numerous, sometimes outer ones sterile and becoming linear or petaloid staminodes; anthers introrse. Carpels numerous, usually pubescent or villous; ovaries 1-ovuled; ovule pendulous. Style elongated after anthesis, rarely slightly or not elongated. Achenes usually ± bilaterally compressed; persistent style usually strongly elongated, plumose.

About 300 species: widespread throughout the world; 147 species (93 endemic) in China.

In the protologue of *Clematis zhejiangensis* R. J. Wang (J. Trop. Subtrop. Bot. 7: 28. 1999), the author stated that his new species is related to *C. quinquefoliolata*. However, because the type specimen is in fruit, without flowers, the systematic position of this species is uncertain at present.

- 1a. Leaves alternate ..... 147. *C. alternata*  
1b. Leaves opposite, rarely fasciculate.  
2a. Stamens hairy.  
3a. Sepals spreading ..... 88. *C. liboensis*  
3b. Sepals ascending or erect.  
4a. Sepals ascending.  
5a. Flowers 1(–3), arising with leaves from axillary buds of previous year's or older branches;  
petaloid staminodes present.  
6a. Leaves 2-ternate.  
7a. Staminodes linear-spatulate, ca. 1/2 as long as sepals ..... 145. *C. sibirica*  
7b. Staminodes (at least outer ones) narrowly lanceolate, nearly as long as sepals, sometimes  
inner  
ones linear-spatulate ..... 146. *C. macropetala*  
6b. Leaves ternate, rarely pinnate.  
8a. Leaves ternate or pinnate; sepals linear-lanceolate, abaxially velutinous, apex long acuminate  
..... 144. *C. moisseenkoi*  
8b. Leaves ternate; sepals oblong, narrowly elliptic, or ovate, abaxially puberulous, apex obtuse  
or  
subacute.  
9a. Branches glabrous; bud scales 1–2 cm; flowers solitary, ca. 3.5 cm in diam.; sepals 1.7–2  
cm ..... 142. *C. koreana*  
9b. Branches sparsely pubescent; bud scales 3–7 mm; flowers 1–3-fasciculate, 4–7 cm in diam.;  
sepals 3.6–4.5(–5) cm ..... 143. *C. iliensis*  
5b. Flowers in axillary or terminal cymes, or solitary and terminal, arising from leaf axils or apex of  
current  
year's branches; staminodes absent.  
10a. Leaves 1-pinnate or ternate; leaflet blades 3–7.5 cm wide; sepals white or blue; filaments  
linear ..... 89. *C. pinnata*  
10b. Leaves 1- or 2-pinnate; leaflet blades 0.5–4 cm wide; sepals yellow or tinged with purple;  
filaments  
linear-lanceolate.  
11a. Flowers solitary, terminal, sometimes also in axillary, 1–3-flowered cymes.  
12a. Shrublets dwarf, erect.  
13a. Leaflet blades papery, margin ± densely denticulate; sepals adaxially glabrous .. 68. *C. tangutica*  
13b. Leaflet blades leathery, margin entire or 1- or 2-denticulate; sepals adaxially puberulous  
..... 70. *C. pamiralaica*  
12b. Vines woody.  
14a. Sepals adaxially glabrous.

- 15a. Leaflet blades papery, both surfaces sparsely puberulous, margin densely denticulate; sepals not corniculate at apex abaxially ..... 68. *C. tangutica*
- 15b. Leaflet blades leathery, glabrous, margin entire or sometimes 1-denticulate; sepals corniculate at apex abaxially ..... 72. *C. corniculata*
- 14b. Sepals adaxially puberulous.
- 16a. Flowers solitary and terminal only, not in axillary cymes; sepals apically attenuate into a tail-like projection 3–6 mm ..... 71. *C. caudigera*
- 16b. Flowers solitary and terminal and also in axillary cymes; sepals apically acute or cuspidate, without a tail-like projection.
- 17a. Leaflet blade margin  $\pm$  densely dentate or denticulate ..... 68. *C. tangutica*
- 17b. Leaflet blade margin entire or 1- or 2-denticulate ..... 69. *C. tibetana*
- 11b. Flowers in axillary cymes, not terminal.
- 18a. Sepals adaxially glabrous.
- 19a. Leaflet blade margin crenate ..... 75. *C. akebioides*
- 19b. Leaflet blade margin entire or 1- or 2-denticulate.
- 20a. Leaflet blades narrowly elliptic, oblong, or narrowly ovate ..... 76. *C. glauca*
- 20b. Leaflet blades lanceolate or linear-lanceolate ..... 77. *C. intricata*
- 18b. Sepals adaxially puberulous.
- 21a. Leaflet blades gray-green ..... 78. *C. orientalis*
- 21b. Leaflet blades green or bluish green.
- 22a. Leaflet blade margin entire or 1- or 2-denticulate ..... 76. *C. glauca*
- 22b. Leaflet blade margin dentate, denticulate, or serrate.
- 23a. Leaflet blades ovate or broadly so, margin irregularly sparsely dentate; bracts ternate ..... 73. *C. zandaensis*
- 23b. Leaflet blades mainly lanceolate or narrowly ovate, margin densely serrate or denticulate; bracts simple, lanceolate or linear ..... 74. *C. serratifolia*
- 4b. Sepals erect
- 24a. Calyx tubular; stamens sparsely puberulous near apex of filaments; flowers polygamous.
- 25a. Flowers solitary, terminal; leave pinnate and 5-foliolate or ternate ..... 93. *C. tsugetorum*
- 25b. Flowers in terminal or axillary, 5- to many-flowered cymes.
- 26a. Leaves 2-ternate or pinnate ..... 90. *C. tatarinowii*
- 26b. Leaves ternate.
- 27a. Leaflet blades adaxially appressed puberulous; peduncles and pedicels densely puberulous; anthers linear, 3.2–5 mm, apex apiculate, apiculus 0.2–0.5 mm ..... 91. *C. heracleifolia*
- 27b. Leaflet blades adaxially glabrous; peduncles and pedicels velutinous; anthers narrowly oblong, ca. 2.8 mm, apex minutely apiculate, apiculus ca. 0.1 mm ..... 92. *C. psilandra*
- 24b. Calyx campanulate; stamens  $\pm$  densely villous on filaments, sometimes also on anthers, rarely pubescent; flowers bisexual.
- 28a. Flowers 1–3, arising with 2 leaves from axillary buds of previous year's or older branches.
- 29a. Leaves ternate; sepals yellow ..... 138. *C. barbellata*
- 29b. Leaves 2-ternate; sepals reddish purple or dark purple ..... 139. *C. pseudopogonandra*
- 28b. Flowers usually arising from leaf axils or sometimes apex of current year's branches.
- 30a. Flowers solitary, axillary, pedicellate only, not pedunculate and 2-bracteate.
- 31a. Leaflet blades glabrous on both surfaces or sparsely puberulous only abaxially ..... 136. *C. pogonandra*
- 31b. Leaflet blades appressed puberulous on both surfaces ..... 137. *C. shenlungchiaensis*
- 30b. Flowers in axillary or terminal, usually pedunculate, 2-bracteate cymes, or solitary and terminal on current year's branches.
- 32a. Sepals longitudinally narrowly 2- or 3-winged abaxially.
- 33a. Branches and leaves glabrous ..... 134. *C. pterantha*
- 33b. Branches and leaves  $\pm$  hairy.
- 34a. Branches erect, velutinous, hairs dense, spreading, short ..... 132. *C. pinchuanensis*
- 34b. Branches scandent (sometimes erect in *C. ranunculoides*), pubescent or puberulous.

- 35a. Leaves simple, pentagonal, and 3-parted, or 1- or 2-ternate or pinnate, when leaflet blades ovate, broadly so, rhombic, or cordate, often 3-lobed, papery, margin usually dentate or denticulate ..... 133. *C. ranunculoides*
- 35b. Leaves ternate; leaflet blades oblong-oblongate, narrowly ovate, or narrowly elliptic, undivided, leathery, margin entire, sometimes 1-denticulate .. 135. *C. yuanjiangensis*
- 32b. Sepals not winged abaxially.
- 36a. Shrublets erect or perennial herbs.
- 37a. Leaves sessile, simple ..... 140. *C. integrifolia*
- 37b. Leaves petiolate, compound ..... 141. *C. fusca*
- 36b. Vines woody or herbaceous.
- 38a. Leaves simple (sometimes ternate in *C. henryi*).
- 39a. Anthers glabrous, apex obtuse.
- 40a. Leaf blade narrowly ovate or lanceolate, margin minutely denticulate ..... 103. *C. henryi*
- 40b. Leaf blade broadly ovate, cordate-ovate, or suborbicular.
- 41a. Leaf blade not reticulate, base rounded-cuneate or truncate, margin dentate 102. *C. chiupehensis*
- 41b. Leaf blade reticulate on both surfaces, base cordate, margin entire . 104. *C. jingdungensis*
- 39b. Anthers abaxially pubescent, apex usually minutely apiculate.
- 42a. Flowers solitary, terminal on current year's branches, sometimes also in axillary, 1-flowered cymes ..... 121. *C. yui*
- 42b. Flowers in axillary, 1-flowered cymes only, not terminal.
- 43a. Leaves all simple, papery or subleathery, base broadly cuneate, margin usually entire ..... 122. *C. kweichowensis*
- 43b. Leaves simple or sometimes ternate; leaf or leaflet blades papery, base subcordate, rounded, or broadly cuneate, margin sparsely dentate ..... 134. *C. repens*
- 38b. Leaves compound.
- 44a. Leaves 1- or 2-pinnate, 2-ternate, or 2-4-pinnatisect.
- 45a. Leaves 2-4-pinnatisect ..... 131. *C. aethusifolia*
- 45b. Leaves 1- or 2-pinnate or 2-ternate.
- 46a. Leaflet blade margin entire.
- 47a. Branches and leaves glabrous; sepals yellow, adaxially puberulous .. 126. *C. hupehensis*
- 47b. Branches and leaves sparsely pubescent; sepals purple, adaxially glabrous 141. *C. fusca*
- 46b. Leaflet blade margin dentate.
- 48a. Petiole bases dilated and connate.
- 49a. Vines woody; connate petiole bases strongly dilated, forming a suborbicular, platelike structure; leaflet blades 3.5-7.5 cm wide; sepals yellowish .. 129. *C. connata*
- 49b. Vines herbaceous; connate petiole bases moderately dilated, turgid, not forming a platelike structure; leaflet blades 1.4-3(-4.5) cm wide; sepals purple-red 130. *C. lasiandra*
- 48b. Petiole bases not or only slightly dilated, not connate.
- 50a. Branches densely pubescent or velutinous.
- 51a. Leaflet blades abaxially densely (rarely sparsely) pubescent; cymes usually many flowered; sepals abaxially densely appressed puberulous 119. *C. buchananiana*
- 51b. Leaflet blades abaxially velutinous; cymes usually 3-flowered; sepals abaxially velutinous ..... 120. *C. grewiflora*
- 50b. Branches sparsely puberulous or subglabrous.
- 52a. Leaves 1-pinnate; sepals purple ..... 127. *C. dasyandra*
- 52b. Leaves 1- or 2-pinnate; sepals yellow.
- 53a. Leaflet blades lobed; cymes usually many flowered, paniclelike 128. *C. rehderiana*
- 53b. Leaflet blades parted; cymes few flowered ..... 131. *C. aethusifolia*
- 44b. Leaves 1-ternate.
- 54a. Anthers hairy.
- 55a. Branches densely pubescent; leaflet blades abaxially densely pubescent, adaxially sparsely pubescent, margin dentate; cymes 6- to many flowered ..... 118. *C. rubifolia*
- 55b. Branches sparsely puberulous or glabrous; leaflet blades glabrous or sparsely puberulous; cymes 1-3-flowered.
- 56a. Sepals abaxially puberulous.

- 57a. Leaflet blades lanceolate or narrowly ovate, margin entire or sparsely denticulate, apex attenuate or caudate-acuminate; sepals abaxially densely puberulous 115. *C. morii*
- 57b. Leaflet blades ovate, margin irregularly dentate, apex acuminate; sepals abaxially sparsely puberulous only at base and apex ..... 109. *C. jinzhaiensis*
- 56b. Sepals abaxially glabrous.
- 58a. Petiole bases strongly dilated and connate, forming a disklike structure 125. *C. otophora*
- 58b. Petiole bases only slightly dilated, not forming a disklike structure.
- 59a. Bracts sessile, linear or subulate, 3–10 mm; cymes 1-flowered ..... 123. *C. repens*
- 59b. Bracts petiolate, lanceolate or elliptic, 1–9 cm; cymes 1–3-flowered 124. *C. pseudootophora*
- 54b. Anther glabrous.
- 60a. Sepals abaxially rusty velutinous ..... 117. *C. leschenaultiana*
- 60b. Sepals abaxially not velutinous.
- 61a. Leaflet blades linear-lanceolate ..... 114. *C. yunnanensis*
- 61b. Leaflet blades ovate, elliptic, or broadly lanceolate.
- 62a. Anther apex minutely apiculate, apiculus ca. 0.1 mm ..... 116. *C. hainanensis*
- 62b. Anther apex not apiculate.
- 63a. Leaflets sessile or very shortly petiolulate; axillary cymes sessile 112. *C. nukiangensis*
- 63b. Leaflets distinctly petiolulate; axillary cymes usually distinctly pedunculate (with short peduncles 2–4 mm in *C. qingchengshanica* and sometimes *C. kockiana* and *C. urophylla*).
- 64a. Sepals glabrous on both surfaces, velutinous only at margin ..... 110. *C. clarkeana*
- 64b. Sepals ± puberulous abaxially, adaxially, or on both surfaces.
- 65a. Leaflet blades not reticulate.
- 66a. Sepals ca. 2 × as long as stamens ..... 106. *C. urophylla*
- 66b. Sepals nearly as long as or slightly longer than stamens.
- 67a. Leaflet blades narrowly ovate, margin regularly denticulate or serrate; pedicels slender, 0.8–1.2 mm in diam., puberulous . 107. *C. kockiana*
- 67b. Leaflet blades oblong-elliptic, margin minutely 3–5-denticulate; pedicels robust, ca. 2 mm in diam., yellowish velutinous .... 108. *C. teretipes*
- 65b. Leaflet blades finely reticulate.
- 68a. Leaflet blades broadly lanceolate, apex long caudate ..... 113. *C. acuminata*
- 68b. Leaflet blades ovate or elliptic, apex acuminate.
- 69a. Leaflet blades abaxially ± densely puberulous ..... 104. *C. jingdungensis*
- 69b. Leaflet blades abaxially glabrous or subglabrous.
- 70a. Axillary cymes 8- to many flowered, peduncle 4–5.5 cm; bracts linear, 4–7 mm ..... 105. *C. siamensis*
- 70b. Axillary cymes 1-flowered, peduncle 3–4 mm; bracts linear-triangular, ca. 2 mm ..... 111. *C. qingchengshanica*
- 2b. Stamens glabrous; sepals spreading (ascending in *C. fruticosa*, *C. huchouensis*, *C. nannophylla*, and *C. pinnata*, erect in *C. fasciculiflora* and *C. napaulensis*).
- 71a. Shrublets erect, subshrubs, or perennial herbs.
- 72a. Sepals 4, yellow, ascending.
- 73a. Leaves ovate, narrowly so, or lanceolate, undivided or variously divided.
- 74a. Leaves undivided or lobed ..... 64. *C. fruticosa*
- 74b. Leaves pinnatipartite or pinnatisect, sometimes pinnatilobed ..... 65. *C. nannophylla*
- 73b. Leaves linear, undivided, margin entire (1- or 2-denticulate proximally in *C. tomentella*).
- 75a. Leaves gray-green, appressed puberulous; flowers in a terminal, pedunculate, 1–3(–7)-flowered, 2-bracteate cyme; sepals 0.9–1.6 × 0.35–0.8 cm, abaxially puberulous ..... 66. *C. tomentella*
- 75b. Leaves green; flowers solitary, terminal on short, lateral branchlets, pedicellate only, not pedunculate and 2-bracteate; sepals 1.2–2.6 × 0.5–1.3 cm, abaxially glabrous or sparsely puberulous near apex ..... 67. *C. viridis*
- 72b. Sepals 4–8, white or tinged pinkish, spreading.
- 76a. Leaves pinnatisect or pinnate.
- 77a. Herbs perennial; leaves pinnatisect, leathery, reticulate; sepals (4 or)5 or 6(–8) ..... 63. *C. hexapetala*

- 77b. Shrublets; leaves pinnate, papery, not reticulate; sepals 4–6 ..... 62. *C. delavayi*
- 76b. Leaves simple, rarely ternate.
- 78a. Leaves ternate ..... 60. *C. lancifolia*
- 78b. Leaves simple.
- 79a. Leaf blade cordate-pentagonal, palmately 5-lobed ..... 3. *C. acerifolia*
- 79b. Leaf blade lanceolate or linear, undivided or pinnatisect.
- 80a. Leaves opposite only, undivided, margin entire; anthers 3.2–5.5 mm ..... 60. *C. lancifolia*
- 80b. Leaves both opposite and fasciculate, undivided or pinnatisect, margin dentate or entire; anthers 2–3 mm ..... 61. *C. songorica*
- 71b. Vines woody or herbaceous.
- 81a. Anther apex conspicuously apiculate, apiculus (0.4–)1 mm or more.
- 82a. Leaves simple.
- 83a. Leaf blade reticulate on both surfaces; sepals 6, both surfaces velutinous ..... 81. *C. fulvicoma*
- 83b. Leaf blade abaxially slightly reticulate, adaxially with flat veins; sepals 4 or 5, adaxially glabrous.
- 84a. Pedicel rusty puberulous; sepals 4 or 5, purple; staminodes absent ..... 79. *C. smilacifolia*
- 84b. Pedicel glabrous; sepals 4, yellow; staminodes present, linear ..... 80. *C. metuoensis*
- 82b. Leaves ternate or pinnate.
- 85a. Leaves ternate.
- 86a. Leaflet blades leathery; sepals purple; staminodes absent ..... 82. *C. crassipes*
- 86b. Leaflet blades papery; sepals white; staminodes present, linear ..... 87. *C. loureiroana*
- 85b. Leaves pinnate.
- 87a. Leaves 1- or 2-pinnate; anther apiculus ca. 0.4 mm ..... 83. *C. menglaensis*
- 87b. Leaves 1-pinnate; anther apiculus 0.5–2.8 mm.
- 88a. Petiole base not dilated; leaflet blade base usually broadly cuneate; sepals 4, yellow; anther apiculus 2.2–2.8 mm ..... 84. *C. pianmaensis*
- 88b. Petiole base dilated into stipulelike projections; leaflet blade base rounded or subcordate; sepals white or dark purple; anther apiculus 0.5–1 mm.
- 89a. Branches and petiolar stipulelike projections furfuraceous; leaves 7-foliolate; sepals 4, white ..... 85. *C. fengii*
- 89b. Branches and petiolar stipulelike projections not furfuraceous; leaves 5-foliolate; sepals 4–6, dark purple ..... 86. *C. tashiroi*
- 81b. Anther apex not apiculate or minutely apiculate, apiculus ca. 0.1 mm.
- 90a. Flowers arising from axillary buds of old branches, base of pedicel or peduncle surrounded by persistent bud scales.
- 91a. Flowers in pedunculate and 2-bracteate or involucrate cymes.
- 92a. Flowers in 1-flowered cymes with cupular, 2-lobed involucre; sepals erect ..... 16. *C. napaulensis*
- 92b. Flowers in often paniclelike, (1 to)many-flowered, 2-bracteate cymes; sepals spreading.
- 93a. Leaves pinnate or ternate, leaflet blades narrowly lanceolate ..... 59. *C. zygophylla*
- 93b. Leaves ternate, leaflet blades ovate.
- 94a. Bud scales 5–12 mm; leaflet blades reticulate on both surfaces; sepals yellow; anthers 2.5–2.8 mm ..... 57. *C. lingyunensis*
- 94b. Bud scales 8–20 mm; leaflet blades not reticulate; sepals white or pinkish; anthers 3–4.5 mm ..... 58. *C. armandii*
- 91b. Flowers pedicellate only, peduncles and bracts absent.
- 95a. Sepals 6 ..... 14. *C. glabrifolia*
- 95b. Sepals 4.
- 96a. Pedicels 0.5–2.4 cm; sepals erect; achenes lanceolate ..... 15. *C. fasciculiflora*
- 96b. Pedicels usually more than 3 cm; sepals spreading; achenes ovate or elliptic.
- 97a. Leaves mostly pinnate.
- 98a. Leaflet blades papery or herbaceous, ± hairy, margin denticulate; sepals obovate or oblong; ovaries glabrous ..... 5. *C. gracilifolia*

- 98b. Leaflet blades thinly leathery, glabrous, margin entire; sepals oblanceolate; ovaries pubescent ..... 13. *C. hastata*
- 97b. Leaves ternate.
- 99a. Terminal leaflet 3-parted.
- 100a. Leaflet blades adaxially glabrous; sepals purple-red, obovate or narrowly so, 8–13.5 mm wide; ovaries glabrous ..... 6. *C. ningjingshanica*
- 100b. Leaflet blades adaxially puberulous; sepals oblong or obovate-oblong, 4–6 mm wide; ovaries pubescent ..... 9. *C. tripartita*
- 99b. Terminal leaflet undivided, 3-lobulate, or 3-lobed.
- 101a. Sepals adaxially appressed puberulous ..... 10. *C. tongluensis*
- 101b. Sepals adaxially glabrous.
- 102a. Leaflet blades lanceolate, undivided, margin usually entire, rarely 1- or 2-denticulate ..... 8. *C. venusta*
- 102b. Leaflet blades ovate or narrowly so, undivided, 2- or 3-lobulate or 2- or 3-lobed, margin dentate.
- 103a. Sepals ovate-oblong, abaxially with a very narrow, velutinous strip at margin, apex attenuate and shortly cuspidate ..... 11. *C. wenshanensis*
- 103b. Sepals obovate or narrowly so, abaxially without a velutinous strip at margin, apex rounded or obtuse.
- 104a. Ovaries and achenes glabrous ..... 4. *C. montana*
- 104b. Ovaries and achenes puberulous.
- 105a. Leaflet blades yellow pubescent ..... 7. *C. chrysocoma*
- 105b. Leaflet blades white puberulous.
- 106a. Leaflet blades 1.8–6 × 1.5–3 cm; pedicels 4–9 cm; sepals 1.5–2.5 × 1–1.4 cm ..... 4. *C. montana*
- 106b. Leaflet blades 5–12 × 3–5 cm; pedicels 10–16.5 cm; sepals 2.5–3.4 × 1.5–2.5 cm ..... 4. *C. montana*
- 90b. Flowers in axillary or terminal, pedunculate cymes, or pedicellate only and arising from leaf axils or apex of current year's branches, or solitary and terminal on current year's branches.
- 107a. Sepals ascending.
- 108a. Leaflet blades (2.5–)5–12 × (1.5–)3–7.5 cm, margin dentate; axillary cymes 5- to many flowered; style villous ..... 89. *C. pinnata*
- 108b. Leaflet blades 1–5 × 0.7–3 cm, margin entire; axillary cymes (1–)3-flowered; style pubescent ..... 101. *C. huchouensis*
- 107b. Sepals spreading.
- 109a. Flowers 4–16 cm in diam.
- 110a. Flowers solitary, terminal.
- 111a. Leaf or leaflet blades abaxially velutinous or densely puberulous; sepals (5 or)6, purplish ..... 94. *C. lanuginosa*
- 111b. Leaf or leaflet blades abaxially sparsely puberulous on veins; sepals 5–8, white or yellowish white ..... 95. *C. patens*
- 110b. Flowers in axillary, pedunculate, 1(–4)-flowered, 2-bracteate cymes, or pedicellate only, 1 or 2 arising from leaf axils or apex of current year's branches (if terminal, then not solitary).
- 112a. Filaments rugose ..... 39. *C. crassifolia*
- 112b. Filaments not rugose.
- 113a. Anthers oblong or narrowly so.
- 114a. Leaflet blade margin dentate or serrate.
- 115a. Sepals 4; anthers 1–1.5 mm ..... 35. *C. parviloba*
- 115b. Sepals 5 or 6(or 7); anthers 2–3 mm.
- 116a. Leaves ternate; axillary cymes 1-flowered, peduncle 3–4 cm, pedicels 1–1.5 cm; sepals 6, linear-lanceolate, abaxially densely covered with hairs 1.6–3 mm ..... 38. *C. baominiana*
- 116b. Leaves 1- or 2-pinnate; axillary cymes (1–)3(or 4)-flowered, peduncle 5.5–15 cm,

- pedicels 3–9.8 cm; sepals 5 or 6(or 7), obovate, abaxially densely covered with hairs ca. 0.3 mm ..... 2. *C. potaninii*
- 114b. Leaflet blade margin entire.
- 117a. Plants turning black on drying.
- 118a. Leaves ternate, leaflet blades leathery; axillary cymes 1-flowered .... 19. *C. mashanensis*
- 118b. Leaves 2-ternate or pinnate, leaflet blades papery; axillary cymes (1–)3–9-flowered ..... 35. *C. parviloba*
- 117b. Plants not turning black on drying.
- 119a. Leaflet blades ovate, papery, abaxially densely puberulous ..... 47. *C. shensiensis*
- 119b. Leaflet blades linear-lanceolate or lanceolate, papery or thinly leathery, both surfaces glabrous ..... 48. *C. quinquefoliolata*
- 113b. Anthers linear or narrowly so (sometimes narrowly oblong in *C. florida*); cymes axillary, 1-flowered.
- 120a. Sepals 4.
- 121a. Leaves ternate; flowers axillary, pedicellate only ..... 12. *C. laxistrigosa*
- 121b. Leaves 1- or 2-pinnate, rarely ternate; flowers in axillary, pedunculate, 1(–4)-flowered, 2-bracteate cymes.
- 122a. Bracts lanceolate, 2–2.2 × 0.5–0.6 cm; sepals yellowish white; anthers linear, 2.8–3 mm ..... 35. *C. parviloba*
- 122b. Bracts broadly ovate or orbicular-ovate, 2–4 × 1.8–2.8 cm; sepals purple-red; anthers narrowly linear, 6–7.2 mm ..... 96. *C. hancockiana*
- 120b. Sepals 5 or 6 (occasionally 4 in *C. longistyla*).
- 123a. Style appressed puberulous, not elongated after anthesis ..... 100. *C. cadmia*
- 123b. Style villous or spreading pubescent, elongated and ± plumose after anthesis.
- 124a. Style ca. 3.5 mm, pubescent proximally, glabrous distally, after anthesis elongated to ca. 8 mm, spreading pubescent ..... 99. *C. florida*
- 124b. Style 4–7.5 mm, densely villous, after anthesis elongated to 12–30 mm, plumose.
- 125a. Style glabrous above middle ..... 97. *C. longistyla*
- 125b. Style densely villous from base to near apex ..... 98. *C. courtoisii*
- 109b. Flowers less than 4 cm in diam.
- 126a. Filaments rugose ..... 39. *C. crassifolia*
- 126b. Filaments not rugose.
- 127a. Achenes subulate-terete ..... 56. *C. uncinata*
- 127b. Achenes ± bilaterally compressed, ovate, elliptic, or lanceolate.
- 128a. Leaves ternate, rarely simple.
- 129a. Anthers oblong or narrowly so, 0.8–2 mm, apex obtuse, rarely minutely apiculate.
- 130a. Sepals adaxially puberulous.
- 131a. Leaflet blade margin dentate; axillary cymes 7- to many flowered; anthers 1.5–1.8 mm; style 4–6 mm ..... 18. *C. apiifolia*
- 131b. Leaflet blade margin entire, rarely sparsely denticulate; axillary cymes 1–3-flowered; anthers 2–2.6 mm; style 7–9 mm ..... 23. *C. vaniotii*
- 130b. Sepals adaxially glabrous.
- 132a. Axillary cymes 1-flowered; anther apex minutely apiculate ..... 20. *C. tenuipes*
- 132b. Axillary cymes 3- to many flowered; anther apex not apiculate.
- 133a. Leaflet blades lanceolate or narrowly ovate ..... 22. *C. formosana*
- 133b. Leaflet blades ovate.
- 134a. Leaflet blade margin denticulate or entire; cymes 3–7-flowered; style ca. 6 mm, pubescent proximally, puberulous near middle, not elongated after anthesis ..... 17. *C. tinghuensis*
- 134b. Leaflet blade margin entire; cymes many flowered; style ca. 5 mm, densely villous, after anthesis strongly elongated to ca. 3.5 cm ..... 21. *C. burmanica*
- 129b. Anthers linear, narrowly oblong, or rarely oblong, 2.5–6.5 mm, apex often minutely apiculate.
- 135a. Leaflet blades abaxially densely puberulous ..... 47. *C. shensiensis*

- 135b. Leaf or leaflet blades abaxially sparsely puberulous or glabrous.
- 136a. Leaves simple, rarely ternate.
- 137a. Petioles 1.5–2 cm; peduncles 10–18 cm; sepals abaxially glabrous; anthers linear, ca. 4 mm, apex obtuse ..... 40. *C. xinhuiensis*
- 137b. Petioles 3–6 cm; peduncles ca. 7 cm; sepals abaxially puberulous; anthers narrowly oblong, 3–3.2 mm, apex minutely apiculate ..... 45. *C. chekiangensis*
- 136b. Leaves ternate.
- 138a. Sepals 2.2–2.6 cm; anthers narrowly oblong, 2.5–3 mm ..... 19. *C. mshanensis*
- 138b. Sepals 0.8–1.3 cm; anthers linear, rarely narrowly oblong, 3–6.5 mm.
- 139a. Axillary cymes (1–)3–7-flowered.
- 140a. Axillary cymes 1-flowered, with 1 or 2 pairs of bracteoles ..... 44. *C. meyeniana*
- 140b. Axillary cymes usually 3–7-flowered, or 1-flowered but then without bracteoles ..... 46. *C. finetiana*
- 139b. Axillary cymes paniclelike, many flowered.
- 141a. Leaflet blades not reticulate.
- 142a. Leaflet blades narrowly ovate or broadly lanceolate, to 8.8 × 3.4 cm, thinly papery, apex attenuate or long acuminate; anther apex obtuse, rarely minutely apiculate ..... 43. *C. sinii*
- 142b. Leaflet blades ovate or oblong-ovate, to 14 × 9 cm, subleathery or thickly papery, apex acute or acuminate; anther apex minutely apiculate ..... 44. *C. meyeniana*
- 141b. Leaflet blades reticulate on both surfaces.
- 143a. Branch nodes and base and apex of petioles and peduncles densely furfuraceous, elsewhere glabrous; leaflet blades leathery ..... 41. *C. napoensis*
- 143b. Branch nodes, petioles, and peduncles puberulous, not furfuraceous; leaflet blades papery ..... 42. *C. jialasaensis*
- 128b. Leaves 1- or 2-pinnate or 2-ternate, sometimes distal leaves 1-ternate.
- 144a. Anthers linear or narrowly oblong, more than 2 mm, apex often minutely apiculate.
- 145a. Leaflet blades conspicuously reticulate on both surfaces.
- 146a. Petiole base strongly dilated; sepals 5 or 6 (or 7); anthers 3.5–4 mm, apex minutely apiculate ..... 55. *C. dilatata*
- 146b. Petiole base not dilated; sepals 4(–6); anthers (1.5–)2–3(–3.2) mm, apex obtuse, rarely minutely apiculate.
- 147a. Plants not or occasionally turning black on drying; leaves 1-pinnate, leaflet blades often ovate or narrowly so, to 4.5 cm wide ..... 52. *C. pashanensis*
- 147b. Plants turning black on drying; leaves 2-pinnate, sometimes 1-pinnate, leaflet blades often oblong or elliptic, to 2.8 cm wide ..... 53. *C. kirilowii*
- 145b. Leaflet blades not reticulate.
- 148a. Leaves 2-pinnate or 2-ternate.
- 149a. Plants not turning black on drying; sepals obovate ..... 2. *C. potaninii*
- 149b. Plants turning black on drying; sepals oblong, ovate-oblong, or lanceolate.
- 150a. Sepals 4; anthers narrowly oblong, 2.2–2.5 mm, apex obtuse ..... 35. *C. parviloba*
- 150b. Sepals (4 or)5 or 6 (or 7); anthers linear, 3.8–4.5 mm, apex minutely apiculate ..... 54. *C. obscura*
- 148b. Leaves 1-pinnate.
- 151a. Sepals adaxially densely puberulous ..... 23. *C. vaniotii*
- 151b. Sepals adaxially glabrous.
- 152a. Leaflet blades abaxially densely puberulous ..... 47. *C. shensiensis*
- 152b. Leaflet blades abaxially glabrous or sparsely puberulous.
- 153a. Axillary cymes paniclelike, many flowered.
- 154a. Achenes strongly compressed, distinctly marginate; plants not turning black on drying ..... 50. *C. terniflora*

- 154b. Achenes not strongly compressed, not marginate; plants turning black on drying ..... 49. *C. chinensis*
- 153b. Axillary cymes 1–5(–7)-flowered.
- 155a. Leaflet blades linear-lanceolate or lanceolate ..... 48. *C. quinquefoliolata*
- 155b. Leaflet blades ovate.
- 156a. Leaflet blades papery, sparsely puberulous; sepals 4 ..... 49. *C. chinensis*
- 156b. Leaflet blades subleathery, glabrous; sepals (5 or)6 ..... 51. *C. akoensis*
- 144b. Anthers oblong or narrowly so, 1–2 mm, apex obtuse, rarely minutely apiculate.
- 157a. Leaflet blades leathery, both surfaces reticulate.
- 158a. Leaves 1-pinnate ..... 52. *C. pashanensis*
- 158b. Leaves 2-pinnate ..... 53. *C. kirilowii*
- 157b. Leaflet blades papery, rarely thinly leathery, not reticulate.
- 159a. Achenes lanceolate or fusiform, apex ± tapering.
- 160a. Leaves pinnate or 1- or 2-ternate, leaflet blade margin dentate ..... 31. *C. javana*
- 160b. Leaves 1- or 2-pinnate, leaflet blade margin entire, rarely 1-dentate.
- 161a. Leaves 1-pinnate, leaflet blades glabrous or sparsely puberulous only on midvein ..... 29. *C. gouriana*
- 161b. Leaves 1- or 2-pinnate; leaflet blades abaxially densely puberulous ..... 32. *C. subumbellata*
- 159b. Achenes ovate or elliptic, apex acute, not tapering.
- 162a. Leaves usually 2-pinnate or 2-ternate.
- 163a. Sepals 5 or 6(or 7), obovate ..... 2. *C. potaninii*
- 163b. Sepals 4, oblong or narrowly so.
- 164a. Achenes strongly compressed, with conspicuous, winglike margin ..... 37. *C. puberula*
- 164b. Achenes moderately compressed, without winglike margin.
- 165a. Bracteoles subulate, small ..... 33. *C. brevicaudata*
- 165b. Bracteoles ovate, elliptic, or lanceolate, conspicuous.
- 166a. Sepals adaxially sparsely puberulous ..... 36. *C. tamuræ*
- 166b. Sepals adaxially glabrous.
- 167a. Sepal apex truncate ..... 28. *C. peteræ*
- 167b. Sepal apex not truncate.
- 168a. Sepals thinly membranous, apex subacute ..... 35. *C. parviloba*
- 168b. Sepals thickly papery, apex rounded or obtuse ..... 34. *C. wissmanniana*
- 162b. Leaves 1-pinnate.
- 169a. Leaflet blades linear-lanceolate or lanceolate, glabrous ..... 48. *C. quinquefoliolata*
- 169b. Leaflet blades ovate or elliptic.
- 170a. Sepals adaxially densely puberulous ..... 23. *C. vaniotii*
- 170b. Sepals adaxially glabrous (sparsely puberulous in *C. grandidentata* and *C. peteræ*).
- 171a. Axillary cymes 1-flowered; sepals ovate ..... 1. *C. brevipes*
- 171b. Axillary cymes several to many flowered; sepals oblong or narrowly so.
- 172a. Achenes marginate ..... 50. *C. terniflora*
- 172b. Achenes not marginate.
- 173a. Achenes 5–8 mm.
- 174a. Sepals 4(–6), 1.3–2.4 cm ..... 47. *C. shensiensis*
- 174b. Sepals 4, 0.6–1.3 cm ..... 49. *C. chinensis*
- 173b. Achenes 2–4 mm.
- 175a. Axillary cymes 3–6-flowered; sepals 10–15 mm ..... 25. *C. grandidentata*
- 175b. Axillary cymes usually many flowered; sepals 6–10 mm.
- 176a. Bracteoles ovate, elliptic, or lanceolate, conspicuous; leaflet blades adaxially densely puberulous ..... 24. *C. gratopsis*
- 176b. Bracteoles subulate or linear, small, sometimes absent.
- 177a. Leaflet blades 3.5–7 cm wide, adaxially strigose.
- 178a. Leaflet blade margin sparsely dentate ..... 26. *C. chingii*
- 178b. Leaflet blade margin entire ..... 27. *C. tsaii*
- 177b. Leaflet blades 0.9–4.6 cm wide, adaxially puberulous.

- 179a. Leaflet blades usually undivided, adaxially sparsely puberulous, base usually rounded, margin often entire or sparsely dentate 28. *C. pterae*
- 179b. Leaflet blades often 3-lobed, adaxially densely puberulous, base usually cordate or subcordate, margin incised dentate or incised denticulate ..... 30. *C. grata*

**1. Clematis brevipes** Rehder, J. Arnold Arbor. 9: 39. 1928.

短梗铁线莲 duan geng tie xian lian

Vines woody. Branches very shallowly 4-grooved, glabrous or only sparsely puberulous on nodes; branchlets densely puberulous. Leaves pinnate, 5-foliolate; petiole 3.6–5 cm, puberulous; leaflet blades broadly ovate to broadly rhombic, ca. 3.8 × 3.8 cm, papery, 3-lobed, abaxially pubescent on veins, adaxially sparsely puberulous on slightly impressed veins, base subtruncate to broadly cuneate; basal veins nearly flat; central lobe subrhombic, margin 1-dentate on each side; lateral lobes oblique cuneate, unequally 2-lobed. Cyme arising from leaf axils of current year's branches, 1-flowered; peduncle 2.5–6 cm, puberulous; bracts narrowly lanceolate, 2–4 mm, puberulous. Flowers ca. 3 cm in diam. Pedicel 0.6–1.5 cm, puberulous. Sepals 4, yellowish white, spreading, broadly obovate, orbicular-rhombic, or broadly elliptic, 1.2–1.8 × 1–1.5 cm, abaxially puberulous, adaxially glabrous. Stamens 8–10 mm, glabrous; anthers narrowly oblong, 1.8–2 mm, apex obtuse. Ovaries pubescent. Style ca. 8 mm, densely villous. Fl. Apr.\*

• S Gansu (Min Xian).

**2. Clematis potaninii** Maximowicz, Trudy Imp. S.-Peterburgsk. Bot. Sada 11: 9. 1890.

美花铁线莲 mei hua tie xian lian

*Clematis fargesii* Franchet; *C. fargesii* var. *souliei* Franchet ex Finet & Gagnepain; *C. montana* Buchanan-Hamilton ex de Candolle var. *potaninii* (Maximowicz) Finet & Gagnepain; *C. potaninii* var. *fargesii* (Franchet) Handel-Mazzetti.

Vines woody. Branches shallowly 5- or 6-grooved, appressed puberulous. Leaves usually (1 or) 2-pinnate; petiole 3–5 cm; leaflet blades ovate to broadly ovate, 1.5–6 × 0.8–5.5 cm, thin papery, both surfaces sparsely appressed puberulous, base broadly cuneate, rounded, or subcordate, margin serrate, apex acute to acuminate; basal veins flat. Cymes arising from axils of leaves on current year's branches, 1–3 (or 4)-flowered; peduncle 5.5–15 cm; bracts ternate or simple, 3-lobed. Flowers 3–7 cm in diam. Pedicel 3–9.8 cm, appressed puberulous. Sepals 5 or 6 (or 7), white, cuneate-obovate to narrowly obovate, 1.8–3.8 × 0.8–2.4 cm, abaxially densely appressed puberulous, adaxially glabrous, apex rounded and apiculate. Stamens 0.7–1.8 cm, glabrous; anthers narrowly oblong, 2–3 mm, apex obtuse. Ovaries pubescent. Style 7–11 mm, densely villous. Achenes obovate to elliptic, 3–4.5 × 2–2.8 mm, glabrous; persistent style 2.5–3.2 cm, plumose. Fl. Jun–Aug, fr. Aug–Oct.

• Forests, forest margins, slopes; 1400–4000 m. S Gansu, S Shaanxi, N to W Sichuan, E Xizang, NW Yunnan.

**3. Clematis acerifolia** Maximowicz, Bull. Soc. Imp. Naturalistes Moscou 54(1): 2. 1879.

槭叶铁线莲 qi ye tie xian lian

Shrublets 20–60 cm tall. Branches subterete, not grooved, glabrous; bud scales ovate to ovate-oblong, 4–8 mm, puberulous near apex. Leaves simple, glabrous; petiole 2–5 cm; leaf blade pentagonal, 3–7.5 × 3.5–8 cm, palmately 5-lobed, thick papery, base subcordate to rarely broadly cuneate, margin sparsely dentate, apex acute; basal veins abaxially nearly flat to ± prominent. Flowers 2–4 borne together with leaves from a bud at apex of stem, 3.5–5 cm in diam. Pedicel 5.5–10 cm, glabrous. Sepals 5–8, white or pinkish, spreading, narrowly obovate to oblong, 1.5–2.5 × 0.7–1.5 cm, both surfaces glabrous, apex obtuse, subrounded, or acute. Stamens 5–8 mm, glabrous; anthers narrowly oblong to oblong, 1–2 mm, apex obtuse. Ovaries pubescent. Style ca. 4.5 mm, densely villous. Achenes narrowly ovate, 2.5–3 × 1.2–1.8 mm, densely pubescent; persistent style ca. 2.5 cm, plumose. Fl. Apr–May, fr. May–Jun.

• Rocky cliffs, soil slopes; ca. 200 m. Beijing Shi.

**4. Clematis montana** Buchanan-Hamilton ex de Candolle, Syst. Nat. 1: 164. 1817.

绣球藤 xiu qiu teng

Vines woody. Branches terete, often shallowly 4–10-grooved, puberulous, glabrescent. Leaves ternate; petiole 2.5–9 cm; leaflet blades ovate, rhombic-ovate, or elliptic, 1.8–7 (–14) × 1–5 cm, papery to herbaceous, undivided or 3-lobed, both surfaces sparsely puberulous, base broadly cuneate to rounded, margin sparsely dentate or occasionally entire, apex acuminate or acuminate; basal veins abaxially nearly flat. Flowers (1 or) 2–4 (–6) borne together with several leaves from axillary buds of old branches, 1.5–11 cm in diam. Pedicel 1–20 cm, sparsely puberulous. Sepals 4, white or sometimes tinged pink, spreading, obovate to oblong-obovate, (0.7–) 1.3–6.5 × (0.3–) 1–2.5 (–3.5) cm, abaxially puberulous, adaxially glabrous, apex rounded to rarely emarginate or short acuminate. Stamens 6–18 mm, glabrous; anthers narrowly oblong, sometimes linear, (1.5–) 2–3 (–4) mm, apex obtuse to minutely apiculate. Ovaries glabrous, rarely puberulous. Style 0.5–1 cm, densely villous. Achenes ovate to rhombic-ovate, 4–5 × 3–4 mm, glabrous, rarely appressed puberulous; persistent style 2–6 (–7) cm, plumose. Fl. Apr–Sep, fr. Jul–Sep.

Forests, forest margins, slopes, scrub, along streams; 1000–4000 m. S Anhui, NW Fujian, S Gansu, N Guangxi, Guizhou, SW Henan, Hubei, Hunan, Jiangxi, S Ningxia, E Qinghai, S Shaanxi, Sichuan, Taiwan, E and S Xizang, Yunnan, Zhejiang [Afghanistan, Bhutan, N India, Kashmir, N Myanmar, Nepal, N Pakistan, Sikkim].

- 1a. Ovaries and achenes puberulous.  
2a. Leaflet blades 1.8–6 × 1.5–3 cm; pedicel 4–9 cm; sepals 1.5–2.5 × 1–1.4 cm ..... 4b. var. *brevifoliola*  
2b. Leaflet blades 5–12 × 3–5 cm; pedicel 10–16.5 cm; sepals 2.5–3.4 × 1.5–2.5 cm ..... 4f. var. *glabrescens*
- 1b. Ovaries and achenes glabrous.  
3a. Sepals 0.7–1.2 cm; persistent style ca. 2 cm ..... 4c. var. *sterilis*  
3b. Sepals 1.3–6.5 cm; persistent style 2.5–6 cm.  
4a. Persistent style to 6 cm ... 4e. var. *wilsonii*  
4b. Persistent style 2.5–4.5 cm.  
5a. Flowers 3–5 cm in diam. .... 4a. var. *montana*  
5b. Flowers 5–11 cm in diam. .... 4d. var. *longipes*

**4a. *Clematis montana* var. *montana***

绣球藤(原变种) xiu qiu teng (yuan bian zhong)  
*Clematis insularialpina* Hayata; *C. kuntziana* H. Léveillé & Vaniot; *C. spooneri* Rehder & E. H. Wilson var. *subglabra* S. Y. Hu.

Leaflet blades 2–7 cm. Flowers 3–5 cm in diam. Pedicel 3–10(–12) cm. Sepals 1.3–3 × 0.8–1.5 cm. Anthers narrowly oblong, (1.5–)2–3 mm, apex obtuse. Ovaries glabrous. Achenes glabrous; persistent style 2.5–4 cm. Fl. Apr–Jun, fr. Jul–Sep.

Forests, forest margins, scrub, along streams; 1200–4000 m. S Anhui, NW Fujian, S Gansu, N Guangxi, Guizhou, SW Henan, Hubei, Hunan, Jiangxi, S Ningxia, S Shaanxi, Sichuan, Taiwan, S Xizang, Yunnan, Zhejiang [Afghanistan, Bhutan, N India, Nepal, N Pakistan].

**4b. *Clematis montana* var. *brevifoliola*** Kuntze, Verh. Bot. Vereins Prov. Brandenburg. 26: 141. 1885.

伏毛绣球藤 fu mao xiu qiu teng  
Leaflet blades 1.8–6 × 1.5–3 cm. Flowers 3–5 cm in diam.; pedicel 4–9 cm. Sepals 1.5–2.5 × 1–1.4 cm, abaxially appressed puberulous, margin ± densely puberulous, apex rounded. Anthers narrowly oblong or linear, 2–3.2 mm. Ovaries puberulous. Achenes appressed puberulous; persistent style ca. 2 cm.

*Abies* or *Picea* foests, scrub; 1000–4200 m. S Xizang (Yadong Xian) [Bhutan, Kashmir, N Myanmar, Nepal, Sikkim].

**4c. *Clematis montana* var. *sterilis*** Handel-Mazzetti, Symb. Sin. 7: 320. 1931.

小叶绣球藤 xiao ye xiu qiu teng  
Leaflet blades 1.2–3(–4) cm. Flowers 2–3 cm in diam. Pedicel 1–4 cm. Sepals 0.1–1.2 × 0.3–0.9 cm. Anthers narrowly oblong, 2–2.5 mm, apex obtuse. Ovaries glabrous. Achenes glabrous; persistent style ca. 2 cm. Fl. Apr–Jun, fr. Aug–Sep.

• Forests slopes; 2400–3000 m. SW Sichuan, E Qinghai, NW Yunnan.

**4d. *Clematis montana* var. *longipes*** W. T. Wang, Acta Phytotax. Sin. 38: 306. 2000.

大花绣球藤 da hua xiu qiu teng  
Leaflet blades 3–6.5(–9.8) cm. Flowers 5–11 cm in diam. Pedicel 10–19 cm. Sepals 2.6–5 × 1.3–2.6(–3.5) cm, abaxially densely appressed puberulous near margin but with a glabrescent band 0.8–1.5 cm wide, apex usually rounded-obtuse to acuminate. Anthers narrowly oblong, (2–)3–4 mm, apex obtuse or obscurely minutely apiculate. Ovaries glabrous. Achenes glabrous; persistent style 2.5–4.5 cm. Fl. Apr–Aug, fr. Jul–Aug.

Scrub, along streams; 1100–4000 m. S Gansu, NE Guizhou, W Hubei, W Hunan, S Shaanxi, Sichuan, SE Xizang, NW Yunnan [N India].

This variety was mistakenly identified as the Himalayan variety *Clematis montana* var. *grandiflora* Hooker in FRPS 28: 222. 1980.

**4e. *Clematis montana* var. *wilsonii*** Sprague, Bot. Mag. 137: t. 8365. 1911.

晚花绣球藤 wan hua xiu qiu teng  
*Clematis montana* var. *wilsonii* f. *platysepala* Rehder & E. H. Wilson.

Leaflet blades 3–8 cm. Flowers 4–8 cm in diam. Pedicel 8–20 cm. Sepals 2–4 × 1.2–2.5 cm, abaxially densely appressed puberulous near margin but with a glabrescent band to 8 mm wide, apex usually emarginate. Anthers linear to narrowly oblong, 2.4–3.2(–4) mm, apex minutely apiculate. Ovaries glabrous. Achenes glabrous; persistent style to 6 cm. Fl. and fr. Aug.

• Forest margins, scrub; 2400–3600 m. W Sichuan.

**4f. *Clematis montana* var. *glabrescens*** (H. F. Comber) W. T. Wang & M. C. Chang in W. T. Wang, Acta Bot. Yunnan. 15: 351. 1993.

毛果绣球藤 mao guo xiu qiu teng  
*Clematis chrysocoma* Franchet var. *glabrescens* H. F. Comber, Notes Roy. Bot. Gard. Edinburgh 18: 234. 1934; *C. montana* var. *trichogyne* M. C. Chang.

Leaflet blades 5–12 × 3–5 cm, apex acuminate, long acuminate, or attenuate. Flowers 5–10 cm in diam. Pedicel 10–16.5 cm. Sepals 2.5–3.4 × 1.5–2.5 cm, abaxially appressed puberulous. Anthers narrowly oblong, 2–3.5 mm, apex obtuse or obscurely minutely apiculate. Ovaries puberulous. Achenes appressed puberulous; persistent style 4.5–7 cm. Fl. May–Sep, fr. Sep.

• Forest margins, slopes, scrub; 2100–3500 m. E Xizang, NW Yunnan.

**5. *Clematis gracilifolia*** Rehder & E. H. Wilson in Sargent, Pl. Wilson. 1: 331. 1913.

薄叶铁线莲 bao ye tie xian lian  
Vines woody. Branches shallowly 4–6-grooved, appressed puberulous, glabrescent. Leaves usually pinnate, 5-foliolate, rarely ternate; petiole 1.5–7.5 cm; leaflet blades ovate, narrowly ovate, broadly ovate, or obovate, 0.5–3.5 × 0.3–3 cm, thin papery, undivided or 3-lobed or rarely 2- or 3-parted or -sect, both surfaces sparsely puberulous, base cuneate to rounded, margin

sparsely serrate to denticulate, apex acute; basal veins nearly flat. Flowers 1–5 borne together with several leaves from axillary buds of old branches, 1.5–6.5 cm in diam. Pedicel 2–6(–8) cm, sparsely puberulous. Sepals 4, white or abaxially tinged pinkish, spreading, obovate, 0.7–3.2 × 0.4–2 cm, abaxially puberulous, adaxially glabrous, apex rounded. Stamens 5.5–14 mm, glabrous; anthers narrowly oblong, 1.6–3.2 mm, apex obtuse. Ovaries glabrous or rarely puberulous. Style 5–7 mm, densely villous. Achenes broadly ovate, 4–4.5 × 3.2–3.8 mm, glabrous or rarely puberulous; persistent style 1.5–2.2 cm, plumose. Fl. Apr–Jun, fr. Jun–Oct.

• Forests, slopes, scrub, along streams; 2000–4000 m. S Gansu, W Sichuan, E to SE Xizang, NW Yunnan.

1a. Ovaries and achenes puberulous 5d. var. *lasiocarpa*

1b. Ovaries and achenes glabrous.

2a. Leaflet blades 2- or 3-parted or -sect ..... 5c. var. *dissectifolia*

2b. Leaflet blades undivided or 3-lobed.

3a. Flowers 2–3.5 cm in diam. .... 5a. var. *gracilifolia*

3b. Flowers 5–6.5 cm in diam. .... 5b. var. *macrantha*

#### 5a. *Clematis gracilifolia* var. *gracilifolia*

薄叶铁线莲(原变种) bao ye tie xian lian (yuan bian zhong)

*Clematis gracilifolia* var. *pentaphylla* (Maximowicz) W. T. Wang; *C. gracilifolia* var. *trifoliata* M. F. Johnson; *C. montana* Buchanan-Hamilton ex de Candolle var. *pentaphylla* Maximowicz.

Leaflet blades undivided or 3-lobed. Flowers 2–3.5 cm in diam. Ovaries and achenes glabrous. Fl. Apr–Jun, fr. Jun–Oct.

• Forests, along streams; 2000–3800 m. S Gansu, W Sichuan, E Xizang, NW Yunnan.

5b. *Clematis gracilifolia* var. *macrantha* W. T. Wang & M. C. Chang in W. T. Wang, Fl. Reipubl. Popularis Sin. 28: 359. 1980.

大花薄叶铁线莲 da hua bao ye tie xian lian

Leaflet blades undivided or 3-lobed. Flowers 5–6.5 cm in diam. Ovaries and achenes glabrous. Fl. Jun.

• W Sichuan (Baoping Xian, Li Xian).

5c. *Clematis gracilifolia* var. *dissectifolia* W. T. Wang & M. C. Chang in W. T. Wang, Fl. Reipubl. Popularis Sin. 28: 359. 1980.

狭裂薄叶铁线莲 xia lie bao ye tie xian lian

Leaflet blades 2- or 3-parted or -sect. Flowers 1.5–2.3 cm in diam. Ovaries and achenes glabrous. Fl. May–Jun, fr. Sep.

• Slopes, scrub; 2800–4000 m. W Sichuan, E to SE Xizang.

5d. *Clematis gracilifolia* var. *lasiocarpa* W. T. Wang, Acta Phytotax. Sin. 38: 501. 2000.

毛果薄叶铁线莲 mao guo bao ye tie xian lian

Leaves pinnate, 5-foliolate; leaflets 2- or 3-lobulate or undivided. Flowers white. Ovaries and achenes puberulous.

• Scrub on slopes; ca. 3500 m. SE Xizang.

6. *Clematis ningjingshanica* W. T. Wang, Acta Phytotax. Sin. 39: 310. 2001.

宁静山铁线莲 ning jing shan tie xian lian

Vines woody. Branches subterete, not grooved, smooth, sparsely puberulous only at nodes, glabrous elsewhere; bud scales triangular, 4–5 × 3–3.5 mm, leathery, densely ciliolate. Leaves ternate; petiole 1–1.3 cm, sparsely pilose; terminal leaflet blade petiolulate, rhombic-ovate, 3-parted, ca. 1.4 × 1.2 cm, leathery, abaxially pilose on midvein, adaxially glabrous, base broadly cuneate; central lobe narrowly rhombic, 3-lobulate, lateral lobes obliquely narrowly oblong, 1-denticulate or entire, apex acuminate; lateral leaflet blades subsessile, obliquely narrowly ovate, ca. 1.2 × 0.8 cm, 2- or 3-lobulate; basal veins nearly flat. Flowers 2 or 3, borne with 2 or 4 leaves on axillary buds of old branches, 2.7–3.2 cm in diam.; pedicel 2–3 cm, puberulous. Sepals 4, spreading, purple-red, obovate or narrowly so, rarely elliptic, 1.3–1.7 × 0.8–1.35 cm, abaxially sparsely puberulous, adaxially glabrous, apex rounded, mucronulate. Stamens 6–11 mm, glabrous; anthers linear, 2–2.8 mm, apex obtuse. Ovaries glabrous; style ca. 7 mm, densely villous. Fl. Jun.

• E Xizang (Ningjing Shan).

7. *Clematis chrysocoma* Franchet, Bull. Soc. Bot. France 33: 362. 1886.

金毛铁线莲 jin mao tie xian lian

*Clematis chrysocoma* var. *sericea* (Franchet ex Finet & Gagnepain) C. K. Schneider; *C. montana* de Candolle var. *sericea* Franchet ex Finet & Gagnepain; *C. spooneri* Rehder & E. H. Wilson.

Vines woody, sometimes suberect. Branches shallowly 8-grooved, glabrescent. Leaves ternate; petiole 1–6.5 cm; leaflet blades rhombic-obovate to rhombic-ovate, 2–6 × 1.5–4.5 cm, papery, abaxially densely appressed yellowish pubescent, adaxially ± densely appressed pubescent, base broadly cuneate, margin few dentate, apex acute to acuminate; basal veins nearly flat.

Flowers 1–6 borne together with several leaves from axillary buds of old branches or solitary in leaf axils of current year's branches, 3.2–6 cm in diam. Pedicel 4.5–8.5(–20) cm, densely puberulous. Sepals 4, white or pink, spreading, obovate to elliptic-obovate, 1.6–3 × 0.8–2 cm, abaxially appressed puberulous, adaxially glabrous, margin abaxially velutinous, apex obtuse, rounded, or rarely acute. Stamens 6–11 mm, glabrous; anthers narrowly oblong, 3–4 mm, apex obtuse. Ovaries pubescent. Style ca. 7 mm, densely villous. Achenes ovate, 4–5 × 2–3 mm, pubescent; persistent style 2.2–2.7 cm, brownish plumose. Fl. Apr–Jul, fr. Jul–Oct.

•Grassy, dry, or stony slopes, scrub along streams; 1000–3000 m. W Guizhou, W Sichuan, Yunnan.

**8. *Clematis venusta*** M. C. Chang in W. T. Wang, Fl. Reipubl. Popularis Sin. 28: 358. 1980.

丽叶铁线莲 li ye tie xian lian

Vines woody. Branches subterete, glabrescent. Leaves ternate; petiole 2–5.2 cm; leaflet blades lanceolate to narrowly ovate, 2.5–7 × 0.8–2 cm, papery, abaxially appressed sericeous-puberulous, adaxially very sparsely puberulous and often glabrescent, base cuneate, broadly cuneate, or rounded, margin entire or to 2-denticulate, apex attenuate; basal veins nearly flat. Flowers 1–3 borne together with several leaves arising from axillary buds of old branches, 5–8 cm in diam. Pedicel 4–15 cm, sparsely puberulous. Sepals 4, white, spreading, elliptic, 2.5–4 × 2–2.5 cm, abaxially sparsely appressed pubescent, adaxially glabrous, margin abaxially densely puberulous, apex obtuse to emarginate. Stamens 0.8–1.2 cm, glabrous; anthers narrowly oblong, 2.5–3 mm, apex obtuse. Ovaries glabrous or sparsely pubescent. Style ca. 7 mm, densely villous. Fl. May.

•Forests, scrub; 2300–2700 m. NW Yunnan (Lijiang Naxi Zu Zizhixian, Zhongdian Xian).

**9. *Clematis tripartita*** W. T. Wang, Acta Phytotax. Sin. 38: 500. 2000.

深裂铁线莲 shen lie tie xian lian

Vines woody. Branches shallowly 6–10-grooved, glabrous. Leaves ternate; petiole 1–1.8 cm, puberulous; terminal leaflet blade broadly rhombic, nearly 3-parted to base, 6–15 × 6–14 mm, leathery or thickly so, both surfaces puberulous, base broadly cuneate, lobes narrowly rhombic, 3-lobulate or 3-dentate; lateral leaflet blades obliquely ovate, unequally 2-parted, slightly smaller than central blade, lobes narrowly rhombic or obovate, margin 1- or 2-denticulate on each side; basal veins nearly flat. Flowers 1–6, borne with 4 leaves from axillary buds of old branches, 2–2.7 cm in diam.; pedicel slender, 2.8–4 cm, densely puberulous. Sepals 4, white, spreading, broadly oblanceolate, obovate-oblong, or oblong, 11–15 × 4–6 mm, abaxially appressed puberulous, adaxially glabrous, apex obtuse or acute. Stamens 4–7 mm, glabrous; filaments linear or narrowly so; anthers narrowly oblong or sublinear, 2–2.2 mm, apex obtuse. Ovaries pubescent; style ca. 5 mm, densely villous, apex circinate. Fl. Jun.

Slopes, moraine margins; 3000–4000 m. S Xizang (Nyalam Xian) [Nepal].

**10. *Clematis tongluensis*** (Brühl) Tamura var. ***mollisepala*** W. T. Wang, Acta Phytotax. Sin. 38: 503. 2000.

软萼铁线莲 ruan e tie xian lian

Vines woody. Branches subterete, 10-grooved, puberulous; bud scales triangular, 5–10 mm, leathery, appressed puberulous. Leaves ternate; petiole 4.5–8 cm; leaflet blades ovate or rhombic-ovate, 2- or 3-lobed or undivided, 4.8–9 × 3.5–5.6 cm, papery, both surfaces appressed puberulous, base rounded or broadly cuneate,

margin coarsely dentate, apex acute; basal veins nearly flat. Flowers 2 or 3, borne with ca. 2 leaves from axillary buds of old branches, 6–10.5 cm in diam.; pedicel 14–22.5 cm, densely puberulous. Sepals 4, white, spreading, oblong-oblanceolate or broadly oblanceolate, 2.9–4.9 × 0.9–1.9 cm, abaxially densely appressed puberulous, adaxially appressed puberulous, margin velutinous, apex acuminate or cuspidate. Stamens 6–16 mm, glabrous; filaments linear; anthers linear, 3.5–5.5 mm, apex obtuse. Ovaries distally densely pubescent; style ca. 9 mm, densely villous. Fl. Jun.

•Forest margins; ca. 2800 m. S Xizang (Nang Xian).

*Clematis tongluensis* var. *tongluensis* occurs in the Himalayas.

**11. *Clematis wenshanensis*** W. T. Wang, Acta Phytotax. Sin. 39: 313. 2001.

文山铁线莲 wen shan tie xian lian

Vines woody. Stems to 10 m; branches subterete, indistinctly 10-grooved, glabrous. Leaves ternate; petiole 2.4–4 cm; leaflet blade ovate or narrowly so, 3.5–7 × 1.8–3 cm, papery, abaxially sparsely appressed puberulous, adaxially very sparsely puberulous on veins, base rounded, margin dentate, apex acuminate or long acuminate; basal veins nearly flat. Flowers usually 2, borne with leaves from axillary buds of old branches, 6.5–7 cm in diam.; pedicel 9–11 cm, very sparsely puberulous. Sepals 4, white, spreading, ovate-oblong, 3.3–3.7 × 1.1–1.6 cm, abaxially subglabrous, adaxially glabrous, margin velutinous, apex attenuate and shortly cuspidate. Stamens 7–14 mm, glabrous; anthers linear or narrowly oblong, 2.5–3 mm, apex obtuse. Ovaries glabrous; style 8–11 mm, densely villous. Fl. May.

•Forests, bamboo thickets on slopes; 2400–2700 m. SE Yunnan (Wenshan Xian).

**12. *Clematis laxistrigosa*** (W. T. Wang & M. C. Chang) W. T. Wang, **comb. et stat. nov.**

糙毛铁线莲 cao mao tie xian lian

Basionym: *Clematis chrysocoma* var. *laxistrigosa* W. T. Wang & M. C. Chang in W. T. Wang, Acta Bot. Yunnan. 15: 352. 1993.

Vines woody. Branches subterete shallowly 8-grooved, puberulous, glabrescent. Leaves ternate; petiole 2.2–3.5 cm, puberulous; leaflet blade rhombic, narrowly so, or ovate, rarely long elliptic, undivided, sometimes 3-lobulate or 3-lobed, 1.5–4.8 × 1–3.5(–4) cm, papery, abaxially strigose, adaxially sparsely pubescent, base broadly cuneate or subrounded, margin few dentate or rarely entire, apex acute or shortly acuminate; basal veins abaxially slightly prominent. Flowers 1 or 2, arising from leaf axils of current year's branches, 5–5.6 cm in diam.; pedicel 5.8–9.5 cm, appressed puberulous. Sepals 4, white, spreading, narrowly elliptic, obovate-oblong, or narrowly obovate, (2–) 2.6–3 × 1–1.3 cm, abaxially appressed puberulous along 3 basal veins, adaxially glabrous, margin velutinous. Stamens 6–8.5 mm, glabrous; anthers linear, 3.5–3.8 mm, apex obtuse.

Ovaries densely puberulous; style ca. 6 mm, densely yellowish villous. Achenes compressed, ovate or broadly so, 2–2.5 × 2–2.2 mm, appressed pubescent; persistent style 9–11 mm, yellowish plumose. Fl. Aug–Sep.

• Scrambling on small trees, grassy slopes, along streams; 1100–2800 m. SW Sichuan (Ganluo Xian, Hanyuan Xian).

**13. *Clematis hastata*** Franchet ex Finet & Gagnepain, Bull. Soc. Bot. France 50: 527. 1903.

戟状铁线莲 *ji zhuang tie xian lian*

Vines woody. Branches shallowly 8-grooved, glabrous; bracts of axillary floral buds of old branches narrowly triangular to ovate, 6–8 mm, papery, sparsely puberulous toward apex. Leaves pinnate, 5–7-foliolate, rarely ternate, glabrous; petiole 2–3.5 cm; leaflet blades of lower pair narrowly ovate, 4.5–5.5 × 3.8–4.5 cm, subleathery, 3-parted or unequally 2-parted, base subcordate, margin entire, apex acute to ± obtuse; leaf blade of upper pair triangular-linear to narrowly triangular, 2.5–5 × 0.9–1.4 cm, base subcordate to truncate, margin entire and undivided; midvein abaxially ± prominent. Flowers 2–7, arising from axillary buds, 2.5–4 cm in diam. Pedicel 4–11.5 cm, pubescent. Sepals 4, white, spreading, oblanceolate to narrowly oblanceolate, 1.3–2.2 × 0.4–0.9 cm, abaxially densely appressed puberulous, adaxially glabrous, apex obtuse to rounded. Stamens ca. 8 mm, glabrous; anthers narrowly oblong, ca. 2 mm, apex obtuse or obscurely apiculate. Ovaries pubescent. Style ca. 7 mm, densely villous. Fl. Apr.

• Slopes in valleys. N to NE Sichuan.

**14. *Clematis glabrifolia*** K. Sun & M. S. Yan, Bull. Bot. Res., Harbin 12: 327. 1992.

光叶铁线莲 *guang ye tie xian lian*

Vines woody. Branches shallowly 8-grooved, glabrous. Leaves pinnate, 5-foliolate, or ternate, glabrous; petiole 2–5 cm; leaflet blades elliptic, ovate, or triangular-ovate, 2–5 × 1–3 cm, papery, base subcordate to rounded, margin entire, apex obtuse; basal veins flat on both surfaces. Flowers 2–7 borne together with several leaves from axillary buds of old branches, 3.6–4 cm in diam. Pedicel 6.5–7.5 cm, densely pubescent. Sepals 6, white, spreading, oblong-obovate, 1.8–2 × 0.8–1 cm, abaxially densely appressed puberulous, adaxially glabrous, apex rounded and often emarginate. Stamens ca. 1 cm, glabrous; anthers narrowly oblong to linear, 2–2.6 mm, apex obtuse. Ovaries pubescent. Style ca. 6 mm, densely villous. Fl. Mar.

• Grassy slopes; ca. 500 m. S Gansu (Wen Xian).

**15. *Clematis fasciculiflora*** Franchet, Pl. Delavay. 5. 1889.

滑叶藤 *hua ye teng*

Vines woody. Branches not grooved or very shallowly 4–8-grooved, sparsely puberulous, glabrescent. Leaves ternate; petiole 2–3(–6) cm; leaflet blades narrowly

ovate, lanceolate, or elliptic, rarely linear-lanceolate, 2–8.5(–11) × (0.3–)0.8–3.5(–5) cm, subleathery, abaxially sparsely puberulous or glabrous, adaxially glabrous, base broadly cuneate to rounded, margin entire, apex acuminate; basal veins nearly flat. Flowers usually 2–4, sometimes borne together with 2 to several leaves from axillary buds of old branches, 1.4–1.7 cm in diam. Pedicel 0.5–2.4 cm, yellowish velutinous.

Sepals 4, white, erect, obovate-oblong to suboblong, 1.2–2 × 0.5–0.8 cm, abaxially yellowish velutinous, adaxially glabrous, apex ± obtuse. Stamens 0.9–1.4 cm, glabrous; anthers narrowly oblong, 3–3.2 mm, apex obtuse. Ovaries glabrous. Style 0.9–1.2 cm, densely villous. Achenes lanceolate, 5.5–8 × 1.5–3 mm, glabrous; persistent style 1–1.6 cm, plumose. Fl. Dec–Mar, fr. Jul–Oct.

Forests, scrub, along streams, stony slopes; 1500–3500 m. W Guangxi, SW Guizhou, SW Sichuan, Yunnan [N Myanmar, N Vietnam].

- 1a. Leaflet blades narrowly ovate, lanceolate, or elliptic, 0.8–3.5(–5) cm wide 15a. var. *fasciculiflora*  
1b. Leaflet blades linear-lanceolate, 0.3–0.6(–1) cm wide ..... 15b. var. *angustifolia*

**15a. *Clematis fasciculiflora* var. *fasciculiflora***

滑叶藤(原变种) *hua ye teng* (yuan bian zhong)

*Clematis montana* Buchanan-Hamilton ex de Candolle var. *fasciculiflora* (Franchet) Brühl.

Leaflet blades narrowly ovate, lanceolate, or elliptic, 0.8–3.5(–5) cm wide.

Forests, scrub, along streams; 1500–2500 m. W Guangxi, SW Guizhou, SW Sichuan, Yunnan [N Myanmar, N Vietnam].

**15b. *Clematis fasciculiflora* var. *angustifolia*** H. F. Comber, Notes Roy. Bot. Gard. Edinburgh 18: 236. 1934.

狭叶滑叶藤 *xia ye hua ye teng*

Leaflet blades linear-lanceolate, 0.3–0.6(–1) cm wide.

• Stony slopes; 2300–3300 m. NW Yunnan (Lijiang Naxi Zu Zizhixian, Zhongdian Xian).

**16. *Clematis napaulensis*** de Candolle, Syst. Nat. 1: 164. 1817.

合苞铁线莲 *he bao tie xian lian*

*Clematis cirrhosa* Linnaeus var. *napaulensis* (de Candolle) Kuntze.

Vines woody. Branches terete or indistinctly 6-angled, glabrous. Leaves ternate; petiole 3–7.5 cm; leaflet blades narrowly ovate to lanceolate, 3–7.5 × 1.2–2.6 cm, herbaceous, both surfaces glabrous or abaxially sparsely puberulous, base broadly cuneate to rounded, margin basally few denticulate or entire, apex attenuate; basal veins nearly flat. Cymes 1–3 borne together with several leaves from axillary buds of old branches, 1-flowered; peduncle 2–4 cm, sparsely puberulous; involucre cup-shaped, 4–7 mm, 2-lobed, outside sparsely puberulous. Flowers 1.6–1.8 cm in diam. Pedicel 2–12 mm. Sepals 4, greenish white, erect, oblong, 1.6–2 × 0.6–8.5 mm, abaxially velutinous,

adaxially glabrous, apex ± obtuse. Stamens 0.7–2 cm, glabrous; anthers oblong, 3–3.8 mm, apex minutely apiculate. Ovaries pubescent. Style 1.4–2 cm densely villous. Achenes obovate to subrhombic, ca. 4 × 2 mm, pubescent; persistent style 4.5–5 cm, plumose. Fl. Nov–Dec, fr. Feb–Mar.

Forests; 1500–2300 m. S Guizhou, E Xizang, Yunnan [Bhutan, N India, N Myanmar, Nepal, Sikkim].

**17. *Clematis tinghuensis*** C. T. Ting in W. T. Wang, Fl. Rei-publ. Popularis Sin. 28: 357. 1980.

鼎湖铁线莲 *ding hu tie xian lian*

Vines woody. Branches longitudinally 6- or 7-grooved, sparsely puberulous. Leaves ternate or simple; petiole 1.2–4 cm, sparsely puberulous; leaflet blades or leaf blade ovate to broadly ovate, 2–8 × 1–5 cm, papery, abaxially sparsely appressed puberulous, adaxially minutely puberulous only on basal veins, base subcordate, truncate, or rounded, margin sparsely minutely denticulate or entire, apex acuminate; basal veins nearly flat. Cymes axillary or terminal, 3–7-flowered; peduncle 3.5–6 cm, sparsely puberulous; bracts petiolate, ovate, 0.7–2 cm. Flowers ca. 2 cm in diam. Pedicel 0.6–1.8 cm, appressed puberulous. Sepals 4, white, spreading, obovate-oblong, 10–12 × 3–4 mm, abaxially appressed puberulous, adaxially glabrous, margin abaxially velutinous, apex acute. Stamens 6–7 mm, glabrous; anthers oblong, ca. 1 mm, apex obtuse. Ovaries pubescent. Style ca. 6 mm, densely brownish pubescent from base to middle, subappressed brownish shortly hairy at middle, glabrous apically. Achenes narrowly ovate, 8–9 × 3.8–4.2 mm, appressed puberulous; persistent style ca. 6 mm, basally pubescent, middle puberulous, apically glabrous. Fl. Jun–Jul, fr. Oct.

• Forests, forest margins; 200–400 m. S Guangdong (Dinghu Shan, Gaoyao Xian).

**18. *Clematis apiifolia*** de Candolle, Syst. Nat. 1: 149. 1817.  
女萎 *nu wei*

Vines woody. Stems 1–6 m; branches longitudinally 5- or 6-grooved, densely appressed puberulous. Leaves ternate; petiole 1.5–14 cm, puberulous; leaflet blades ovate, broadly ovate, or elliptic, 2–9(–13) × 1.6–7(–9.5) cm, papery, often indistinctly 3-lobed, abaxially puberulous, densely puberulous, or velutinous, adaxially puberulous, base rounded, rounded-truncate, or subcordate, margin distally sparsely 1- or 2(–5)-dentate or rarely entire, apex acuminate to acute; basal veins abaxially ± prominent to nearly flat. Cymes axillary or terminal, (3–)7- to many flowered; peduncle 1.8–9.5 cm; bracts petiolate, elliptic to broadly ovate, 1–4 cm, undivided or 3-lobed. Flowers 1–1.6 (–2.8) cm in diam. Pedicel 5–12(–28) mm, densely puberulous. Sepals 4, white, spreading, obovate-oblong to oblanceolate, 6–8(–15) × 2.2–3.2(–4) mm, abaxially appressed puberulous, adaxially velutinous, margin

abaxially velutinous, apex obtuse. Stamens 4–6(–10) mm, glabrous; anthers narrowly oblong, 1.5–1.8 mm, apex obtuse. Ovaries pubescent. Style 4–6 mm, densely villous. Achenes oblong-ovate to fusiform, 3.5–4.5 × 1–2 mm, puberulous; persistent style 0.8–2.5(–2.7) cm, plumose. Fl. May–Sep, fr. Jun–Oct.

Forests, grassy slopes, along streams; 100–2300 m. S Anhui, N Fujian, S Gansu, N Guangdong, N Guangxi, Guizhou, S Henan, Hubei, Hunan, S Jiangsu, Jiangxi, S Shaanxi, Sichuan, E Yunnan, Zhejiang [Japan, Korea].

1a. Leaflet blades abaxially sparsely puberulous;

persistent style 0.8–1.2(–1.5) cm 18a. var. *apiifolia*

1b. Leaflet blades abaxially densely puberulous to velutinous, rarely sparsely puberulous;

persistent style 1.5–2.5(–2.7) cm 18b. var. *argenticulida*

**18a. *Clematis apiifolia*** var. *apiifolia*

女萎(原变种) *nu wei (yuan bian zhong)*

Leaflet blades 2–8 × 1.5–6 cm, abaxially sparsely puberulous. Persistent style 0.8–1.2(–1.5) cm. Fl. Jul–Sep, fr. Sep–Oct.

Forests, grassy slopes, along streams; 100–400 m. S Anhui, N Fujian, S Jiangsu, NE Jiangxi, Zhejiang [Japan, Korea].

**18b. *Clematis apiifolia*** var. *argenticulida* (H. Léveillé & Vaniot) W. T. Wang, Acta Phytotax. Sin. 31: 216. 1993.

钝齿铁线莲 *dun chi tie xian lian*

*Clematis vitalba* Linnaeus var. *argenticulida* H.

Léveillé & Vaniot, Bull. Acad. Int. Géogr. Bot. 11: 167. 1902; *C. apiifolia* var. *obtusidentata* Rehder & E. H. Wilson; *C. grata* Wallich var. *argenticulida* (H. Léveillé & Vaniot) Rehder; *C. obtusidentata* (Rehder & E. H. Wilson) H. Eichler.

Leaflet blades 2.5–13 × 2.2–9.5 cm, abaxially densely puberulous to velutinous, rarely sparsely puberulous. Persistent style 1.5–2.5(–2.7) cm. Fl. May–Jul, fr. Jun–Aug.

• Forests, along streams; 200–2300 m. S Anhui, S Gansu, N Guangdong, N Guangxi, Guizhou, S Henan, Hubei, Hunan, S Jiangsu, Jiangxi, S Shaanxi, Sichuan, E Yunnan, W Zhejiang.

**19. *Clematis mashanensis*** W. T. Wang, Bull. Bot. Res., Harbin 9(2): 7. 1989.

马山铁线莲 *ma shan tie xian lian*

Vines woody. Branches shallowly 4–6-grooved, sparsely spreading puberulous. Leaves ternate; petiole ca. 6 cm, puberulous; leaflet blades ovate to narrowly ovate, 6.5–7.4 × 2.8–4.3 cm, leathery, abaxially sparsely puberulous on midvein, adaxially glabrous, base rounded, margin entire, apex acuminate; basal veins abaxially ± prominent. Cymes axillary, 1-flowered; peduncle 3.5–4.7 cm, spreading puberulous; bracts simple or foliaceous, short petiolate, broadly lanceolate to lanceolate, 1.6–3 cm. Flowers 4.5–5 cm in diam. Pedicel 2.8–3.6 cm, puberulous. Sepals 4, spreading, lanceolate to oblong-lanceolate, 2.2–2.6 × 0.9–1 cm, abaxially densely appressed sericeous, adaxially glabrous, margin abaxially velutinous, apex ± acute. Stamens 0.7–1.3 cm, glabrous; anthers narrowly

oblong, 2.5–3 mm, apex obtuse to minutely apiculate. Ovaries pubescent. Style ca. 1 cm, densely villous. Fl. Apr.

• Limestone hills; ca. 400 m. C Guangxi (Mashan Xian).

**20. *Clematis tenuipes*** W. T. Wang, Acta Phytotax. Sin. 6: 377. 1957.

细梗铁线莲 xi geng tie xian lian

*Clematis parviloba* Gardner & Champion var. *tenuipes* (W. T. Wang) C. T. Ting.

Vines woody, turning black on drying. Branches shallowly 4-grooved, appressed puberulous. Leaves ternate; petiole 2–4 cm; leaflet blades elliptic-ovate to ovate, 4.2–6.8 × 1.6–3 cm, subleathery, both surfaces strigose only on basal veins, base rounded to subcordate, margin entire, apex acute, acuminate, or short caudate; basal veins abaxially ± prominent, adaxially impressed. Cymes axillary, 1-flowered; peduncle slender, 1–2.5 cm, appressed puberulous; bracts linear, 3–4 mm, densely puberulous. Flowers 2.5–3 cm in diam. Pedicel 1.8–2.2 cm. Sepals 4, white, spreading, elliptic-oblong, 12–15 × 5–7 mm, abaxially densely sericeous-puberulous, adaxially glabrous, margin abaxially velutinous, apex obtuse. Stamens 8–10 mm, glabrous; anthers oblong, ca. 1.5 mm, apex apiculate. Ovaries pubescent. Style ca. 6 mm, densely brownish villous. Fl. Apr–May.

• Forests; 700–1000 m. SE Yunnan (Funing Xian).

**21. *Clematis burmanica*** Lace, Bull. Misc. Inform. Kew 1915: 394. 1915.

缅甸铁线莲 mian dian tie xian lian

Vines woody. Branches shallowly 10-grooved, appressed puberulous. Leaves ternate; petiole 6–10 cm; leaflet blade ovate or triangular-ovate, 6–11 × 3.4–6 cm, subleathery or papery, abaxially sparsely pubescent on basal veins and veinlets, adaxially sparsely puberulous on basal veins, base rounded or truncate-rounded, margin entire, apex acute or attenuate; basal veins abaxially slightly prominent. Cymes axillary, paniclelike, many flowered; peduncle 0.7–9.5 cm, sparsely puberulous; bracts petiolate, narrowly elliptic, 0.7–2.5 cm. Flowers 1.3–2.4 cm in diam.; pedicel 0.6–2.6 cm, densely puberulous. Sepals 4, white, spreading, narrowly oblong, 6.5–14 × 3–5 mm, abaxially densely appressed puberulous, adaxially glabrous, margin sometimes velutinous. Stamens 5–9 mm, glabrous; anthers oblong or narrowly so, 1.2–1.8 mm, apex obtuse. Ovaries densely puberulous; style ca. 5 mm, densely villous. Achenes compressed, broadly elliptic, ca. 5 × 4 mm, densely appressed pubescent; persistent style ca. 3.5 cm, yellow plumose. Fl. Aug–Dec. Forests; 900–1700 m. SW Yunnan [Myanmar, N Thailand].

**22. *Clematis formosana*** Kuntze, Hooker's Icon. Pl. 20: t. 1945. 1891.

宝岛铁线莲 bao dao tie xian lian

*Clematis sasakii* Shimizu.

Vines perennial, herbaceous. Branches shallowly 4–6-grooved, densely puberulous. Leaves ternate; petiole 2.8–6.2 cm; leaflet blades lanceolate to narrowly ovate, rarely ovate, 3.2–6.3(–7.4) × (0.8–)1.1–2.3(–3.4) cm, papery, undivided or 3-lobed, abaxially sparsely puberulous, adaxially glabrous or subglabrous, base broadly cuneate, margin entire, apex attenuate to acuminate and mucronate; basal veins abaxially ± prominent. Cymes axillary or terminal, 3–5-flowered; peduncle 0.5–3 cm, densely puberulous; bracts petiolate, narrowly ovate to lanceolate. Flowers 1.5–2.5 cm in diam. Pedicel 0.5–3.4 cm, densely puberulous. Sepals 4, white, spreading, narrowly oblong, 8–13 × 3–4 mm, abaxially densely appressed puberulous, adaxially glabrous, apex acute-mucronate. Stamens 2–9 mm, glabrous; anthers oblong, 0.8–1 mm, apex obtuse. Ovaries pubescent. Style 6–7 mm, densely villous. Achenes ovate to elliptic, 3–5 × ca. 2.5 mm, pubescent; persistent style 1.5–4 cm, yellowish plumose. Fl. Nov–Jan, fr. Jan–Feb.

• Sunny areas, forest margins; near sea level to 800 m. E to S Taiwan.  
**23. *Clematis vaniotii*** H. Léveillé & Porter, Repert. Spec. Nov. Regni Veg. 9: 20. 1910.

云贵铁线莲 yun gui tie xian lian

*Clematis phaseolifolia* W. T. Wang.

Vines woody. Branches shallowly 8-grooved, sparsely puberulous or glabrous. Leaves ternate or pinnate, 5-foliolate; petiole 3–7 cm; leaflet blades ovate, narrowly ovate, or oblong, 3–10 × 2–5 cm, papery, both surfaces sparsely puberulous on veins, base rounded to rounded-truncate, margin entire or sometimes sparsely 1–3-denticulate, apex acuminate; basal veins nearly flat. Cymes (1–)3-flowered; peduncle 1.8–5.5 cm, glabrous; bracts lanceolate, 3–7 mm. Flowers 2–3.4 cm in diam. Pedicel 2–5 cm, sparsely puberulous only near apex. Sepals 4, yellowish white, spreading, oblong to obovate-oblong, 10–16 × 4–6 mm, abaxially sparsely puberulous near apex, adaxially densely puberulous, margin abaxially velutinous, apex obtuse. Stamens 7–12 mm, glabrous; anthers oblong to narrowly oblong, 2–2.6 mm, apex obtuse. Ovaries pubescent. Style 7–9 mm, densely villous. Fl. Mar–Apr, fr. May.

• Forests, slopes, forest margins; 600–1500 m. S Guizhou, SE Yunnan.

**24. *Clematis gratopsis*** W. T. Wang, Acta Phytotax. Sin. 6: 385. 1957.

金佛铁线莲 jin fo tie xian lian

*Clematis grata* Wallich var. *lobulata* Rehder & E. H. Wilson.

Vines woody, turning black on drying. Stems to 2.5 m; branches longitudinally 4- or 5-grooved, densely puberulous and mixed with hairs. Leaves pinnate, (3–)5-foliolate; petiole 2–5.5 cm, densely pubescent;

leaflet blades broadly ovate to deltoid-ovate, 1.8–7 × 1.1–7.8 cm, papery, 3-lobed or parted, abaxially densely puberulous but velutinous on veins, adaxially densely appressed pubescent, base subcordate, cordate, or rounded-truncate, margin sparsely unequally dentate, apex acute to acuminate; basal veins abaxially nearly flat. Cymes axillary or terminal, (1–)3–14-flowered; peduncle 3–9 cm; bracts short petiolate, elliptic to broadly ovate, 0.7–2 cm. Flowers 1.3–1.7 cm in diam. Pedicel 0.8–2.4 cm, puberulous. Sepals 4, white, spreading, obovate-oblong, 7–9.5 × 2.8–5 mm, abaxially densely puberulous to velutinous, adaxially glabrous, margin abaxially velutinous, apex obtuse. Stamens 6–8.5 mm, glabrous; anthers narrowly oblong, 1–1.2 mm, apex rounded. Ovaries pubescent. Style ca. 5 mm, densely villous. Achenes ovate, ca. 4 × 2 mm, puberulous; persistent style 2.3–4.5 cm, plumose. Fl. Aug–Oct, fr. Oct–Nov.

• Scrub on slopes, along streams; 200–1700 m. S Gansu, W Hubei, NW Hunan, S Shaanxi, NE and SE Sichuan.

**25. *Clematis grandidentata*** (Rehder & E. H. Wilson) W. T. Wang, Acta Phytotax. Sin. 31: 218. 1993.

粗齿铁线莲 cu chi tie xian lian

Vines woody. Stems 1.8–3.5 m; branches longitudinally 5- or 6-grooved, densely appressed puberulous. Leaves pinnate, (3–)5-foliolate; petiole 2.5–7 cm, puberulous; leaflet blades ovate, broadly ovate, or elliptic, 3.5–8(–10) × 1.8–4.8(–8) cm, papery, undivided or 3-lobed, abaxially densely puberulous or sometimes velutinous to sparsely puberulous, adaxially sparsely appressed puberulous, base rounded, broadly cuneate, truncate, or subcordate, margin sparsely coarsely dentate, apex acuminate to acute; basal veins nearly flat or ± prominent. Cymes axillary or terminal, 3–20-flowered, axillary ones often 3–6-flowered; peduncle 2–6 cm; bracts sometimes foliaceous, linear to narrowly lanceolate, 5–11 mm. Flowers 1.6–3 cm in diam. Pedicel 1.2–3 cm, densely puberulous. Sepals 4 or 5, white, spreading, obovate-oblong, 10–15 × 2.5–5 mm, abaxially densely appressed puberulous, adaxially glabrous or sparsely appressed puberulous, margin abaxially velutinous, apex obtuse. Stamens 7–10 mm, glabrous; anthers narrowly oblong, 1.2–2 mm, apex obtuse. Ovaries pubescent or glabrous. Style ca. 7 mm, densely villous. Achenes broadly ovate to broadly elliptic, 2.2–3 × 2–2.5 mm, ± pubescent or glabrous; persistent style 2–3.4 cm, plumose. Fl. May–Aug, fr. Jul–Aug.

• Sparse forests, scrub on slopes, along streams; 400–3400 m. W Anhui, S Gansu, Guizhou, SW Hebei, W Henan, Hubei, W Hunan, S Ningxia, E Qinghai, S Shaanxi, Shanxi, Sichuan, N to NW Yunnan, NW Zhejiang.

1a. Ovaries and achenes pubescent 25a. var. *grandidentata*  
1b. Ovaries and achenes glabrous 25b. var. *likiangensis*

**25a. *Clematis grandidentata* var. *grandidentata***  
粗齿铁线莲(原变种) cu chi tie xian lian (yuan bian zhong)

*Clematis grata* Wallich var. *grandidentata* Rehder & E. H. Wilson in Sargent, Pl. Wilson. 1: 338. 1913.

Ovaries and achenes pubescent.

• Scrub on slopes; 400–3200 m. W Anhui, S Gansu, Guizhou, SW Hebei, W Henan, Hubei, W Hunan, S Ningxia, E Qinghai, S Shaanxi, S Shanxi, Sichuan, N Yunnan.

**25b. *Clematis grandidentata* var. *likiangensis*** (Rehder) W. T. Wang, Acta Phytotax. Sin. 31: 219. 1993.

丽江铁线莲 li jiang tie xian lian

*Clematis grata* Wallich var. *likiangensis* Rehder, J. Arnold Arbor. 14: 201. 1933; *C. argentilucida* W. T. Wang var. *likiangensis* (Rehder) W. T. Wang.

Ovaries and achenes glabrous.

• Sparse forests, scrub on slopes, along streams; 2000–3400 m. Guizhou, SW Hebei, W Hubei, Sichuan, NW Yunnan, NW Zhejiang.

**26. *Clematis chingii*** W. T. Wang, Acta Phytotax. Sin. 6: 383. 1957.

两广铁线莲 liang guang tie xian lian

Vines woody. Stems 2–10 m; branches shallowly longitudinally 7- or 8-grooved, densely puberulous. Leaves pinnate, (3–)5-foliolate; petiole 2.5–6 cm, densely puberulous; leaflet blades ovate, broadly ovate, or elliptic, 4–8 × 1.5–6.5 cm, papery, undivided or rarely 3-lobed, abaxially densely puberulous, adaxially strigose, base rounded to subcordate, margin usually 1–4-dentate or rarely entire, apex acuminate to acute; basal veins abaxially prominent. Cymes axillary or terminal, (3–)10–85-flowered; peduncle 2.2–8.5 cm; bracts short petiolate, ovate to elliptic, 0.5–6 cm. Flowers 1.3–1.8 cm in diam. Pedicel 0.5–1.7 cm, densely puberulous. Sepals 4, white, spreading, elliptic-oblong, oblong, or obovate-oblong, 7–9.5 × 2–4.5 mm, abaxially densely velutinous, adaxially glabrous, margin abaxially velutinous, apex obtuse. Stamens 3–6 mm, glabrous; anthers narrowly oblong, 1.2–2 mm, apex rounded to obtuse. Ovaries puberulous. Style ca. 4 mm, densely villous. Fl. Jul–Sep, fr. Oct–Dec.

• Scrub on slopes; 200–1700 m. N Guangdong, W Guangxi, SW Guizhou, S and W Hunan (Fenghuang Xian), SE Yunnan.

**27. *Clematis tsaii*** W. T. Wang, Acta Phytotax. Sin. 6: 382. 1957.

福贡铁线莲 fu gong tie xian lian

Vines woody. Branches shallowly 5- or 6-grooved, densely puberulous. Leaves pinnate, (3–)5-foliolate; petiole 3–8 cm, densely puberulous; leaflet blades elliptic-ovate to elliptic-oblong, rarely obliquely rhombic, 7–13 × 3–6 cm, papery, abaxially densely puberulous, adaxially sparsely strigose, base broadly cuneate to rounded, margin entire, apex acuminate to acute; basal veins abaxially prominent. Cymes axillary or terminal, 9–60-flowered; peduncle 4–12 cm; bracts

linear, 6–9 mm. Flowers ca. 1.7 cm in diam. Pedicel 0.9–2 cm, densely puberulous. Sepals 4, white, spreading, obovate-oblong to oblanceolate, 7–9 × 2–4 mm, abaxially velutinous, adaxially glabrous, margin abaxially velutinous, apex obtuse. Stamens 6.2–8 mm, glabrous; anthers narrowly oblong, 1.3–1.5 mm, apex obtuse. Ovaries puberulous. Style ca. 5 mm, densely villous. Achenes elliptic-ovate, 2.2–3 × ca. 2 mm, pubescent; persistent style 4.5–6.5 cm, plumose. Fl. Jul–Sep, fr. Oct–Dec.

• Forests, slopes; 1500–2000 m. SE Xizang, C to NW Yunnan.

**28. *Clematis peterae*** Handel-Mazzetti, Acta Horti Gothob. 13: 213. 1939–1940.

钝萼铁线莲 *dun e tie xian lian*

Vines woody. Branches shallowly 5-grooved, puberulous, glabrescent. Leaves pinnate or 2-pinnate; petiole 1.5–5.4 cm, puberulous to subglabrous; leaflet blades ovate, elliptic-ovate, narrowly ovate, or lanceolate, 2–9.5 × 0.9–4.5 cm, papery, undivided or rarely 3-lobed, abaxially subglabrous to sparsely or rarely densely puberulous, adaxially glabrous or nearly so to rarely sparsely puberulous, base truncate-rounded, rounded, subcordate, or broadly cuneate, margin entire or to 2-dentate on each side, apex acuminate to attenuate; basal veins abaxially ± prominent. Cymes axillary or terminal, few to many flowered; peduncle 1.3–7 cm; bracts foliaceous or simple. Flowers 1–1.5 cm in diam. Pedicel 0.7–1.5 cm, puberulous. Sepals 4, white, spreading, obovate-oblong to narrowly obovate, 6–10 × 2–5 mm, abaxially densely puberulous or rarely glabrous, adaxially appressed puberulous or glabrous, margin abaxially velutinous, apex obtuse to truncate. Stamens 3–7 mm, glabrous; anthers narrowly oblong to oblong, 2–2.5 mm, apex obtuse. Ovaries glabrous or pubescent. Style ca. 5 mm, densely villous. Achenes elliptic-ovate to elliptic, 2–4 × 2–2.5 mm, glabrous or pubescent; persistent style (1–)1.5–3.3 cm, plumose. Fl. May–Nov, fr. Aug–Feb.

• Mixed forests, forest margins, slopes, scrub, along streams; 600–3400 m. S Anhui, S Gansu, E Guangxi, Guizhou, SW Hebei, S to W Henan, Hubei, NW and S Hunan, S Jiangsu, N Jiangxi, S Shaanxi, S Shanxi, Sichuan, C Taiwan, SE Xizang, Yunnan, Zhejiang.

1a. Leaves 2-pinnate, 9–15-foliolate; sepals adaxially glabrous; persistent style yellowish plumose ..... 28c. var. *lishanensis*

1b. Leave 1-pinnate, (3–)5-foliolate; sepals adaxially puberulous; persistent white plumose.

2a. Ovaries and achenes glabrous 28a. var. *peterae*

2b. Ovaries and achenes pubescent ..... 28b. var. *trichocarpa*

**28a. *Clematis peterae*** var. *peterae*

钝萼铁线莲(原变种) *dun e tie xian lian* (*yuan bian zhong*)

*Clematis gouriana* Roxburgh ex de Candolle var. *finetii* Rehder & E. H. Wilson; *C. peterae* var. *mollis* W. T. Wang; *C. vitalba* Linnaeus var. *microcarpa* Franchet.

Leaves pinnate, (3–)5-foliolate; leaflets ovate to elliptic-ovate, 2–9.5 × 0.9–4 cm, abaxially subglabrous, sparsely puberulous, or rarely densely puberulous, base truncate-rounded to rounded, margin entire or to 2-dentate on each side. Sepals 6–8 × 2–4 mm, abaxially puberulous or glabrous, adaxially puberulous. Stamens 5.5–7 mm. Ovaries glabrous. Achenes 2–3.5 mm, glabrous; persistent style (1–)2 cm, white plumose. Fl. May–Aug, fr. Sep–Nov.

• Mixed forests, along streams; 600–3400 m. S Gansu, E Guangxi, Guizhou, SW Hebei, W Hubei, NW Hunan, S Shaanxi, S Shanxi, Sichuan, SE Xizang, Yunnan.

**28b. *Clematis peterae*** var. *trichocarpa* W. T. Wang, Acta Phytotax. Sin. 6: 381. 1957.

毛果铁线莲 *mao guo tie xian lian*

Leaves pinnate, (3–)5-foliolate; leaflets ovate to elliptic-ovate, 2–9.5 × 0.9–4 cm, abaxially subglabrous to sparsely puberulous, base truncate-rounded to rounded, margin entire or to 2-dentate on each side. Sepals 6–8 × 2–4 mm, abaxially puberulous or glabrous, adaxially puberulous. Stamens 5.5–7 mm. Ovaries pubescent. Achenes 2–3.5 mm, pubescent; persistent style (1–)2 cm, white plumose. Fl. Jun–Sep, fr. Aug–Nov.

• Slopes, scrub, along streams; 600–1900 m. S Anhui, S Gansu, Guizhou, S to W Henan, Hubei, NW and S Hunan, S Jiangsu, N Jiangxi, S Shaanxi, Sichuan, N Zhejiang.

**28c. *Clematis peterae*** var. *lishanensis* (T. Y. Yang & T. C. Huang) W. T. Wang, Acta Phytotax. Sin. 36: 155. 1998.

梨山铁线莲 *li shan tie xian lian*

*Clematis gouriana* Roxburgh ex de Candolle subsp. *lishanensis* T. Y. Yang & T. C. Huang, J. Taiwan Mus. 44(1): 144. 1991.

Leaves 2-pinnate, 9–15-foliolate; leaflet blades narrowly ovate, lanceolate, or ovate, (3.6–)4.3–6.2(–7.5) × (1.2–)1.6–2.9(–4) cm, abaxially sparsely puberulous, base subcordate, rounded, or broadly cuneate, margin entire. Sepals 7–10 × 4–5 mm, abaxially densely puberulous, adaxially glabrous or nearly so. Stamens 3–6 mm. Ovaries pubescent. Achenes 2–4 mm, pubescent; persistent style 1.5–3.3 cm, yellowish plumose. Fl. Sep–Nov, fr. Nov–Feb.

• Forest margins, slopes; 1200–2600 m. C Taiwan.

**29. *Clematis gouriana*** Roxburgh ex de Candolle, Syst. Nat. 1: 138. 1817.

小蓑衣藤 *xiao suo yi teng*

*Clematis martini* H. Léveillé; *C. vitalba* subsp. *gouriana* (Roxburgh ex de Candolle) Kuntze; *C. vitalba* Linnaeus var. *gouriana* (Roxburgh ex de Candolle) Finet & Gagnepain; *C. vitalba* var. *micrantha* H. Léveillé & Vaniot.

Vines woody. Stems 3–5 m; branches longitudinally 5-grooved, puberulous, glabrescent. Leaves pinnate, 5-foliolate; petiole 1–7 cm, sparsely puberulous to subglabrous; leaflet blades ovate, narrowly ovate, or lanceolate, 2.4–10.5 × 1.2–5.5 cm, papery to subleathery, both surfaces glabrous or only sparsely

puberulous on midveins, base rounded to subcordate, margin entire or rarely 1-denticulate, apex attenuate to acuminate; basal veins abaxially prominent. Cymes axillary or terminal, 9–100-flowered; peduncle 1.2–7 cm; bracts simple or foliaceous, triangular to ovate, 4–10 mm. Flowers 7–10 mm in diam. Pedicel 6–12 mm, puberulous. Sepals 4, white, spreading, narrowly obovate to obovate-oblong, 5–6 × 1.8–2 mm, abaxially usually densely puberulous, adaxially sparsely puberulous, margin abaxially velutinous, apex obtuse to truncate. Stamens 3–4.5 mm, glabrous; anthers narrowly oblong, 1.1–1.5 mm, apex obtuse. Ovaries pubescent. Style 3–3.8 mm, densely villous. Achenes lanceolate to fusiform, 3–3.5 × 1–1.5 mm, appressed puberulous; persistent style ca. 2 cm, plumose. Fl. Sep–Oct, fr. Nov–Dec.

Slopes, scrub, along streams; below 100–1800 m. Guangdong, Guangxi, Guizhou, W Hubei, W Hunan, Sichuan, C to W Yunnan [Bhutan, India, Myanmar, Nepal, New Guinea, Philippines, Sikkim].

**30. *Clematis grata*** Wallich, Pl. Asiat. Rar. 1: 93. 1830.

秀丽铁线莲 *xiu li tie xian lian*

Vines woody. Branches shallowly 4- or 5-grooved, densely puberulous. Leaves usually pinnate, rarely ternate; petiole 2.2–6.5 cm, densely to sparsely puberulous; leaflet blades triangular-ovate, ovate, or narrowly ovate, 2–5.8 × 1.5–4.6 cm, papery, 3-lobed, undivided, or occasionally unequally 2-parted, abaxially usually densely sericeous-puberulous, adaxially appressed puberulous, base subcordate to rounded, margin sparsely incised, apex acuminate to narrowly acuminate; basal veins abaxially ± prominent. Cymes axillary or terminal, usually many flowered; peduncle 2.8–6.5 cm, densely puberulous; bracts foliaceous or simple, ovate. Flowers 1.1–2 cm in diam. Pedicel 0.6–1.5 cm, densely puberulous. Sepals 4, white, spreading, obovate-oblong, oblong, or narrowly obovate, 6–10 × 2–4 mm, abaxially densely appressed sericeous-puberulous, adaxially glabrous, apex obtuse to subtruncate. Stamens 4–7.8 mm, glabrous; anthers narrowly oblong, 1.2–1.8 mm, apex minutely apiculate to obtuse. Ovaries pubescent. Style 4–5 mm, densely villous. Achenes elliptic, 2–3 × 1.3–1.8 mm, appressed puberulous; persistent style 1.2–2.6 cm, plumose. Fl. Jul–Aug, fr. Sep.

Forest margins on slopes; ca. 2400 m. S Xizang (Gyirong Xian) [Afghanistan, Bhutan, N India, Nepal, N Pakistan].

**31. *Clematis javana*** de Candolle, Syst. Nat. 1: 152. 1817.

台湾铁线莲 *tai wan tie xian lian*

*Clematis grata* Wallich var. *lobulata* Rehder & E. H. Wilson; *C. grata* var. *ryukiensis* Tamura; *C. taiwaniana* Hayata.

Vines woody. Branches shallowly 5- or 6-grooved, densely puberulous. Leaves pinnate, 1- or 2-ternate; petiole 4.2–9.7 cm; leaflet blades ovate, deltoid, or elliptic, (2.3–)3.7–7.6(–13) × 2–5.6(–10) cm, papery, often 3-lobed, abaxially usually densely sericeous-puberulous to rarely sparsely puberulous, adaxially sparsely puberulous or glabrous, base cordate, obtuse,

or cuneate, margin coarsely dentate, apex acuminate to narrowly acuminate; basal veins abaxially ± prominent. Cymes axillary, usually many flowered; peduncle 3.2–6.4 cm; bracts elliptic to lanceolate, undivided or 3-lobed. Flowers 1.5–2.5 cm in diam. Pedicel 1.6–2 cm, densely puberulous. Sepals 4, white, spreading, obovate-oblong to obovate-lanceolate, 9–15 × 3–5 mm, abaxially densely puberulous, adaxially puberulous, apex acute. Stamens 4–8 mm, glabrous; anthers oblong, 1.2–2 mm, apex obtuse. Ovaries puberulous. Style 5–7 mm, densely villous. Achenes narrowly elliptic to fusiform, 2.5–3 × 1.2–1.5 mm, puberulous; persistent style 1.6–3 cm, yellowish plumose. Fl. Apr–Sep, fr. Aug–Sep.

Forest margins, along streams, open areas; sea level to 2500 m. Taiwan [Indonesia, Japan (Ryukyu Islands), Papua New Guinea, Philippines].

**32. *Clematis subumbellata*** Kurz, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 39: 61. 1870.

细木通 *xi mu tong*

*Clematis kerriana* J. R. Drummond & Craib; *C. laxipaniculata* C. Pei.

Vines woody. Branches longitudinally 5- or 6-grooved, densely puberulous. Leaves 2-pinnate or pinnate, 5–21-foliolate; petiole 2–6.5 cm, densely puberulous; leaflet blades narrowly ovate, narrowly elliptic, ovate, or oblong, 1.8–8.5 × 1–4.2 cm, papery to subleathery, unequally 2-lobed, abaxially densely appressed puberulous, adaxially sparsely puberulous, base rounded to obtuse, margin entire or rarely 1-dentate, apex acute to acuminate; basal veins abaxially ± prominent. Cymes axillary or terminal, 8- to many flowered; peduncle 2.5–6.5 cm, sometimes nearly absent; bracts short petiolate or sessile, ovate to linear, 3–14 mm. Flowers 1–1.2 cm in diam. Pedicel 0.8–1.8 cm, densely puberulous. Sepals 4, white, spreading, oblong to obovate-oblong, 5–8 × 1.8–3 mm, abaxially velutinous, adaxially densely appressed puberulous, apex obtuse. Stamens 3.8–6 mm, glabrous; anthers narrowly oblong to oblong, 1.5–2.2 mm, apex obtuse. Ovaries pubescent. Style ca. 5 mm, densely villous. Achenes narrowly lanceolate to fusiform, 4–4.5 × 1–1.2 mm, pubescent; persistent style 2.5–4 cm, plumose. Fl. Dec–Jan, fr. Feb–Apr.

Forest margins, slopes, scrub; 400–1900 m. S to SW Yunnan [Laos, N Myanmar, N Thailand, N Vietnam].

**33. *Clematis brevicaudata*** de Candolle, Syst. Nat. 1: 138. 1817.

短尾铁线莲 *duan wei tie xian lian*

Vines woody. Branches shallowly longitudinally 5-grooved, puberulous to subglabrous. Leaves usually 2-ternate, sometimes 2-pinnate or pinnate, rarely ternate, (3–)9(–11)-foliolate; petiole 1.7–8 cm, sparsely to densely puberulous or subglabrous; leaflet blades ovate to lanceolate, undivided or 3-lobed, (1–)1.5–6 × 0.7–3.5 cm, thinly papery, both surfaces subglabrous or

sparsely appressed puberulous, or abaxially densely sericeous-puberulous and adaxially sparsely puberulous, base rounded, broadly cuneate, or subcordate, margin 1–3(–6)-dentate on each side, apex acuminate, narrowly acuminate, or rarely acute; basal veins ± prominent. Cymes axillary or terminal, usually shorter than leaves, 4–25-flowered; peduncle 2–5 cm; bracts ovate to linear, 4–12 mm, undivided or 3-parted. Flowers (1–)1.5–2 cm in diam. Pedicel (0.5–)0.9–1.3 cm, puberulous. Sepals 4, white, spreading, obovate-oblong to oblong, (6–)9–11 × (2–)3–4 mm, abaxially appressed puberulous, adaxially sparsely appressed puberulous, margin abaxially velutinous, apex obtuse. Stamens 6–10 mm, glabrous; anthers narrowly oblong, 1–2 mm, apex obtuse. Ovaries pubescent. Style ca. 5 mm, densely villous. Achenes elliptic to elliptic-ovate, ca. 3 × 2 mm, densely appressed puberulous; persistent style 1.2–2 cm, plumose. Fl. Jul–Sep, fr. Sep–Oct.

Sparse forests, scrub; 400–2800 m. C and S Gansu, N and W Hebei, Heilongjiang, W Henan, Hubei, Hunan, N Jiangsu, E Jilin, Liaoning, Nei Mongol, Ningxia, E Qinghai, Shaanxi, Shanxi, NC and W Sichuan, E Xizang, NW Yunnan [Korea, Mongolia, Russia (Far East)].

- 1a. Leaflet blades on both surfaces  
subglabrous or sparsely  
appressed puberulous ..... 33a. var. *brevicaudata*
- 1b. Leaflet blades abaxially densely  
sericeous-puberulous, adaxially  
sparsely puberulous ..... 33b. var. *malacotricha*

**33a. *Clematis brevicaudata* var. *brevicaudata***

短尾铁线莲(原变种) duan wei tie xian lian (yuan bian zhong)

*Clematis vitalba* Linnaeus subsp. *brevicaudata* (de Candolle) Kuntze.

Leaflet blades on both surfaces subglabrous or sparsely appressed puberulous.

Sparse forests, scrub; 400–2800 m. C and S Gansu, N and W Hebei, Heilongjiang, W Henan, Hubei, Hunan, N Jiangsu, E Jilin, Liaoning, Nei Mongol, Ningxia, E Qinghai, Shaanxi, Shanxi, W Sichuan, E Xizang, NW Yunnan (Dêqên Xian) [Korea, Mongolia, Russia (Far East)].

**33b. *Clematis brevicaudata* var. *malacotricha* W. T. Wang, Acta Phytotax. Sin. 39: 313. 2001.**

密毛短尾铁线莲 mi mao duan wei tie xian lian

Leaflet blades abaxially densely sericeous-puberulous, adaxially sparsely puberulous.

- Scrambling on small trees; ca. 2800 m. NC Sichuan (Zoigê Xian).

**34. *Clematis wissmanniana* Handel-Mazzetti, Acta Horti Gothob. 13: 212. 1939–1940.**

厚萼铁线莲 hou e tie xian lian

*Clematis gratopsis* W. T. Wang var. *integriloba* W. T. Wang.

Vines woody. Branches longitudinally grooved, densely puberulous. Leaves 2-pinnate or pinnate; petiole 5–8 cm, densely puberulous; leaflet blades long ovate to ovate-lanceolate, 2–8 × 1–3 cm, papery, unlobed or rarely unequally to 3-lobed, both surfaces densely appressed puberulous, base rounded, margin usually entire or sometimes 2-dentate, apex acute to acuminate. Cymes axillary or terminal, 9–20-flowered; peduncle 5–10 cm, densely appressed puberulous; bracts narrowly ovate, ovate, or elliptic, undivided or 3-lobed. Flowers 2–3.2 cm in diam. Pedicel 1.2–6 cm, densely appressed puberulous. Sepals 4, white, spreading, oblong to elliptic-oblong, 1–2 × 0.4–1 cm, thick, abaxially densely puberulous, adaxially glabrous, apex ± obtuse. Stamens 0.7–1.4 cm, glabrous; anthers oblong, 1.5–2 mm, apex obtuse. Ovaries puberulous. Style ca. 5 mm, densely villous. Fl. Sep–Oct, fr. Nov.

Sparse woods, scrub; 1200–1800 m. S Yunnan [Thailand].

**35. *Clematis parviloba* Gardner & Champion, Hooker's J. Bot. Kew Gard. Misc. 1: 241. 1849.**

裂叶铁线莲 lie ye tie xian lian

Vines woody, often turning black on drying. Branches shallowly 6-grooved, puberulous or pubescent. Leaves 2-pinnate or 2-ternate, rarely 1-pinnate; petiole 3–8.5 cm; leaflet blades ovate, narrowly so, or lanceolate, 1.5–7(–8.5) × 0.7–4 (–5.5) cm, papery, abaxially usually densely appressed puberulous, adaxially puberulous or subglabrous, base rounded or broadly cuneate, margin entire or 1-dentate or sparsely serrate on each side, apex attenuate, acute, or acuminate; basal veins nearly flat. Cymes both axillary and terminal, (1–)5–9(to many)-flowered; peduncle 2.8–10 cm; bracts narrowly ovate, undivided or 3-lobed. Flowers 1.5–4.6 cm in diam.; pedicel 1.2–3 cm, densely puberulous; bracteoles ovate or elliptic. Sepals 4, white, spreading, lanceolate, oblong, or obovate-oblong, 1–2.4 × 0.4–1.2 cm, abaxially appressed sericeous-puberulous, adaxially glabrous, margin velutinous, apex subacute. Stamens 5–17 mm, glabrous; anthers oblong or narrowly so, rarely linear, 1–3 mm, apex obtuse. Ovaries pubescent; style 6–9 mm, densely villous. Achenes compressed, ovate or narrowly elliptic, 3–5 × 2–2.8 mm, pubescent, indistinctly or not marginate; persistent style 2–3.2 cm, plumose. Fl. Apr–Oct.

• Forest margins, slopes, scrub, along streams; 800–2500 m. Fujian, Guangdong, Guangxi, Guizhou, S Jiangxi, Sichuan, Taiwan, Yunnan, S Zhejiang.

- 1a. Anthers narrowly oblong or linear, 2.2–3 mm; leaves 1- or 2-pinnate.
- 2a. Leaves 2-pinnate; axillary cymes 3-flowered; sepals ovate-oblong,

- ca. 1.8 × 0.7 cm, apex obtuse; anthers narrowly oblong, 2.2–2.5 mm, apex obtuse ..... 35d. var. *suboblonga*
- 2b. Leaves 1-pinnate; axillary cymes 1-flowered; sepals narrowly lanceolate-oblong, 2–2.4 × 0.5–0.7 cm, apex obtuse; anthers linear, 2.8–3 mm, apex obtuse or minutely apiculate ..... 35e. var. *longianthera*
- 1b. Anthers oblong or narrowly so, 1–1.8 mm; leaves 2-ternate or 2-pinnate.
- 3a. Leaflet blade margin dentate, rarely entire; sepals elliptic-oblong or narrowly oblong, 1.3–1.6(–2.5) × 0.5–0.65(–1.2) cm, apex acute; anther apex obtuse or minutely apiculate ..... 35c. var. *bartlettii*
- 3b. Leaflet blade margin entire; sepals lanceolate, oblong-lanceolate, or obovate-oblong, 1–2 × 0.35–0.8 cm, apex obtuse or attenuate; anther apex obtuse.
- 4a. Sepals lanceolate or oblong-lanceolate, 1.6–2 × 0.35–0.8 cm, apex attenuate; anthers 1.2–1.8 mm; achenes narrowly ovate or narrowly elliptic, ca. 5 × 2.2–2.8 mm, slightly marginate ..... 35a. var. *parviloba*
- 4b. Sepals obovate-oblong, 1–1.1 × 0.4–0.5 cm, apex obtuse; anthers 1–1.2 mm; achenes rhombic-elliptic, ca. 4 × 2.6 mm, not marginate ..... 35b. var. *rhombicoelliptica*

**35a. *Clematis parviloba* var. *parviloba***

裂叶铁线莲(原变种) *lie ye tie xian lian* (*yuan bian zhong*)

Leaves 2-pinnate; leaflet blade margin entire. Axillary cymes (1–)3–5(–9)-flowered. Sepals lanceolate or oblong-lanceolate, 1.6–2 × 0.35–0.8 cm, apex attenuate. Anthers oblong or narrowly so, 1.2–1.8 mm long, apex obtuse. Achenes narrowly ovate or narrowly elliptic, ca. 5 × 2.2–2.8 mm, slightly marginate. Fl. Jun–Sep.

• Forests, scrub, often by streams; 800–1500 m. Fujian, Guangdong, Guangxi, Guizhou, W Hunan, S Jiangxi, S Yunnan, S Zhejiang.

**35b. *Clematis parviloba* var. *rhombicoelliptica*** W. T. Wang, *Acta Phytotax. Sin.* 38: 405. 2000.

菱果裂叶铁线莲 *ling guo lie ye tie xian lian*

Leaves 2-pinnate; leaflet blade margin entire. Axillary cymes many flowered. Sepals obovate-oblong, 1–1.1 × 0.4–0.5 cm, apex obtuse. Anthers 1–1.2 mm, apex obtuse. Achenes rhombic-elliptic, ca. 4 × 2.6 mm, not marginate. Fl. Oct.

• Forest, forest margins, scrub, slopes; 1100–1800 m. SE Yunnan.

**35c. *Clematis parviloba* var. *bartlettii*** (Yamamoto) W. T. Wang, *Acta Phytotax. Sin.* 38: 405. 2000.

巴氏铁线莲 *ba shi tie xian lian*

*Clematis bartlettii* Yamamoto, *Trans. Nat. Hist. Soc. Taiwan* 20: 101. 1930; *C. parviloba* subsp. *bartlettii* (Yamamoto) T. Y. Yang & T. C. Huang.

Leaves 2-ternate or 2-pinnate; leaflet blade margin dentate, rarely entire. Axillary cymes many flowered. Sepals elliptic-oblong or narrowly oblong, 1.3–1.6(–2.5) × 0.5–0.65(–1.2) cm, apex acute. Anthers oblong, 1–1.6 mm, apex obtuse or minutely apiculate. Fl. Aug–Oct.

• Forest margins, slopes; 1100–2500 m. Taiwan.

**35d. *Clematis parviloba* var. *suboblonga*** W. T. Wang, *Acta Phytotax. Sin.* 38: 405. 2000.

长圆裂叶铁线莲 *chang yuan lie ye tie xian lian*

Leaves 2-ternate; leaflet blade margin entire. Axillary cymes 3-flowered. Sepals ovate-oblong, ca. 1.8 × 0.7 cm, apex obtuse. Anthers narrowly oblong, 2.2–2.5 mm, apex obtuse. Fl. Apr.

• Forests; 900–1000 m. SE Sichuan (Nanchuan Xian).

**35e. *Clematis parviloba* var. *longianthera*** W. T. Wang, *Acta Phytotax. Sin.* 36: 156. 1998.

长药裂叶铁线莲 *chang yao lie ye tie xian lian*

Leaves 1-pinnate; leaflet blade margin entire. Axillary cymes 1-flowered. Sepals lanceolate-oblong, 2–2.4 × 0.5–0.7 cm, apex obtuse. Anthers linear, 2.8–3 mm, apex obtuse or minutely apiculate. Fl. Apr.

• Open forests; ca. 800 m. C Sichuan (Emei Shan).

**36. *Clematis tamurae*** T. Y. Yang & T. C. Huang, *Taiwania* 40: 239. 1995.

田村铁线莲 *tian cun tie xian lian*

Vines perennial, herbaceous, turning black on drying. Branches shallowly grooved, puberulous. Leaves 2-pinnate, 15-foliolate; petiole 4.4–5.8 cm; leaflet blades lanceolate to narrowly ovate, (3.7–)4.6–5.9(–6.2) × (0.8–)1.2–1.8 cm, papery, undivided or rarely 2- or 3-lobed, both surfaces sparsely puberulous to sometimes adaxially subglabrous, base broadly cuneate to cuneate, margin entire, apex attenuate to acuminate; basal veins abaxially ± prominent. Cymes axillary or terminal, few flowered; peduncle 2.5–5 cm; bracts ternate or simple, narrowly ovate, 3-parted. Flowers 1.3–2.5 cm in diam.

Pedicel 0.7–1.3 cm, puberulous. Sepals 4, white, spreading, oblong, 10–15 × 4–6 mm, abaxially densely puberulous, adaxially puberulous, apex acute to obtuse. Stamens 4–8 mm, glabrous; anthers oblong, ca. 2.4 mm, apex obtuse. Ovaries pubescent. Style ca. 7 mm, densely villous. Achenes elliptic to ovate, 2.8–4.2 × ca. 2 mm, pubescent; persistent style 2.5–4 cm, brown to yellowish brown plumose. Fl. Aug–Oct, fr. Aug–Oct.

• Forest margins, open areas; below 1500 m. Taiwan.

**37. *Clematis puberula*** J. D. Hooker & Thomson in J. D. Hooker, *Fl. Brit. India* 1: 4. 1872.

短毛铁线莲 *duan mao tie xian lian*

Vines woody, often turning black on drying. Branches shallowly 4–10-grooved, puberulous. Leaves 2-pinnate or 2-ternate, distal ones sometimes 1-pinnate; petiole 1–

7.5 cm; leaflet blades ovate, narrowly so, or lanceolate, undivided or 3-lobed, 1.5–9.8 × 0.6–5 cm, papery, both surfaces sparsely puberulous or subglabrous, or abaxially densely sericeous, base rounded, subcordate, or broadly cuneate, margin irregularly dentate or entire, apex attenuate or acuminate; basal veins slightly prominent or nearly flat. Cymes both axillary and terminal, (3–) 9- to many flowered; peduncle 2–10 cm, puberulous or glabrous; bracts simple and ovate or linear, or ternate. Flowers 1.4–2.4(–3.6) cm in diam.; pedicel 1–7 cm, puberulous or glabrous. Sepals 4, white, spreading, obovate-oblong to narrowly oblong, 7–12(–16) × 3–5.8(–6) mm, abaxially appressed puberulous or subglabrous, adaxially glabrous, margin velutinous, apex subtruncate, obtuse, or acute. Stamens 5–9(–11) mm, glabrous; anthers oblong or narrowly so, 0.8–2 mm, apex obtuse. Ovaries puberulous or glabrous; style 3.5–5(–7) mm, densely villous. Achenes strongly compressed, orbicular-ovate or suborbicular, 3.5–5 × 2–3.2 mm, puberulous or glabrous, with distinct, winglike margin; persistent style 2–3.5 cm, plumose. Fl. Jul–Oct. Forests, scrub, grassy slopes, by streams; 200–3300 m. S Anhui, N Fujian, S Gansu, W Guangdong, N Guangxi, Guizhou, S and W Henan, Hubei, Hunan, NE Jiangsu, Jiangxi, S Shaanxi, Shandong, S Shanxi, Sichuan, E to SE Xizang, Yunnan, N Zhejiang [Bhutan, N India, N Myanmar, Nepal].

1a. Ovaries and achenes puberulous.

2a. Leaflet blades abaxially densely or sparsely puberulous; sepals abaxially densely puberulous 37a. var. *puberula*

2b. Leaflet blades and sepals abaxially sparsely puberulous or subglabrous ..... 37b. var. *tenuisepala*

1b. Ovaries and achenes glabrous.

3a. Leaflet blades abaxially densely sericeous-puberulous ..... 37c. var. *subsericea*

3b. Leaflet blades abaxially sparsely puberulous or subglabrous 37d. var. *ganpiniana*

### 37a. *Clematis puberula* var. *puberula*

短毛铁线莲(原变种) duan mao tie xian lian (yuan bian zhong)

*Clematis parviloba* Gardner & Champion subsp. *puberula* (J. D. Hooker & Thomson) Kuntze.

Leaflet blades abaxially densely or sparsely puberulous. Sepals abaxially densely puberulous. Ovaries and achenes puberulous. Fl. Aug–Oct.

Forests, scrub, grassy slopes; 1000–3000 m. W Sichuan, SE Xizang, N Yunnan [Bhutan, N India, N Myanmar, Nepal].

37b. *Clematis puberula* var. *tenuisepala* (Maximowicz) W. T. Wang, Acta Phytotax. Sin. 38: 406. 2000.

毛果扬子铁线莲 mao guo yang zi tie xian lian  
*Clematis brevicaudata* de Candolle var. *tenuisepala* Maximowicz, Trudy Imp. S.-Peterburgsk. Bot. Sada 11: 9. 1890; *C. brevicaudata* var. *filipes* Rehder & E. H.

Wilson; *C. ganpiniana* var. *tenuisepala* (Maximowicz) C. T. Ting.

Leaflet blades and sepals abaxially sparsely puberulous or subglabrous. Ovaries and achenes puberulous.

• Forests, grassy slopes, by streams; 200–1000 m. S Gansu, N Guangxi, S and W Henan, W Hubei, NE Jiangsu, S Shaanxi, Shandong, S Shanxi, SE Sichuan, NE Yunnan, N Zhejiang.

37c. *Clematis puberula* var. *subsericea* (Rehder & E. H. Wilson) W. T. Wang, Acta Phytotax. Sin. 38: 407. 2000.

毛叶扬子铁线莲 mao ye yang zi tie xian lian

*Clematis brevicaudata* var. *subsericea* Rehder & E. H. Wilson in Sargent, Pl. Wilson. 1: 341. 1913; *C. ganpiniana* var. *subsericea* (Rehder & E. H. Wilson) C. T. Ting.

Leaflet blades abaxially densely sericeous-puberulous.

Sepals abaxially densely puberulous. Ovaries glabrous.

• Scrub, grassy slopes; 300–2500 m. W Sichuan.

37d. *Clematis puberula* var. *ganpiniana* (H. Léveillé & Vaniot) W. T. Wang, Acta Phytotax. Sin. 38: 407. 2000.

扬子铁线莲 yang zi tie xian lian

*Clematis vitalba* Linnaeus var. *ganpiniana* H. Léveillé & Vaniot, Bull. Acad. Int. Géogr. Bot. 11: 167. 1902; *C. brevicaudata* var. *ganpiniana* (H. Léveillé & Vaniot) Handel-Mazzetti; *C. brevicaudata* var. *leiophylla* Handel-Mazzetti; *C. brevicaudata* var. *lissocarpa* Rehder & E. H. Wilson; *C. ganpiniana* (H. Léveillé & Vaniot) Tamura; *C. parviloba* var. *ganpiniana* (H. Léveillé & Vaniot) Rehder; *C. parviloba* var. *glabrescens* Finet & Gagnepain.

Leaflet blades abaxially sparsely puberulous or subglabrous. Sepals abaxially sparsely puberulous to subglabrous. Ovaries and achenes glabrous.

• Forests, scrub, slopes; 400–3300 m. S Anhui, N Fujian, W Guangdong, N Guangxi, Guizhou, S Henan, Hubei, Hunan, Jiangxi, S Shaanxi, Sichuan, E Xizang, C and N Yunnan, N Zhejiang.

38. *Clematis baominiana* W. T. Wang, Acta Phytotax. Sin. 36: 157. 1998.

多毛铁线莲 duo mao tie xian lian

*Clematis villosa* B. M. Yang, Acta Phytotax. Sin. 27: 230. 1989, not de Candolle (1817).

Vines woody. Stems to 10 m, pubescent. Leaves ternate; petiole 4–6 cm, pubescent; leaflet blades rhombic to obovate-elliptic, 3–7 × 1–4 cm, papery, unlobed or sometimes indistinctly 3-lobed, both surfaces pubescent, base broadly cuneate, margin 1- or 2-dentate apically from middle, apex acute. Cymes axillary, 1-flowered; peduncle 3–4 cm, pubescent; bracts linear, ca. 7 mm, pubescent. Flowers ca. 6 cm in diam. Pedicel 1–1.5 cm, densely pubescent. Sepals 6, white, spreading, linear-lanceolate, ca. 3 × 0.3 cm, abaxially densely villous, adaxially glabrous, apex acute. Stamens ca. 1.4 cm, glabrous; anthers oblong, ca. 3 mm, apex obtuse. Ovaries pubescent. Style ca. 1.3 cm, densely villous basally, densely pubescent apically. Achenes ovate, ca.

5 × 3.5 mm, pubescent; persistent style 2.5–3 cm, plumose. Fl. May, fr. Sep–Oct.

• Slopes. Hunan (Taojiang Xian).

**39. *Clematis crassifolia*** Bentham, Fl. Hongk. 7. 1861.

厚叶铁线莲 *hou ye tie xian lian*

Vines woody. Branches shallowly 10–12-grooved, glabrous. Leaves ternate, glabrous; petiole 5.5–10 cm; leaflet blades elliptic, oblong, ovate, or broadly ovate, 5–12 × 2.5–6.5(–9.5) cm, subleathery, base broadly cuneate to rounded, margin entire, apex acuminate to obtuse; basal veins flat or adaxially ± prominent. Cymes axillary or terminal, many flowered; peduncle 3–5 cm, glabrous; bracts linear to subulate, 5–6 mm, glabrous or puberulous. Flowers 2.4–4 cm in diam. Pedicel 1–2.8 cm, glabrous. Sepals 4, white or tinged ± pink, spreading, linear-lanceolate to narrowly oblanceolate, 1.2–2.2 × 0.2–0.4 cm, abaxially subglabrous to puberulous, adaxially sparsely appressed puberulous, margin abaxially velutinous, apex attenuate. Stamens 5–12 mm, glabrous; filaments rugose; anthers oblong, 1.2–2.2 mm, apex obtuse. Ovaries pubescent. Style 8–11 mm, densely villous. Achenes ovate to elliptic, 4–6 × ca. 3 mm, pubescent; persistent style 2.4–4 cm, plumose. Fl. Dec–Jan, fr. Feb. Forests, slopes, along streams; 300–2300 m. Fujian, Guangdong, Guangxi, Hainan, S Hunan, Taiwan [S Japan].

**40. *Clematis xinhuiensis*** R. J. Wang, J. Trop. Subtrop. Bot. 7: 26. 1999.

新惠铁线莲 *xin hui tie xian lian*

Vines woody. Branches terete, shallowly grooved, sparsely puberulous, glabrescent. Leaves simple; petiole 1.5–2 cm; leaf blade broadly lanceolate to ovate, 9–12.5 & 4.5–5.5 cm, leathery, both surfaces glabrous, base subtruncate, margin entire, apex acute or acuminate; basal veins 3–5, abaxially prominent. Cymes terminal, paniclelike, many flowered; peduncle 10–18 cm; bracts leaflike. Flowers ca. 1 cm in diam.; pedicel ca. 1 cm. Sepals 4, white, oblong, 7–8 × 2–3 mm, abaxially glabrous, adaxially glabrous, margin velutinous, apex rounded or obtuse. Stamens ca. 7 mm; anthers linear, ca. 4 mm, apex obtuse. Ovaries densely puberulous; style ca. 6 mm, densely villous. Fl. Sep.

• S Guangdong (Xinhui Xian), Hong Kong.

**41. *Clematis napoensis*** W. T. Wang in W. T. Wang et al., Acta Phytotax. Sin. 37: 217. 1999.

那坡铁线莲 *na po tie xian lian*

Vines woody. Branches shallowly 12-grooved, glabrous, densely minutely white furfuraceous at nodes. Leaves ternate, glabrous; petiole ca. 8 cm, base and apex white furfuraceous; leaflet blades ovate or narrowly so, 10.5–14.5 × 4.8–8 cm, leathery, both surfaces finely reticulate, base subcordate or truncate-rounded, margin entire, apex subacute or acuminate; basal veins distinctly prominent. Cymes axillary, paniclelike, many flowered, glabrous; peduncle ca. 8 cm, base and apex white furfuraceous; bracts narrowly triangular, ca. 4

mm. Flowers 1.5–2 cm in diam.; pedicel 0.8–1.8 cm, glabrous. Sepals 4, white, oblanceolate or narrowly oblong, rarely narrowly obovate, 8–12 × 2.5–3.5(–4.2) mm, both surfaces glabrous, margin velutinous abaxially, apex subobtuse, rarely truncate. Stamens 4.8–6 mm, glabrous; anthers linear, 2.5–3 mm, apex obtuse. Ovaries pubescent; style ca. 5 mm, densely villous. Fl. Apr.

• Scrub on limestone hills; ca. 800 m. SW Guangxi (Napo Xian).

**42. *Clematis jialasaensis*** W. T. Wang, Acta Bot. Yunnan. 8: 268. 1986.

加拉萨铁线莲 *jia la sa tie xian lian*

Vines woody. Branches shallowly 10-grooved, sparsely puberulous only on nodes. Leaves ternate; petiole 6.5–7.4 cm, sparsely puberulous; leaflet blades narrowly ovate to ovate, 6–9.5 × 2.7–4.5 cm, papery, both surfaces glabrous and reticulate, base subcordate to cordate-rounded, margin entire, apex acute to acuminate; basal veins prominent on both surfaces. Cymes axillary or terminal, many flowered, paniclelike; peduncle 3.5–7.5 cm, sparsely puberulous; bracts narrowly triangular to subulate, 3.5–5.5 mm. Flowers 1.6–3.7 cm in diam. Pedicel 1.5–2.5 cm, glabrous. Sepals 4, white, spreading, spatulate-linear to narrowly oblong, 0.8–2 cm × 2.2–6 mm, abaxially glabrous, adaxially glabrous, margin abaxially velutinous, apex acute. Stamens 6–7.5 mm, glabrous; anthers linear, 3.2–4.2 mm, apex obtuse. Ovaries pubescent. Style ca. 6 mm, densely villous. Fl. Apr.

• Evergreen broad-leaved forest margins in valleys; ca. 2100 m. SE Xizang, N Yunnan.

1a. Flowers 1.6–2.5 cm in diam.; sepals 0.8–1.3 cm × 2.2–4 mm ..... 42a. var. *jialasaensis*

1b. Flowers 2.5–3.7 cm in diam.; sepals 1.4–2 cm × 4–6 mm ..... 42b. var. *macrantha*

**42a. *Clematis jialasaensis*** var. *jialasaensis*

加拉萨铁线莲(原变种) *jia la sa tie xian lian* (yuan bian zhong)

Flowers 1.6–2.5 cm in diam. Sepals 0.8–1.3 cm × 2.2–4 mm.

• Evergreen broad-leaved forest margins in valleys; ca. 2100 m. SE Xizang (Médog Xian).

**42b. *Clematis jialasaensis*** var. *macrantha* W. T. Wang, Acta Phytotax. Sin. 39: 4. 2001.

滇北铁线莲 *dian bei tie xian lian*

Flowers 2.5–3.7 cm in diam. Sepals 1.4–2 cm × 4–6 mm.

• N Yunnan.

**43. *Clematis sinii*** W. T. Wang, Acta Phytotax. Sin. 39: 314. 2001.

辛氏铁线莲 *xin shi tie xian lian*

Vines woody. Branches subterete, shallowly 8-grooved, sparsely pilose or subglabrous. Leaves ternate; petiole

5.5–6.8 cm; leaflet blades narrowly ovate or broadly lanceolate, 7–8.8 × 2.5–3.4 cm, thinly papery, both surfaces glabrous or sparsely pilose on midvein near base abaxially, base rounded, margin entire, apex attenuate or long acuminate; basal veins abaxially slightly prominent. Cymes axillary, ± paniclelike, ca. 10-flowered; peduncle 4.4–4.8 cm, subglabrous; bracts triangular, ca. 3.5 mm, sparsely ciliolate. Flowers ca. 1.2 cm in diam.; pedicel slender, 1.2–2.2 cm, sparsely appressed puberulous. Sepals 4, oblong, ca. 11 × 4 mm, both surfaces glabrous, margin velutinous abaxially, apex acute. Stamens 5–8 mm, glabrous; anthers linear, 3.2–3.8 mm, apex obtuse or sometimes indistinctly minutely apiculate. Ovaries densely puberulous; style ca. 6 mm, densely villous. Fl. Jun.

• E Guangxi (Dayao Shan).

**44. *Clematis meyeniana*** Walpers, Nov. Actorum Acad. Caes. Leop.-Carol. Nat. Cur. 19(suppl. 1): 297. 1843.

毛柱铁线莲 *mao zhu tie xian lian*

Vines woody. Branches shallowly longitudinally 10-grooved. Leaves ternate; petiole 2–11 cm, sparsely puberulous, glabrescent; leaflet blades ovate, elliptic-ovate, or narrowly ovate, 7.5–12(–14) × 1.5–5(–9.5) cm, subleathery to papery, both surfaces sparsely puberulous, glabrescent, adaxially smooth or rarely finely rugose, base rounded, subcordate, or broadly cuneate, margin entire, apex acuminate to acute; basal veins abaxially prominent. Cymes axillary or terminal, usually paniclelike and many flowered, rarely 1-flowered; peduncle 2.6–7.5 cm, sparsely puberulous; bracts subulate, 3.5–6 mm. Flowers 1.6–2.5 cm in diam. Pedicel 0.6–1.6 cm, puberulous or rarely glabrous. Sepals 4, white, spreading, narrowly oblong to lanceolate, 8–13 × 2.2–4 mm, abaxially glabrous, adaxially glabrous, margin abaxially velutinous, apex ± obtuse. Stamens 5–9.5 mm, glabrous; anthers narrowly oblong to linear, 3–5.5 mm, apex minutely apiculate. Ovaries puberulous. Style 5–9 mm, densely villous. Achenes falcate-lanceolate, 5–7 × 1.8–2 mm, pubescent; persistent style 2–4 cm, yellow plumose. Fl. Jun–Aug, fr. Aug–Oct.

Forests, forest margins, scrub, slopes, along streams; near sea level to 1800 m. Fujian, Guangdong, Guangxi, S Guizhou, Hainan, Hubei, S Hunan, Jiangxi, Sichuan, Taiwan, S Yunnan, S Zhejiang [Japan (including Ryukyu Islands), Laos, Myanmar, Philippines, Vietnam].

- 1a. Leaflet blades adaxially finely rugose ..... 44d. var. *granulata*  
 1b. Leaflet blades adaxially smooth.  
   2a. Pedicel glabrous ..... 44c. var. *insularis*  
   2b. Pedicel puberulous.  
     3a. Axillary cymes paniclelike, usually many flowered 44a. var. *meyeniana*  
     3b. Axillary cymes 1-flowered 44b. var. *uniflora*

**44a. *Clematis meyeniana*** var. *meyeniana*

毛柱铁线莲(原变种) *mao zhu tie xian lian (yuan bian zhong)*

*Clematis meyeniana* f. *major* Sprague; *C. meyeniana* f. *retusa* Sprague; *C. oreophila* Hance ex Walpers.

Leaflet blades adaxially smooth. Axillary cymes paniclelike, usually many flowered. Pedicel puberulous.

Sparse forests, scrub, along streams; 300–1800 m. Fujian, Guangdong, Guangxi, S Guizhou, Hainan, Hubei, S Hunan, Jiangxi, Sichuan, Taiwan, S Yunnan, S Zhejiang [Japan, Laos, Myanmar, Philippines, Vietnam].

**44b. *Clematis meyeniana*** var. *uniflora* W. T. Wang, Acta Phytotax. Sin. 36: 158. 1998.

单花毛柱铁线莲 *dan hua mao zhu tie xian lian*

Leaflet blades adaxially smooth. Axillary cymes 1-flowered. Pedicel puberulous.

• Forests; 1300–1500 m. Fujian (Longxi Shan, Jiangle Xian).

**44c. *Clematis meyeniana*** var. *insularis* Sprague, Bull. Misc. Inform. Kew 1916: 46. 1916.

光梗毛柱铁线莲 *guang geng mao zhu tie xian lian*  
 Leaflets adaxially smooth. Axillary cymes paniclelike, many flowered. Pedicel glabrous.

Forest margins, slopes; 200–1200 m. Taiwan [S Japan (Ryukyu Islands), Philippines (Luzon)].

**44d. *Clematis meyeniana*** var. *granulata* Finet & Gagnepain, Bull. Soc. Bot. France 50: 531. 1903.

沙叶铁线莲 *sha ye tie xian lian*

*Clematis granulata* (Finet & Gagnepain) Ohwi.  
 Leaflet blades adaxially finely rugose. Axillary cymes paniclelike, many flowered. Pedicel puberulous.

Forests, forest margins, scrub, along streams; near sea level to 1300 m. Guangdong, Guangxi, Hainan, S Yunnan [Laos, Vietnam].

**45. *Clematis chekiangensis*** C. Pei, Contr. Biol. Lab. Chin. Assoc. Advancem. Sci., Sect. Bot. 10: 105. 1936.

浙江山木通 *zhe jiang shan mu tong*

Vines woody. Branches sparsely puberulous, glabrescent. Leaves simple or ternate; petiole 3–6 cm; leaf blade or leaflet blades oblong-lanceolate to lanceolate, 4–12 × 2–5 cm, papery, both surfaces glabrous, base subcordate to rounded, margin entire, apex attenuate to acuminate; basal veins flat. Cymes terminal or axillary, ca. 10-flowered; peduncle ca. 7 cm; bracts foliaceous, petiolate, narrowly ovate. Flowers ca. 1.5 cm in diam. Pedicel 1–2.5 cm. Sepals 4, white, spreading, oblong, 8–10 × 5–6 mm, abaxially puberulous, adaxially glabrous, margin abaxially velutinous, apex rounded. Stamens ca. 4.8 mm, glabrous; anthers narrowly oblong, 3–3.2 mm, apex minutely apiculate. Ovaries pubescent. Style ca. 6 mm, densely villous. Achenes fusiform, ca. 5 × 2.5 mm, puberulous; persistent style ca. 2.5 cm, plumose. Fl. Jun.  
 • Forests. S Zhejiang (Qingyuan Xian).

**46. *Clematis finetiana*** H. Léveillé & Vaniot, Bull. Soc. Bot. France 51: 219. 1904.

山木通 *shan mu tong*

Vines woody. Branches shallowly longitudinally 6–8-grooved, puberulous near nodes, glabrescent. Leaves ternately 3-foliolate, rarely pedately 5-foliolate; petiole 2–7.8 cm, sparsely puberulous to subglabrous; leaflet blades ovate-lanceolate, narrowly ovate, or ovate, 3.5–10(–15) × 1.5–3.5(–6) cm, subleathery to leathery, both surfaces glabrous, base rounded to subcordate, margin entire, apex acute to acuminate; basal veins abaxially ± prominent. Cymes axillary or terminal, axillary ones 1–5(–7)-flowered; peduncle 1.5–9 cm; bracts triangular to subulate, 2–5 mm. Flowers 2–4 cm in diam. Pedicel 1.5–6 cm, glabrous or nearly so. Sepals 4(–6), white, spreading, narrowly oblong, obovate-oblong, or narrowly lanceolate, 10–20 × 2–5 mm, abaxially glabrous except for velutinous margin, adaxially glabrous, apex acute to ± obtuse. Stamens 7–12 mm, glabrous; anthers narrowly oblong to linear, 4–6.5 mm, apex minutely apiculate. Ovaries pubescent. Style ca. 7 mm, densely villous. Achenes falcate-fusiform, ca. 5 × 1.5 mm, pubescent; persistent style 1.5–2.5 cm, yellow-brown plumose. Fl. Apr–Jun, fr. Jul–Nov.

• Sparse forests, slopes, scrub, along streams; 100–1200 m. S Anhui, Fujian, N Guangdong, N Guangxi, Guizhou, S Henan, Hubei, Hunan, S Jiangsu, Jiangxi, Shaanxi, Sichuan, Zhejiang.

1a. Leaves ternately 3-foliolate ..... 46a. var. *finetiana*  
1b. Leaves pedately 5-foliolate ..... 46b. var. *pedata*

**46a. Clematis finetiana** var. *finetiana*

山木通(原变种) shan mu tong (yuan bian zhong)

*Clematis meyeniana* Walpers var. *pavoliniana* (Pamp.) Sprague; *C. pavoliniana* Pampanini.

Leaves ternately 3-foliolate.

• Sparse forests, scrub, along streams; 100–1200 m. S Anhui, Fujian, N Guangdong, N Guangxi, Guizhou, S Henan, Hubei, Hunan, S Jiangsu, Jiangxi, Shaanxi, Sichuan, Zhejiang.

**46b. Clematis finetiana** var. *pedata* W. T. Wang, Acta Bot. Yunnan. 8: 269. 1986.

鸟足叶铁线莲 niao zu ye tie xian lian

Leaves pedately 5-foliolate.

• Slopes; ca. 600 m. NW Hunan (Dayong Xian).

**47. Clematis shensiensis** W. T. Wang, Acta Phytotax. Sin. 6: 378. 1957.

陕西铁线莲 shan xi tie xian lian

*Clematis wutangensis* W. T. Wang.

Vines woody. Branches shallowly longitudinally 10-grooved, puberulous. Leaves pinnate, 5-foliolate; petiole 3–6 cm; leaflet blades ovate to broadly ovate, 2.5–7 × 1.5–5.5 cm, papery, abaxially densely curled puberulous, adaxially sparsely puberulous on veins to subglabrous, base subcordate, cordate, truncate, or rounded, margin entire, apex acute, acuminate, or obtuse; basal veins abaxially ± prominent. Cymes axillary or terminal, 3(–7)-flowered; peduncle 3.5–12 cm; bracts petiolate, simple, ovate to narrowly ovate, 1–4.5 cm, or foliaceous. Flowers 2.5–4.6 cm in diam. Pedicel 1–3.2 cm, densely puberulous. Sepals 4(–6),

white, spreading, obovate-oblong to narrowly oblong, 1.3–2(–2.4) × 0.4–0.7 cm, abaxially puberulous, adaxially glabrous, margin abaxially velutinous, apex obtuse to ± obtuse. Stamens 8–11 mm, glabrous; anthers narrowly oblong, 3.2–4.5 mm, apex minutely apiculate. Ovaries pubescent. Style 5–8 mm, densely yellowish villous. Achenes elliptic, 6–8 × 3.5–5 mm, pubescent; persistent style 2.5–4.5 cm, brownish yellow plumose. Fl. May–Jun, fr. Aug–Sep.

• Scrub, cliffs, along streams; 700–1300 m. Henan, W Hubei, S Shaanxi, S Shanxi.

**48. Clematis quinquefoliolata** Hutchinson, Gard. Chron., ser. 3, 41: 3. 1907.

五叶铁线莲 wu ye tie xian lian

Vines woody. Branches shallowly 10–12-grooved, sparsely puberulous, glabrescent. Leaves pinnate, (3–)5-foliolate; petiole 2.2–5.8 cm, sparsely puberulous or glabrous; leaflet blades linear-lanceolate, lanceolate, or ovate, 4–11 × 1–3.2 cm, papery to subleathery, both surfaces glabrous, base rounded to broadly cuneate, margin entire, apex attenuate, acute, or obtuse; basal veins abaxially ± prominent. Cymes axillary or terminal, 3–7-flowered; peduncle 3.8–7 cm; bracts foliaceous or simple, linear to lanceolate, 0.5–5.5 cm. Flowers 2.6–5 cm in diam. Pedicel 1.2–4 cm, puberulous or glabrous. Sepals 4 or 5, white, spreading, narrowly oblong to obovate-oblong, 1.3–2.5 × 0.3–0.7 cm, abaxially puberulous to subglabrous, adaxially glabrous, margin abaxially velutinous, apex ± obtuse. Stamens 0.7–1.5 cm, glabrous; anthers narrowly oblong to oblong, 2–3 mm, apex obtuse or minutely apiculate. Ovaries pubescent. Style 6–7 mm, densely villous. Achenes elliptic to ovate, 5–5.5 × 2.8–3.5 mm, pubescent; persistent style ca. 5 cm, plumose. Fl. Jun–Aug, fr. Jul–Oct.

• Slopes, scrub, along streams; 1000–1800 m. NE Guizhou, W Hubei, NW Hunan, Sichuan, CN Yunnan.

**49. Clematis chinensis** Osbeck, Dagb. Ostind. Resa 205, 242. 1757.

威灵仙 wei ling xian

Vines woody, turning black on drying. Branches longitudinally 8–14-grooved, glabrous or sparsely or ± densely puberulous. Leaves pinnate, usually 5-foliolate; petiole 1.8–7.5 cm; leaflet blades ovate, narrowly so, or lanceolate, sometimes lanceolate-linear or orbicular-ovate, 1.5–9.5 × 0.7–6.4 cm, papery, both surfaces subglabrous or very sparsely puberulous only on basal veins, or abaxially ± densely puberulous, base rounded, broadly cuneate, or subcordate, margin entire, apex attenuate, acuminate, or acute, rarely obtuse or rounded; basal veins abaxially ± prominent. Cymes axillary or terminal, usually paniclelike and many flowered, rarely 1(–3)-flowered; peduncle 3–8.5 cm; bracts petiolate

and elliptic to oblong or sessile, small, and linear. Flowers 1.2–2.2 cm in diam. Pedicel 1.4–3 cm, sparsely puberulous. Sepals 4, white, spreading, obovate-oblong, oblanceolate, or lanceolate, 6–20 × 1.8–4 mm, abaxially puberulous near apex, adaxially glabrous, margin abaxially velutinous, apex acute. Stamens 3–6 mm, glabrous; anthers narrowly oblong to linear, 2–3.5 mm, apex minutely apiculate or subobtusate. Ovaries pubescent. Style 3–5 mm, densely villous. Achenes elliptic, 5–7 × 3.5–4 mm, appressed puberulous; persistent style 1.8–4 cm, plumose. Fl. Jun–Sep, fr. Aug–Nov.

Scrub, slopes, along streams; 100–1500 m. Anhui, Fujian, Guangdong, Guangxi, Guizhou, Hainan, S Henan, Hubei, Hunan, S Jiangsu, Jiangxi, S Shaanxi, Sichuan, Taiwan, S Yunnan, Zhejiang [Japan (including Ryukyu Islands), Vietnam].

- 1a. Branches and leaflet blades abaxially ± densely puberulous; sepals 6–9 × 2–3 mm ..... 49c. var. *vestita*  
1b. Branches glabrous or sparsely puberulous; leaflet blades on both surfaces subglabrous or very sparsely puberulous only on basal veins; sepals 6–20 × 1.8–4 mm.  
2a. Axillary cymes usually paniclelike and many flowered; sepals 6–13 × 1.8–3(–4) mm ..... 49a. var. *chinensis*  
2b. Axillary cymes 1(–3)-flowered; sepals 10–20 × ca. 4 mm 49b. var. *anhweiensis*

**49a. *Clematis chinensis* var. *chinensis***

威灵仙(原变种) *wei ling xian* (yuan bian zhong)  
*Clematis cavaleriei* H. Léveillé & Porter; *C. chinensis* Retz (1781), not Osbeck (1757); *C. funebris* H. Léveillé & Vaniot; *C. minor* Loureiro; *C. oligocarpa* H. Léveillé & Vaniot; *C. sinensis* Loureiro (1790). Branches glabrous or sparsely puberulous. Leaflet blades 1.5–9.5 × 0.7–6.4 cm, both surfaces subglabrous or very sparsely puberulous only on basal veins. Axillary cymes usually paniclelike, many flowered. Sepals 6–13 × 1.8–3(–4) mm.

Scrub, slopes, along streams; 100–1500 m. S Anhui, Fujian, Guangdong, Guangxi, Guizhou, Hainan, S Henan, Hubei, Hunan, S Jiangsu, Jiangxi, S Shaanxi, Sichuan, Taiwan, S Yunnan, Zhejiang [Japan (Ryukyu Islands), Vietnam].

**49b. *Clematis chinensis* var. *anhweiensis*** (M. C. Chang) W. T. Wang, Acta Phytotax. Sin. 39: 317. 2001.

安徽铁线莲 *an hui tie xian lian*  
*Clematis anhweiensis* M. C. Chang in W. T. Wang, Fl. Reipubl. Popularis Sin. 28: 357. 1980.

Branches sparsely puberulous, glabrescent. Leaflet blades 4–8 × 1.5–5 cm, both surfaces subglabrous or very sparsely puberulous only on basal veins. Axillary cymes 1(–3)-flowered. Sepals 10–20 × ca. 4 mm.

• Scrub, slopes, along streams; 200–300 m. S Anhui, W Zhejiang (Jiande Xian).

**49c. *Clematis chinensis* var. *vestita*** (Rehder & E. H. Wilson) W. T. Wang, Acta Phytotax. Sin. 36: 158. 1998.

毛叶威灵仙 *mao ye wei ling xian*

*Clematis chinensis* f. *vestita* Rehder & E. H. Wilson in Sargent, Pl. Wilson. 1: 330. 1913.

Branches ± densely puberulous. Leaflet blades to 3.5(–5) × 2(–2.5) cm, abaxially ± densely puberulous. Axillary cymes usually paniclelike, many flowered. Sepals 6–9 × 2–3 mm

• Grassy slopes. Anhui, S Henan, Hubei, S Jiangsu, S Shaanxi, Zhejiang.

**50. *Clematis terniflora*** de Candolle, Syst. Nat. 1: 137. 1817.

圆锥铁线莲 *yuan zhui tie xian lian*

Vines woody. Branches shallowly 4–10-grooved, puberulous or only nodes puberulous. Leaves pinnate, 5(–7)-foliolate; petiole 2.5–4.5 cm; leaflet blades ovate to narrowly ovate, sometimes ovate-lanceolate, 2.5–8 × 1–4.2 cm, papery to subleathery, both surfaces sparsely puberulous, glabrescent, base rounded, subcordate, or broadly cuneate, margin entire, apex acute to obtuse; basal veins abaxially ± prominent to nearly flat. Cymes axillary or terminal, usually many flowered; peduncle 1–7 cm; bracts linear, elliptic, or oblong, 0.8–3.5(–5) cm. Flowers 1.4–3 cm in diam. Pedicel 0.5–3 cm, puberulous or glabrous. Sepals 4, white, spreading, obovate-oblong to oblong, 5–15 × 2–6 mm, abaxially puberulous or glabrous, adaxially glabrous, margin abaxially velutinous, apex ± acute to obtuse. Stamens 3–7(–8) mm, glabrous; anthers narrowly oblong to oblong, 2–3 mm, apex obtuse or minutely apiculate. Ovaries pubescent. Style 4–7 mm, densely villous. Achenes orange-yellow, broadly elliptic to obovate, 4–9 × 2.5–6 mm, appressed pubescent; persistent style 1.2–4 cm, plumose. Fl. Jun–Aug, fr. Aug–Nov.

Forest margins, scrub on slopes, grassy areas on hills, among rocks in coastal areas; near sea level to 800 m. S Anhui, Heilongjiang, S Henan, Hubei, Jiangsu, Jiangxi, Jilin, Liaoning, Nei Mongol, SE Shaanxi, S Taiwan, Zhejiang [Japan, Korea, Mongolia, Russia (Siberia)].

- 1a. Branches and pedicels puberulous; achenes 6–9 mm ..... 50a. var. *terniflora*  
1b. Branch nodes puberulous and pedicels glabrous or subglabrous; achenes to 6 mm.  
2a. Anther apex minutely apiculate ..... 50b. var. *mandshurica*  
2b. Anther apex obtuse ..... 50c. var. *garanbiensis*

**50a. *Clematis terniflora* var. *terniflora***

圆锥铁线莲(原变种) *yuan zhui tie xian lian* (yuan bian zhong)

*Clematis dioscoreifolia* H. Léveillé & Vaniot; *C. dioscoreifolia* var. *robusta* (Carrière) Rehder; *C. flammula* Linnaeus var. *robusta* Carrière; *C. maximowicziana*

Franchet & Savatier; *C. terniflora* var. *robusta* (Carrière) Tamura.

Branches and pedicels puberulous. Anther apex obtuse, occasionally minutely apiculate. Achenes 6–9 × 3–6 mm.

Forest margins, grassy areas on hills; below 400 m. S Anhui, S Henan, Hubei, Jiangsu, Jiangxi, SE Shaanxi, Zhejiang [Japan, Korea].

**50b. *Clematis terniflora* var. *mandshurica*** (Ruprecht) Ohwi, Acta Phytotax. Geobot. 7: 43. 1938.

辣蓼铁线莲 *la liao tie xian lian*

*Clematis mandshurica* Ruprecht, Bull. Cl. Phys.-Math. Acad. Imp. Sci. Saint-Petersbourg 15: 258. 1857; *C. liaotungensis* Kitagawa; *C. recta* Linnaeus var. *mandshurica* (Ruprecht) Maximowicz.

Branch nodes puberulous. Pedicel glabrous or subglabrous. Anther apex minutely apiculate. Achenes 4–6 × 2.5–4 mm.

Scrub on slopes; 200–800 m. Heilongjiang, Jilin, Liaoning, Nei Mongol [N Korea, Mongolia, Russia (Siberia)].

**50c. *Clematis terniflora* var. *garanbiensis*** (Hayata) M. C. Chang in W. T. Wang, Fl. Reipubl. Popularis Sin. 28: 170. 1980.

鹅銮鼻铁线莲 *e luan bi tie xian lian*

*Clematis garanbiensis* Hayata, Icon. Pl. Formos. 9: 1. 1920.

Branches only puberulous on nodes, glabrous on other parts. Pedicel glabrous. Anther apex obtuse. Achenes 5–6 × ca. 4 mm.

• Among rocks in coastal areas; near sea level. S Taiwan.

**51. *Clematis akoensis*** Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 13. 1911.

屏东铁线莲 *ping dong tie xian lian*

*Clematis dolichosepala* Hayata; *C. owatarii* Hayata.

Vines woody. Branches shallowly grooved, glabrous. Leaves pinnate, 5-foliolate, sometimes ternate, glabrous; petiole 4–7 cm; leaflet blades deltoid, cordate-ovate, ovate, or broadly elliptic, (1.6–)3.3–5.8(–7.4) × (1.2–)3–4.6(–5.4) cm, subleathery, base subcordate, truncate, or broadly cuneate, margin sparsely serrulate or rarely entire, apex acute, obtuse, or emarginate; basal veins abaxially ± prominent. Cymes axillary, (1–)5-flowered; peduncle 1–7.5 cm; bracts petiolate, ovate, elliptic, or linear. Flowers 3.5–7.5 cm in diam. Pedicel 4–6(–8) cm, glabrous. Sepals (5 or)6, obovate-oblong to oblong, 2–3.5 × 0.5–1.3 cm, abaxially densely puberulous, adaxially glabrous, apex mucronate. Stamens 0.8–1.5 cm, glabrous; anthers narrowly oblong to linear, 3.5–5 mm, apex apiculate. Ovaries pubescent. Style ca. 1 cm, densely villous. Achenes narrowly ovate to rhombic, 5–8 × ca. 3 mm, densely pubescent; persistent style to 4 cm, plumose. Fl. Nov–Feb, fr. Dec–Mar.

• Forest margins, sunny areas; near sea level to 800 m. S Taiwan.

**52. *Clematis pashanensis*** (M. C. Chang) W. T. Wang, **comb. et stat. nov.**

巴山铁线莲 *ba shan tie xian lian*

Vines woody, not or occasionally turning blackish on drying. Branches 4–6-angulate, shallowly grooved, puberulous. Leaves pinnate; petiole 2.2–4.8 cm; leaflet blades ovate, narrowly so, or lanceolate, undivided, rarely 2- or 3-lobed, 3–9 × 1–4.6 cm, subleathery or papery, both surfaces conspicuously reticulate, puberulous near base or on midvein, or subglabrous, rarely abaxially densely puberulous, base rounded or broadly cuneate, margin entire; basal veins prominent. Cymes both axillary and terminal, often paniclelike, (1–)5- to many flowered; peduncle 1–4.8 cm; bracts often petiolate, narrowly ovate or lanceolate, and 0.9–2.5 cm, or sessile, linear, and ca. 6 mm. Flowers 1.4–2.6 cm in diam.; pedicel 1.2–3 cm, puberulous. Sepals 4, white, spreading, obovate-oblong, suboblong, or oblanceolate, 7–15 × 3–5(–7) mm, abaxially sparsely appressed puberulous, adaxially glabrous, margin velutinous, apex rounded or obtuse. Stamens 4–6.5 mm, glabrous; filaments linear; anthers linear, sometimes narrowly oblong, (1.5–)2–3(–3.2) mm, apex obtuse or minutely apiculate. Ovaries densely pubescent; style 2.5–4 mm, densely villous. Achenes strongly compressed, elliptic or narrowly so, 5–7 × 3–3.2 mm, appressed puberulous, conspicuously marginate; persistent style 1.8–2.4 cm, tawny villous. Fl. Jun–Sep.

• Scrub, slopes, along streams, on rocks; 100–2000 m. S Anhui, S and W Henan, W Hubei, S Jiangsu, S Shaanxi, S Shanxi, E Sichuan.

1a. Anther apex obtuse ..... 52a. var. *pashanensis*

1b. Anther apex minutely apiculate 52b. var. *latisepala*

**52a. *Clematis pashanensis* var. *pashanensis***

巴山铁线莲(原变种) *ba shan tie xian lian* (*yuan bian zhong*)

Basionym: *Clematis kirilowii* Maximowicz var. *pashanensis* M. C. Chang in W. T. Wang, Fl. Reipubl. Popularis Sin. 28: 356. 1980.

Anther apex obtuse.

• Scrub, slopes, along streams; 100–1000 m. S Anhui, S and W Henan, W Hubei, S Jiangsu, S Shaanxi, E Sichuan.

**52b. *Clematis pashanensis* var. *latisepala*** (M. C. Chang) W. T. Wang, **comb. nov.**

尖药巴山铁线莲 *jian yao ba shan tie xian lian*

Basionym: *Clematis terniflora* de Candolle var. *latisepala* M. C. Chang in W. T. Wang, Fl. Reipubl. Popularis Sin. 28: 357. 1980; *C. kirilowii* var. *latisepala* (M. C. Chang) W. T. Wang.

Anther apex minutely apiculate.

• Scrub, slopes, along streams, on rocks; 300–2000 m. S and W Henan, W Hubei, SE Shaanxi, S Shanxi.

**53. *Clematis kirilowii*** Maximowicz, Bull. Acad. Imp. Sci. Saint-Petersbourg 22: 210. 1877.

太行铁线莲 tai hang tie xian lian

Vines woody, turning black on drying. Branches shallowly 4–8-grooved, sparsely puberulous. Leaves 1- or 2-pinnate; petiole 1.4–4.5 cm; leaflet blades ovate, narrowly so, elliptic, oblong, lanceolate, narrowly so, or linear, undivided or 2- or 3-fid, 1.4–6 × 0.2–2.8 cm, leathery, both surfaces very sparsely puberulous on veins or subglabrous and conspicuously reticulate, base rounded or cuneate, margin entire, apex obtuse, acute, attenuate, acuminate, or sometimes emarginate; basal veins prominent. Cymes both axillary and terminal, (1–)3- to many flowered; peduncle 0.9–6.7 cm; bracts sessile or petiolate, triangular, elliptic, or linear, 0.1–1.1 cm. Flowers 1.4–3 cm in diam.; pedicel 1–2.5 cm, puberulous. Sepals 4(–6), white, obovate-oblong, 0.7–1.5 × 0.35–0.7 cm, abaxially appressed puberulous, adaxially glabrous, margin velutinous, apex subtruncate. Stamens 4–6(–7) mm, glabrous; anthers narrowly oblong, 2–3 mm, apex obtuse. Ovaries puberulous; style 3–5 mm, densely villous. Achenes strongly compressed, elliptic, 4–5 × 3–3.8 mm, pubescent, conspicuously marginate; persistent style ca. 1.8 cm, plumose. Fl. Apr–Aug, fr. Aug–Oct.

• Thickets, scrub, slopes; 100–1700 m. N Anhui, W Hebei, Henan, W Hubei, N Jiangsu, S Shaanxi, Shandong, SE Shanxi.

- 1a. Leaflet blades ovate, narrowly so, elliptic, oblong, or lanceolate, 0.5–2.8 cm wide, apex obtuse, acute, acuminate, or sometimes emarginate ..... 53a. var. *kirilowii*  
1b. Leaflet blades narrowly lanceolate or linear, 0.2–1 cm wide, apex acute or attenuate ..... 53b. var. *chanetii*

**53a. *Clematis kirilowii* var. *kirilowii***

太行铁线莲(原变种) tai hang tie xian lian (yuan bian zhong)

*Clematis matsumurana* Yabe; *C. recta* Linnaeus subsp. *kirilowii* (Maximowicz) Kuntze.

Leaflet blades ovate, narrowly so, elliptic, oblong, or lanceolate, 1.5–6 × 0.5–2.8 cm wide, apex obtuse, acute, acuminate, or sometimes emarginate.

• Thickets, grassy slopes; 200–1700 m. N Anhui, W Hebei, W Henan, W Hubei, N Jiangsu, S Shaanxi, Shandong, SE Shanxi.

**53b. *Clematis kirilowii* var. *chanetii*** (H. Léveillé) Handel-Mazzetti, Acta Horti Gothob. 13: 205. 1939–1940.

狭裂太行铁线莲 xia lie tai hang tie xian lian

*Clematis chanetii* H. Léveillé, Repert. Spec. Nov. Regni Veg. 11: 495. 1913.

Leaflet blades narrowly lanceolate or linear, 1.4–6 × 0.2–1 cm wide, apex acute or attenuate.

• Scrub, slopes; 100–900 m. W Hebei, Henan, Shandong, SE Shanxi.

**54. *Clematis obscura*** Maximowicz, Trudy Imp. S.-Peterburgsk. Bot. Sada 11: 6. 1890.

秦岭铁线莲 qin ling tie xian lian

Vines woody, turning black on drying. Branches shallowly 8–10-grooved, sparsely puberulous, glabrescent. Leaves pinnate or 2-pinnate, 5–11-foliolate; petiole 1.2–5.5 cm; leaflet blades ovate, triangular-ovate, or lanceolate, 1.2–7.8 × 0.5–3 cm, papery, undivided or sometimes 3-lobed, both surfaces subglabrous to sparsely puberulous on veins, base cuneate, rounded, or subcordate, margin entire, apex acute, attenuate, or acute; basal veins abaxially ± prominent. Cymes axillary or terminal, 1–3(–5)-flowered; peduncle 1–7.6 cm, sparsely puberulous; bracts often petiolate, ovate, narrowly ovate, or elliptic, 0.8–5 cm, rarely ternate. Flowers 2.5–4.8 cm in diam. Pedicel 3–8 cm, subglabrous to sparsely puberulous. Sepals (4 or)5 or 6(or)7, white, spreading, oblong, obovate-oblong, or lanceolate, 1.2–2.6 × 0.4–0.8 cm, abaxially glabrous except for velutinous margin, adaxially glabrous, apex acute to obtuse. Stamens 5–8 mm, glabrous; anthers linear, 3.8–4.5 mm, often longer than filaments, apex minutely apiculate. Ovaries densely pubescent. Style ca. 4 mm, densely villous. Achenes elliptic to ovate, 4.5–5 × 2.8–3 mm, appressed pubescent; persistent style to 2.5 cm, brown-yellow plumose. Fl. Apr–Jun, fr. Aug–Nov.

• Slopes, scrub; 400–2600 m. S Gansu, W Henan, Hubei, S Shaanxi, Shanxi, Sichuan.

**55. *Clematis dilatata*** C. Pei, Contr. Biol. Lab. Chin. Assoc. Advancem. Sci., Sect. Bot. 10: 105. 1936.

舟柄铁线莲 zhou bing tie xian lian

Vines woody. Branches shallowly 10-grooved, puberulous, glabrescent. Leaves pinnate or 2-pinnate; petiole 6.5–10 cm, basally usually widened and connate to opposite petiole, puberulous, glabrescent; leaflet blades narrowly ovate, ovate, ovate-orbicular, or oblong-lanceolate, 3–10 × 1.5–5.2 cm, subleathery, both surfaces glabrous and conspicuously reticulate, abaxially glaucous, base rounded to subcordate, margin entire, apex acute to obtuse; basal veins ± prominent on both surfaces. Cymes axillary or terminal, 7–13-flowered; peduncle 3–8 cm, puberulous; bracts linear to subulate, 7–10 mm. Flowers 3.4–5.5 cm in diam. Pedicel 2–5 cm, densely puberulous. Sepals 5 or 6(or)7, white tinged pink, spreading, obovate-lanceolate to oblong, 1.8–3.5 × 0.5–1 cm, abaxially velutinous to puberulous, adaxially puberulous, margin abaxially velutinous, apex acute. Stamens 0.9–1.4 cm, glabrous; anthers narrowly oblong, 3.5–4 mm, apex minutely apiculate. Ovaries puberulous. Style ca. 1.1 cm, densely villous. Achenes narrowly ovate, ca. 5 × 2 mm, appressed pubescent; persistent style ca. 3 cm, plumose. Fl. May, fr. Jun–Jul.

• Forests, along streams in ravines; 300–800 m. C to S Zhejiang.

**56. *Clematis uncinata*** Champion ex Benth, Hooker's J. Bot. Kew Gard. Misc. 3: 255. 1851.

柱果铁线莲 *zhu guo tie xian lian*

Vines woody. Branches shallowly longitudinally 10–14-grooved, glabrous. Leaves pinnate or 2-pinnate, 5–15-foliolate, glabrous; petiole 3–8.5 cm; leaflet blades ovate-elliptic, ovate, narrowly ovate, or lanceolate, 3–13 × 1.5–5 cm, leathery to papery, abaxially reticulate or not, base rounded, broadly cuneate, subcordate, or truncate, margin entire, apex acuminate, acute, or attenuate; basal veins abaxially prominent. Cymes axillary or terminal, usually many flowered, paniclelike, glabrous; peduncle 1–8 cm; bracts sessile, subulate, 3–8 mm, sometimes petiolate, lanceolate, to 3.5 cm.

Flowers 1.7–3 cm in diam. Pedicel 1–2.2 cm. Sepals 4, white, spreading, narrowly oblong to narrowly obovate-oblong, 6–15 × 2–7 mm, abaxially glabrous except for velutinous margin, adaxially glabrous, apex acute. Stamens (3–)8–11 mm, glabrous; anthers narrowly oblong to linear, 2.8–3.2 mm, apex minutely apiculate. Ovaries glabrous or pubescent. Style 5–8 mm, densely villous. Achenes subulate-terete, 5–7 × 1.4–1.8 mm, glabrous or pubescent; persistent style 1.5–2(–3) cm, plumose. Fl. Apr–Jul, fr. Jul–Nov.

Forests, forest margins, slopes, scrub, open areas, along streams; 100–2500 m. S Anhui, Fujian, S Gansu, Guangdong, Guangxi, Guizhou, Hubei, Hunan, S Jiangsu, Jiangxi, S Shaanxi, Sichuan, Taiwan, SE Yunnan, Zhejiang [S Japan, Vietnam].

- 1a. Sepals 6–9 mm; ovaries and achenes pubescent ..... 56c. var. *okinawensis*
- 1b. Sepals 10–15 mm; ovaries and achenes glabrous.
  - 2a. Leaflet blades subleathery to papery, abaxially reticulate . 56a. var. *uncinata*
  - 2b. Leaflet blades leathery, abaxially not reticulate ..... 56b. var. *coriacea*

**56a. *Clematis uncinata* var. *uncinata***

柱果铁线莲(原变种) *zhu guo tie xian lian* (*yuan bian zhong*)

*Clematis alsomitriifolia* Hayata; *C. chinensis* Osbeck var. *uncinata* (Champion ex Benth) Kuntze; *C. drakeana* H. Léveillé & Vaniot; *C. floribunda* (Hayata) Yamamoto; *C. gagnepainiana* H. Léveillé & Vaniot; *C. uncinata* var. *biternata* W. T. Wang; *C. uncinata* var. *floribunda* Hayata.

Leaflet blades subleathery to papery, abaxially glaucous and reticulate. Sepals 10–15 × 2–3.8(–5) mm. Ovaries and achenes glabrous. Fl. Jun–Jul, fr. Jul–Sep.

Forest margins, scrub, along streams; 100–2500 m. S Anhui, Fujian, S Gansu, Guangdong, Guangxi, Guizhou, Hunan, S Jiangsu, Jiangxi, S Shaanxi, Sichuan, Taiwan, SE Yunnan, Zhejiang [S Japan, Vietnam].

**56b. *Clematis uncinata* var. *coriacea*** Pampanini, Nuovo Giorn. Bot. Ital., n.s., 22: 288. 1915.

皱叶铁线莲 *zhou ye tie xian lian*

*Clematis leiocarpa* Oliver.

Leaflet blades leathery, abaxially strongly glaucous and not reticulate. Sepals 10–15 × 2–3.8(–5) mm.

Ovaries and achenes glabrous. Fl. Jun–Jul, fr. Aug–Sep.

• Forests, slopes, scrub, along streams; 500–2000 m. S Gansu, Hubei, NW Hunan, S Shaanxi, N Sichuan.

**56c. *Clematis uncinata* var. *okinawensis*** (Ohwi) Ohwi, Fl. Japan, 515. 1953.

毛柱果铁线莲 *mao zhu guo tie xian lian*

*Clematis okinawensis* Ohwi, Acta Phytotax. Geobot. 6: 146. 1937; *C. okinawensis* var. *trichocarpa* (Tamura) Tamura; *C. trichocarpa* Tamura.

Leaflet blades leathery. Sepals 6–9 × 3–7 mm. Ovaries and achenes pubescent. Fl. Apr–Jul, Aug–Nov.

Forest margins, open areas; below 600 m. Taiwan [Japan (Ryukyu Islands)].

**57. *Clematis lingyunensis*** W. T. Wang, Acta Bot. Yunnan. 8: 266. 1986.

凌云铁线莲 *ling yun tie xian lian*

Vines woody. Branches shallowly 15-grooved, sparsely puberulous only on nodes; scales of axillary bud deltoid to triangular, 5–12 mm, undivided or 3-lobed, brown puberulous, apex acute. Leaves ternate; petiole 6–8 cm, sparsely puberulous; leaflet blades ovate, 6.7–9.2 × 3.7–5.8 cm, leathery, both surfaces glabrous and reticulate, base subcordate to cordate, margin entire, apex acuminate; basal veins abaxially prominent.

Cymes ca. 3 arising from axillary buds of old branches; central cyme to 20 cm, many flowered, paniclelike; lateral 2 cymes 3.5–9 cm, 5–9-flowered; peduncle 3–5 cm, brownish puberulous; bracts linear-triangular to linear, ca. 9 mm, undivided or 3-lobed, brownish puberulous. Flowers 0.9–1.2 cm in diam. Pedicel 4–12 mm, glabrous or very sparsely puberulous. Sepals 4, yellow, spreading, linear-lanceolate, broadly lanceolate, or elliptic, 5–7 × 2–3 mm, both surfaces glabrous except margin velutinous abaxially, apex ± obtuse. Stamens 3–3.2 mm, glabrous; anthers linear, 2.5–2.8 mm, apex apiculate. Ovaries pubescent. Style ca. 4 mm, densely villous. Fl. Apr.

• Open forest along streams. NW Guangxi (Lingyun Xian).

**58. *Clematis armandii*** Franchet, Nouv. Arch. Mus. Hist. Nat., sér. 2, 8: 184. 1886.

小木通 *xiao mu tong*

Vines woody. Stems to 6 m; branches shallowly longitudinally 10–16-grooved, sparsely puberulous, glabrescent; scales of axillary buds ovate, triangular, or oblong, 0.8–2 cm, puberulous, abaxially longitudinal veins prominent. Leaves ternate; petiole 3.6–11 cm, basally sparsely puberulous or glabrous; leaflet blades narrowly ovate, lanceolate, or ovate, 5–16 × 1.5–7 cm, leathery, both surfaces glabrous, base rounded, subcordate, or broadly cuneate, margin entire, apex acuminate to attenuate; basal veins abaxially prominent. Cymes 1- to many flowered, from axillary buds of old branches, rarely from leaf axils of current year's branches; peduncle 0.4–8 cm, puberulous or glabrous; bracts narrowly oblong to linear, 0.7–2 cm, undivided

or sometimes 3-lobed. Flowers 2–8 cm in diam. Pedicel 1.8–7 cm, sparsely puberulous or glabrous. Sepals 4(–6), white or pinkish, spreading, narrowly oblong, obovate-oblong, or oblong, 1.2–4.7 × 0.2–2 cm, abaxially sparsely puberulous or glabrous, adaxially glabrous, margin abaxially velutinous to puberulous, apex obtuse to rounded. Stamens 6–11 mm, glabrous; anthers narrowly oblong to linear, 3–4.5 mm, apex minutely apiculate or obtuse. Ovaries pubescent. Style 6–8 mm, densely villous. Achenes narrowly ovate to elliptic-ovate, 4–5 × 2–2.6 mm, sparsely pubescent; persistent style 1.6–4.8 cm, white plumose. Fl. Mar–Apr, fr. Apr–Jul.

Forests, forest margins, slopes, scrub, along streams; 100–2400 m. Fujian, S Gansu, N Guangdong, Guangxi, Guizhou, Hubei, Hunan, Jiangxi, S Shaanxi, Sichuan, E Xizang, Yunnan, S Zhejiang [N Myanmar].

1a. Cymes 7- to many flowered ..... 58a. var. *armandii*  
1b. Cymes 1–3-flowered.

2a. Cymes usually 3-flowered;  
sepals 4 or 5, 2.1–4 × 0.6–1.2  
cm ..... 58b. var. *farquhariana*  
2b. Cymes 1–3-flowered; sepals  
5 or 6, 3.7–4.7 × 1–2 cm 58c. var. *hefengensis*

**58a. Clematis armandii** var. **armandii**

小木通(原变种) xiao mu tong (yuan bian zhong)

*Clematis armandii* var. *biondiana* (Pavolini) Rehder; *C. biondiana* Pavolini; *C. ornithopus* Ulbrich.

Cymes 7- to many flowered. Sepals 4(or 5), 1.2–2.4 × 0.2–0.7 cm.

Forest margins, slopes, scrub, along streams; 100–2400 m. Fujian, S Gansu, N Guangdong, Guangxi, Guizhou, Hubei, Hunan, Jiangxi, S Shaanxi, Sichuan, E Xizang, Yunnan, S Zhejiang [N Myanmar].

**58b. Clematis armandii** var. **farquhariana** (Rehder & E. H. Wilson) W. T. Wang, Acta Phytotax. Sin. 36: 158. 1998.

大花小木通 da hua xiao mu tong

*Clematis armandii* f. *farquhariana* Rehder & E. H. Wilson in Sargent, Pl. Wilson. 1: 327. 1913.

Cymes usually 3-flowered. Sepals 4 or 5, 2.1–4 × 0.6–1.2 cm.

• Open forests, scrub, along streams; 500–1500 m. W Hubei, NW Hunan, E Sichuan.

**58c. Clematis armandii** var. **hefengensis** (G. F. Tao) W. T. Wang, Acta Phytotax. Sin. 29: 464. 1991.

鹤峰铁线莲 he feng tie xian lian

*Clematis hefengensis* G. F. Tao, Acta Phytotax. Sin. 22: 424. 1984.

Cymes 1–3-flowered. Sepals 4–6, 3.7–4.7 × 1–2 cm.

• Forests, along streams; ca. 1400 m. SW Hubei (Hefeng Tujia Zu Zizhixian).

**59. Clematis zygophylla** Handel-Mazzetti, Acta Horti Gothob. 13: 209. 1939–1940.

对叶铁线莲 dui ye tie xian lian

Vines woody. Branches shallowly longitudinally grooved, glabrous, turning black on drying; scales of axillary floral bud lanceolate, 0.8–2 cm, brownish

velutinous. Leaves ternate or pinnate, 5-foliolate, glabrous; petiole 4–6 cm; leaflet blades narrowly lanceolate, 6–14 × 1–2 cm, subleathery, base cuneate to cuneate-rounded, margin entire, apex falcate-acuminate. Cymes axillary, many flowered; peduncle 8–9.5 cm; bracts linear-lanceolate, often 3-lobed, brownish puberulous. Flowers 3–3.5 cm in diam. Pedicel 1–2 cm, glabrous. Sepals 4, spreading, linear-lanceolate to oblanceolate, 1.5–1.8 × 0.2–0.5 cm, abaxially glabrous except for velutinous margin, adaxially glabrous, apex obtuse to ± acute. Stamens 5–8 mm, glabrous; anthers linear to narrowly oblong, 2.8–3 mm, apex obtuse. Ovaries pubescent. Style ca. 5 mm, densely villous.

• Guizhou (Anshun Shi).

**60. Clematis lancifolia** Bureau & Franchet, J. Bot. (Morot) 5: 18. 1891.

披针铁线莲 pi zhen tie xian lian

Shrubs small, erect, 35–100 cm. Stems simple or branched; branches shallowly 10-grooved, sparsely puberulous to subglabrous. Leaves simple or ternate; petiole 0.4–4.5 cm; leaf blade or leaflet blades lanceolate, oblong-lanceolate, or linear-lanceolate, 4–14 × 1–2.4 cm, leathery, both surfaces very sparsely puberulous to subglabrous, base cuneate, broadly cuneate, or rounded, margin entire, apex obtuse to ± acute; basal veins abaxially ± prominent. Cymes terminal, 3–5-flowered; bracts foliaceous or small and linear, 3–10 mm. Flowers ca. 2 cm in diam. Pedicel 2–5.5 cm. Sepals 4–6, white, spreading, narrowly oblong, ca. 10 × 3 mm, abaxially glabrous except for velutinous margin, adaxially glabrous, apex ± acute. Stamens 5.5–8 mm, glabrous; anthers narrowly oblong, 3.2–5.5 mm, apex minutely apiculate or obtuse. Ovaries pubescent. Style 5–7 mm, densely villous. Achenes narrowly ovate to elliptic, 4–5 × 2.2–3 mm, pubescent; persistent style 1.4–2.3 cm, plumose. Fl. Jul–Aug, fr. Sep–Oct.

• Forests, slopes, grassy areas; 1100–1900 m. SW Sichuan, CN to NE Yunnan.

1a. Leaves simple; petiole 0.4–2.5 cm 60a. var. *lancifolia*

1b. Leaves ternate; petiole 2.2–4.5 cm 60b. var. *ternata*

**60a. Clematis lancifolia** var. **lancifolia**

披针叶铁线莲(原变种) pi zhen ye tie xian lian (yuan bian zhong)

*Clematis duclouxii* H. Léveillé; *C. iochanica* Ulbrich.

Leaves simple; petiole 0.4–2.5 cm; leaf blade lanceolate, oblong-lanceolate, or linear-lanceolate, 4–14 × 1–2.4 cm.

• Forests, grassy areas; 1500–1900 m. SW Sichuan, CN to NE Yunnan.

**60b. Clematis lancifolia** var. **ternata** W. T. Wang & M. C. Chang in W. T. Wang, Fl. Reipubl. Popularis Sin. 28: 356. 1980.

竹叶铁线莲 zhu ye tie xian lian

Leaves ternate; petiole 2.4–4.5 cm; leaflet blades linear-lanceolate.

• Slopes; ca. 1100 m. SW Sichuan (Miyi Xian).

**61. *Clematis songorica*** Bunge, Del. Semin. Hort. Dorpat. 8. 1839.

准噶尔铁线莲 *zhun ga er tie xian lian*

Shrubs small and erect or perennial herbs, 40–150 cm tall. Branches shallowly 4- or 5-grooved, glabrous or only sparsely puberulous near nodes. Leaves both opposite and fasciculate, simple, except apical ones pinnatisect; petiole 0.5–2 cm; leaf blade linear, linear-lanceolate, or lanceolate, 2–8 × 0.2–2 cm, subleathery, undivided or pinnatisect, both surfaces glabrous, base attenuate, margin entire or sparsely denticulate, apex acute to obtuse; basal veins nearly flat or ± prominent. Cymes terminal or axillary, (1- to) few to many flowered; bracts foliaceous. Flowers 1.6–2.8 cm in diam. Pedicel 1–3.5 cm, glabrous. Sepals 4(–6), white, spreading, oblong-obovate to obovate, 5–15 × 3–9 mm, abaxially puberulous to subglabrous, adaxially glabrous or sparsely puberulous, margin abaxially velutinous, apex rounded to subtruncate. Stamens (5–)6–7 mm, glabrous; anthers narrowly oblong, (2–)2.6–4 mm, apex obtuse or occasionally minutely apiculate. Ovaries pubescent. Style 4–6 mm, densely villous. Achenes ovate to obovate, 2.5–3.5 × 1.5–2 mm, densely pubescent; persistent style 1.4–2.6 cm, plumose. Fl. Jun–Aug, fr. Jul–Sep.

Grassy areas, gravelly or rocky slopes, gravelly banks, along streams; 400–2500 m. N Gansu, Xinjiang [Afghanistan, Kazakhstan, Kyrgyzstan, Mongolia, Tajikistan].

1a. All leaves undivided ..... 61a. var. *songorica*

1b. Lower leaves undivided, upper ones pinnatisect ..... 61b. var. *aspleniifolia*

**61a. *Clematis songorica* var. *songorica***

准噶尔铁线莲(原变种) *zhun ga er tie xian lian* (yuan bian zhong)

*Clematis gebleriana* Bongard; *C. recta* Linnaeus subsp. *songorica* (Bunge) Kuntze.

All leaves undivided. Sepals adaxially glabrous or sparsely puberulous. Anthers (2–)2.6–3 mm.

Grassy areas, gravelly or rocky slopes; 400–2500 m. N Gansu, Xinjiang [Kazakhstan, Mongolia].

**61b. *Clematis songorica* var. *aspleniifolia*** (Schrenk) Trautvetter, Bull. Soc. Imp. Naturalistes Moscou 33(1): 56. 1860.

蕨叶铁线莲 *jue ye tie xian lian*

*Clematis aspleniifolia* Schrenk in Fischer & C. A. Meyer, Enum. Pl. Nov. 2: 68. 1842; *C. aspleniifolia* var. *boissieriana* (Korshinsky) Krasch; *C. boissieriana* Korshinsky; *C. songorica* var. *intermedia* Trautvetter. Lower leaves undivided, upper ones pinnatisect. Sepals adaxially glabrous. Anthers 3–4 mm.

Grassy areas, gravelly banks, along streams; 500–2500 m. W Xinjiang [Afghanistan, Kazakhstan, Kyrgyzstan, Tajikistan].

**62. *Clematis delavayi*** Franchet, Bull. Soc. Bot. France 33: 360. 1886.

银叶铁线莲 *yin ye tie xian lian*

Small shrubs, to 1.5 m tall. Stems few or many branches, spinescent or not; branches densely sericeous-puberulous. Leaves pinnate, 7–13-foliolate; petiole 0.2–1.8 cm, densely puberulous; leaflet blades ovate, narrowly ovate, or oblong (0.2–)0.8–4 × 0.4–1.6 cm, papery, unlobed or rarely 2- or 3-lobed, abaxially densely silvery-pannose to appressed puberulous on all or only part of surface, adaxially sparsely puberulous but glabrescent, base rounded to broadly cuneate, margin entire, apex acute; basal veins obscure. Cymes terminal, few to many flowered; bracts foliaceous. Flowers 1.7–2.3 cm in diam. Pedicel 1.4–2 cm, densely puberulous. Sepals 4–6, white, spreading, obovate-oblong, 8–14 × 5–8 mm, abaxially velutinous, adaxially glabrous, apex rounded to obtuse. Stamens 5–8 mm, glabrous; anthers narrowly oblong, 2–2.8 mm, apex inconspicuously apiculate. Ovaries puberulous. Style 4–6 mm, densely villous. Achenes ovate, ca. 4 × 2 mm, puberulous; persistent style ca. 2.5 cm, plumose. Fl. Jul–Aug, fr. Oct.

• Slopes, scrub, thickets, stony areas; 1800–3800 m. SW to W Sichuan, E Xizang, NW Yunnan.

1a. Leaflet blades abaxially densely silvery-pannose, indumentum covering whole abaxial surface.

2a. Leaflet blades unlobed ..... 62a. var. *delavayi*

2b. Leaflet blades 2- or 3-lobed 62d. var. *limprichtii*

1b. Leaflet blades abaxially appressed puberulous and gray-green, indumentum not covering whole abaxial surface.

3a. Stems few branched, branches not spinescent; leaflet blades 0.8–2 cm ..... 62b. var. *calvescens*

3b. Stems many branched, branches spinescent; leaflet blades 0.2–1 cm ..... 62c. var. *spinescens*

**62a. *Clematis delavayi* var. *delavayi***

银叶铁线莲(原变种) *yin ye tie xian lian* (yuan bian zhong)

Branches not spinescent. Leaflet blades 0.8–4 × 0.4–1.6 cm, unlobed, abaxially densely silvery-pannose.

• Slopes, scrub; 1800–3000 m. W Sichuan, NW Yunnan.

**62b. *Clematis delavayi* var. *calvescens*** C. K. Schneider, Bot. Gaz. 63: 517. 1917.

疏毛银叶铁线莲 *shu mao yin ye tie xian lian*

Branches not spinescent. Leaflet blades 0.8–2 × 0.4–1 cm, unlobed, abaxially gray-green appressed puberulous.

• On dry slopes. SW Sichuan (Muli Zang Zu Zizhixian), NW Yunnan.

**62c. *Clematis delavayi* var. *spinescens*** Balfour ex Diels, Notes Roy. Bot. Gard. Edinburgh 5: 262. 1912.

刺铁线莲 *ci tie xian lian*

Branches many, apically spinescent. Leaflet blades 2–10 × 1–3 mm, unlobed, abaxially appressed puberulous.

• Stony areas, dry slopes in ravines of Jinsha Jiang; 2000–3800 m. SW Sichuan, E Xizang, NW Yunnan.

**62d. *Clematis delavayi* var. *limprichtii*** (Ulbrich) M. C. Chang in W. T. Wang, Fl. Reipubl. Popularis Sin. 28: 154. 1980.

裂银叶铁线莲 *lie yin ye tie xian lian*

*Clematis limprichtii* Ulbrich, Repert. Spec. Nov. Regni Veg. Beih. 12: 373. 1922.

Branches not spinescent. Leaflet blades 3–17 × 1–12 mm, 2- or 3-lobed, abaxially densely silvery-pannose.

• Thickets, grassy slopes; 1800–3200 m. W Sichuan, NW Yunnan.

**63. *Clematis hexapetala*** Pallas, Reise Russ. Reich. 3: 735. 1776.

棉团铁线莲 *mian tuan tie xian lian*

Herbs perennial, erect, 30–100 cm tall. Stems simple or branched; branches shallowly 8–12-grooved, sparsely pubescent, glabrescent. Leaves 1- or 2-pinnatisect; petiole 0.5–2 cm; ultimate lobe linear-lanceolate, elliptic, or linear, 1.5–10 × 0.1–2(–2.6) cm, leathery, both surfaces sparsely pubescent to subglabrous and reticulate, base cuneate, margin entire, apex acute to obtuse; basal veins prominent on both surfaces. Cymes terminal or axillary, (1–)3- to many flowered; peduncle 3.5–8.5 cm; bracts foliaceous or undivided, lanceolate. Flowers 2.5–4 cm in diam. Pedicel 1–7 cm, puberulous to subglabrous. Sepals (4 or)5 or 6(–8), white, spreading, narrowly obovate to narrowly oblong, 1–2.5 × 0.3–1 cm, abaxially velutinous or glabrous except for velutinous margin, adaxially glabrous, apex rounded to subtruncate. Stamens 6–9 mm, glabrous; anthers narrowly oblong, 2.6–3.2 mm, apex minutely apiculate. Ovaries pubescent. Style 5.5–8 mm, densely villous. Achenes obovate, 2.5–3.5 × 2–3 mm, pubescent; persistent style 1.5–3 cm, plumose. Fl. Jun–Aug, fr. Jul–Oct.

Slopes, grassy areas, dunes; 100–1300 m. E Gansu, Hebei, Heilongjiang, W Henan, N Hubei, N Jiangsu, Jilin, Liaoning, Nei Mongol, Ningxia, Shaanxi, E Shandong, Shanxi [Korea, Mongolia, Russia (E Siberia)].

1a. Sepals abaxially velutinous ... 63a. var. *hexapetala*

1b. Sepals abaxially glabrous except for velutinous margin ..... 63b. var. *tchefouensis*

**63a. *Clematis hexapetala* var. *hexapetala***

棉团铁线莲(原变种) *mian tuan tie xian lian* (yuan bian zhong)

*Clematis angustifolia* Jacquin; *C. angustifolia* var. *breviloba* Freyn; *C. angustifolia* var. *dissecta* Yabe; *C. angustifolia* var. *longiloba* Freyn; *C. hexapetala* var.

*longiloba* (Freyn) S. Y. Hu; *C. hexapetala* var. *smithiana* S. Y. Hu.

Sepals abaxially velutinous.

Grassy areas, dry slopes, dunes; 100–1300 m. E Gansu, Hebei, Heilongjiang, W Henan, N Hubei, Jilin, Liaoning, Nei Mongol, Ningxia, Shaanxi, Shanxi [Korea, Mongolia, Russia (E Siberia)].

**63b. *Clematis hexapetala* var. *tchefouensis*** (Debeaux) S. Y. Hu, J. Arnold Arbor. 35: 193. 1954.

长冬草 *chang dong cao*

*Clematis angustifolia* Jacquin var. *tchefouensis* Debeaux, Acta Soc. Linn. Bordeaux 31: 117. 1876; *C. hexapetala* var. *elliptica* S. Y. Hu; *C. hexapetala* var. *insularis* S. Y. Hu.

Sepals abaxially glabrous except for velutinous margin.

• Grassy slopes; 100–500 m. N Jiangsu, E Shandong.

**64. *Clematis fruticosa*** Turczaninow, Bull. Soc. Imp. Naturalistes Moscou 5: 180. 1832.

灌木铁线莲 *guan mu tie xian lian*

Shrubs small, erect. Stems to 1 m; branches shallowly 4- or 5-grooved, puberulous, glabrescent. Leaves simple; petiole 0.3–1.2 cm; leaf blade lanceolate, oblong-lanceolate, or narrowly rhombic-ovate, undivided, with 1 lobule on each side near base, or pinnatilobed, 1.5–4.5 × 0.5–2.2(–3) cm, leathery or subleathery, both surfaces subglabrous or sparsely or densely puberulous, base cuneate or broadly so, margin few dentate or entire; midvein abaxially slightly prominent, lateral basal veins inconspicuous. Cymes terminal, 1–5-flowered; peduncle 0.7–2 cm; bracts leaflike. Flowers 1.8–3.5 cm in diam.; pedicel 0.4–1.8 cm, puberulous. Sepals 4, yellow, ascending, elliptic-ovate or long elliptic, 1–2.4 × 0.5–1.2 cm, abaxially subglabrous or sparsely puberulous, adaxially glabrous, margin sometimes velutinous. Stamens 8–13 mm, glabrous; anthers narrowly oblong, 2.5–4 mm, apex obtuse. Ovaries pubescent; style 7–11 mm, densely villous. Achenes compressed, ovate or narrowly elliptic, 5–6 × 2.8–3.5 mm, pubescent; persistent style ca. 2.5 cm, plumose. Fl. Jul–Aug, fr. Oct.

Scrub, dry and grassy slopes, grasslands, sandy places, cliffs; 800–1800 m. SE Gansu, N Hebei, NC and SW Nei Mongol, SE and W Ningxia, N Shaanxi, Shanxi [Mongolia].

1a. Leaves pinnatilobed ..... 64c. var. *lobata*

1b. Leaves undivided or with 1 lobule on each side near base.

2a. Leaves undivided or with 1 lobule on each side near base, subglabrous or sparsely puberulous ..... 64a. var. *fruticosa*

2b. Leaves undivided, densely puberulous ..... 64b. var. *canescens*

**64a. *Clematis fruticosa* var. *fruticosa***

灌木铁线莲(原变种) *guan mu tie xian lian* (yuan bian zhong)

*Clematis fruticosa* var. *viridis* Turczaninow.

Leaves undivided or with 1 lobule on each side near base, subglabrous or sparsely puberulous.

Scrub, grassy slopes, cliffs; 1000–1800 m. N Hebei, SW Nei Mongol, N Shaanxi, N Shanxi [Mongolia].

**64b. *Clematis fruticosa* var. *canescens*** Turczaninow, Bull. Soc. Imp. Naturalistes Moscou 5: 180. 1832.

毛灌木铁线莲 *mao guan mu tie xian lian*

*Clematis canescens* (Turczaninow) W. T. Wang & M. C. Chang.

Leaves undivided, densely puberulous.

Grasslands, sandy places. NC Nei Mongol [Mongolia].

**64c. *Clematis fruticosa* var. *lobata*** Maximowicz, Enum. Pl. Mong. 3. 1889.

浅裂铁线莲 *qian lie tie xian lian*

*Clematis fruticosa* f. *atriplexifolia* Kozlova; *C. fruticosa* f. *chenopodiifolia* Kozlova.

Leaves pinnatilobed.

• Dry slopes, cliffs; 800–1800 m. SE Gansu, NW Hebei, SW Nei Mongol, SE and W Ningxia, N Shaanxi, Shanxi.

**65. *Clematis nannophylla*** Maximowicz, Bull. Acad. Imp. Sci. Saint-Petersbourg 23: 305. 1877.

小叶铁线莲 *xiao ye tie xian lian*

Shrubs small, erect. Stems 30–100 cm; branches shallowly 4- or 5-grooved, appressed puberulous. Leaves simple; petiole 1.5–4(–7) mm; leaf blade ovate or lanceolate in outline, pinnatipartite or pinnatisect, sometimes pinnatilobed, 0.5–5 × 0.3–3 cm, leathery, both surfaces sparsely puberulous or subglabrous, base cuneate or subtruncate; lobes in 1–3(or 4) pairs, undivided and linear or subrhombic and unequally 2- or 3-lobulate, 4–15 mm, apex acute; lobules (if present) ovate, triangular, or linear; midvein abaxially slightly prominent or flat, inconspicuous. Cymes terminal, 1–3(–7)-flowered; peduncle 1–2 cm; bracts leaflike. Flowers 1.2–2.2 cm in diam.; pedicel 0.5–1.3 cm, densely puberulous. Sepals 4, yellow, ascending, oblong or long elliptic, 0.8–1.6 × 0.4–0.85 cm, abaxially puberulous or glabrous, adaxially glabrous, margin narrowly winglike, velutinous on inner line, apex obtuse. Stamens 6–8 mm, glabrous; anthers narrowly oblong, 2.2–3 mm, apex obtuse or indistinctly minutely apiculate. Ovaries densely pubescent; style 5–7 mm, densely villous. Achenes compressed, elliptic, 3–4 × 2.2–2.5 mm, densely pubescent; persistent style ca. 2 cm, plumose. Fl. Jul–Aug, fr. Aug–Sep.

• Dry or gravelly slopes; 1200–3200 m. Gansu, SW Nei Mongol, Ningxia, Qinghai, Shaanxi.

1a. Leaf blade 0.5–1.4(–2) cm ... 65a. var. *nannophylla*

1b. Leaf blade 2.5–5 cm.

2a. Leaf blade 0.9–2 cm wide, lobes subrhombic, 3-lobulate,

7–11 mm, lobules ovate or

triangular ..... 65b. var. *pinnatisecta*

2b. Leaf blade 1.6–3 cm wide, lobes undivided and linear or 2- or 3-

lobulate, 4–15 mm, lobules linear 65c. var. *foliosa*

**65a. *Clematis nannophylla* var. *nannophylla***

小叶铁线莲(原变种) *xiao ye tie xian lian* (yuan bian zhong)

*Clematis recta* Linnaeus subsp. *nannophylla* (Maximowicz) Kuntze.

Leaf blade 0.5–1.4(–2) × 0.3–0.9(–1.4) cm.

• Dry slopes; 1200–3200 m. Gansu, SW Nei Mongol, Ningxia, Qinghai, Shaanxi.

**65b. *Clematis nannophylla* var. *pinnatisecta*** W. T. Wang & L. Q. Li, var. *nov.*

长小叶铁线莲 *chang xiao ye tie xian lian*

Type: China. Shaanxi: Huanglong Xian, Huanglong Shan, 10 Aug 1939, K. T. Fu 2122 (holotype, PE).

*A var. nannophylla lamina foliari majore 2.5–5 cm longa, lobis majoribus latioribusque subrhombicis saepe 3-lobulatis, differt.*

Leaf blade 2.5–5 × 0.9–2 cm; lobes subrhombic, often 3-lobulate, 7–11 mm; lobules ovate or triangular.

• Shaanxi (Huanglong Xian).

**65c. *Clematis nannophylla* var. *foliosa*** Maximowicz, Trudy Imp. S.-Peterburgsk. Bot. Sada 11: 5. 1890.

多叶铁线莲 *duo ye tie xian lian*

Leaf blade 2.5–4.5 × 1.6–3 cm; lobes undivided and linear or 2- or 3-lobulate, 4–15 mm; lobules (if present) linear.

• Dry or gravelly slopes; 1200–1700 m. S Gansu.

**66. *Clematis tomentella*** (Maximowicz) W. T. Wang & L. Q. Li, *comb. et stat. nov.*

灰叶铁线莲 *hui ye tie xian lian*

Basionym: *Clematis fruticosa* Turczaninow var. *tomentella* Maximowicz, Fl. Tangut. 2. 1889; *Clematis fruticosa* f. *lanceifolia* Kozlova.

Shrubs small, erect. Stems 0.6–1 m; branches shallowly 4–6-grooved, densely puberulous. Leaves simple; petiole 2–5 mm, or absent; leaf blade gray-green, linear-lanceolate, 1–4.5 × 0.2–0.8 cm, leathery, both surfaces densely appressed puberulous, base cuneate, margin entire or proximally 1- or 2-dentate or 1- or 2-lobulate, apex acute; midvein abaxially flat, lateral basal veins inconspicuous. Cymes terminal, (1–)3–10-flowered, sometimes paniclelike; peduncle 0.7–3 cm; bracts linear-lanceolate or linear, 0.4–1.5 cm. Flowers 1.3–2.2 cm in diam.; pedicel 0.5–1.8 cm, densely puberulous. Sepals 4, yellow, ascending, broadly lanceolate, long elliptic, or oblong, 0.9–1.6 × 0.35–0.8 cm, abaxially puberulous, adaxially glabrous or puberulous, margin narrowly winglike, velutinous on inner

line, apex shortly cuspidate. Stamens 7–9 mm, glabrous; filaments linear; anthers narrowly oblong, 2–3 mm, apex obtuse. Ovaries densely pubescent; style 6–11 mm, densely villous. Achenes compressed, long elliptic or narrowly ovate, ca. 4.5 × 2 mm, densely pubescent; persistent style ca. 2 mm, plumose. Fl. Jun–Aug.

• Deserts, dry slopes, sand dunes; 1100–2200 m. NW Gansu, SW Nei Mongol, N Ningxia, N Shaanxi.

**67. *Clematis viridis*** (W. T. Wang & M. C. Chang) W. T. Wang, **comb. et stat. nov.**

绿叶铁线莲 *lu ye tie xian lian*

Basionym: *Clematis canescens* subsp. *viridis* W. T. Wang & M. C. Chang in W. T. Wang, Fl. Reipubl. Popularis Sin. 28: 356. 1980; *Clematis canescens* var. *viridis* (W. T. Wang & M. C. Chang) W. T. Wang.

Shrubs small, erect. Stems 60–120 cm, many branched; branches 4–6-angulate, shallowly 4–6-grooved, glabrous; axillary branchlets 0.2–4 cm, puberulous. Leaves simple; petiole 1–4 mm; leaf blade lanceolate-linear or linear, 1.4–3.5(–4.5) × 0.2–0.6(–0.8) cm, papery, both surfaces subglabrous or abaxially puberulous on midvein and adaxially sparsely puberulous; midvein abaxially slightly prominent, lateral basal veins obscure. Flowers solitary and terminal on short, axillary branchlets, 2–3.5 cm in diam.; pedicel slender, 1.4–4 cm, puberulous. Sepals 4, yellow, ascending, ovate or subelliptic, 1.4–2.7 × 0.7–1.3 cm, abaxially sparsely puberulous, adaxially glabrous, margin narrowly winglike, velutinous on inner line, apex apiculate. Stamens 6–13 mm, glabrous; filaments linear; anthers oblong or narrowly so, 2.5–4 mm, apex obtuse or acute. Ovaries densely pubescent; style 6–9 mm, densely villous. Achenes compressed, elliptic or narrowly obovate, 4–6 × 2.5–3.5 mm, densely pubescent; persistent style (2–)3–3.5 cm, plumose. Fl. Jun–Aug.

• Scrub in valleys, dry slopes, sand banks of rivers; 2700–3600 m. NW Sichuan, E Xizang.

**68. *Clematis tangutica*** (Maximowicz) Korshinsky, Izv. Imp. Akad. Nauk. 9: 399. 1898.

甘青铁线莲 *gan qing tie xian lian*

Vines woody, sometimes dwarf, erect shrublets when growing in dry, sandy, or gravelly regions. Branches shallowly 6–8-grooved, puberulous, glabrescent. Leaves 1- or 2-pinnate; petiole 2–6 cm; leaflet blades rhombic-ovate to narrowly ovate, 1–6 × 0.5–2.8 cm, papery, often 3-lobed near base or undivided, both surfaces sparsely puberulous on veins, base broadly cuneate, rounded, or subcordate, margin denticulate, apex acute to ± obtuse; basal veins abaxially flat. Flowers solitary, terminal, or sometimes also in axillary 1–3-flowered cymes, 2–6 cm in diam.; peduncle 0.3–3 cm; bracts short petiolate, similar to leaflets. Pedicel 3.5–16.5 cm, sericeous-puberulous to subglabrous. Sepals 4, yellow, sometimes tinged purple, ascending, narrowly ovate, lanceolate, or oblong, 1.5–4 × 0.6–1.4

cm, abaxially sparsely puberulous, adaxially glabrous or rarely puberulous, margin abaxially velutinous, apex cuspidate, acuminate, or acute. Stamens 5–11 mm; filaments puberulous; anthers narrowly oblong, 2–3 mm, glabrous, apex obscurely apiculate to subobtuse. Ovaries puberulous. Style 0.9–1.5 cm, densely villous. Achenes rhombic-obovate, ca. 4.5 × 2.2 mm, puberulous; persistent style to 5 cm, plumose. Fl. Jun–Sep, fr. Sep–Oct.

Forests, slopes, scrub, grassy areas, along river banks or streams; 300–4900 m. Gansu, Qinghai, S Shaanxi, W Sichuan, Xinjiang, Xizang [Kazakhstan].

1a. Sepals adaxially densely puberulous 68c. var. *pubescens*

1b. Sepals adaxially glabrous.

2a. Sepal apices ± cuspidate ... 68a. var. *tangutica*

2b. Sepal apices ± acute ..... 68b. var. *obtusiuscula*

**68a. *Clematis tangutica* var. *tangutica***

甘青铁线莲(原变种) *gan qing tie xian lian* (yuan bian zhong)

*Clematis orientalis* Linnaeus var. *tanguica* Maximowicz, Fl. Tangut. 3. 1889; *C. chrysantha* Ulbrich.

Sepals adaxially glabrous, apex ± cuspidate.

Scrub, grassy areas, gravelly river banks; 1300–4900 m. Gansu, Qinghai, S Shaanxi, W Sichuan, Xinjiang, Xizang [Kazakhstan].

**68b. *Clematis tangutica* var. *obtusiuscula*** Rehder & E. H. Wilson in Sargent, Pl. Wilson. 1: 343. 1913.

钝萼甘青铁线莲 *dun e gan qing tie xian lian*

Sepals adaxially glabrous, apex ± acute.

• Scrub, gravelly area along streams; 3000–4000 m. SW Gansu, S Qinghai, W Sichuan, E Xizang.

**68c. *Clematis tangutica* var. *pubescens*** M. C. Chang & P. P. Ling in W. T. Wang, Fl. Reipubl. Popularis Sin. 28: 356. 1980.

毛萼甘青铁线莲 *mao e gan qing tie xian lian*

Sepals adaxially densely puberulous, apex acute to short cuspidate.

• Forests, slopes, along rivers; 300–3600 m. SW Gansu, E Qinghai, W Sichuan, E Xizang.

**69. *Clematis tibetana*** Kuntze, Verh. Bot. Vereins Prov. Brandenburg. 26: 172. 1885.

中印铁线莲 *zhong yin tie xian lian*

Vines woody. Branches shallowly 8–10-grooved, sparsely puberulous, glabrescent. Leaves usually 2-pinnate, sometimes 1-pinnate; petiole 1.2–6 cm; leaflet blades broadly lanceolate, narrowly ovate, ovate, or elliptic, 1–4.2 × 0.5–2.4 cm, papery, often 2- or 3-lobed near base or undivided, abaxially appressed puberulous, adaxially glabrous or sparsely appressed puberulous, base broadly cuneate to rounded, margin usually entire or sometimes to 2-denticulate; basal veins abaxially nearly flat; terminal lobes largest, lanceolate to narrowly ovate. Flowers solitary and terminal or in axillary 1–3-flowered cymes, 2–4.5 cm in diam.;

peduncle 1–4 cm; bracts foliaceous. Pedicel 2–13.5 cm, puberulous or glabrous. Sepals 4, yellow, yellow-brown, or brown-purple, ascending, broadly ovate, ovate, oblong, or lanceolate, 1.5–2.8 × 0.6–1.7 cm, abaxially glabrous or sparsely puberulous, adaxially appressed puberulous, apex acute, caudate-acuminate, or acuminate. Stamens 5–11 mm; filaments puberulous; anthers narrowly oblong to oblong, 1.6–4 mm, glabrous, apex obtuse or minutely apiculate. Ovaries pubescent. Style 0.6–1.5 cm, densely villous. Fl. May–Jul.

Slopes, scrub, grassy areas, gravelly river banks; 2200–4800 m. SW Sichuan, Xizang [N India, W Nepal].

- 1a. Sepals narrowly ovate to lanceolate, papery, apex caudate-acuminate to acuminate; anthers oblong, 1.6–2 mm, apex minutely apiculate ..... 69a. var. *tibetana*
- 1b. Sepals broadly ovate, ovate, or oblong, leathery, apex acute to short acuminate; anthers narrowly oblong to oblong, 2.4–4 mm, apex obtuse.
- 2a. Leaflet terminal lobes lanceolate to narrowly ovate ..... 69b. var. *vernayi*
- 2b. Leaflet terminal lobes lanceolate-linear to linear ..... 69c. var. *lineariloba*

**69a. Clematis tibetana** var. *tibetana*

中印铁线莲(原变种) *zhong yin tie xian lian* (*yuan bian zhong*)

Sepals narrowly ovate to lanceolate, 2–2.8 × 0.6–1.1 cm, papery, abaxially glabrous, apex caudate-acuminate to acuminate. Anthers oblong, 1.6–2 mm, apex minutely apiculate.

W Xizang (Gê'gyai Xian) [N India].

**69b. Clematis tibetana** var. *vernayi* (C. E. C. Fischer) W. T. Wang, *Acta Phytotax.* Sin. 36: 164. 1998.

厚萼中印铁线莲 *hou e zhong yin tie xian lian*

*Clematis vernayi* C. E. C. Fischer, *Bull. Misc. Inform. Kew* 1937: 95. 1937; *C. tibetana* Kuntze subsp. *vernayi* (C. E. C. Fischer) Grey-Wilson.

Leaflet terminal lobes lanceolate to narrowly ovate. Sepals broadly ovate, ovate, or oblong, 1.5–2.7 × 0.8–1.7 cm, leathery, abaxially glabrous or sparsely puberulous, apex acute to short acuminate. Anthers narrowly oblong to oblong, 2.4–3.5 mm, apex obtuse. Slopes, scrub, grassy areas, gravelly river banks; 2200–4800 m. E to S Xizang [W Nepal].

**69c. Clematis tibetana** var. *lineariloba* W. T. Wang, *Acta Phytotax.* Sin. 36: 164. 1998.

狭裂中印铁线莲 *xia lie zhong yin tie xian lian*  
Leaflet terminal lobes lanceolate-linear to linear. Sepals ovate to oblong, 2–2.4 × 0.8–1.2 cm, leathery, abaxially glabrous or puberulous, apex acute. Anthers narrowly oblong, 3–4 mm, apex obtuse.

• Scrub, grassy slopes; 3000–4600 m. SW Sichuan, E to S Xizang.

**70. Clematis pamiralaica** Grey-Wilson, *Bull. Misc. Inform. Kew* 44: 54. 1989.

帕米尔铁线莲 *pa mi er tie xian lian*

Shrublets dwarf, 15–45 cm tall. Branches indistinctly 6-angulate, flat or shallowly 6-grooved, puberulous or glabrous. Leaves ternate or pinnate, sometimes simple; petiole 1–2 cm, appressed puberulous; leaflet blades narrowly ovate to broadly ovate, 1–2 × 0.5–2 cm, leathery, usually 2- or 3-lobed or parted basally from middle, both surfaces sparsely puberulous, base subcordate to broadly cuneate, margin entire or to 2-denticulate; basal veins abaxially flat or ± prominent; terminal lobe largest, lanceolate to narrowly ovate. Flowers solitary, terminal, slightly nodding, 2.5–3.5 cm in diam. Pedicel 9–12.5 cm, puberulous. Sepals 4, yellow, ascending, papery, narrowly ovate, oblong-ovate, or oblong, 1.7–2.8 × 0.7–1.2 cm, abaxially sparsely puberulous, adaxially ± densely puberulous, margin abaxially velutinous, apex acute. Stamens 7.5–10 mm; filaments margin puberulous; anthers narrowly oblong, 2.5–3 mm, glabrous, apex minutely apiculate. Ovaries pubescent. Style ca. 1 cm, densely villous. Fl. Jun–Jul.

Grassy areas on slopes, rocky cliffs; 3300–4300 m. SW Xinjiang [Tajikistan].

**71. Clematis caudigera** W. T. Wang, *Acta Phytotax.* Sin. 36: 165. 1998.

尾尖铁线莲 *wei jian tie xian lian*

Vines woody. Branches 4-grooved, glabrous. Leaves pinnate, 5-foliolate; petiole 2.2–4.5 cm, sparsely puberulous; leaflet blades triangular, 0.8–2 × 0.4–1.6 cm, thick papery to leathery, unequally 2-lobed, 3-parted, or 3-sect, abaxially sparsely appressed puberulous, adaxially glabrous, base cordate-truncate to subcordate, margin 1- or 2-denticulate on each side or rarely entire; basal veins nearly flat and inconspicuous; terminal lobe largest, narrowly rhombic-lanceolate to linear-lanceolate, 1–6 mm wide; lateral lobes smaller and obliquely cuneate. Flowers solitary, terminal, 3.5–6 cm in diam. Pedicel 9–21.5 cm, glabrous or very sparsely puberulous. Sepals 4, yellow, ascending, oblong-lanceolate, 2.3–4.2 × 0.8–1.1 cm, abaxially glabrous except for velutinous margin, adaxially densely appressed puberulous, apex attenuate into a 3–6 mm tail-like projection. Stamens 0.8–1.2 cm; filaments pilose near margin; anthers oblong to narrowly oblong, 2.4–3 mm, glabrous, apex obtuse. Ovaries pubescent. Style 1.1–1.3 cm, densely villous. Fl. Jun–Jul.

• Slopes in valleys; 3000–3700 m. S Xinjiang (Yutian Xian).

**72. Clematis corniculata** W. T. Wang, *Acta Phytotax.* Sin. 29: 466. 1991.

角萼铁线莲 *jiao e tie xian lian*

Vines woody. Branches shallowly 6-grooved, glabrous. Leaves 2-pinnate, glabrous; petiole ca. 7 cm; leaflet blades lanceolate, narrowly ovate, or narrowly lanceolate, 1.5–3 × 0.3–0.8 cm, leathery, undivided or 3-lobed or parted, base broadly cuneate to cuneate, margin usually entire or sometimes 1-denticulate; midvein abaxially ± prominent; central lobe larger, linear-lanceolate, 1.5–2.6 × 0.2–0.4 cm; lateral lobes

narrowly ovate, 3–10 mm. Flowers solitary, terminal, ca. 4 cm in diam. Pedicel 14–20 cm, glabrous. Sepals 4, yellow, ascending, oblong, 2.3–2.6 × 0.7–0.9 cm, abaxially glabrous except for velutinous margin, adaxially glabrous, apex acute and abaxially with a ca. 2.5 mm projection. Stamens 8–9 mm; filaments pubescent; anthers oblong, ca. 2 mm, glabrous, apex minutely apiculate. Ovaries pubescent. Style ca. 1 cm, densely villous. Fl. Aug–Sep.

• Grassy slopes; 2800–2900 m. SW Xinjiang (Qira Xian, Yecheng Xian).

**73. *Clematis zandaensis*** W. T. Wang, Acta Phytotax. Sin. 36: 165. 1998.

扎达铁线莲 zha da tie xian lian

Vines woody. Branches shallowly 4–8-grooved, glabrous. Leaves 1- or 2-pinnate; petiole 3–5.5 cm; leaflet blades ovate to broadly ovate, 1.8–5 × 1.8–4 cm, papery, 2- or 3-lobed or parted, abaxially sparsely puberulous on basal veins and slightly glaucous, adaxially glabrous, base subcordate, rounded, or broadly cuneate, margin irregularly dentate; basal veins abaxially ± prominent; larger lobes ovate-oblong or with a lanceolate terminal lobe. Cymes axillary, 1–3-flowered; peduncle 4–9.5 cm, glabrous; bracts short petiolate, ternate. Flowers 1.4–2 cm in diam. Pedicel 1.5–4 cm, glabrous. Sepals 4, yellow, ascending, papery, ovate, 9–17 × 5–8 mm, abaxially glabrous except for velutinous margin, adaxially appressed puberulous, apex acute. Stamens 3.5–10 mm; filaments puberulous; anthers narrowly oblong, 1.4–3 mm, glabrous, apex obtuse. Ovaries pubescent. Style 7–10 mm, densely villous. Fl. Jun–Jul.

• Forests, slopes, along rivers; ca. 3500 m. W Xizang (Zanda Xian).

This species was misidentified in FRPS 28: 144. 1980 as *Clematis graveolens* Lindley.

**74. *Clematis serratifolia*** Rehder, Mitt. Deutsch. Dendrol. Ges. 1910: 248. 1910.

齿叶铁线莲 chi ye tie xian lian

*Clematis intricata* Bunge var. *serrata* (Maximowicz) Komarov; *C. intricata* var. *wilfordii* (Maximowicz) Komarov; *C. orientalis* Linnaeus var. *serrata* Maximowicz; *C. orientalis* var. *wilfordii* Maximowicz; *C. serrata* (Maximowicz) Komarov; *C. wilfordii* (Maximowicz) Komarov.

Vines woody. Branches shallowly 6–8-grooved, sparsely puberulous or glabrous. Leaves 2-ternate; petiole 3–7.5 cm; leaflet blades lanceolate, narrowly ovate, or ovate, 3–6(–8) × 1–2.5(–3) cm, papery, both surfaces sparsely puberulous, glabrescent, base broadly cuneate to rounded, margin irregularly serrate or denticulate, apex attenuate; basal veins abaxially nearly flat. Cymes axillary, 1–3-flowered; peduncle 0.5–1.5 cm; bracts petiolate or sessile, lanceolate to linear, 4–15 mm. Flowers 2–3.5 cm in diam. Pedicel 3–7 cm, sparsely puberulous. Sepals 4, yellow, ascending,

oblong, elliptic-lanceolate, or narrowly ovate, 1.5–2.5 × 0.5–0.8 cm, abaxially glabrous except for velutinous margin, adaxially appressed puberulous, apex caudate-apiculate. Stamens 0.8–1.2 cm; filaments puberulous; anthers narrowly oblong, 1.2–2.6 mm, glabrous, apex minutely apiculate. Ovaries pubescent. Style 7–9 mm, densely villous. Achenes elliptic, ca. 3 × 2 mm, pubescent; persistent style ca. 3 cm, plumose. Fl. Aug, fr. Sep–Oct.

Dry forests, slopes, gravelly river banks; ca. 400 m. E Jilin, Liaoning [N Japan, Korea, Russia (Far East)].

**75. *Clematis akebioides*** (Maximowicz) Veitch, Hardy Pl. W. China 9. 1912.

甘川铁线莲 gan chuan tie xian lian

*Clematis orientalis* Linnaeus var. *akebioides* Maximowicz, Trudy Imp. S.-Peterburgsk. Bot. Sada 11: 6. 1890; *C. glauca* Willdenow var. *akebioides* (Maximowicz) Rehder & E. H. Wilson.

Vines woody. Branches shallowly 6–10-grooved, sparsely puberulous to subglabrous. Leaves 1- or 2-pinnate; petiole 3–7.8 cm; leaflet blades ovate, elliptic, or oblong, 1.2–4 × 0.6–3 cm, thin papery to herbaceous, undivided or 3-lobed, abaxially sparsely puberulous on veins or glabrous, glaucous, adaxially glabrous, base broadly cuneate to rounded, margin crenate, apex obtuse, rounded, or ± acute; basal veins abaxially flat. Cymes axillary, 1–3-flowered; peduncle 0.2–2.4(–3.5) cm; bracts similar to leaflets, 1–1.5 cm, undivided or 3-lobed. Flowers 2–3.4 cm in diam. Pedicel 2.5–7 cm, sparsely puberulous to subglabrous. Sepals 4, yellow, greenish yellow, or sometimes tinged purple, narrowly ovate to ovate-oblong, 1.6–2.7 × 0.6–1.1 cm, abaxially glabrous except for velutinous margin, adaxially glabrous, apex sharp apiculate. Stamens 7–12 mm; filaments puberulous; anthers narrowly oblong to oblong, 2–3 mm, glabrous, apex obtuse or minutely apiculate. Ovaries pubescent. Style 7–12 mm, densely villous. Achenes obovate to elliptic, ca. 3 × 1.8 mm, pubescent; persistent style ca. 3 cm, plumose. Fl. Jul–Sep, fr. Sep–Oct.

• Scrub, grassy slopes, along streams; 1200–3600 m. Gansu, W Nei Mongol, Qinghai, W Sichuan, E to SE Xizang, NW Yunnan.

**76. *Clematis glauca*** Willdenow, Berlin Baumz. 65. 1796.

粉绿铁线莲 fen lu tie xian lian

*Clematis orientalis* Linnaeus var. *glauca* Maximowicz.

Vines suffruticose. Branches shallowly 4–8-grooved, sparsely puberulous to subglabrous. Leaves 1- or 2-pinnate; petiole 2.5–8.5 cm; leaflet blades narrowly elliptic, oblong, or ovate, 1.5–5 × 1–1.8 cm, papery, undivided or 3-lobed, both surfaces glabrous, abaxially sometimes very sparsely puberulous on basal veins, glabrescent, glaucous, base rounded to broadly cuneate, margin entire or to 2-dentate, apex obtuse to ± acute and mucronate; basal veins abaxially nearly flat, inconspicuous. Cymes axillary, (1–)3-flowered to rarely

many flowered; peduncle 2–4.5(–8) cm; bracts narrowly oblong, lanceolate, or ovate, 0.4–2(–5) cm, undivided or 3-lobed. Flowers 1.6–3 cm in diam. Pedicel 2–7 cm, sparsely puberulous. Sepals 4, yellow, ascending, narrowly ovate to lanceolate, 1.3–2 × 0.4–0.8 cm, abaxially glabrous except for velutinous margin, adaxially glabrous or apically puberulous, apex acute. Stamens 7–9 mm; filaments puberulous; anthers narrowly oblong to linear, 2.2–4 mm, glabrous, apex obtuse. Ovaries puberulous. Style 6–10 mm, densely villous. Achenes narrowly ovate to obovate, ca. 3 × 1.6 mm, puberulous; persistent style to 5 cm, plumose. Fl. Jun–Aug, fr. Aug–Oct.

Slopes, scrub; 1000–2600 m. Gansu, E Qinghai, Shaanxi, Shanxi, Xinjiang [Kazakhstan, Mongolia, Russia (Siberia)].

**77. *Clematis intricata*** Bunge, Mém. Acad. Imp. Sci. St.-Petersbourg Divers Savans 2: 75. 1833.

黄花铁线莲 *huang hua tie xian lian*

Vines woody. Branches shallowly 6–8-grooved, sparsely puberulous to subglabrous. Leaves mostly 2-pinnate, sometimes 1-pinnate; petiole 1.6–5.5 cm; leaflet blades lanceolate to linear-lanceolate when undivided or ovate when 2- or 3-parted, 1–4 × 0.2–2 cm, papery, both surfaces very sparsely puberulous, glabrescent, base cuneate, margin entire or to 2-denticulate, apex attenuate; midvein flat. Cymes axillary, (1–)3(–5)-flowered; peduncle 0.1–3 cm; bracts petiolate, lanceolate, undivided or 3-lobed. Flowers 2–4 cm in diam. Pedicel 2–3.8 cm, sparsely puberulous to subglabrous. Sepals 4, yellow, rarely purple, ascending, narrowly ovate to suboblong, 1.2–2.3(–2.5) × 0.5–0.8(–1) cm, abaxially glabrous or occasionally apically very sparsely puberulous, adaxially glabrous, margin abaxially velutinous, apex acuminate. Stamens 5–9.5 mm; filaments puberulous; anthers narrowly oblong to linear, 2.5–4 mm, glabrous, apex obtuse. Ovaries puberulous. Style 8–10 mm, densely villous. Achenes elliptic to rhombic-obovate, 2.5–3.2 × 2–2.5 mm, puberulous; persistent style 2.5–4 cm, plumose. Fl. Jun–Jul, fr. Aug–Sep.

Forests, slopes, scrub; 400–2600 m. Gansu, Hebei, Liaoning, Nei Mongol, E Qinghai, N Shaanxi, Shanxi [S Mongolia].

1a. Sepals yellow, 1.2–2.3 × 0.5–0.8 cm 77a. var. *intricata*

1b. Sepals purple, ca. 2.5 × 1 cm .... 77b. var. *purpurea*

**77a. *Clematis intricata* var. *intricata***

黄花铁线莲(原变种) *huang hua tie xian lian* (yuan bian zhong)

*Clematis glauca* Willdenow var. *angustifolia* Ledebour; *C. orientalis* Linnaeus var. *intricata* (Bunge) Maximowicz.

Sepals yellow, 1.2–2.3 × 0.5–0.8 cm.

Slopes, scrub. Gansu, Hebei, Liaoning, S Nei Mongol, E Qinghai, N Shaanxi, Shanxi [S Mongolia].

**77b. *Clematis intricata* var. *purpurea*** Y. Z. Zhao, Fl. Intramongolica 2: 369. 1979.

紫萼铁线莲 *zi e tie xian lian*

Sepals purple, ca. 2.5 × 1 cm.

• Forests. Nei Mongol.

**78. *Clematis orientalis*** Linnaeus, Sp. Pl. 1: 543. 1753.

东方铁线莲 *dong fang tie xian lian*

Vines suffruticose. Branches flat or shallowly 6–10-grooved, glabrous or sparsely puberulous. Leaves 1- or 2-pinnate; petiole 2.5–5.5 cm; leaflet blades ovate-lanceolate, narrowly ovate, or linear-lanceolate, 1.2–4.5 × 0.5–1.6 cm, papery, undivided or 3-lobed near base, both surfaces glaucous, glabrous or rarely abaxially appressed puberulous, base rounded to broadly cuneate, margin usually entire or sometimes to 2-denticulate, apex acute; basal veins abaxially nearly flat and inconspicuous; terminal lobes larger, lanceolate to linear-lanceolate. Cymes axillary, 3–15-flowered; peduncle 1.5–4.5 cm; bracts petiolate, lanceolate, 0.8–2 cm. Flowers 1.8–3 cm in diam. Pedicel 1.4–5.5(–7.6) cm, glabrous or rarely puberulous. Sepals 4, yellowish, ascending, lanceolate to elliptic, 1.2–2 × 0.3–0.6 cm, abaxially glabrous or puberulous, adaxially puberulous, margin abaxially velutinous, apex acute. Stamens 6–10 mm; filaments sparsely puberulous; anthers narrowly oblong to linear, 2.2–3.5 mm, glabrous, apex obtuse. Ovaries puberulous. Style 8–10 mm, densely villous. Achenes narrowly ovate, oblong, or narrowly obovate, 3–3.5 × 1.2–2 mm, puberulous; persistent style 2.5–4 cm, plumose. Fl. Jun–Aug, fr. Aug–Sep.

Slopes, along streams; 400–3800 m. NW Gansu, Xinjiang [Afghanistan, NW India, Kazakhstan, Kyrgyzstan, N Pakistan, Russia, Tajikistan; W and SW Asia].

1a. Pedicel 1.4–5.5 cm, ca. 1 mm in diam.

..... 78a. var. *orientalis*

1b. Pedicel 3.7–7.6 cm, 1–2 mm in diam.

..... 78b. var. *sinorobusta*

**78a. *Clematis orientalis* var. *orientalis***

东方铁线莲(原变种) *dong fang tie xian lian* (yuan bian zhong)

*Meclatis orientalis* (Linnaeus) Spach.

Pedicel 1.4–5.5 cm, ca. 1 mm in diam. Fl. Jun–Jul, fr. Aug–Sep.

Slopes, along streams; 400–2000 m. NW Gansu, Xinjiang [Afghanistan, NW India, Kazakhstan, Kyrgyzstan, N Pakistan, Russia, Tajikistan; W Asia].

**78b. *Clematis orientalis* var. *sinorobusta*** W. T. Wang, Acta Phytotax. Sin. 36: 167. 1998.

粗梗东方铁线莲 *cu geng dong fang tie xian lian* *Clematis orientalis* var. *robusta* W. T. Wang, Acta Phytotax. Sin. 29: 466. 1991, not Grey-Wilson (1989).

Pedicel 3.7–7.6 cm, 1–2 mm in diam. Fl. Aug, fr. Sep.

• Slopes; ca. 3800 m. SW Xinjiang (Yecheng Xian).

**79. *Clematis smilacifolia*** Wallich, Asiat. Res. 13: 402. 1820.

菝葜叶铁线莲 *ba qia ye tie xian lian*

Vines woody. Branches shallowly 8–20-grooved, glabrous. Leaves simple; petiole 3.5–6 cm; leaf blade ovate to deltoid-ovate, 8–16.5 × 6.5–11 cm, leathery, both surfaces glabrous, obscurely reticulate, base cordate to subcordate and sometimes slightly to conspicuously peltate, margin entire, apex ± obtuse to acute; basal veins 5–7, abaxially ± prominent. Cymes paniclelike, axillary, laxly flowered; peduncle 1–11 cm, sparsely puberulous; bracts small, linear. Flowers 3–3.6 cm in diam. Pedicel 4–7 cm, densely puberulous. Sepals 4 or 5, blue-purple, lanceolate-oblong, 1.6–1.8 × 0.5–0.7 cm, abaxially reddish brown velutinous, adaxially glabrous, margin often revolute, apex ± obtuse. Stamens 0.8–1.4 cm, glabrous; anthers narrowly oblong, 2.5–3 mm, apex with a conspicuous 1–2 mm apicula. Ovaries pubescent. Style ca. 6 mm, densely villous. Achenes narrowly ovate, ca. 6 × 2 mm, puberulous; persistent style 5–8 cm, plumose. Fl. Nov–Dec, fr. Dec–Jan.

Forests, forest margins, scrub; 900–2300 m. W Guangxi, W Guizhou, Hainan, SE Xizang, S Yunnan [Bangladesh, Bhutan, Cambodia, India, Indonesia, Malaysia, Myanmar, W Nepal, N New Guinea, Philippines, Sikkim, Sri Lanka, Thailand, Vietnam].

This species was misidentified in FRPS 28: 228. 1980 as *Clematis loureiroana*.

- 1a. Leaf blade base cordate to subcordate, sometimes ± peltate ..... 79a. var. *smilacifolia*  
1b. Leaf blade base conspicuously peltate 79b. var. *peltata*

**79a. *Clematis smilacifolia* var. *smilacifolia***

菝葜叶铁线莲(原变种) *ba qia ye tie xian lian* (yuan bian zhong)

Leaf blade base cordate to subcordate, sometimes ± peltate.

Forests, scrub; 900–2300 m. W Guangxi, W Guizhou, Hainan, SE Xizang, S Yunnan [Bangladesh, Bhutan, Cambodia, India, Indonesia, Malaysia, Myanmar, W Nepal, N New Guinea, Philippines, Sikkim, Sri Lanka, Thailand, Vietnam].

**79b. *Clematis smilacifolia* var. *peltata*** (W. T. Wang) W. T. Wang, Acta Phytotax. Sin. 38: 415. 2000.

盾叶铁线莲 *dun ye tie xian lian*

*Clematis loureiroana* de Candolle var. *peltata* W. T. Wang, Acta Phytotax. Sin. 6: 220. 1957.

Leaf blade base conspicuously peltate; petiole insertion 2–15 mm from leaf base.

Forests, forest margins; 1200–1600 m. W Guangxi, SE Yunnan [N Vietnam].

**80. *Clematis metuoensis*** M. Y. Fang in W. T. Wang, Fl. Reipubl. Popularis Sin. 28: 359. 1980.

墨脱铁线莲 *mo tuo tie xian lian*

Vines woody. Branches nearly smooth to indistinctly 10-grooved, glabrous. Leaves simple, glabrous; petiole 4–7 cm; leaf blade ovate to broadly ovate, 7–14.5 × 4–12.6 cm, leathery to papery, abaxially reticulate, base rounded to subcordate and inconspicuously peltate, margin entire, apex acuminate; basal veins abaxially

prominent. Cymes axillary, often racemelike, 3–7-flowered; peduncle 0.5–5.5 cm, glabrous; bracts subulate, ca. 4 mm, sparsely pilose. Flowers 2.5–3 cm in diam. Pedicel 2–3 cm, glabrous. Sepals 4, yellow, spreading, linear-lanceolate to oblong-lanceolate, 10–15 × 3–5 mm, abaxially brown velutinous, adaxially glabrous, margin white velutinous, apex attenuate. Stamens ± as long as sepals, glabrous; anthers narrowly oblong, ca. 2.2 mm, apex with a ca. 1.5 mm apicula. Ovaries pubescent. Style ca. 6 mm, densely villous. Achenes narrowly ovate, 2–3 × 1.5 mm, pubescent; persistent style to 4.5 cm, plumose. Fl. Aug, fr. Aug–Sep.

• Mixed forests; ca. 800 m. SE Xizang (Mêdog Xian).

**81. *Clematis fulvicoma*** Rehder & E. H. Wilson in Sargent, Pl. Wilson. 1: 327. 1913.

滇南铁线莲 *dian nan tie xian lian*

Vines woody. Stems 4–5 m; branches shallowly 10–14-grooved, glabrescent. Leaves simple; petiole 6–11 cm; leaf blade ovate-orbicular, cordate, or ovate, 10–17 × 9–14.5 cm, subleathery, both surfaces glabrous and conspicuously reticulate, base broadly cuneate, rounded, or subcordate, margin entire, apex acuminate; basal veins 5–7, prominent. Cymes paniclelike; peduncle densely reddish brown puberulous; bracts subulate, ca. 5 mm. Flowers ca. 4.5 cm in diam. Pedicel 2–3 cm, densely reddish brown puberulous. Sepals 6, spreading to revolute, oblanceolate-linear, ca. 2.4 × 0.5 cm, abaxially reddish brown velutinous, adaxially brown velutinous, apex obtuse. Stamens 0.9–1.4 cm, glabrous; anthers narrowly oblong, 2–3 mm, apex with a ligulate ca. 1.5 mm apicula. Ovaries pubescent. Style ca. 6 mm, densely villous. Achenes rhombic-elliptic, 6–7 × ca. 3 mm, pubescent; persistent style 4–5 cm, yellowish plumose. Fl. Oct–Dec, fr. Jan–Feb.

Forests, scrub, along streams; 1000–1600 m. S Yunnan [India, Laos, Myanmar, N Thailand, Vietnam].

**82. *Clematis crassipes*** Chun & F. C. How, Acta Phytotax. Sin. 7: 3. 1958.

粗柄铁线莲 *cu bing tie xian lian*

Vines woody. Branches shallowly 8-grooved, glabrous. Leaves ternate, glabrous; petiole 3–8 cm; leaflet blades oblong-ovate to ovate, 7–10 × 3.5–9 cm, leathery, base truncate to rounded, margin entire or remote crenulate, apex acute to acuminate; basal veins abaxially prominent. Cymes axillary, 3–10-flowered; peduncle 1.5–2.5 cm, densely rusty puberulous or glabrous; bracts subulate, ca. 1.5 mm. Flowers ca. 6 cm in diam. Pedicel 4–10 cm, densely rusty puberulous or glabrous. Sepals 4 or 6, purple, spreading, oblong-ovate, ca. 3 × 1.5 cm, abaxially puberulous, adaxially glabrous, margin abaxially velutinous, apex ± obtuse. Stamens 1.2–1.3 cm, glabrous; anthers linear, ca. 7 mm, apex with a 1–5 mm apicula. Ovaries pubescent. Style ca. 1 cm, densely villous. Achenes narrowly rhombic, ca. 6 × 3 mm, pubescent; persistent style ca. 5 cm, plumose. Fl. May, fr. Jul.

• Dense forests in valleys, scrub on slopes; 400–500 m. S Guangxi, Hainan.

- 1a. Peduncles and pedicels glabrous;  
sepals 6 ..... 82a. var. *crassipes*  
1b. Peduncles and pedicels densely rusty  
puberulous; sepals 4 ..... 82b. var. *pubipes*

**82a. *Clematis crassipes* var. *crassipes***

粗柄铁线莲(原变种) cu bing tie xian lian (yuan bian zhong)

Peduncles and pedicels glabrous. Sepals 6.

• Scrub on slopes. SW Guangxi, Hainan.

**82b. *Clematis crassipes* var. *pubipes*** W. T. Wang, Acta Bot. Yunnan. 4: 135. 1982.

毛序粗柄铁线莲 mao xu cu bing tie xian lian

*Clematis pubipes* (W. T. Wang) W. T. Wang.

Peduncles and pedicels densely rusty puberulous.  
Sepals 4.

• Dense forests in valleys; 400–500 m. S Guangxi (Shangsi Xian), Hainan (Luodong Xian).

**83. *Clematis menglaensis*** M. C. Chang in W. T. Wang, Fl. Reipubl. Popularis Sin. 28: 360. 1980.

勐腊铁线莲 meng la tie xian lian

Vines woody. Branches shallowly 14-grooved, glabrous. Leaves 1- or 2-pinnate or 2-ternate, glabrous; petiole 6–10.5 cm; leaflet blades ovate to oblong-ovate, 2.5–7 × 1.2–4 cm, papery, base rounded, truncate, or subcordate, margin entire, apex acute to short acuminate; basal veins nearly flat. Cymes axillary, 7–14-flowered, often paniclelike, glabrous; peduncle 4–7.5 cm; bracts subulate, ca. 2 mm. Flowers 2–2.5 cm in diam. Pedicel 1.2–2 cm, glabrous. Sepals 4, white, spreading, oblong to obovate-oblong, ca. 8 × 4 mm, abaxially sparsely puberulous, adaxially glabrous, margin abaxially velutinous, apex acute. Stamens 6–7 mm, glabrous; anthers oblong, ca. 2 mm, apex with a conspicuous ca. 0.4 mm apicula. Ovaries glabrous. Style ca. 5 mm, densely villous. Fl. Oct–Nov.

Sparse forests, scrub; 800–1100 m. S Yunnan (Mengla Xian, Pingbian Miao Zu Zizhixian) [N Thailand].

**84. *Clematis pianmaensis*** W. T. Wang, Acta Bot. Yunnan. 6: 380. 1984.

片马铁线莲 pian ma tie xian lian

Vines woody. Branches shallowly 10-grooved, glabrous. Leaves pinnate, 5-foliolate, glabrous; petiole 4–8 cm; leaflet blades narrowly ovate to narrowly elliptic, 3–7.8 × 1.4–3.2 cm, papery, base broadly cuneate to rarely rounded, margin entire, apex acuminate to acute; basal veins flat. Cymes axillary or terminal, sparsely 5–9-flowered; peduncle ca. 10 cm, glabrous; bracts pinnate or simple. Flowers ca. 6 cm in diam. Pedicel 6.5–9 cm, glabrous. Sepals 4, yellow, spreading, lanceolate-oblong, 2.7–3.5 × 0.8–1 cm, abaxially densely yellowish velutinous, adaxially glabrous, apex ± acute. Stamens 1.1–2 cm, glabrous; anthers narrowly oblong, 1.6–2 mm, apex with a distinct, narrowly linear apicula

2.2–2.8 mm. Ovaries pubescent apically. Style 0.7–1.4 cm, densely villous. Fl. Sep.

• About 2200 m. NW Yunnan (Lushui Xian).

**85. *Clematis fengii*** W. T. Wang, Acta Phytotax. Sin. 38: 418. 2000.

国楣铁线莲 guo mei tie xian lian

Vines woody. Branches fistulose, shallowly 10–18-grooved, densely furfuraceous at nodes, elsewhere glabrous. Leaves pinnate, 7-foliolate; petiole ca. 7 cm, glabrous, base with stipulelike projections ca. 8 mm and abaxially densely furfuraceous; leaflet blades ovate, 4–6 × 2.2–4 cm, papery, both surfaces glabrous, base rounded, margin entire, apex acuminate; basal veins 5, abaxially nearly flat, adaxially inconspicuous. Cymes axillary, 3-flowered; peduncle 7.8–14 cm, glabrous; bracts caducous. Flowers ca. 5 cm in diam.; pedicel robust, 6–11 cm, glabrous. Sepals 4, white, spreading, oblong-lanceolate, 2.7–3.2 × 0.6–0.9 cm, abaxially densely fulvous furfuraceous-velutinous, adaxially glabrous, margin whitish velutinous, apex acute. Stamens unequal, glabrous; outer stamens ca. 2 cm, filaments linear, ca. 1.8 cm, anthers oblong, ca. 1.5 mm, connective projections subulate, 0.5–0.7 mm; inner stamens 0.7–1.1 cm, filaments 3.6–6.5 mm, anthers narrowly oblong, ca. 2 mm, connective projections ca. 1 mm. Ovaries densely pubescent; style ca. 8 mm, densely villous. Fl. Sep.

• Mixed forests; ca. 1500 m. SE Yunnan (Xichou Xian).

**86. *Clematis tashiroi*** Maximowicz, Bull. Acad. Imp. Sci. Saint-Petersbourg 32: 477. 1888.

长萼铁线莲 chang e tie xian lian

*Clematis longisepala* Hayata; *C. tozanensis* Hayata; *C. yingtulinia* S. S. Ying.

Vines woody. Branches shallowly 8–15-grooved, glabrous. Leaves pinnate, 5-foliolate, or ternate, glabrous; petiole 3.5–9.4 cm, base strongly dilated and connate to basally widened part of opposite petiole; leaflet blades ovate to narrowly so, 3–22 × 1.6–12 cm, papery, base rounded to subcordate, margin entire, apex acute to acuminate; basal veins abaxially ± prominent to nearly flat. Cymes axillary, (1–)3–8-flowered, glabrous; peduncle 1.5–6 cm; bracts petiolate, narrowly ovate to elliptic, 1.8–5.5 cm. Flowers 3–6 cm in diam. Pedicel 5.5–12 cm, glabrous. Sepals 4–6, dark purple, spreading, narrowly oblong, linear, or lanceolate-oblong, 1.8–3 × 0.4–0.8 cm, abaxially brown velutinous, adaxially glabrous, apex acute. Stamens unequal in length, outer ones 1–2.2 cm, inner ones 6–12 mm, glabrous; anthers narrowly oblong to linear, 2–3.5 mm, apex with a 0.5–1 mm apicula. Ovaries pubescent. Style 6–9 mm, densely villous. Achenes narrowly elliptic, 4–5 × 2–2.8 mm, sparsely appressed pubescent; persistent style 4–6 cm, plumose. Fl. Aug–Oct, fr. Oct–Jan.

Forest margins, slopes, along streams, beaches; below 100–2800 m. Taiwan [Japan (Ryukyu Islands), N Vietnam].

**87. Clematis loureiroana** de Candolle, Syst. Nat. 1: 144. 1817.

丝铁线莲 *si tie xian lian*

*Clematis filamentosa* Dunn.

Vines woody. Branches shallowly ca. 10-grooved, glabrous. Leaves ternate, glabrous; petiole 4–13 cm; leaflet blades ovate, broadly ovate, or lanceolate, 5–11 × 3.8–8 cm, papery, base subcordate, broadly cuneate, or rounded, margin entire, apex obtuse; basal veins abaxially ± prominent. Cymes axillary, usually sparsely 7–12-flowered; peduncle 0.5–5 cm, sparsely glabrous; bracts linear to subulate, 4–6 mm. Flowers 2–4 cm in diam. Pedicel 3–8 cm, densely puberulous. Sepals 4, white, spreading, narrowly ovate to ovate-lanceolate, 1–2 × 0.4–0.8 cm, abaxially densely appressed puberulous to velutinous, adaxially glabrous, apex ± acute. Outer stamens abortive, becoming staminodes, narrowly linear, 1–1.5 cm, glabrous; inner stamens fertile, 5–8 mm, glabrous; anthers narrowly oblong, 2–2.8 mm, apex with a lanceolate-linear 1.5–3 mm apicula. Ovaries pubescent. Style ca. 6.5 mm, densely villous. Achenes narrowly ovate to subfusiform, 6–10 × 1–2 mm, pubescent; persistent style 3–5 cm, plumose. Fl. Nov–Dec, fr. Jan–Feb.

Forests, scrub, along streams; 100–1600 m. Guangdong, Guangxi, Hainan [Vietnam].

**88. Clematis liboensis** Z. R. Xu, Acta Phytotax. Sin. 26: 150. 1988.

荔波铁线莲 *li bo tie xian lian*

Vines woody. Stems to 5 m, glabrous. Leaves simple, glabrous; petiole 3.7–7 cm; leaf blade broadly ovate, 4.5–10 × 3.5–6 cm, thick papery, base subcordate, margin denticulate, apex ± obtuse; basal veins prominent on both surfaces. Cymes racemelike, 5-flowered, glabrous; peduncle 3.5–5.5 cm; bracts foliaceous. Flowers ca. 7 cm in diam. Pedicel 5–10 cm. Sepals 6, white, spreading, narrowly oblong, 2.5–3.5 × 0.3–0.5 cm, abaxially reddish brown velutinous, adaxially glabrous, margin gray velutinous, apex obtuse. Outer stamens becoming staminodes, glabrous; outermost staminodes narrowly linear, slightly longer than sepals, 1–2 mm wide; inner staminodes linear, 1.2–1.5 cm; inner stamens fertile, ca. 1 cm, puberulous; anthers narrowly oblong, ca. 5 mm, apex apiculate. Ovaries puberulous. Style ca. 8 mm, densely villous. Fl. Apr.

• Forests on limestone hills; ca. 800 m. SE Guizhou (Libo Xian).

**89. Clematis pinnata** Maximowicz, Bull. Acad. Imp. Sci. Saint-Pétersbourg 22: 216. 1877.

羽叶铁线莲 *yu ye tie xian lian*

Vines woody. Branches shallowly 4–6-grooved, appressed puberulous, often glabrescent. Leaves pinnate and 5-foliolate, or ternate; petiole 3–11 cm;

leaflet blades ovate to broadly ovate, (2.5–)5–12 × (1.5–)3–7.5 cm, papery, 2- or 3-lobed or undivided, abaxially sparsely puberulous on veins and often laxly reticulate, adaxially sparsely appressed puberulous, base rounded to subcordate, margin dentate, apex acuminate; basal veins prominent. Cymes axillary or terminal, (5- to) many flowered, often paniclelike; peduncle 3–8 cm, puberulous; bracts triangular to elliptic, 3–10 mm, sometimes ternate and ca. 3 cm. Flowers 1.5–2 cm in diam. Pedicel 0.5–1.8(–3) cm, densely puberulous. Sepals 4, white, ascending, narrowly obovate-oblong, 12–19 × 3–5 mm, abaxially densely appressed puberulous, adaxially glabrous, margin abaxially velutinous, apex ± acute to obtuse. Stamens 7–9 mm; filaments glabrous or apically pilose; anthers linear, 2.5–3 mm, glabrous, apex minutely apiculate. Ovaries puberulous. Style 5 mm, densely villous. Fl. Jun–Aug.

• Scrub, slopes, montane regions; 700–1200 m. Beijing Shi, W Hebei.

1a. Leaves pinnate, 5-foliolate; filament

apex pilose or glabrous ..... 89a. var. *pinnata*

1b. Leaves ternate; filament apex

pilose ..... 89b. var. *ternatifolia*

**89a. Clematis pinnata** var. *pinnata*

羽叶铁线莲(原变种) *yu ye tie xian lian* (yuan bian zhong)

Leaves pinnate, 5-foliolate. Filament apex pilose or glabrous. Fl. Jul–Aug.

• Scrub, slopes; 700–1200 m. Beijing Shi, W Hebei.

**89b. Clematis pinnata** var. *ternatifolia* W. T. Wang, Acta Phytotax. Sin. 39: 331. 2001.

平谷铁线莲 *ping gu tie xian lian*

Leaves ternate. Filament apex pilose. Fl. Jun.

• Montane regions. Beijing Shi (Pinggu Xian).

**90. Clematis tatarinowii** Maximowicz, Mélanges Biol. Bull. Phys.-Math. Acad. Imp. Sci. Saint-Pétersbourg 9: 590. 1876.

细花铁线莲 *xi hua tie xian lian*

*Clematis pinnata* Maximowicz var. *tatarinowii* (Maximowicz) Kuntze.

Subshrubs erect. Branches shallowly 6-grooved, sparsely puberulous. Leaves 2-ternate or pinnate; petiole 4–6.5 cm; leaflet blades rhombic-ovate, rhombic, or ovate, 3.5–10 × 2–7.8 cm, herbaceous, undivided or 3-lobed, abaxially sparsely puberulous on midvein, adaxially sparsely appressed puberulous, base broadly cuneate, margin sparsely dentate, apex acuminate; basal veins abaxially prominent. Cymes axillary or terminal, 5–7-flowered; peduncle 3–4.8 cm; bracts linear-lanceolate to narrowly rhombic, 3–4 mm, undivided or 3-lobed. Flowers 0.9–1.1 cm in diam. Pedicel 1.2–3 cm, puberulous. Sepals 4, erect, obovate-oblong, 11–16 × 4–5 mm, abaxially densely appressed puberulous, adaxially glabrous, margin abaxially velutinous, apex ± obtuse. Stamens 8–10 mm; filaments with a few short hairs near apex; anthers narrowly oblong, 2–3 mm, abaxially with a few hairs on connective, apex obtuse or

obscurely minutely apiculate. Ovaries pubescent. Style ca. 4 mm, densely villous.

• Mountains. Beijing Shi.

**91. *Clematis heracleifolia*** de Candolle, Syst. Nat. 1: 138. 1817.

大叶铁线莲 da ye tie xian lian

*Clematis davidiana* Decaisne ex Verlot; *C. heracleifolia* var. *davidiana* (Decaisne ex Verlot) Kuntze; *C. heracleifolia* var. *ichangensis* Rehder & E. H. Wilson; *C. tubulosa* Turczaninow; *C. tubulosa* var. *davidiana* (Decaisne ex Verlot) Franchet.

Subshrubs or perennial herbs, 30–100 cm tall. Stems usually branched; branches 6–10-grooved, appressed puberulous, glabrescent. Leaves ternate; petiole 2.5–14 cm, puberulous; leaflet blades broadly ovate, pentagonal, suborbicular, elliptic, or ovate, 2.5–16 × 2.5–14 cm, papery, often 3-lobed, both surfaces appressed puberulous, glabrescent, abaxially often reticulate, base truncate, rounded, or broadly cuneate, margin incised to dentate, apex short acuminate to acute; basal veins abaxially prominent. Compound cymes terminal or axillary, 7- to many flowered, often paniclelike; peduncle 4–8 cm, densely puberulous; bracts petiolate, pentagonal to broadly ovate, 1–3.5 cm, 3-parted or -sect. Flowers polygamous, ca. 1.5 cm in diam. Pedicel 0.8–3.5 cm, densely puberulous to velutinous. Sepals 4, blue to purple, erect, narrowly oblong to spatulate-oblong, 1.5–2.4 × 0.3–0.7 cm, slightly widened toward apex, abaxially densely appressed sericeous-puberulous to velutinous, adaxially glabrous, apex obtuse and recurved. Stamens 0.9–1.1 cm; filaments apically with a few short hairs; anthers linear, 3.2–5 mm, abaxially pilose on connective, apex with a 0.2–0.5 mm apicula. Ovaries puberulous. Style 3–4 mm, densely villous. Achenes elliptic, 3–5 × 2–2.8 mm, puberulous; persistent style ca. 2.5 cm, plumose. Fl. Aug–Sep, fr. Oct.

Forest margins, scrub; 300–2000 m. Anhui, NE Guizhou, Hebei, Henan, Hubei, NW Hunan, Jiangsu, E Jilin, Liaoning, S Nei Mongol, Shaanxi, Shandong, Shanxi, NW Zhejiang [Korea].

**92. *Clematis psilandra*** Kitagawa, J. Jap. Bot. 13: 352. 1937.

光蕊铁线莲 guang rui tie xian lian

*Clematis heracleifolia* de Candolle var. *taiwanica* S. Suzuki & Hosokawa.

Shrubs small, erect, 50–120 cm tall. Branches finely grooved, puberulous, glabrescent. Leaves ternate; petiole 5.2–10 cm, velutinous, glabrescent; leaflet blades orbicular-ovate, ovate, or rhombic, 5–10 × 4–8 cm, thick papery, often 3-lobed, abaxially sparsely puberulous on veins and ± reticulate, adaxially glabrous, base subtruncate to broadly cuneate, margin dentate to denticulate, apex acuminate; basal veins abaxially prominent. Compound cymes terminal or axillary, often paniclelike, 7- to many flowered; peduncle 3.5–8.5 cm, velutinous; bracts narrowly ovate, 3–6 mm. Flowers polygamous dioecious, ca. 1 cm in diam. Pedicel 7–10 mm, velutinous. Sepals 4, pinkish, erect, narrowly

oblong, 1.4–2 × 0.4–1 cm, slightly widened toward apex, abaxially velutinous, adaxially glabrous, apex mucronate and recurved. Stamens 4–10 mm; filaments with a few short hairs near apex; anthers narrowly oblong, ca. 2.8 mm, glabrous or abaxially with a few hairs on connective, apex minutely apiculate. Ovaries pubescent. Style ca. 8 mm, densely villous. Achenes elliptic to ovate, ca. 3.5 × 2 mm, pubescent; persistent style ca. 2 cm, plumose. Fl. Jul–Sep, fr. Aug–Oct.

• Open slopes; 1000–2500 m. Taiwan.

**93. *Clematis tsugetorum*** Ohwi, Acta Phytotax. Geobot. 2: 153. 1933.

高山铁线莲 gao shan tie xian lian

Shrublets erect, 30–60 cm tall. Branches terete, shallowly 6-grooved, pubescent. Leaves pinnate, 5-foliolate, ternate, or sometimes simple; petiole 1–5 cm; leaflet blades broadly ovate, orbicular-ovate, or ovate, 1–3(–3.8) × 1–3 cm, thick papery, often 3-lobed, abaxially puberulous on veins, adaxially sparsely puberulous, base truncate, rounded, or broadly cuneate, margin denticulate, apex acute to short acuminate; basal veins abaxially prominent. Flowers polygamous, solitary, terminal, ca. 1 cm in diam. Pedicel 2–4 cm, densely puberulous. Sepals 4, bluish to purple, erect, narrowly oblong, 1–2 × 0.3–0.7 cm, slightly widened toward apex, abaxially densely puberulous, adaxially glabrous, apex mucronate and recurved. Stamens 5–10 mm; filaments pilose near apex; anthers narrowly oblong, ca. 2.5 mm, abaxially with a few hairs on connective, apex minutely apiculate. Ovaries pubescent. Style ca. 6 mm, densely villous, apically glabrous. Achenes elliptic, 4–5 × ca. 2 mm, pubescent; persistent style ca. 2.5 cm, plumose. Fl. Jul–Sep, fr. Aug–Oct.

• Limestone areas; 3400–3600 m. Taiwan.

**94. *Clematis lanuginosa*** Lindley, Paxton's Fl. Gard. 3: 107. 1853.

毛叶铁线莲 mao ye tie xian lian

*Clematis florida* Thunberg var. *lanuginosa* (Lindley) Kuntze.

Vines woody. Branches indistinctly 6-angulate, appressed pubescent. Leaves usually simple, rarely ternate; petiole 4–8 cm, pubescent; leaf blade narrowly ovate to cordate, 6–12 × 3–7.5 cm, papery, abaxially densely gray pubescent, adaxially sparsely pubescent, base cordate to rounded, margin entire, apex acuminate; basal veins abaxially prominent. Flowers solitary, terminal, 7–15 cm in diam. Pedicel 5–10 cm, densely pubescent. Sepals (5 or) 6, purplish, spreading, rhombic-elliptic to obovate-elliptic, 4–7 × 2–3.5(–4.5) cm, abaxially densely appressed pubescent along central longitudinal veins, adaxially glabrous, apex acuminate. Stamens 1.3–2 cm, glabrous; anthers linear, 6–10 mm, apex minutely apiculate. Ovaries pubescent. Style 7–10 mm, densely villous but apically glabrous. Achenes obdeltoid to rhombic, 4–5(–8) × 4(–6) mm,

appressed pubescent; persistent style 4–6 cm, yellow plumose. Fl. Jun–Jul, fr. Jul–Aug.

• Scrub, along streams in valleys; 100–400 m. E Zhejiang.

**95. *Clematis patens*** C. Morren & Decaisne, Bull. Acad. Roy. Sci. Bruxelles 3: 173. 1836.

转子莲 *zhuan zi lian*

Vines perennial, herbaceous. Stems to 1 m, shallowly longitudinally 5- or 6-grooved, sparsely pubescent. Leaves usually ternate, sometimes pinnate, 5-foliolate or simple; petiole 4–8 cm; leaflet blades ovate, narrowly ovate, or broadly lanceolate, 3–7 × 1.5–5 cm, papery, both surfaces sparsely pubescent on veins or adaxially glabrous, base rounded, truncate, broadly cuneate, or subcordate, margin entire, apex acuminate to acute; basal veins abaxially ± prominent. Flowers solitary, terminal, 7–12 cm in diam. Pedicel robust, 3.5–10 cm, pubescent. Sepals 5, 6, or 8, white, obovate to elliptic, 3.5–6 × 1.5–3.5 cm, abaxially appressed pubescent to puberulous along central basal veins and velutinous along lateral basal veins, adaxially glabrous, margin glabrous. Stamens 1.2–2 cm, glabrous; anthers linear, 6–8 mm, apex obtuse or apiculate. Ovaries pubescent. Style ca. 9 mm, densely villous from base to middle. Achenes broadly ovate, 3.5–5 × 3–4.5 mm, appressed pubescent; persistent style 3–3.8 cm, yellow plumose. Fl. May–Jun, fr. Jun–Jul.

Forests, slopes, scrub; 200–1000 m. Liaoning, E Shandong, E Zhejiang [Japan, Korea].

- 1a. Leaflet blades adaxially sparsely puberulous on veins; pedicel 4.6–10 cm; sepals 8 95a. var. *patens*  
1b. Leaflet blades adaxially glabrous; pedicel 3.5–4 cm; sepals 5 or 6 ..... 95b. var. *tientaiensis*

**95a. *Clematis patens* var. *patens***

转子莲(原变种) *zhuan zi lian* (*yuan bian zhong*)

Leaves ternate or pinnate, 5-foliolate; leaflet blades ovate to narrowly ovate, 3–7 × 1.5–5 cm, surfaces sparsely pubescent on veins. Flowers 7–12 cm in diam. Pedicel 4.6–10 cm. Sepals 8, obovate to narrowly obovate, 3.5–6 × 1.5–3 cm, abaxially appressed pubescent along central vein. Fl. May–Jun, fr. Jun–Jul.

Grassy slopes, scrub; 200–1000 m. Liaoning, E Shandong [Japan, Korea].

**95b. *Clematis patens* var. *tientaiensis*** (M. Y. Fang) W. T. Wang, Acta Phytotax. Sin. 36: 163. 1998.

天台铁线莲 *tian tai tie xian lian*

*Clematis patens* subsp. *tientaiensis* M. Y. Fang in W. T. Wang, Fl. Reipubl. Popularis Sin. 28: 358. 1980.

Leaves ternate or simple; leaflet narrowly ovate, broadly lanceolate, or ovate, 4.5–7 × 2–4 cm, adaxially glabrous. Flowers ca. 10 cm in diam. Pedicel 3.5–4 cm. Sepals 5 or 6, elliptic to narrowly elliptic, ca. 5 × 2–3.5 cm, abaxially appressed puberulous along central vein. Fl. Jun.

• Forests, scrub; ca. 1000 m. E Zhejiang.

**96. *Clematis hancockiana*** Maximowicz, Bull. Soc. Imp. Naturalistes Moscou 54(1): 1. 1879.

毛萼铁线莲 *mao e tie xian lian*

*Clematis florida* Thunberg var. *hancockiana* (Maximowicz) Courtois; *C. tsengiana* Metcalf.

Vines perennial, herbaceous. Stems shallowly longitudinally 4–6-grooved, sparsely pubescent, glabrescent; nodes swollen. Leaves usually pinnate, 5-foliolate, sometimes 1- or 2-ternate; petiole 4–7.5 cm, base ± dilated; leaflet blades narrowly ovate to ovate, 3–4.5 × 1.4–2.4 cm, papery, both surfaces sparsely pubescent on midvein, base broadly cuneate to rounded, margin entire, apex acute and apiculate; basal veins abaxially ± prominent to nearly flat. Cymes axillary, 1-flowered; peduncle 2–5 cm; bracts sessile, broadly ovate, 2.5–4 cm, undivided or 3-lobed, margin entire. Flowers 3–5 cm in diam. Pedicel 5–6.6 cm, pubescent. Sepals 4, purple-red to blue-purple, spreading, oblong to narrowly oblong, 1.5–2.5 × 0.5–0.7 cm, abaxially densely appressed pubescent, adaxially glabrous, margin abaxially velutinous, apex ± acute. Stamens 1–1.6 cm, glabrous; anthers linear, 6–7.2 mm, apex minutely apiculate. Ovaries pubescent. Style 8–10 mm, densely villous but puberulous near apex. Achenes rhombic-obovate, ca. 5 × 3.2 mm, pubescent; persistent style 3.5–5 cm, yellowish plumose. Fl. May, fr. Jun.

• Slopes, scrub; 100–500 m. SE Anhui, S Henan, E Hubei, S Jiangsu, N Jiangxi, E to N Zhejiang.

**97. *Clematis longistyla*** Handel-Mazzetti, Acta Horti Gothob. 13: 201. 1939–1940.

光柱铁线莲 *guang zhu tie xian lian*

Vines perennial, herbaceous. Stems shallowly 4–6-grooved, sparsely puberulous, glabrescent. Leaves 1- or 2-ternate or pinnate; petiole 1.8–4 cm; leaflet blades ovate, broadly ovate, or ovate-elliptic, 0.8–6 × 0.5–1.8(–3.2) cm, papery, abaxially sparsely puberulous, adaxially sparsely puberulous on veins, both surfaces ± reticulate, base rounded, cuneate, or subcordate, margin entire or to 3-denticulate on each side, apex acute to acuminate; basal veins abaxially prominent. Cymes axillary, 1-flowered; peduncle 2–8.5 cm; bracts shortly petiolate, ternate or simple, 3-parted or undivided. Flowers 3–9 cm in diam. Pedicel 3.5–11 cm, apically puberulous to subglabrous. Sepals (4 or)5 or 6, white, spreading, elliptic to narrowly elliptic, 2.7–4.8 × 0.8–2.8 cm, abaxially densely velutinous along midvein, adaxially glabrous, margin glabrous, apex acute. Stamens 0.6–1.8 cm, glabrous; anthers linear, 3–4.8(–6) mm, apex minutely apiculate. Ovaries pubescent. Style 5–7.5 mm, basally densely brownish villous, apically glabrous. Fl. May.

• Slopes, along streams; ca. 500 m. S Henan, NW Hubei.

**98. *Clematis courtoisii*** Handel-Mazzetti, Acta Horti Gothob. 13: 200. 1939–1940.

大花威灵仙 *da hua wei ling xian*

Vines perennial, herbaceous. Stems shallowly longitudinally 5-grooved, sparsely pubescent, often glabrescent; nodes swollen. Leaves 1- or 2-ternate, or pinnate; petiole 3–7 cm, base ± dilated; leaflet blades elliptic, narrowly ovate, or ovate, 3–6.5 × 1.4–2 cm, papery, undivided or sometimes 3-lobed, both surfaces sparsely pubescent on veins, abaxially ± reticulate, base broadly cuneate, rounded, or truncate, margin entire, apex acuminate to acute; basal veins abaxially prominent. Cyme axillary, 1-flowered; peduncle 2.5–7 cm; bracts shortly petiolate, ovate to broadly ovate, 3.4–6.2 cm, margin entire. Flowers 5–9.5 cm in diam. Pedicel 3.4–6.8 cm, densely puberulous. Sepals 6, white or tinged purplish, long elliptic to elliptic, 2.7–5 × 1–2.3 cm, abaxially sparsely pubescent along central vein and velutinous along lateral veins, adaxially glabrous, margin glabrous, apex acute. Stamens 0.8–1.7 cm, glabrous; anthers linear, 4.5–6 mm, apex minutely apiculate or ± obtuse. Ovaries pubescent. Style ca. 4 mm, densely yellowish villous. Achenes obovate, 3.5–4.5 × 2–4 mm, sparsely pubescent; persistent style 1.2–3 cm, yellow plumose. Fl. May–Jun, fr. Jun–Jul.

• Forests, slopes, along streams; 200–500 m. Anhui, SE Henan, E Hubei, E Hunan, S Jiangsu, N Zhejiang.

**99. *Clematis florida*** Thunberg in Murray, Syst. Veg., ed. 14, 512. 1784.

铁线莲 tie xian lian

Vines perennial, herbaceous. Stems to 1 m, shallowly 4–6-grooved, puberulous; nodes swollen. Leaves 1- or 2-ternate; petiole 2–4 cm; leaflet blades narrowly ovate to lanceolate, 1–6 × 0.4–2 cm, papery, both surfaces very sparsely puberulous to subglabrous, base rounded to broadly cuneate, margin entire, apex acute; basal veins abaxially nearly flat. Cymes axillary, 1-flowered; peduncle 1–4 cm; bracts sessile or subsessile, broadly ovate to ovate-triangular, 1.4–3 cm. Flowers 3.6–5 cm in diam. Pedicel 3.7–8.5 cm, densely puberulous. Sepals 6, white, obovate to rhombic-obovate, 2–3 × 1–1.5 cm, abaxially densely velutinous along midvein, adaxially glabrous, margin glabrous, apex acute. Stamens if fertile 4–8 mm, glabrous; anthers oblong to linear, 2.5–3.5 mm, apex obtuse. Stamens if becoming staminodes 1–1.2 cm, glabrous, apex attenuate. Ovaries puberulous. Style ca. 3.5 mm, densely pubescent from base to middle, glabrous apically from middle; stigma dilated. Achenes broadly obovate to rhombic-orbicular, ca. 3.5 × 3 mm, puberulous; persistent style ca. 8 mm, basally spreading puberulous, apically glabrous. Fl. Apr–Jun.

• Scrub, thickets, along streams; ca. 1700 m. Guangdong, N Guangxi, Hubei, Hunan, W Jiangxi, SW Yunnan, Zhejiang.

1a. Stamens normally developed ..... 99a. var. *florida*

1b. Stamens all becoming petaloid staminodes ..... 99b. var. *plena*

**99a. *Clematis florida* var. *florida***

铁线莲(原变种) tie xian lian (yuan bian zhong)

*Atragene florida* Persoon; *Clematis bracteata* (Roxburgh) Kurz var. *leptomera* (Hance) Kuntze; *C. japonica* Thunberg var. *simsii* Makino; *C. leptomera* Hance.

Stamens normally developed, differentiated into filaments and anthers. Fl. Apr–Jun.

• Scrub, along streams in hilly areas. Guangdong, N Guangxi, Hubei, Hunan, W Jiangxi.

**99b. *Clematis florida* var. *plena*** D. Don in Sweet, Brit. Fl. Gard. 7: t. 396. 1838.

重瓣铁线莲 chong ban tie xian lian

Stamens all becoming petaloid staminodes, white or greenish, narrowly lanceolate, 1–1.2 cm, glabrous, apex attenuate. Fl. May–Jun.

• Thickets, along streams; ca. 1700 m. SW Yunnan, Zhejiang.

**100. *Clematis cadmia*** Buchanan-Hamilton ex J. D. Hooker & Thomson, Fl. Ind. 1: 5. 1855.

短柱铁线莲 duan zhu tie xian lian

*Clematis bracteata* (Roxburgh) Kurz; *C. stonachii* Hance; *Thalictrum bracteatum* Roxburgh.

Vines perennial, herbaceous. Branches shallowly 5-grooved, sparsely puberulous or glabrous. Leaves 2-ternate or pinnate; petiole 2–5.5 cm, puberulous to subglabrous; leaflet blades narrowly ovate, ovate, or lanceolate, 1.5–5 × 0.6–2 cm, papery, undivided or sometimes 3-lobed, both surfaces sparsely puberulous only on midvein, base broadly cuneate to rounded, margin entire, apex attenuate, acuminate, or acute; basal veins nearly flat on both surfaces. Cymes axillary, 1-flowered; peduncle 1.2–1.8 cm, apically puberulous; bracts ovate to broadly ovate, 0.7–4.5 cm. Flowers 3.5–6 cm in diam. Pedicel 3.5–7 cm, sparsely puberulous to subglabrous. Sepals 5 or 6, white or purplish, spreading, obovate to narrowly obovate, 2–3 × 1–1.6 cm, abaxially puberulous, adaxially glabrous, apex ± acute. Stamens 5–10 mm, glabrous; anthers linear, 4–5 mm, apex minutely apiculate. Ovaries appressed puberulous. Style 1–2 mm, puberulous, apex often circinnate. Achenes rhombic to narrowly elliptic, 5–7 × 3–4 mm, sparsely appressed puberulous; persistent style 1–3 mm, densely appressed puberulous. Fl. Apr–May, fr. Jun–Jul.

Grassy areas, along streams; ca. 100 m. Anhui, Guangdong, Hubei, S Jiangsu, N Jiangxi, N Zhejiang [India, Vietnam].

**101. *Clematis huchouensis*** Tamura, Acta Phytotax. Geobot. 23: 36. 1968.

吴兴铁线莲 wu xing tie xian lian

Vines perennial, herbaceous. Stems shallowly 5- or 6-grooved, appressed puberulous to subglabrous, branched. Leaves pinnate, sometimes ternate; petiole 1.7–3 cm; leaflet blades ovate, ovate-elliptic, or elliptic-lanceolate, 1–5 × 0.2–3 cm, thin papery to herbaceous, 2- or 3-lobed or undivided, abaxially densely appressed puberulous, adaxially sparsely puberulous on veins, base broadly cuneate, rounded, or subcordate, margin entire, apex obtuse, ± acute, or rounded; basal veins abaxially nearly flat and inconspicuous. Cymes axillary, 1–3-flowered; peduncle 2–6.5 cm; bracts ovate to broadly ovate, 2–3 cm, undivided or 3-lobed. Flowers

2–3 cm in diam. Pedicel 1.2–3 cm, puberulous. Sepals 4, white, ascending, oblong to oblong-lanceolate, 1.4–2.2 × 0.3–0.6 cm, ± widened near apex, abaxially densely appressed puberulous, adaxially glabrous, apex obtuse and reflexed. Stamens 4.5–5.5 mm, glabrous; anthers linear to narrowly oblong, 2.5–3.2 mm, apex with a 0.3–0.5 mm apicula. Ovaries puberulous. Style 6–7 mm, densely appressed pubescent. Achenes broadly elliptic to broadly ovate, 4–6 × 4–5.5 mm, appressed puberulous; persistent style subulate, 0.8–1.3 cm, appressed yellowish pubescent. Fl. Jun–Aug, fr. Oct.

• Grassy areas, along lake banks; ca. 100 m. N Hunan (Huarong Xian), S Jiangsu, N Jiangxi (Xingzi Xian), N Zhejiang.

**102. Clematis chiupenhensis** M. Y. Fang in W. T. Wang, Fl. Reipubl. Popularis Sin. 28: 353. 1980.

丘北铁线莲 *qiu bei tie xian lian*

Vines woody. Branches shallowly 8-grooved, yellowish puberulous. Leaves simple; petiole 4–9 cm; leaf blade broadly ovate to suborbicular, 9–14 × 8–11.8 cm, papery, abaxially densely puberulous, adaxially sparsely pubescent to subglabrous, base rounded-cuneate to truncate, margin unequally dentate, apex caudate-acuminate; basal veins abaxially ± prominent. Cymes axillary or terminal, 1–11-flowered; peduncle 1–4.3 cm, spreading puberulous; bracts linear-lanceolate, 2–3 cm. Flowers ca. 8 mm in diam. Pedicel 1.5–4 cm, puberulous. Sepals 4, greenish, erect, long elliptic to ovate-lanceolate, ca. 12 × 3–4 mm, abaxially densely appressed puberulous, adaxially sparsely puberulous only near apex, apex ± acute. Stamens ca. 9 mm; filaments densely pubescent; anthers narrowly oblong, ca. 2 mm, glabrous, apex obtuse. Ovaries puberulous. Style ca. 9 mm, densely villous. Achenes narrowly ovate, ca. 3 × 1.4 mm, puberulous; persistent style 2–2.5 cm, plumose. Fl. Dec, fr. Apr.

• Sparse forests; 1500–2000 m. Yunnan (Qiubei Xian, Shuangbai Xian).

**103. Clematis henryi** Oliver, Hooker's Icon. Pl. 19: t. 1819. 1889.

单叶铁线莲 *dan ye tie xian lian*

Vines woody. Branches shallowly 4–10-grooved, sparsely puberulous. Leaves simple, occasionally some 2- or 3-sect; petiole 2–6.5 cm; leaf blade ovate-lanceolate, narrowly ovate, or lanceolate, 5.5–16 × (1–)3–7.5 cm, thick papery, abaxially sparsely appressed puberulous only on veins or ± densely appressed puberulous on entire surface, adaxially subglabrous to sparsely short strigose, margin denticulate, apex acuminate to caudate-acuminate; basal veins abaxially prominent. Cymes axillary, 1(–5)-flowered; peduncle 4–15 mm; bracts subulate and 1.2–3 mm, rarely lanceolate and ca. 8 mm. Flowers 1–2 cm in diam. Pedicel 2–4 cm, glabrous, rarely puberulous. Sepals 4, white or yellowish, erect, ovate-oblong to ovate, 1.4–1.9(–2.5) × 0.4–0.8(–1.2) cm, abaxially puberulous only near apex, adaxially sparsely puberulous to subglabrous near margin, apex acute. Stamens 0.9–1.5 cm; filaments densely villous; anthers narrowly oblong

to oblong, 1.8–3 mm, glabrous, apex obtuse. Ovaries puberulous. Style 0.8–1.2 cm, densely villous. Achenes narrowly ovate, ca. 3 × 1.2 mm, puberulous; persistent style ca. 4 cm, plumose. Fl. Oct–Feb, fr. Mar–Apr.

• Forests, forest margins, shady slopes, scrub, along streams; 200–2500 m. S Anhui, Fujian, N Guangdong, Guangxi, Guizhou, Hubei, Hunan, S Jiangsu, Jiangxi, S Shaanxi, Sichuan, Taiwan, Yunnan, Zhejiang.

1a. Leaves undivided or 2- or 3-sect 103c. var. *ternata*

1b. Leaves all undivided.

2a. Leaf blade abaxially sparsely appressed puberulous only on veins ..... 103a. var. *henryi*

2b. Leaf blade abaxially ± densely appressed puberulous on entire surface 103b. var. *mollis*

**103a. Clematis henryi** var. *henryi*

单叶铁线莲(原变种) *dan ye tie xian lian (yuan bian zhong)*

*Clematis hayatae* Kudo & Masamune; *C. henryi* var. *leptophylla* Hayata.

Leaves simple, occasionally some leaves ternate; leaf blade abaxially sparsely appressed puberulous only on veins.

• Forests, forest margins, shady slopes, scrub, along streams; 200–2500 m. S Anhui, Fujian, N Guangdong, Guangxi, Guizhou, Hubei, Hunan, S Jiangsu, Jiangxi, S Shaanxi, Sichuan, Taiwan, Yunnan, Zhejiang.

**103b. Clematis henryi** var. *mollis* W. T. Wang, Bull. Bot. Res., Harbin 7(2): 99. 1987.

毛单叶铁线莲 *mao dan ye tie xian lian*

Leaves all simple; leaf blade abaxially ± densely appressed puberulous on entire surface.

• Forests and scrub in valleys; 400–500 m. Guizhou, SW Hubei, NW Hunan.

**103c. Clematis henryi** var. *ternata* M. Y. Fang in W. T. Wang, Fl. Reipubl. Popularis Sin. 28: 353. 1980.

陕南单叶铁线莲 *shan nan dan ye tie xian lian*

Leaves simple, undivided or 2- or 3-sect; terminal leaf blade segment short petiolate, ovate-oblong to oblong-lanceolate; lateral leaf blade segments sessile or subsessile, obliquely narrowly ovate, smaller than terminal segment, abaxially subglabrous. Fl. Nov.

• Slopes; ca. 1500 m. S Shaanxi (Chenggu Xian).

**104. Clematis jingdungensis** W. T. Wang, Acta Bot. Yunnan. 4: 133. 1982.

多花铁线莲 *duo hua tie xian lian*

Vines woody. Branches shallowly 8-grooved, puberulous. Leaves ternate, rarely simple; petiole 0.8–6.8 cm, densely puberulous; leaf blades thick papery, abaxially ± densely puberulous, adaxially sparsely puberulous only on veins, both surfaces conspicuously reticulate; basal veins abaxially prominent; leaflet blades of ternate leaves elliptic to elliptic-ovate, (3–)6–10.8 × (1.7–)3.5–7.2 cm, base rounded, subcordate, or broadly cuneate, margin entire or sparsely denticulate,

apex acuminate; leaf blade of simple leaves cordate-ovate, 10.5–12.5 × 7.8–8.8 cm, base cordate, margin entire, apex short acuminate. Cymes axillary, (3–)6–25-flowered; peduncle 1–8.2 cm, densely puberulous; bracts narrowly ovate to elliptic and 1.1–3.3 cm or linear to subulate and 2.5–8 mm. Flowers ca. 1 cm in diam. Pedicel 0.5–2.5 cm, densely puberulous. Sepals 4, white, erect, lanceolate-oblong, 10–18 × 2–5 mm, abaxially densely appressed puberulous, adaxially sparsely puberulous near apex, margin abaxially velutinous, apex acute. Stamens as long as sepals; filaments densely villous; anthers narrowly oblong, 3.8–4 mm, glabrous, apex obtuse. Ovaries puberulous. Style ca. 9 mm, densely villous. Fl. Jan–Jun, fr. Feb.

• Forest margins, scrub; 1700–2200 m. CW to S Yunnan.

**105. *Clematis siamensis*** J. R. Drummond & Craib, Bull. Misc. Inform. Kew 1915: 420. 1915.

锡金铁线莲 xi jin tie xian lian

Vines woody. Branches shallowly 8-grooved, glabrous or sparsely puberulous. Leaves all ternate or distal ones simple; petiole 5–7 cm, base sparsely puberulous; leaflet blades ovate to narrowly ovate, 5.5–13 × 2.2–6.5 cm, papery, abaxially glabrous, adaxially sparsely puberulous near base, both surfaces reticulate, base rounded, margin entire, apex acuminate; basal veins abaxially prominent. Cymes axillary, often paniclelike, 1- to many flowered, glabrous; peduncle 4–5.5 cm; bracts linear, 4–7 mm. Flowers ca. 1 cm in diam. Pedicel 1.5–3.2 cm, glabrous or puberulous. Sepals 4, white, erect, oblong-lanceolate, ca. 15 × 4–5 mm, abaxially puberulous or densely so, or glabrous except for velutinous margin, adaxially puberulous only near obtuse and recurved apex. Stamens ca. 1.4 cm; filaments densely villous; anthers narrowly oblong, 2.5–3 mm, glabrous, apex obtuse. Ovaries pubescent. Style ca. 1 cm, densely villous. Fl. Oct–Dec, fr. Mar.

Forests, along streams; 1000–2400 m. SE Xizang, C and W Yunnan [Bhutan, NE India, N Myanmar, E Nepal, Sikkim, N Thailand].

1a. Proximal leaves ternate, distal ones simple; cymes 1-flowered ..... 105c. var. *monantha*

1b. All leaves ternate; cymes 3- to many flowered.

2a. Sepals abaxially glabrous except for velutinous margin; cymes (3–)7- to many flowered . 105a. var. *siamensis*

2b. Sepals abaxially densely puberulous; cymes 3–9-flowered ... 105b. var. *clarkei*

**105a. *Clematis siamensis* var. *siamensis***

锡金铁线莲(原变种) xi jin tie xian lian (yuan bian zhong)

*Clematis acuminata* de Candolle subsp. *sikkimensis* (J. D. Hooker & Thomson) Brühl; *C. acuminata* var. *hirtella* Handel-Mazzetti; *C. acuminata* var. *multiflora* H. F. Comber; *C. acuminata* de Candolle var. *sikkimensis* J. D. Hooker & Thomson; *C. minggangiana* W. T. Wang; *C. multiflora* (H. F. Comber) W. T. Wang;

*C. sikkimensis* (J. D. Hooker & Thomson) J. R. Drummond ex Burkill.

All leaves ternate. Cymes (3–)7- to many flowered. Sepals abaxially glabrous except for velutinous margin. Fl. Dec, fr. Mar.

Along streams; ca. 2400 m. SE Xizang (Médog Xian), C and W Yunnan [Bhutan, NE India, N Myanmar, E Nepal, Sikkim, N Thailand].

**105b. *Clematis siamensis* var. *clarkei*** (Kuntze) W. T. Wang, Acta Phytotax. Sin. 39: 11. 2001.

毛萼锡金铁线莲 mao e xi jin tie xian lian

*Clematis acuminata* de Candolle var. *clarkei* Kuntze, Verh. Bot. Vereins Prov. Brandenburg, 26: 167. 1885;

*C. sikkimensis* var. *clarkei* (Kuntze) W. T. Wang.

All leaves ternate. Cymes 3–9-flowered. Sepals abaxially densely puberulous. Fl. Oct.

Forests; ca. 1000 m. SE Xizang, NW Yunnan [N Myanmar, Sikkim, N Thailand].

**105c. *Clematis siamensis* var. *monantha*** (W. T. Wang & L. Q. Li) W. T. Wang & L. Q. Li in W. T. Wang, Acta Phytotax. Sin. 39: 11. 2001.

单花锡金铁线莲 dan hua xi jin tie xian lian

*Clematis sikkimensis* var. *monantha* W. T. Wang & L. Q. Li in W. T. Wang et al., Acta Phytotax. Sin. 37: 218. 1999.

Proximal leaves ternate, distal ones simple. Cymes 1-flowered. Sepals abaxially puberulous. Fl. Nov.

• Along streams in forests. NW Yunnan (Weixi Lisu Zu Zizhixian).

**106. *Clematis urophylla*** Franchet, Bull. Mens. Soc. Linn. Paris 1: 433. 1884.

尾叶铁线莲 wei ye tie xian lian

*Clematis japonica* Thunberg var. *urophylla* (Franchet) Kuntze; *C. urophylla* var. *obtusiuscula* C. K. Schneider.

Vines woody. Branches shallowly 4–8-grooved, puberulous. Leaves ternate; petiole 2.5–6 cm; leaflet blades ovate to ovate-lanceolate, 5–10 × 2–5 cm, papery, both surfaces sparsely appressed puberulous, base broadly cuneate, rounded, or subcordate, margin denticulate to sometimes subentire, apex acuminate; basal veins abaxially ± prominent. Cymes axillary, 1–3(–5)-flowered; peduncle 0.3–3.5 cm, sometimes nearly absent, glabrous or puberulous; bracts short petiolate, ovate, and 1.4–3 cm or subulate and ca. 2 mm. Flowers 1.6–3 cm in diam. Pedicel 1.8–4 cm, densely puberulous. Sepals 4, white, suberect, oblong to ovate-oblong, 2–2.8 × 0.6–0.9 cm, abaxially appressed puberulous, adaxially puberulous only near apex, margin abaxially velutinous, apex ± acute. Stamens 0.9–1.6 cm; filaments villous; anthers narrowly oblong to oblong, 1.5–3 mm, glabrous, apex obtuse. Ovaries pubescent. Style 0.8–1.2 cm, densely villous. Achenes fusiform, 3–4 × ca. 2 mm, puberulous; persistent style 4.5–5 cm, plumose. Fl. Nov–Dec, fr. Mar–Apr.

• Forests, slopes, scrub; 400–2000 m. N Guangdong, N Guangxi, Guizhou, SW Hubei, Hunan, Sichuan.

**107. *Clematis kockiana*** C. K. Schneider, Bot. Gaz. 63: 518. 1917.

滇川铁线莲 dian chuan tie xian lian

*Clematis yunnanensis* Franchet var. *brevipedunculata* W. T. Wang; *C. yunnanensis* var. *chingtungensis* M. Y. Fang.

Vines woody. Branches shallowly 6–8-grooved, puberulous, often glabrescent. Leaves ternate; petiole 2–6 cm; leaflet blades narrowly ovate to broadly lanceolate, 5–12 × 1.5–5 cm, papery, both surfaces sparsely puberulous, base rounded, margin denticulate, apex acuminate; basal veins abaxially ± prominent. Cymes axillary, 1–7-flowered; peduncle 0.2–3.5 cm, appressed puberulous; bracts narrowly triangular to linear, 3–8 mm. Flowers 1.2–1.5 cm in diam. Pedicel 1–3 cm, densely appressed puberulous. Sepals 4, white or yellowish, erect, ovate-oblong, 12–17 × 4–6 mm, abaxially densely puberulous, adaxially glabrous, margin abaxially velutinous, apex acute. Stamens as long as sepals; filaments densely villous; anthers oblong, 1.5–2 mm, glabrous, apex obtuse. Ovaries puberulous. Style 7–10 mm, densely villous. Achenes elliptic, ca. 3 × 1.4 mm, puberulous; persistent style to 3 cm, plumose. Fl. Oct–Nov, fr. Apr–May.

• Forests, slopes, along streams; 1600–3000 m. W Guangxi, W Guizhou, SW Sichuan, E Xizang, Yunnan.

**108. *Clematis teretipes*** W. T. Wang, Acta Phytotax. Sin. 39: 331. 2001.

柱梗铁线莲 zhu geng tie xian lian

Vines woody. Stems to 8 m; branches indistinctly 8-angulate, sparsely puberulous near nodes, elsewhere glabrous. Leaves ternate; petiole 6–6.8 cm, adaxially sparsely puberulous; leaflet blades oblong-elliptic, 8.5(–11) × 3(–5.8) cm, papery, both surfaces sparsely puberulous on basal veins, base obtuse or rounded, margin minutely 3–5-denticulate on each side, apex attenuate or acuminate; basal veins abaxially slightly prominent. Cymes axillary, ca. 5-flowered; peduncle robust, 1–9 cm × ca. 2 mm, usually densely appressed puberulous; bracts triangular, ca. 3 mm, densely puberulous. Flowers 1.5–2 cm in diam.; pedicel robust, 8–18 mm × ca. 2 mm, yellowish velutinous, apex thickened. Sepals 4, white, erect, oblong or ovate-oblong, 17–19 × 7–8 mm, abaxially densely appressed puberulous, adaxially glabrous, margin velutinous, apex acute. Stamens ca. 15 mm; filaments narrowly linear, slightly dilated above base, villous; anthers narrowly oblong, 3–3.6 mm, glabrous, apex obtuse. Ovaries densely puberulous; style ca. 11 mm, densely villous. Achenes compressed, narrowly ovate or long elliptic, 3–4 × 1.2–1.5 mm, puberulous, indistinctly narrowly marginate, apex attenuate; persistent style 2.5–3.9 cm, plumose. Fl. Mar–Apr, fr. Apr.

• Mountain slopes; ca. 2100 m. S Sichuan (Leibo Xian).

**109. *Clematis jinzhaiensis*** Z. W. Xue & X. W. Wang, Acta Phytotax. Sin. 24: 406. 1986.

金寨铁线莲 jin zhai tie xian lian

Vines woody. Branches shallowly grooved, sparsely puberulous at nodes, elsewhere glabrous. Leaves ternate; petiole 3–5 cm, adaxially puberulous; leaflet blades ovate, 3.6–10 × 2–5 cm, papery, both surfaces sparsely puberulous, base rounded or subcordate, margin irregularly dentate, apex acuminate; basal veins abaxially slightly prominent. Cymes axillary, 1–3-flowered; peduncle 0.9–1.6 cm, subglabrous; bracts linear, 6–12 mm. Flowers ca. 1 cm in diam.; pedicel 2–3 cm, subglabrous. Sepals 4, purple, erect, oblong or lanceolate, ca. 16 × 5 mm, abaxially sparsely puberulous near base and apex, adaxially glabrous, margin velutinous, apex obtuse. Stamens slightly shorter than or equaling sepals; filaments densely villous; anthers narrowly oblong, ca. 2.2 mm, abaxially villous on connective, apex obtuse. Ovaries puberulous; style ca. 8 mm, densely villous. Fl. Sep.

• Forests; ca. 800 m. W Anhui (Jinzhai Xian).

**110. *Clematis clarkeana*** H. Léveillé & Vaniot, Bull. Acad. Int. Géogr. Bot. 11: 170. 1902.

平坝铁线莲 ping ba tie xian lian

*Clematis anshunensis* M. Y. Fang.

Vines woody. Branches terete, smooth, glabrous or only sparsely puberulous on nodes. Leaves ternate; petiole 2–5 cm; leaflet blades ovate, elliptic, or narrowly ovate, 5–10 × 2–4 cm, papery, both surfaces glabrous or only midvein sparsely puberulous on one or both surfaces, base rounded to broadly cuneate, margin denticulate, apex caudate-acuminate to acuminate; basal veins abaxially ± prominent. Cymes axillary, 1–3-flowered; peduncle 0.9–1.3 cm, glabrous; bracts lanceolate-linear to narrowly triangular, 2–2.8 mm, glabrous. Flowers ca. 1 cm in diam. Pedicel 2–3.8 cm, glabrous. Sepals 4, white, erect, oblong, 12–15(–18) × 4–5 mm, both surfaces glabrous except for velutinous abaxial margin. Stamens 0.9–1.1 cm; filaments villous; anthers narrowly oblong, 2.2–2.5 mm, glabrous, apex obtuse. Ovaries pubescent. Style ca. 5.5 mm, densely villous. Fl. Oct–Nov.

• Forests, open slopes; ca. 2000 m. S Guizhou.

**111. *Clematis qingchengshanica*** W. T. Wang, Acta Bot. Yunnan. 6: 379. 1984.

青城山铁线莲 qing cheng shan tie xian lian

Vines woody. Branches shallowly ca. 8-grooved, sparsely appressed puberulous. Leaves ternate; petiole 4.5–7 cm, subglabrous; leaflet blades oblong-ovate to oblong, 6–12 × 2.6–4.5 cm, papery, both surfaces glabrous, abaxially reticulate, base rounded to broadly cuneate, margin entire, apex acuminate to caudate; basal veins abaxially prominent. Cymes axillary, 1-flowered; peduncle 3–4 mm; bracts linear-triangular, ca. 2 mm. Flowers 1.6–2 cm in diam. Pedicel 1–2 cm, densely puberulous. Sepals 4, greenish white, erect, ovate-oblong, 1.5–1.7 × 0.6–0.8 cm, abaxially very densely yellowish puberulous, adaxially glabrous, apex ± acute. Stamens ca. 1 cm; filaments densely villous;

anthers oblong, 2.8–3 mm, glabrous, apex obtuse. Ovaries pubescent. Style ca. 9 mm, densely villous. Fl. Nov–Dec.

• Forests; 700–1400 m. W Sichuan (Qingcheng Shan, Guan Xian).

**112. *Clematis nukiangensis*** M. Y. Fang in W. T. Wang, Fl. Reipubl. Popularis Sin. 28: 353. 1980.

怒江铁线莲 nu jiang tie xian lian

Vines woody. Branches glabrous. Leaves ternate; petiole 4–8 cm; leaflet blades elliptic, narrowly obovate-elliptic, or ovate-oblong, 5–8 × 2–4 cm, leathery, abaxially sparsely pubescent only on midvein, adaxially glabrous, base broadly cuneate, margin entire, apex short acuminate; basal veins abaxially prominent. Cymes axillary, 1-flowered; peduncle nearly absent; bracts ovate, ca. 2 mm. Flowers ca. 1.2 cm in diam. Pedicel 2–3 cm, glabrous. Sepals 4, white, tinged purplish red at base, erect, ovate-oblong, ca. 1.5 × 0.5 cm, both surfaces sparsely puberulous to subglabrous, margin abaxially velutinous, apex ± acute. Stamens nearly as long as sepals; filaments densely villous; anthers narrowly oblong, 2–3 mm, glabrous, apex obtuse. Ovaries pubescent. Style ca. 1 cm, densely villous. Fl. Dec.

• Scrub on shady slopes; ca. 2700 m. NW Yunnan (Bijiang Xian).

**113. *Clematis acuminata*** de Candolle var. **longicaudata** W. T. Wang, Bull. Bot. Res., Harbin 9(2): 7. 1989.

长尾尖铁线莲 chang wei jian tie xian lian

Vines woody. Branches sparsely puberulous. Leaves ternate; petiole 4–6 cm; leaflet blades ovate-lanceolate to narrowly ovate, 7–12 × 2–5 cm, subleathery, both surfaces subglabrous and conspicuously reticulate, base rounded, margin entire, apex caudate; basal veins abaxially prominent. Cymes axillary, ca. 3-flowered; peduncle 1–2 cm, glabrous; bracts small, subulate. Flowers ca. 7 mm in diam. Pedicel 1–2 cm. Sepals 4, yellow, erect, ovate-oblong, 1.4–1.7 × 0.5 cm, abaxially appressed puberulous, adaxially sparsely puberulous only near apex, margin abaxially velutinous, apex attenuate. Stamens 1–1.4 cm; filaments densely pubescent; anthers narrowly oblong, 2.2–3 mm, glabrous, apex obtuse. Ovaries puberulous. Style ca. 1 cm, densely villous. Fl. Dec.

• Yunnan (Binchuan Xian).

*Clematis acuminata* var. *acuminata* occurs in the Himalayas.

**114. *Clematis yunnanensis*** Franchet, Bull. Soc. Bot. France 33: 361. 1886.

云南铁线莲 yun nan tie xian lian

*Clematis angustifoliola* W. T. Wang; *C. clarkeana* H. Léveillé & Vaniot var. *stenophylla* Handel-Mazzetti; *C. subfalcata* C. Pei ex M. Y. Fang; *C. subfalcata* var. *pubipes* W. T. Wang; *C. subfalcata* var. *stenophylla* (Handel-Mazzetti) W. T. Wang.

Vines woody. Branches shallowly 6–8-grooved, subglabrous or puberulous. Leaves ternate; petiole 3.5–7 cm; leaflet blades linear-lanceolate or lanceolate, 4.5–14 × 0.6–2.5 cm, papery, both surfaces glabrous or sparsely puberulous, base rounded or broadly cuneate,

margin entire or minutely denticulate, apex attenuate or caudate-acuminate; basal veins abaxially prominent. Cymes axillary, 1–8-flowered; peduncle 1–4 cm, or absent; bracts lanceolate or subulate, 2–3 mm. Flowers 0.7–2 cm in diam.; pedicel 1.5–3.4 cm, glabrous or puberulous. Sepals 4, white, erect, oblong, ovate-oblong, or lanceolate-oblong, 1–2 × 0.36–0.6 cm, abaxially subglabrous or puberulous, adaxially glabrous or sparsely puberulous, margin velutinous, apex acute or acuminate. Stamens 1–1.3 cm; filaments densely villous; anthers oblong or narrowly so, 1.5–2.5 mm, glabrous, apex obtuse. Ovaries puberulous; style 0.7–1.2 cm, densely villous. Fl. Oct–Dec.

• Forests, scrub, slopes, by streams; 2200–3100 m. SW Sichuan, Yunnan.

**115. *Clematis morii*** Hayata, J. Coll. Sci. Imp. Univ. Tokyo 25(19): 42. 1908.

森氏铁线莲 sen shi tie xian lian

*Clematis henryi* Oliver var. *morii* (Hayata) T. Y. Yang & T. C. Huang.

Vines woody. Branches inconspicuously 4–6-grooved, sparsely puberulous, glabrescent. Leaves ternate; petiole 2.6–5.5 cm, glabrous; leaflet blades broadly lanceolate, narrowly lanceolate, or narrowly ovate, 2.6–11 × 0.9–3.5 cm, subleathery to papery, undivided or sometimes terminal leaflet 3-lobed to near base, both surfaces glabrous or sparsely puberulous, base rounded, margin entire or sparsely denticulate, apex caudate-acuminate to attenuate; basal veins abaxially prominent. Cymes axillary, 1-flowered; peduncle 4–10 mm; bracts linear to subulate, 2–3 mm. Flowers 1.5–2.5 cm in diam. Pedicel 1.6–2.5 cm, glabrous. Sepals 4, white, erect, ovate-oblong to ovate, 1.5–2.5 × 0.5–1.2 cm, abaxially densely appressed puberulous, adaxially glabrous, apex acute. Stamens 0.7–1.7 cm; filaments densely villous; anthers oblong, 1.8–2 mm, abaxially with a few hairs on connective, apex obtuse. Ovaries pubescent. Style ca. 8 mm, densely villous. Achenes narrowly elliptic to narrowly ovate, 3–5 × ca. 2.5 mm, pubescent; persistent style ca. 3 cm, plumose. Fl. Nov–Feb, fr. Jan–Apr.

• Forest margins, open areas; 1000–2500 m. C Taiwan.

**116. *Clematis hainanensis*** W. T. Wang, Acta Bot. Yunnan. 4: 134. 1982.

海南铁线莲 hai nan tie xian lian

Vines woody. Branches shallowly ca. 6-grooved, densely puberulous. Leaves ternate; petiole ca. 7.5 cm, densely puberulous; leaflet blades elliptic-ovate to ovate, 5.6–10.5 × 3–5.7 cm, papery, abaxially puberulous on veins, adaxially sparsely puberulous, base broadly cuneate, margin apically obscurely denticulate, apex short acuminate; basal veins abaxially prominent. Cymes axillary, 1-flowered; peduncle ca. 1.4 cm; bracts linear, ca. 5.5 mm. Flowers ca. 2.5 cm in diam. Pedicel ca. 4 cm, densely puberulous. Sepals 4,

yellowish white, erect, narrowly ovate, ca. 2.3 × 0.8 cm, both surfaces densely puberulous, margin abaxially velutinous, apex acuminate and recurved. Stamens 1.5–2 cm; filaments sparsely villous; anthers narrowly oblong to linear, 3–4.5 mm, glabrous, apex minutely apiculate. Ovaries pubescent. Style ca. 1 cm, densely villous. Fl. Feb.

• Forests. Hainan (Baisha Xian).

**117. *Clematis leschenaultiana*** de Candolle, Syst. Nat. 1: 151. 1817.

绣毛铁线莲 xiu mao tie xian lian

*Clematis acuminata* de Candolle subsp. *leschenaultiana* (de Candolle) Brühl; *C. acuminata* var. *leschenaultiana* (de Candolle) Kuntze; *C. angustifolia* Hayata (1913), not Jacquin (1786); *C. caesariata* Hance; *C. leschenaultiana* var. *angustifolia* Hayata; *C. leschenaultiana* var. *denticulata* Merrill.

Vines woody. Branches, petioles, peduncles, and pedicels densely pubescent. Branches shallowly 8–10-grooved. Leaves ternate; petiole 3.5–11 cm; leaflet blades ovate, narrowly ovate, or ovate-elliptic, 5–11 × 2.2–6 cm, papery, abaxially ± densely pubescent, adaxially sparsely appressed pubescent, base rounded to broadly cuneate, margin denticulate, apex acuminate; basal veins abaxially prominent. Cymes axillary, 3–10-flowered; peduncle 0.8–7 cm; bracts simple, lanceolate to linear, 1–2 cm, sometimes foliaceous and ternate. Flowers 1.5–2 cm in diam. Pedicel 2–5 cm. Sepals 4, yellowish, erect, lanceolate-oblong to oblong-ovate, 1.6–2.2 × 0.5–0.8 cm, papery, abaxially densely yellowish brown velutinous, adaxially sparsely puberulous only near apex, apex ± acute and often recurved. Stamens 1–1.7 cm; filaments basally pubescent, apically villous; anthers narrowly oblong, 2.5–3.5 mm, glabrous, apex obtuse. Ovaries puberulous. Style ca. 1 cm, densely villous. Achenes subfusiform, 4.5–6 × 1–1.2 mm, puberulous; persistent style 3–4 cm, plumose. Fl. Jan–Feb, fr. Mar–Apr.

Scrub on slopes; 500–1200 m. Fujian, Guangdong, Guangxi, Guizhou, Hainan, Hubei, Hunan, Jiangxi, Sichuan, Taiwan, Yunnan [Indonesia, Philippines, Vietnam].

**118. *Clematis rubifolia*** C. H. Wright, Bull. Misc. Inform. Kew 1896: 21. 1896.

莓叶铁线莲 mei ye tie xian lian

*Clematis leschenaultiana* de Candolle var. *rubifolia* (C. H. Wright) W. T. Wang; *C. splendens* H. Léveillé & Vaniot.

Vines woody. Branches, petioles, peduncles, and pedicels densely pubescent. Branches shallowly 8–10-grooved. Leaves ternate; petiole 6–8 cm; leaflet blades ovate, elliptic, or suborbicular, 5–10 × 3–6 cm, papery, abaxially densely pubescent, adaxially sparsely appressed pubescent, base rounded to cordate, margin dentate to denticulate, apex acute; basal veins abaxially prominent. Cymes axillary, 6- to many

flowered, often paniclelike; peduncle 2–4.5 cm; bracts short petiolate, foliaceous. Flowers ca. 1.5 cm in diam. Pedicel 1.5–2.2 cm. Sepals 4, yellowish white, erect, narrowly oblong, 12–15 × 4–7 mm, abaxially ± densely appressed pubescent, adaxially appressed puberulous only near apex, margin abaxially velutinous, apex ± acute and recurved. Stamens ca. 1.2 cm; filaments basally pubescent, apically villous; anthers narrowly oblong, 2.8–3 mm, abaxially sparsely puberulous on connective, apex obtuse. Ovaries puberulous. Style ca. 1 cm, densely villous. Fl. Nov–Jan, fr. Feb–Mar.

• Forest margins, slopes, along streams; 800–2000 m. W Guangxi, S Guizhou, Yunnan.

**119. *Clematis buchananiana*** de Candolle, Syst. Nat. 1: 140. 1817.

毛木通 mao mu tong

Vines woody. Branches shallowly 8–10-grooved, densely yellowish pubescent. Leaves pinnate; petiole 4.5–9 cm; leaflet blades broadly ovate, ovate, or elliptic, (2.5–)4–11 × (2.5–)4–10 cm, papery, undivided or 3-lobed, abaxially densely or rarely sparsely pubescent, adaxially sparsely appressed pubescent, base subcordate to rounded, margin denticulate to dentate, apex acute to acuminate; basal veins abaxially ± prominent. Cymes axillary, usually many flowered, paniclelike; peduncle 2–20 cm; bracts foliaceous or simple, ovate to lanceolate. Flowers 1.5–2.5 cm in diam. Pedicel 1–3.5 cm, densely yellowish puberulous. Sepals 4, yellow, erect, lanceolate-oblong to narrowly oblong, 2–3 × 0.5–0.9 cm, abaxially densely appressed puberulous and apically sometimes slightly emarginate, adaxially sparsely pubescent apically from middle, apex acute to rounded and often recurved. Stamens ca. 1 cm; filaments pubescent; anthers narrowly oblong to linear, 2.6–5 mm, glabrous, apex obtuse. Ovaries puberulous. Style 1.3–1.5 cm, densely villous. Achenes rhombic-elliptic, 3–5 × 2–2.5 mm, pubescent; persistent style 3.5–5 cm, plumose. Fl. Aug–Dec, fr. Feb–Mar.

Forest margins, scrub, along streams; 1200–2800 m. SW Sichuan, S Xizang, Yunnan [Bhutan, India, Kashmir, N Myanmar, Nepal].

**120. *Clematis grewiiflora*** de Candolle, Syst. Nat. 1: 140. 1817.

黄毛铁线莲 huang mao tie xian lian

Vines woody. Petioles, peduncles, bracts, and pedicels yellowish velutinous. Branches smooth. Leaves pinnate, 3–5-foliolate; petiole 4–4.5 cm; leaflet blades broadly ovate to cordate, 4.5–6 × 4.5–6 cm, thick papery, undivided or 3–5-lobed, abaxially yellowish velutinous, adaxially densely yellowish strigose, base cordate, margin denticulate, apex acuminate; basal veins abaxially prominent. Cymes axillary, usually 3-flowered; peduncle ca. 1.5 cm; bracts narrowly triangular, ca. 8 mm. Flowers ca. 2 cm in diam. Pedicel ca. 1 cm. Sepal 4, brownish yellow, erect, oblong-ovate,

ca. 2.2 × 1 cm, abaxially brownish yellow velutinous, adaxially appressed puberulous near apex, apex acute. Stamens ca. 1.2 cm; filaments apically pubescent; anthers narrowly oblong, 3–4 mm, glabrous, apex obtuse. Ovaries pubescent. Style ca. 1.1 cm, densely villous. Fl. Nov.

Scrub in dry valleys; ca. 1800 m. S Xizang [Bhutan, N India, Nepal].

**121. Clematis yui** W. T. Wang, Acta Phytotax. Sin. 29: 465. 1991.

俞氏铁线莲 yu shi tie xian lian

Vines woody. Branches terete, smooth, glabrous. Leaves simple, glabrous; petiole 1–6 cm; leaf blade elliptic, broadly elliptic, or ovate, 4.9–18 × 1.9–8.8 cm, papery, base rounded to broadly cuneate, margin entire, apex acuminate; basal veins abaxially nearly flat. Flowers solitary, terminal or axillary; peduncle ca. 0.5 mm; bracts narrowly triangular, ca. 2.5 mm. Flowers campanulate, 2–3.5 cm in diam.; pedicel 3–8.5 cm. Sepals 4, greenish yellow to yellow, erect, lanceolate, 1.2–4 × 0.5–1.3 cm, abaxially glabrous except for velutinous margin, adaxially apically appressed puberulous, apex attenuate to short cuspidate. Stamens 1.2–1.9 cm; filaments pubescent; anthers narrowly oblong, 2.6–4 mm, abaxially pubescent on connective, apex minutely apiculate. Ovaries pubescent. Style ca. 1.3 cm, densely villous. Fl. Oct–Nov.

Forests; 1600–2200 m. SE Xizang (Nyingchi Xian), NW Yunnan (Gongshan Drung-Nu Zu Zizhixian), SW Xizang [Myanmar].

**122. Clematis kweichowensis** C. Pei, Contr. Biol. Lab. Chin. Assoc. Advancem. Sci., Sect. Bot. 9: 305. 1934.

贵州铁线莲 gui zhou tie xian lian

Vines woody. Branches terete, subglabrous. Leaves simple; petiole 0.8–3.5 cm; leaf blade elliptic, oblong, or narrowly ovate, 5.5–16 × 2–8.4 cm, papery to subleathery, both surfaces glabrous, base broadly cuneate to cuneate, margin entire or rarely minutely denticulate, apex acuminate; basal veins abaxially ± prominent. Cymes axillary, 1-flowered; peduncle 0.4–3.5 cm; bracts narrowly triangular, ca. 3.5 mm. Flowers ca. 2 cm in diam. Pedicel 3.5–8 cm, glabrous. Sepals 4, greenish yellow, erect, oblong to ovate-oblong, 1.8–3.1 × 0.6–1 cm, abaxially glabrous except for velutinous margin, adaxially densely puberulous or glabrous, apex ± acute. Stamens 1.5–2.3 cm; filaments densely pubescent; anthers oblong to narrowly oblong, 3–5 mm, abaxially densely pubescent, apex obtuse or minutely apiculate. Ovaries pubescent. Style 8–11 mm, densely villous. Fl. Sep, fr. Oct.

• Forests; 800–2100 m. W Guizhou, W Hubei, S Sichuan, NE Yunnan.

**123. Clematis repens** Finet & Gagnepain, Bull. Soc. Bot. France 50: 548. 1903.

曲柄铁线莲 qu bing tie xian lian

Vines suffruticose. Branches slender, shallowly 4–6-grooved, glabrous or sparsely puberulous. Leaves simple, sometimes ternate, glabrous; petiole 1–5.5 cm; leaf blade ovate, ovate-oblong, or narrowly elliptic, 3–10 × 1.5–5 cm, papery, undivided or 3-lobed or -sect, sometimes ternate then leaflets subsessile, base subcordate, rounded, or broadly cuneate, margin sparsely dentate, apex acuminate; basal veins abaxially ± prominent. Cymes axillary, 1-flowered, glabrous; peduncle 0.7–3.2 cm; bracts linear to subulate, rarely elliptic, 2–6(–10) mm. Flowers 1.5–2.5 cm in diam. Pedicel slender, 2.5–8 cm. Sepals 4, yellowish, erect, ovate-oblong, narrowly oblong, or ovate, 1.2–2.5 × 0.5–0.8 cm, abaxially glabrous except for velutinous margin, adaxially appressed puberulous near apex, apex acute to ± obtuse. Stamens 1–1.4 cm; filaments densely pubescent; anthers narrowly oblong to oblong, 2–4 mm, abaxially pubescent, apex minutely apiculate. Ovaries puberulous. Style ca. 7 mm, densely villous. Achenes narrowly elliptic to narrowly ovate, 2.5–4 × 1.2–2 mm, puberulous; persistent style 3–5.5 cm, plumose. Fl. Jul–Aug, fr. Sep–Oct.

• Forests, on boulders, along streams; 1300–2500 m. N Guangdong, N Guangxi, Guizhou, Hubei, Hunan, Sichuan, Yunnan.

**124. Clematis pseudootophora** M. Y. Fang in W. T. Wang, Fl. Reipubl. Popularis Sin. 28: 355. 1980.

华中铁线莲 hua zhong tie xian lian

*Clematis honanensis* S. Y. Wang & C. L. Chang; *C. pseudootophora* var. *integra* W. T. Wang.

Vines suffruticose. Branches slender, shallowly 4–6-grooved, glabrous. Leaves ternate, glabrous; petiole 4–7.8 cm; leaflet blades oblong-lanceolate, ovate-lanceolate, or narrowly ovate, 4–11 × 1.6–3(–5) cm, papery, base rounded to broadly cuneate, margin entire or sparsely denticulate, apex attenuate to acuminate; basal veins abaxially prominent to nearly flat. Cymes axillary, 1–3-flowered, glabrous; peduncle 2–7(–15) cm; bracts short petiolate, lanceolate to elliptic, 1–9 cm. Flowers 2–3.5 cm in diam. Pedicel 1–4 cm, glabrous. Sepals 4, yellowish, erect, ovate-oblong to oblong, 2.5–3 × 1–1.2 cm, abaxially glabrous except for velutinous margin, adaxially sparsely appressed puberulous, apex acute. Stamens 1.5–1.8 cm; filaments densely pubescent; anthers linear, 3.5–4.2 mm, abaxially densely pubescent on connective, apex with a 0.4–0.6 mm apicula. Ovaries pubescent. Style ca. 1.2 cm, densely villous. Achenes narrowly obovate, ca. 5 × 2 mm, puberulous; persistent style 4–5 cm, plumose. Fl. Aug–Sep, fr. Sep–Oct.

• Forests, scrub, along streams; 1300–1800 m. N Fujian, N Guangxi, NE Guizhou, S Henan, SW Hubei, Hunan, W Jiangxi, NW Zhejiang.

**125. Clematis otophora** Franchet ex Finet & Gagnepain, Bull. Soc. Bot. France 50: 548. 1903.

宽柄铁线莲 kuan bing tie xian lian

*Clematis otophora* var. *nanensis* K. Sun & M. S. Yan.

Vines suffruticose. Branches shallowly 4–6-grooved, glabrous. Leaves ternate; petiole 7–12 cm, glabrous, basally strongly dilated and connate to opposite petiole; leaflet blades lanceolate, broadly lanceolate, or narrowly ovate, 3–11 × 1–3.2 cm, papery, abaxially glabrous, adaxially sparsely appressed puberulous, base rounded, subcordate, or broadly cuneate, margin sparsely denticulate or entire, apex attenuate to acuminate; basal veins abaxially nearly flat to ± prominent. Cymes axillary, 1–3-flowered, glabrous; peduncle 1.2–6.5 cm; bracts linear, 3–6 mm. Flowers 2.5–3 cm in diam. Pedicel 1–4 cm, glabrous. Sepals 4, yellowish, erect, oblong to oblong-ovate, 1.8–2.7 × 0.9–1.2 cm, abaxially glabrous except for velutinous margin, adaxially sparsely appressed puberulous near apex, apex ± acute. Stamens 1.2–1.9 cm; filaments densely pubescent; anthers narrowly oblong, 3–3.2 mm, abaxially densely yellowish pubescent on connective, apex with a 0.1–0.2 mm apicula. Ovaries pubescent. Style ca. 9 mm, densely villous. Achenes narrowly obovate to narrowly rhombic, ca. 5 × 2 mm, pubescent; persistent style 3.5–4 cm, plumose. Fl. Jul–Aug, fr. Sep–Oct.

• Forests, forest margins, scrub; 1200–2000 m. S Gansu, W Hubei, E Sichuan.

**126. *Clematis hupehensis*** Hemsley & E. H. Wilson, Bull. Misc. Inform. Kew 1906: 148. 1906.

湖北铁线莲 hu bei tie xian lian

Vines suffruticose. Branches slender, shallowly ca. 8-grooved, glabrous. Leaves pinnate, 7-foliolate, glabrous; petiole slender, ca. 2.7 cm; leaflet blades ovate, 2.5–5 × 0.5–2.5 cm, papery, base rounded, margin entire, apex ± acute; basal veins inconspicuous. Cymes axillary, 1(–3)-flowered; peduncle 1.5–2.2 cm; bracts short petiolate, elliptic, 0.1–2.6 cm. Flowers ca. 2.5 cm in diam. Pedicel slender, 2.5–4.5 cm, glabrous. Sepals 4, yellow, erect, ovate-oblong, ca. 2.5 × 0.8 cm, abaxially glabrous except for velutinous margin, adaxially puberulous, apex acute. Stamens ca. 1.3 cm; filaments densely villous; anthers linear, 3.8–4.5 mm, glabrous, apex obtuse or minutely apiculate. Ovaries pubescent. Style ca. 1 cm, densely villous.

• Woods, scrub; 1500–2100 m. W Hubei.

**127. *Clematis dasyandra*** Maximowicz, Trudy Imp. S.-Peterburgsk. Bot. Sada 11: 7. 1890.

毛花铁线莲 mao hua tie xian lian

*Clematis dasyandra* var. *polyantha* Finet & Gagnepain.

Vines woody. Branches shallowly 4–6-grooved, subglabrous or only sparsely puberulous on nodes. Leaves pinnate, 5-foliolate; petiole 2–5 cm; leaflet blades ovate, broadly ovate, or ovate-elliptic, 3–6.8 × 1.5–4.5 cm, herbaceous to thinly papery, undivided or 3-lobed, abaxially sparsely puberulous on basal veins, adaxially

sparsely appressed puberulous, base rounded, subtruncate, or broadly cuneate, margin sparsely dentate, apex acuminate to caudate-acuminate; basal veins abaxially flat or ± prominent. Cymes axillary, 1- or 3–9-flowered; peduncle 0.9–3.3 cm, puberulous near apex; bracts ovate to oblanceolate, ca. 1 cm. Flowers 1.2–1.5 cm in diam. Pedicel 2.2–3.5 cm, glabrous. Sepals 4, purple, erect, ovate-oblong to oblong, 1.2–1.7 × 0.5–0.7 cm, abaxially densely to sparsely appressed puberulous, adaxially densely appressed puberulous, margin abaxially velutinous, apex ± acute. Stamens 0.9–1.3 cm; filaments puberulous near apex; anthers oblong, ca. 2 mm, abaxially sparsely puberulous on connective, apex obtuse. Ovaries glabrous. Style ca. 8 mm, densely villous. Fl. Sep.

• Forests, scrub, slopes, by streams; 1700–2400 m. S Gansu, S Shaanxi, N Sichuan.

**128. *Clematis rehderiana*** Craib, Bull. Misc. Inform. Kew 1914: 150. 1914.

长花铁线莲 chang hua tie xian lian

*Clematis nutans* Royle var. *thyrsoides* Rehder & E. H. Wilson; *C. veitchiana* Craib.

Vines woody. Branches shallowly 5–8-grooved, sparsely puberulous. Leaves usually 2-pinnate, sometimes 1-pinnate; petiole 2.8–6 cm; leaflet blades ovate to pentagonal-ovate, (2–)3.5–7 × (1.6–)3–5.8 cm, papery, 3-lobed or parted, both surfaces appressed sericeous-puberulous, base cordate, truncate, or broadly cuneate, margin dentate, apex acuminate to caudate-acuminate; basal veins abaxially ± prominent. Cymes axillary, 4- to many flowered, often paniclelike; peduncle 7–13 cm; bracts ovate to rhombic, 0.5–3.5 cm, often 3-lobed. Flowers 1.4–1.8 cm in diam. Pedicel 0.3–2.8 cm, densely puberulous. Sepals 4, yellowish, erect, oblong to narrowly oblong, 1.4–1.9 × 0.5–0.7 cm, abaxially densely appressed sericeous-puberulous, adaxially glabrous or sparsely puberulous, margin abaxially velutinous, apex ± acute and recurved. Stamens 1–1.3 cm; filaments pubescent; anthers narrowly oblong to oblong, 1.8–3 mm, glabrous or only abaxially puberulous on connective, apex obtuse. Ovaries puberulous. Style 1–1.3 cm, densely villous. Achenes ovate to suborbicular, 3–4 × 2.5–3 mm, puberulous; persistent style 2–2.5 cm, plumose. Fl. Jul–Aug, fr. Sep.

Slopes, scrub, along streams; 2000–2500 m. E Qinghai, W Sichuan, Xizang, NW Yunnan [Nepal].

**129. *Clematis connata*** de Candolle, Prodr. 1: 4. 1824.

合柄铁线莲 he bing tie xian lian

Vines woody. Branches shallowly 8–10-grooved, glabrous, ± glaucous. Leaves 1-pinnate, rarely 2-pinnate; petiole 3–8 cm, base ± dilated and connate to opposite petiole forming a disclike glaucous structure, glabrous or sparsely puberulous; leaflet blades ovate, broadly ovate, or narrowly ovate, 4–12 × 3.5–7.5 cm, papery, undivided or 3-lobed, abaxially glabrous, sparsely puberulous, densely puberulous, or sericeous-puberu-

lous, often glaucous, adaxially glabrous or sparsely puberulous, base cordate or rarely truncate, rounded, or broadly cuneate, margin dentate, apex caudate-acuminate to acuminate; basal veins abaxially ± prominent. Cymes axillary, (5–)11- to many flowered, often paniclelike; peduncle 2.5–14 cm, glabrous or sparsely puberulous; bracts narrowly ovate to lanceolate, 1–4 cm. Flowers 1.2–1.8 cm in diam. Pedicel 1.5–4 cm, puberulous. Sepals 4, yellowish, erect, oblong, oblong-lanceolate, or narrowly oblong, (1.2–)1.6–2.2 × 0.3–0.6 cm, abaxially ± densely appressed puberulous or rarely glabrous, adaxially appressed puberulous near apex, margin abaxially velutinous, apex ± acute and recurved. Stamens 1–1.3 cm; filaments densely pubescent; anthers narrowly oblong to linear, 2.8–4.2 mm, glabrous or only abaxially puberulous on connective, apex obtuse. Ovaries puberulous. Style 0.8–1.3 cm, densely villous. Achenes ovate, ca. 4 × 2 mm, puberulous; persistent style ca. 4 cm, plumose. Fl. Aug–Oct, fr. Sep–Nov.

Forests, scrub, along streams or rivers; 2000–3400 m. W Guizhou, SW to W Sichuan, S Xizang, N to NW Yunnan [Bhutan, N India, Kashmir, Nepal, N Pakistan, Sikkim].

1a. Leaves 2-pinnate ..... 129c. var. *pseudoconnata*

1b. Leaves 1-pinnate.

2a. Leaflet blades abaxially sparsely puberulous on veins, undivided; anthers glabrous ..... 129a. var. *connata*

2b. Leaflet blades abaxially often ± densely appressed sericeous-puberulous, often 3-lobed; anthers abaxially puberulous on connective ..... 129b. var. *trullifera*

**129a. *Clematis connata* var. *connata***

合柄铁线莲(原变种) he bing tie xian lian (yuan bian zhong)

*Clematis buchaniana* de Candolle subsp. *connata* Kuntze.

Leaves pinnate; leaflet blades ovate to broadly ovate, undivided, abaxially sparsely puberulous on veins, adaxially subglabrous, base cordate. Anthers glabrous. Fl. Aug–Sep, fr. Sep–Oct.

Forests, along streams or rivers; 2000–3400 m. W Sichuan, S Xizang, NW Yunnan [Bhutan, N India, Kashmir, Nepal, N Pakistan, Sikkim].

**129b. *Clematis connata* var. *trullifera* (Franchet) W. T. Wang, Acta Phytotax. Sin. 36: 170. 1998.**

杯柄铁线莲 bei bing tie xian lian

*Clematis buchaniana* de Candolle var. *trullifera*

Franchet, Pl. Delavay. 3. 1889; *C. connata* var.

*sublanata* W. T. Wang; *C. coriigera* H. Léveillé.

Leaves pinnate; leaflet blades ovate to broadly ovate, often 3-lobed, abaxially often ± densely appressed sericeous-puberulous, adaxially sparsely appressed puberulous, base cordate. Anthers abaxially puberulous on connective. Fl. Oct, fr. Nov.

• Forests, scrub, along streams; 2000–2800 m. W Guizhou, W Sichuan, N Yunnan.

**129c. *Clematis connata* var. *pseudoconnata* (Kuntze) W. T. Wang, Acta Phytotax. Sin. 39: 15. 2001.**

川藏铁线莲 chuan zang tie xian lian

*Clematis nutans* Royle var. *pseudoconnata* Kuntze,

Verh. Bot. Vereins Prov. Brandenburg. 26: 130. 1885;

*C. connata* var. *bipinnata* M. Y. Fang.

Leaves 2-pinnate; leaflet blades narrowly ovate, undivided or unequally 2-lobed, both surfaces subglabrous to abaxially sparsely puberulous, base truncate, rounded, or broadly cuneate. Anthers abaxially puberulous on connective. Fl. Sep. Forests; 2900–3000 m. SW Sichuan, S Xizang [Nepal].

**130. *Clematis lasiandra* Maximowicz, Bull. Acad. Imp. Sci. Saint-Petersbourg 22: 213. 1877.**

毛蕊铁线莲 mao rui tie xian lian

Vines perennial, herbaceous. Branches deeply to sometimes shallowly 4–6-grooved, often 4–6-angulate, glabrous or sometimes sparsely puberulous, nodes swollen. Leaves usually 2-pinnate or 2-ternate, sometimes 1-pinnate or 1-ternate; petiole 2–6(–9) cm, base dilated and connate to opposite petiole, basally often with a few hairs but elsewhere glabrous or sparsely puberulous; leaflet blades narrowly ovate, ovate-lanceolate, ovate, or ovate-elliptic, 2–6.5(–8) × 1.4–3(–4.5) cm, herbaceous to thinly papery, undivided or 3-lobed, abaxially usually glabrous, sometimes sparsely puberulous, adaxially usually sparsely appressed puberulous, base broadly cuneate to rounded, margin serrate, denticulate, or dentate, apex acuminate to long acuminate; basal veins abaxially ± prominent. Cymes axillary or terminal, 1–9-flowered; peduncle (0.3–)1–6 cm; bracts ternate or simple, lanceolate to narrowly ovate, to 4 cm. Flowers 1–2 cm in diam. Pedicel 1.5–3.5 cm, sparsely puberulous or glabrous. Sepals 4, purple red, erect, oblong to ovate-oblong, 1–1.7 × 0.5–0.8 cm, papery, abaxially glabrous except for velutinous margin, adaxially sparsely puberulous only near apex or also near base, apex ± acute and recurved. Stamens 0.9–1.8 cm; filaments basally pubescent, apically densely villous; anthers narrowly oblong, 2–3 mm, glabrous, apex obtuse. Ovaries puberulous. Style 5–6 mm, densely villous. Achenes narrowly elliptic to narrowly rhombic-obovate, ca. 3 × 1.8 mm, puberulous; persistent style 2–3 cm, plumose. Fl. Aug–Oct, fr. Nov.

Slopes, scrub, along streams; 500–2800 m. S Anhui, S Gansu, N Guangdong, N Guangxi, Guizhou, SW Henan, Hubei, Hunan, W Jiangxi, S Shaanxi, Sichuan, Taiwan, Yunnan, Zhejiang [Japan].

**131. *Clematis aethusifolia* Turczaninow, Bull. Soc. Imp. Naturalistes Moscou 5: 181. 1832.**

芹叶铁线莲 qin ye tie xian lian

Vines perennial, herbaceous. Branches shallowly 4–8-grooved, sparsely puberulous to subglabrous. Leaves 2–4 × pinnatisect; petiole 0.6–2.4 cm; pinnae 4 or 5 pairs, opposite or subopposite, triangular; ultimate lobes

linear, narrowly oblong, or narrowly triangular, 1–11 × 0.6–4 mm, papery, sometimes sparsely ciliolate, both surfaces glabrous, or abaxially sparsely puberulous, glabrescent, margin entire or 1-denticulate, apex obtuse to rounded and often mucronate, midvein abaxially ± prominent. Cymes axillary or terminal, 1–5-flowered; peduncle 1–9.5 cm; bracts foliaceous. Flowers 1–1.8 cm in diam. Pedicel 3–9 cm, usually sparsely to rarely densely puberulous. Sepals 4, yellowish, erect, lanceolate-oblong to oblanceolate-oblong, 1.2–2 × (0.3–)0.4–0.8 cm, both surfaces subglabrous, abaxially margin velutinous, apex ± acute and often recurved. Stamens 6–9 mm; filaments sparsely puberulous; anthers oblong, 1.8–2.2 mm, glabrous, apex obtuse. Ovaries puberulous. Style 5–8 mm, densely villous. Achenes broadly elliptic to broadly ovate, 3–4 × 2–3 mm, puberulous; persistent style 1.6–2.7 cm, plumose. Fl. Jul–Aug, fr. Sep.

Scrub, slopes, along streams; 300–3000 m. Gansu, Hebei, Nei Mongol, Ningxia, E and N Qinghai, N Shaanxi, Shanxi [Mongolia, Russia (Siberia)].

1a. Leaf ultimate lobes 1–5 × 0.6–2 mm

..... 131a. var. *aethusifolia*

1b. Leaf ultimate lobes 2–11 × 1–4 mm 131b. var. *latisecta*

**131a. *Clematis aethusifolia* var. *aethusifolia***

芹叶铁线莲(原变种) qin ye tie xian lian (yuan bian zhong)

*Clematis nutans* Royle var. *aethusifolia* (Turczaninow) Kuntze.

Leaf ultimate lobes 1–5 × 0.6–2 mm.

Scrub, slopes, along streams; 300–3000 m. Gansu, Hebei, Nei Mongol, Ningxia, E and N Qinghai, N Shaanxi, Shanxi [Mongolia, Russia (Siberia)].

**131b. *Clematis aethusifolia* var. *latisecta* Maximowicz, Prim. Fl. Amur. 12. 1859.**

宽芹叶铁线莲 kuan qin ye tie xian lian

Leaf ultimate lobes 2–11 × 1–4 mm.

Scrub on slopes; 1500–2000 m. N Hebei, Nei Mongol, N Shaanxi, N Shanxi [Mongolia, Russia (Siberia)].

**132. *Clematis pinchuanensis* W. T. Wang & M. Y. Fang in W. T. Wang, Fl. Reipubl. Popularis Sin. 28: 354. 1980.**

宾川铁线莲 bin chuan tie xian lian

Subshrubs small, erect, to 35 cm tall. Branches shallowly ca. 6-grooved, velutinous. Leaves simple or ternate; petiole 2–3 cm; leaf or leaflet blades deltoid-ovate to ovate, 3–6 × 3–6 cm, papery, often 3-lobed, reticulate, abaxially densely puberulous to velutinous, adaxially densely appressed puberulous, base subcordate to subtruncate, margin dentate, apex ± acute; basal veins abaxially prominent. Cymes terminal or axillary, few flowered; peduncle short; bracts

triangular-ovate, ca. 1.5 cm. Flowers ca. 1.2 cm in diam. Pedicel 1–2 cm, velutinous. Sepals 4, erect, ovate-oblong, ca. 10 × 6 mm, abaxially narrowly winged and velutinous, adaxially appressed puberulous near apex, apex ± acute. Stamens ca. 6.5 mm; filaments densely villous; anthers narrowly oblong, ca. 2.5 mm, abaxially villous on connective, apex obtuse. Ovaries pubescent. Style ca. 5 mm, densely villous. Achenes subfusiform, ca. 3 × 1.2 mm, pubescent; persistent style ca. 1 cm, plumose. Fl. Dec.

•NW Yunnan.

1a. Leaves simple ..... 132a. var. *pinchuanensis*

1b. Leaves ternate ..... 132b. var. *tomentosa*

**132a. *Clematis pinchuanensis* var. *pinchuanensis***

宾川铁线莲(原变种) bin chuan tie xian lian (yuan bian zhong)

Leaves simple.

•NW Yunnan (Binchuan Xian).

**132b. *Clematis pinchuanensis* var. *tomentosa* (Finet & Gagnepain) W. T. Wang, Acta Phytotax. Sin. 39: 15. 2001.**

三出宾川铁线莲 san chu bin chuan tie xian lian

*Clematis ranunculoides* Franchet var. *tomentosa* Finet & Gagnepain, Bull. Soc. Bot. France 50: 544. 1903.

Leaves ternate.

•NW Yunnan (Dali Xian, Heqing Xian).

**133. *Clematis ranunculoides* Franchet, Bull. Soc. Bot. France 33: 360. 1886.**

毛茛铁线莲 mao gen tie xian lian

Vines perennial, herbaceous or when young sometimes stems erect. Stems and branches 4–6-grooved, acutely 4–6-angulate, pubescent to puberulous, sometimes glabrescent. Basal leaves petiolate, ternate or simple; lower stem leaves 1-ternate or pinnate, rarely simple; upper leaves 1-pinnate or 2-ternate, rarely 1-ternate; petiole 4–11 cm; blades of simple leaves mostly pentagonal; leaflet blades variable in shape, broadly ovate, pentagonal, ovate, or rhombic, occasionally cordate, 1.5–7 × 1–6 cm, papery, often 3-lobed, both surfaces sparsely and occasionally abaxially appressed pubescent, base broadly cuneate to subcordate, margin irregularly dentate to denticulate or rarely entire; basal veins abaxially prominent. Cymes axillary, usually 1–3-flowered, terminal cymes 3–7-flowered; peduncle 1–10(–35) mm, sometimes absent, puberulous; bracts sessile or petiolate, spatulate, lanceolate, ovate, or linear, 0.5–1.5 cm, 3-lobed or undivided. Flowers 0.7–1.5 cm in diam. Pedicel 0.6–5 cm, puberulous. Sepals 4, purple-red, erect, oblong to oblong-ovate, 7–14 × 4–6 mm, abaxially with 2 or 3 narrow longitudinal wings and sparsely pubescent to subglabrous, adaxially glabrous or appressed puberulous, apex obtuse and slightly recurved. Stamens

0.7–1.3 cm; filaments villous; anthers narrowly oblong, ca. 1.2 mm, glabrous, apex obtuse. Ovaries puberulous. Style 6–10 mm, densely villous. Achenes fusiform to narrowly elliptic, ca. 3 × 1.5–2 mm, puberulous; persistent style l. 5–2.5 cm, plumose. Fl. Sep–Oct, fr. Oct–Nov.

• Forests, slopes, scrub, along streams; 500–3000 m. NW Guangxi, W Guizhou, SW Sichuan, C to NW Yunnan.

- 1a. Leaves simple, 1- or 2-ternate, or pinnate; leaf or leaflet blades broadly ovate, pentagonal, ovate, or rhombic, often 3-lobed, base broadly cuneate to subcordate, margin irregularly dentate to denticulate ..... 133a. var. *ranunculoides*
- 1b. Leaves 1-ternate; leaflet blades cordate, entire, base cordate, margin entire or sparsely crenate 133b. var. *cordata*

**133a. *Clematis ranunculoides* var. *ranunculoides***

毛茛铁线莲(原变种) mao gen tie xian lian (yuan bian zhong)

*Clematis acutangula* J. D. Hooker & Thomson f. *major* W. T. Wang; *C. acutangula* subsp. *ranunculoides* (Franchet) W. T. Wang; *C. philippiana* H. Léveillé; *C. pterantha* Dunn var. *grossedentata* Rehder & E. H. Wilson; *C. ranunculoides* var. *grossedentata* (Rehder & E. H. Wilson) Handel-Mazzetti; *C. urophylla* Franchet var. *heterophylla* H. Léveillé.

Leaves simple, 1- or 2-ternate, or pinnate; leaf or leaflet blades broadly ovate, pentagonal, ovate, or rhombic, often 3-lobed, base broadly cuneate to subcordate, margin irregularly dentate to denticulate.

• Forests, slopes, scrub, along streams; 500–3000 m. NW Guangxi, W Guizhou, SW Sichuan, C to NW Yunnan.

**133b. *Clematis ranunculoides* var. *cordata* M. Y. Fang in W. T. Wang, Fl. Reipubl. Popularis Sin. 28: 354. 1980.**

心叶铁线莲 xin ye tie xian lian

Leaves 1-ternate; leaflet blades cordate, unlobed, base cordate, margin entire or sparsely crenate.

• SW Sichuan.

**134. *Clematis pterantha* Dunn, Hooker's Icon. Pl. 28: t. 2713. 1901.**

思茅铁线莲 si mao tie xian lian

*Clematis ranunculoides* Franchet var. *pterantha* (Dunn) M. Y. Fang.

Vines. Branches deeply grooved, glabrous. Leaves ternate, glabrous; petiole ca. 8 cm; leaflet blades narrowly ovate to triangular-ovate, 9.5–13 × 4.5–6 cm, papery, base broadly cuneate to rounded-truncate, margin dentate at middle part, apex acuminate to attenuate; basal veins abaxially nearly flat. Cymes axillary, 7–14-flowered; peduncle 2–3.6 cm; bracts

lanceolate-linear, 1.4–2.2 cm, margin denticulate.

Flowers ca. 1 cm in diam. Pedicel 0.6–1.5 cm, sparsely puberulous. Sepals 4, white, erect, oblong-ovate, ca. 9 × 5 mm, abaxially with 3 narrow longitudinal wings and glabrous except for velutinous margin, adaxially puberulous, apex ± acute. Stamens nearly as long as sepals; filaments densely pubescent; anthers oblong, glabrous, apex obtuse. Ovaries pubescent. Style ca. 7 mm, densely villous. Fl. Nov–Dec.

• Forests; ca. 1600 m. S Yunnan (Pu'er Xian).

**135. *Clematis yuanjiangensis* W. T. Wang, Acta Phytotax. Sin. 31: 224. 1993.**

元江铁线莲 yuan jiang tie xian lian

Vines herbaceous. Branches ca. 4-grooved, appressed puberulous. Leaves ternate; petiole 5.5–6.4 cm; leaflet blades oblong-lanceolate, narrowly ovate, or narrowly elliptic, 2.7–8 × 1–2.8 cm, leathery, abaxially sparsely short strigose, adaxially sparsely strigose, base broadly cuneate, margin 1-denticulate on each side but entire apically from middle, apex acute; basal veins abaxially ± prominent. Cymes axillary, 1–3-flowered; peduncle 2.5–13 mm, densely puberulous; bracts narrowly elliptic, 0.6–2 cm. Flowers ca. 1.8 cm in diam. Pedicel 2.5–7 cm, densely puberulous. Sepals 4, pinkish, erect, suboblong, ca. 1.8 × 0.4 cm, abaxially with 3 narrow longitudinal wings and appressed puberulous, adaxially only apex puberulous, margin abaxially velutinous, apex ± obtuse. Stamens ca. 7.5 mm; filaments densely villous; anthers narrowly oblong, 1.8–2 mm, glabrous, apex obtuse. Ovaries pubescent. Style ca. 7 mm, densely villous. Fl. Sep–Oct, fr. Oct–Nov.

• Mountainous areas; ca. 1600 m. S Yunnan.

**136. *Clematis pogonandra* Maximowicz, Trudy Imp. S.-Peterburgsk. Bot. Sada 11: 8. 1890.**

须蕊铁线莲 xu rui tie xian lian

Vines suffruticose. Branches shallowly 4–6-grooved, subglabrous or only sparsely puberulous on nodes. Leaves ternate; petiole 2–6 cm; leaflet blades ovate-lanceolate, oblong, or ovate, 3.5–10 × 1–4.2 cm, papery, both surfaces glabrous or subglabrous or adaxially puberulous on midvein, abaxially pilose on basal veins, glaucous, base rounded to subcordate, margin entire or 1- to few dentate, apex acuminate to narrowly acuminate; basal veins abaxially ± prominent. Flowers axillary, solitary, 2–3 cm in diam. Pedicel 3–10 cm, glabrous or puberulous. Sepals 4, yellowish, erect, ovate-oblong to oblong-lanceolate, (1.5–)2.2–2.9 × 0.5–1 cm, abaxially occasionally with a narrow longitudinal wing on midvein and glabrous except for velutinous margin, adaxially densely puberulous near apex, apex acuminate. Stamens 1.4–2.2 cm; filaments apically pubescent; anthers narrowly oblong, ca. 4 mm, abaxially densely pubescent on connective, apex with a 1–1.5

mm apicula. Ovaries puberulous. Style (5–)9 mm, densely villous. Achenes narrowly obovate, 4–5 × ca. 2 mm, puberulous; persistent style ca. 2.5 cm, plumose. Fl. Jun–Jul, fr. Jul–Aug.

• Forests, forest margins, slopes, scrub; 2200–3700 m. S Gansu, W Hubei, S Shaanxi, SW to W Sichuan.

1a. Leaflet blades and pedicel glabrous or subglabrous ..... 136a. var. *pogonandra*

1b. Leaflet blades abaxially pilose basally on veins and adaxially puberulous basally on midvein, pedicel puberulous.

2a. Sepals abaxially not winged 136b. var. *pilosula*

2b. Sepals abaxially with a narrowly longitudinal wing on midvein . 136c. var. *alata*

**136a. Clematis pogonandra** var. *pogonandra*

须蕊铁线莲(原变种) xu rui tie xian lian (yuan bian zhong)

*Clematis faberi* Hemsley & E. H. Wilson; *C. prattii* Hemsley.

Leaflet blades glabrous or subglabrous, margin entire or rarely 1- or few dentate. Pedicel glabrous. Sepals abaxially not winged.

• Forest margins, scrub; 2200–3400 m. S Gansu, W Hubei, S Shaanxi, W Sichuan.

**136b. Clematis pogonandra** var. *pilosula* Rehder & E. H. Wilson in Sargent, Pl. Wilson. 1: 320. 1931.

多毛须蕊铁线莲 duo mao xu rui tie xian lian

Leaflet blades abaxially pilose basally on veins, adaxially puberulous basally on midvein, margin entire or 2-dentate. Pedicel puberulous. Sepals abaxially not winged.

• Slopes in forests; 2500–3400 m. W Sichuan.

**136c. Clematis pogonandra** var. *alata* W. T. Wang & M. Y. Fang in W. T. Wang, Fl. Reipubl. Popularis Sin. 28: 355. 1980.

雷波铁线莲 lei bo tie xian lian

Leaflet blades abaxially pilose on basal veins, adaxially puberulous on basal midvein, margin sparsely dentate. Pedicel puberulous. Sepals abaxially with a ca. 1 mm wide longitudinal wing on midvein.

• Forests, scrub; 2400–3700 m. SW Sichuan.

**137. Clematis shenlungchiaensis** M. Y. Fang in W. T. Wang, Fl. Reipubl. Popularis Sin. 28: 355. 1980.

神农架铁线莲 shen nong jia tie xian lian

Vines woody. Branches shallowly ca. 6-grooved, puberulous. Leaves ternate; petiole 3–5 cm; leaflet blades broadly ovate to ovate-elliptic, 2.5–5.4 × 1–2.8 cm, thin papery, both surfaces sparsely appressed puberulous, abaxially slightly glaucous, base rounded to broadly cuneate, margin to 2-dentate on each side or entire, apex acuminate; basal veins abaxially flat. Flowers axillary, solitary, 2–3 cm in diam., nodding. Pedicel 4–7.5 cm, appressed puberulous. Sepals 4, erect, oblong,

ca. 2.5 × 0.9 cm, abaxially glabrous except for velutinous margin, adaxially densely puberulous, apex acuminate. Stamens ca. 1.3 cm; filaments puberulous; anthers narrowly oblong, 2.8–3 mm, abaxially densely yellowish puberulous on connective, apex with a ca. 0.2 mm apicula. Ovaries pubescent. Style ca. 7 mm, densely villous. Fl. Jul.

• Rocky areas on slopes; ca. 2900 m. W Hubei (Shennongjia Linqu).

**138. Clematis barbellata** Edgeworth var. *obtusa* Kitamura & Tamura in Kihara, Fauna Fl. Nepal 1: 127. 1955.

吉隆铁线莲 ji long tie xian lian

*Clematis kilungensis* W. T. Wang & M. Y. Fang. Vines woody. Branches terete, flat, or ca. 4-grooved, sparsely puberulous, glabrescent; bud scales narrowly ovate to triangular, ca. 6 mm, ciliate. Leaves ternate; petiole 1.5–4 cm; leaflet blades ovate, rhombic, or ovate-lanceolate, 2.5–6 × 1.4–2.6 cm, papery, often 3-lobed, abaxially sparsely pilose only on midvein, adaxially glabrous, base rounded to broadly cuneate, margin to 2-dentate on each side, apex acuminate to narrowly acuminate; basal veins abaxially ± prominent. Flowers 1 or 2 borne together with 2 leaves arising from axillary buds of old branches, ca. 5 cm in diam. Pedicel 5–7.5 cm, puberulous near apex. Sepals 4, yellow, erect, ovate-oblong, 2–3 × 1–1.7 cm, both surfaces sparsely puberulous, margin abaxially velutinous, apex ± acute. Stamens ca. 1.2 cm; filaments pubescent; anthers narrowly oblong, ca. 3 mm, abaxially densely pubescent on connective, apex with a ca. 0.3 mm apicula. Ovaries puberulous. Style ca. 1 cm, densely villous. Fl. Jun.

Forests; ca. 3700 m. S Xizang (Gyirong Xian) [Nepal].

*Clematis barbellata* var. *barbellata* occurs in N India, Nepal, Kashmir, and N Pakistan.

**139. Clematis pseudopogonandra** Finet & Gagnepain, Bull. Soc. Bot. France 50: 549. 1903.

西南铁线莲 xi nan tie xian lian

*Clematis pseudopogonandra* var. *paucidentata* Finet & Gagnepain.

Vines woody. Branches 4–6-grooved, sparsely puberulous, glabrescent; bud scales ovate, 3–5 mm, glabrous. Leaves 2-ternate; petiole 1.4–6.5 cm; leaflet blades narrowly ovate, broadly ovate, or rhombic, 1.2–4 × 0.6–3 cm, papery, 3-lobed or undivided, both surfaces sparsely puberulous, glabrescent, base rounded to broadly cuneate, margin sparsely denticulate or entire, apex acute to acuminate; basal veins abaxially ± prominent. Flowers 1–3 borne together with 2 leaves arising from axillary buds of old branches or solitary in leaf axils of current year's branches, 3–3.5 cm in diam. Pedicel 3.5–6.5 cm, puberulous near apex. Sepals 4, reddish purple to dark purple, erect-ascending, broadly lanceolate to oblong, 2.2–4 × 0.8–1.5 cm, leathery, abaxially sparsely puberulous, adaxially appressed puberulous, margin abaxially velutinous, apex acuminate. Stamens 1.1–1.6 cm; filaments apically

densely villous; anthers oblong, 2.5–3 mm, abaxially densely villous, apex obtuse. Ovaries pubescent. Style ca. 7 mm, densely villous. Achenes broadly ovate to subrhombic, 3–5 × 3–3.5 mm, pubescent; persistent style ca. 3.5 cm, brownish to yellowish plumose. Fl. Jun–Jul, fr. Aug–Sep.

• Forests, scrub, along streams; 2700–4300 m. W Sichuan, E and SE Xizang, NW Yunnan.

**140. *Clematis integrifolia*** Linnaeus, Sp. Pl. 1: 544. 1753.

全缘铁线莲 *quan yuan tie xian lian*

*Clematis integrifolia* var. *normalis* Kuntze.

Subshrubs erect or perennial herbs, (0.6–)1–1.5 m tall. Branches shallowly 6–10-grooved, puberulous, glabrescent, often simple. Leaves simple, sessile; leaf blade broadly ovate to ovate, 4–14 × 2.5–11 cm, papery, both surfaces glabrous, base rounded to broadly cuneate, margin entire and abaxially crisped pubescent, apex acuminate to acute; basal veins abaxially prominent. Flowers solitary, terminal, ca. 4 cm in diam., nodding. Pedicel 5–16 cm, densely puberulous but velutinous near apex. Sepals 4, purple, blue, or white, erect, oblong-lanceolate, 3–4.5 × 0.7–1.2 cm, often widened apically, both surfaces glabrous, margin abaxially velutinous, apex acuminate and recurved. Stamens ca. 1/2 as long as sepals; filaments apically pubescent; anthers linear, 4.2–5 mm, abaxially densely pubescent on connective, apex minutely apiculate. Ovaries puberulous. Style as long as stamens, densely villous. Achenes narrowly obovate, 6–10 × 4–5 mm, puberulous; persistent style 4–5 cm, plumose. Fl. Jun–Jul, fr. Aug.

Grassy slopes, scrub, river banks; 1200–2000 m. N Xinjiang [Kazakhstan, Russia; W Asia, Europe].

**141. *Clematis fusca*** Turczaninow, Bull. Soc. Imp. Naturalistes Moscou 14: 60. 1840.

褐毛铁线莲 *he mao tie xian lian*

Vines perennial, herbaceous or erect herbs. Stems to 2 m when scandent or to 35 cm tall when erect, shallowly 4–8-grooved, puberulous. Leaves pinnate, (5–)7(–9)-foliolate; petiole 2.5–4.5 cm; leaflet blades broadly to narrowly ovate, 2–9 × 1–5 cm, papery, undivided or 3-lobed, both surfaces sparsely puberulous to subglabrous, abaxially ± reticulate, base rounded to subcordate, margin entire, apex acuminate to acute; basal veins abaxially prominent. Flowers usually solitary and terminal or in axillary usually 1-flowered cymes, nodding, 1.5–2.5 cm in diam.; peduncle 0.2–4 cm, sometimes absent; bracts ovate to narrowly ovate, 0.7–4 cm, undivided or 3-lobed. Pedicel 0.6–1.5 cm, densely pubescent or glabrous. Sepals 4, purple, erect, ovate to ovate-oblong, 1.4–3 × 0.7–1.2 cm, abaxially appressed brownish pubescent, subglabrous, or glabrous, adaxially glabrous, margin abaxially velutinous, apex acute to attenuate. Stamens 1–1.4 cm; filaments brownish villous; anthers linear, 4–5 mm, abaxially densely pubescent on connective, apex with a 0.3–0.6 mm

apicula. Ovaries puberulous. Style 0.8–1.2 cm, densely villous. Achenes broadly obovate to elliptic, 5–7 × 4–5 mm, appressed pubescent; persistent style 3–4 cm, brown plumose. Fl. Jun–Jul, fr. Aug–Sep.

Forests, forest margins, slopes, scrub, thickets; 500–1000 m. NE Hebei, Heilongjiang, Jilin, Liaoning, NE Nei Mongol, E Shandong [Japan, Korea, Russia (Far East)].

1a. Pedicel densely pubescent; sepals abaxially brownish pubescent ..... 141a. var. *fusca*

1b. Pedicel glabrous or subglabrous; sepals abaxially glabrous or subglabrous 141b. var. *violacea*

**141a. *Clematis fusca* var. *fusca***

褐毛铁线莲(原变种) *he mao tie xian lian* (*yuan bian zhong*)

*Clematis fusca* var. *amurensis* Kuntze; *C. fusca* var. *mandshurica* Regel; *C. ianthina* Koehne var.

*mandshurica* (Regel) Nakai; *C. kamtschatica* Bongard.

Pedicel densely pubescent. Sepals abaxially appressed brownish pubescent.

Forests, forest margins, slopes, scrub. NE Hebei, Heilongjiang, Jilin, Liaoning, E Shandong [Japan, Korea, Russia (Far East)].

**141b. *Clematis fusca* var. *violacea*** Maximowicz, Prim. Fl. Amur. II. 1859.

紫花铁线莲 *zi hua tie xian lian*

*Clematis fusca* subsp. *violacea* (Maximowicz)

Kitagawa; *C. ianthina* Koehne var. *violacea*

(Maximowicz) Nakai.

Pedicel glabrous or subglabrous. Sepals abaxially glabrous or subglabrous.

Scrub, thickets. Heilongjiang, SE Jilin [Korea, Russia (Far East)].

**142. *Clematis koreana*** Komarov, Trudy Imp. S.-Peterburgsk. Bot. Sada 18: 438. 1901.

朝鲜铁线莲 *chao xian tie xian lian*

*Atragene koreana* (Komarov) Komarov; *Clematis*

*alpina* (Linnaeus) Miller var. *koreana* (Komarov)

Nakai; *C. komarovii* Koidzumi.

Vines woody. Branches terete or inconspicuously 6-angulate, glabrous; bud scales lanceolate to narrowly ovate, 1–2 cm, papery, puberulous. Leaves ternate; petiole 4–7 cm; leaflet blades broadly ovate, ovate, or suborbicular, 5–9 × 3–8.5 cm, papery, 2- or 3-lobed or parted or undivided, both surfaces sparsely appressed puberulous, glabrescent, base subcordate, margin dentate, apex acuminate; basal veins abaxially nearly flat. Flowers solitary, ca. 3.5 cm in diam. Pedicel 5–11 cm, sparsely puberulous to glabrous. Sepals 4, yellowish to reddish, oblong, narrowly elliptic, or ovate, 1.7–2 × 0.5–0.8 cm, abaxially sparsely puberulous, adaxially appressed puberulous, margin abaxially velutinous, apex ± acute. Staminodes linear-spatulate, 1.5–1.8 cm, puberulous. Stamens 1–1.4 cm; filaments pubescent; anthers narrowly oblong, ca. 2.5 mm, abaxially densely pubescent on connective, apex obtuse. Ovaries pubescent. Style ca. 8 mm, densely villous. Achenes narrowly obovate, 4–5 × 2–3 mm, puberulous; persistent style ca. 4.5 cm, plumose. Fl. May–Jun, fr. Jul.

Forests, scrub; 1000–1900 m. S Heilongjiang, E Jilin, E Liaoning [Korea].

**143. *Clematis iliensis*** Y. S. Hou & W. H. Hou, *Bull. Bot. Res.*, Harbin 6(2): 131. 1986.

伊犁铁线莲 *yi li tie xian lian*

*Clematis sibirica* Miller var. *iliensis* (Y. S. Hou & W. H. Hou) J. G. Liu.

Vines woody. Branches shallowly 4–6-grooved or terete, sparsely pubescent; bud scales triangular, 3–7 mm, abaxially pubescent. Leaves ternate; petiole 3–10 cm; leaflet blades narrowly ovate to broadly ovate, 4–10 × 2–8 cm, herbaceous to papery, undivided or 3-parted, both surfaces sparsely pubescent, often glabrescent, base truncate, rounded, or subcordate, margin denticulate to dentate, apex acuminate; basal veins abaxially ± prominent. Flowers 1–3 borne together with a pair of leaves arising from axillary buds of old branches, 4–7 cm in diam. Pedicel 8–14 cm, sparsely pubescent. Sepals 4, yellowish, ascending, obovate-oblong to elliptic, 3.6–4.5(–5) × 1.1–1.8(–3) cm, abaxially densely puberulous, adaxially puberulous, apex ± obtuse. Stamines linear-spatulate, ca. 2 cm, abaxially densely puberulous, adaxially glabrous, apex ± acute. Stamens slightly shorter than stamines; filaments densely pubescent; anthers linear, ca. 3 mm, abaxially pubescent on connective, apex ± obtuse. Ovaries puberulous. Style ca. 1.4 cm, densely villous. Achenes narrowly obovate to narrowly elliptic, ca. 4 × 2.2–2.8 mm, puberulous; persistent style 3–3.8(–5) cm, plumose. Fl. Jun–Jul, fr. Jul–Aug.

• *Picea* forests, forest margins, along streams; 1600–3000 m. CN to SW Xinjiang.

**144. *Clematis moisseenkoi*** (Serov) W. T. Wang, **comb. nov.**

绒萼铁线莲 *rong e tie xian lian*

Basionym: *Atragene moisseenkoi* Serov, *Bot. Zhurn.* 71: 1128. 1986.

Vines woody. Branches subterete, indistinctly 6-angulate, sparsely puberulous near nodes, elsewhere glabrous. Leaves ternate or pinnate and 5-foliolate; petiole 1.5–4 cm; leaflet blades ovate or narrowly so, undivided, rarely 2-parted or 2-lobed, 1.6–4 × 1–2.8 cm, herbaceous, abaxially sparsely pubescent, adaxially subglabrous or very sparsely puberulous on veins, base broadly cuneate, subcordate, or cordate, margin serrate, apex acute or shortly acuminate; basal veins abaxially slightly prominent or flat. Flowers 1–3, arising with 2 leaves from axillary buds of old branches, 3–5 cm in diam.; pedicel 6–7.4 cm, pubescent. Sepals 4, ascending, linear-lanceolate, 2.5–3.3 × 0.5–0.75 cm, abaxially white velutinous, adaxially puberulous, apex recurved, long acuminate. Stamines spatulate or oblanceolate-linear, 16–25 × 1.5–3.5 mm, puberulous; claw linear, 1–1.5 mm wide. Stamens 14–16 mm; filaments linear, densely puberulous; anthers linear or narrowly oblong,

2–2.8 mm, abaxially pubescent. Ovaries densely pubescent; style ca. 10 mm, densely villous. Fl. Jun.

• About 1600 m. W Xinjiang (Borohoro Shan).

**145. *Clematis sibirica*** Miller, *Gard. Dict.*, ed. 8, *Clematis* no. 12. 1768.

西伯利亚铁线莲 *xi bo li ya tie xian lian*

Vines woody. Branches inconspicuously 4–6-angulate to subterete, glabrous; bud scales deltoid, triangular, or oblong, 0.4–1.8 cm, abaxially apically puberulous. Leaves 2-ternate; petiole 3–6.5 cm; leaflet blades elliptic-ovate, ovate, or lanceolate, 2–7 × 1.1–3 cm, herbaceous to thin papery, both surfaces sparsely puberulous or adaxially glabrous, base broadly cuneate to rounded, margin serrate to denticulate, apex acute to acuminate; basal veins nearly flat. Flowers solitary, 3–6 cm in diam. Pedicel 7–10(–14) cm, sparsely puberulous. Sepals 4, yellow, yellowish, white, purple, or blue, ascending, narrowly oblong, oblong, narrowly ovate, or oblong-obovate, 2.2–4.5 × 1–2 cm, both surfaces puberulous or adaxially glabrous, abaxially margin densely puberulous, apex acute to acuminate. Stamines linear-spatulate, ca. 1/2 as long as sepals, 2–5 mm wide, abaxially puberulous, adaxially glabrous. Stamens 1–1.4 cm; filaments puberulous; anthers narrowly oblong, 2–3.2 mm, abaxially puberulous on connective. Ovaries puberulous. Style 8–9 mm, densely villous. Achenes obovate, 4–5 × 3–4 mm, puberulous; persistent style 2.5–4.5 cm, plumose. Fl. May–Jul, fr. Jul–Aug.

Forests, forest margins, scrub; 600–2000 m. C Gansu, N Hebei, Heilongjiang, Jilin, Nei Mongol, Ningxia, E Qinghai, N Shanxi, Xinjiang [Japan, Mongolia, Russia; NW Europe].

1a. Sepals yellow, yellowish, or white, narrowly oblong, oblong, or narrowly ovate, 3–4.5 × 1–1.6 cm ..... 145a. var. *sibirica*

1b. Sepals purple to blue, narrowly oblong to oblong-obovate, 2.2–4 × 1–2 cm ..... 145b. var. *ochotensis*

**145a. *Clematis sibirica*** var. ***sibirica***

西伯利亚铁线莲(原变种) *xi bo li ya tie xian lian*  
(yuan bian zhong)

*Clematis sibirica* var. *tianzhuensis* M. S. Yan & K. Sun.

Sepals yellow, yellowish, or white, narrowly oblong, oblong, or narrowly obovate, 3–4.5 × 1–1.6 cm. Fl. Jun–Jul, fr. Jul–Aug.

Forests, forest margins; 1200–2000 m. C Gansu, Heilongjiang, Nei Mongol, Ningxia, E Qinghai, Xinjiang [Mongolia, Russia; NW Europe].

**145b. *Clematis sibirica*** var. ***ochotensis*** (Pallas) S. H. Li & Y. H. Huang, *Fl. Pl. Herb. Chinae Bor.-Or.* 3: 179. 1975.

半钟铁线莲 *ban zhong tie xian lian*

*Atragene ochotensis* Pallas, *Fl. Ross.* 1: 69. 1784; *A. alpina* Linnaeus var. *ochotensis* (Pallas) Regel & Tiling;

*A. platysepala* Trautvetter & C. A. Meyer; *Clematis alpina* (Linnaeus) Miller var. *chinensis* Maximowicz; *C. alpina* var. *ochotensis* (Pallas) Kuntze; *C. nobilis* Nakai; *C. ochotensis* (Pallas) Poiret; *C. platysepala* (Trautvetter & C. A. Meyer) Handel-Mazzetti.

Sepals purple to blue, narrowly oblong to oblong-obovate, 2.2–4 × 1–2 cm. Fl. May–Jun, fr. Jul–Aug.

Forests, forest margins, scrub; 600–1200 m. N Hebei, Heilongjiang, Jilin, Nei Mongol, N Shanxi [Japan, Russia (Far East, Siberia)].

**146. *Clematis macropetala*** Ledebour, Icon. Pl. 1: 5. 1829.

长瓣铁线莲 chang ban tie xian lian

Vines woody. Branches 4–6-angulate, sometimes shallowly 4-grooved, glabrous or only puberulous on nodes; bud scales deltoid to triangular, 0.2–1.8 cm, abaxially appressed puberulous. Leaves 2-ternate; petiole 3–5.5 cm; leaflet blades lanceolate, narrowly ovate, or ovate, 2–5 × 1–4.5 cm, papery, undivided or 3-parted, both surfaces sparsely puberulous or only subglabrous on basal veins, base broadly cuneate to rounded, margin serrate, apex acuminate; basal veins abaxially nearly flat. Flowers solitary, 3–6 cm in diam. Pedicel 8–13 cm, sparsely puberulous. Sepals 4, blue, purple, or white, ascending, narrowly ovate to ovate-lanceolate, 3–4(–4.8) × 1–1.5(–2.1) cm, abaxially densely puberulous, adaxially glabrous or sparsely puberulous, apex acute. Stamines narrowly lanceolate to linear-lanceolate, slightly shorter than or equaling sepals, sometimes inner ones linear-spatulate to oblanceolate-linear, abaxially densely puberulous, adaxially glabrous or puberulous. Stamens 1–1.4 cm; filaments pubescent; anthers narrowly oblong to linear, 2.5–4 mm, abaxially puberulous on connective, apex obtuse. Ovaries pubescent. Style 0.8–1.2 cm, densely villous. Achenes obovate, ca. 4 × 2.5 mm, sparsely pubescent; persistent style 3.5–4 cm, plumose. Fl. Jul, fr. Aug.

Forests; 1700–2000 m, Gansu, Hebei, Liaoning, Nei Mongol, Ningxia, E Qinghai, S Shaanxi, Shanxi [E Mongolia, Russia (Far East, Siberia)].

1a. Sepals blue to purple ..... 146a. var. *macropetala*

1b. Sepals white ..... 146b. var. *albiflora*

**146a. *Clematis macropetala* var. *macropetala***

长瓣铁线莲(原变种) chang ban tie xian lian (yuan bian zhong)

*Atragene macropetala* (Ledebour) Ledebour; *Clematis alpina* (Linnaeus) Miller subsp. *macropetala* (Ledebour)

Kuntze var. *rupestris* Turczaninow ex Kuntze; *C.*

*alpina* var. *macropetala* Maximowicz; *C. alpina* var.

*macropetala* subvar. *rupestris* (Turczaninow ex Kuntze)

Maximowicz; *C. macropetala* var. *rupestris*

(Turczaninow ex Kuntze) Handel-Mazzetti.

Leaflet blades 2–5 × 1–4.5 cm. Sepals blue to purple.

Gansu, Hebei, Liaoning, Nei Mongol, Ningxia, E Qinghai, S Shaanxi, Shanxi [E Mongolia, Russia (Far East, Siberia)].

**146b. *Clematis macropetala* var. *albiflora*** (Maximowicz ex Kuntze) Handel-Mazzetti, Acta Horti Gothob. 13: 197. 1939–1940.

白花长瓣铁线莲 bai hua chang ban tie xian lian

*Clematis alpina* subsp. *macropetala* var. *albiflora*

Maximowicz ex Kuntze, Verh. Bot. Vereins Prov.

Brandenburg, 26: 163. 1885; *Atragene diana* Serov;

*C. alpina* var. *macropetala* subvar. *albiflora*

(Maximowicz ex Kuntze) Maximowicz.

Leaflet blades 3–5 × 1.5–2 cm. Sepals white.

• Forests. Ningxia (Helan Shan), Shanxi (Guandi Shan).

**147. *Clematis alternata*** Kitamura & Tamura, Acta Phytotax. Geobot. 15: 129. 1954.

互叶铁线莲 hu ye tie xian lian

*Archiclematis alternata* (Kitamura & Tamura) Tamura.

Shrublets scandent. Branches slender, appressed puberulous. Leaves alternate, simple; petiole 2.5–6 cm;

leaf blade ovate, cordate, or pentagonal, 3–7 × 3–7.5

cm, papery, abaxially densely puberulous to velutinous,

adaxially densely appressed puberulous, base cordate,

margin denticulate, apex acute to short acuminate;

basal veins abaxially ± prominent. Cymes axillary, 1–3-

flowered; peduncle 3.4–7 cm, puberulous; bracts short

petiolate, ovate to broadly rhombic, 1–1.8 cm, 3-lobed.

Flowers campanulate, nodding, 1.5–2 cm in diam. Ped-

icel 2.5–3.8 cm, densely puberulous. Sepals 4, red, erect,

ovate-oblong, 1.8–2.2 × 0.6–1.2 cm, abaxially densely

appressed puberulous, adaxially sparsely puberulous,

apex ± obtuse. Stamens 1.5–2 cm; filaments pubescent;

anthers linear to narrowly oblong, ca. 4 mm, glabrous,

apex obtuse. Ovaries pubescent. Style ca. 1.3 cm,

densely villous. Fl. Jul, fr. Aug.

Forest margins, scrub; 2200–2500 m. S Xizang (Gyirong Xian)

[Nepal].

*Clematis alternata* differs from all other species of *Clematis* in having

alternate leaves. It has been treated as the separate genus *Archic-*

*clematis*.

