
崖爬藤属 ya pa teng shu

Ren Hui (任辉); Jun Wen (文军)

Climbers, woody, rarely herbaceous, usually polygamo-dioecious. Tendrils unbranched or bifurcate, sometimes palmately branched. Leaves usually palmately 3–5-foliolate or pedately 5–7-foliolate, rarely simple. Inflorescence a polychasmatic, an umbel, or a compound cyme. Flowers 4-merous. Petals spreading, free, usually hooded or galeate, sometimes corniculate. Stamens short, abortive in female flowers. Disk well developed in male flowers, inconspicuous in female flowers. Style conspicuous or inconspicuous; stigma usually 4-divided, rarely irregularly divided. Berry globose, ellipsoid, or obovoid, 1–4-seeded. Seed elliptic, obovoid-elliptic, or obtriangular, abaxial surface with a linear to orbicular chalazal knot, adaxial surface with a linear raphe; cross-section of endosperm T- or M-shaped.

About 100 species: Asia to Oceania; 44 species (24 endemic) in China.

The type of Tetrastigma megalocarpum W. T. Wang (Acta Phytotax. Sin. 17(3): 82. 1979), described from Yunnan, could not be located. It was said by C. L. Li to be a mixed gathering: leaf of Tetrastigma and fruit of Spondias Linnaeus (Anacardiaceae).

1a. Leaves simple, rarely mixed with 2- or 3-foliolate ones.
2a. Young branches and petiole ± pubescent; leaf veinlets abaxially inconspicuously raised; calyx teeth conspicuous, conical; petals pubescent .................................................. 18. T. subtetragonum
2b. Young branches and petiole glabrous; leaf veinlets abaxially ± raised; calyx teeth inconspicuous; petals glabrous.
3a. Leaves subleathery; peduncle 2–3.5 cm, pubescent; pedicels 4–10 mm, pubescent ........................................... 15. T. erubescens
3b. Leaves papery; peduncle 8–13.5 cm, glabrous; pedicels 4–10 mm, glabrous ........................................... 5. T. longipedunculatum
1b. Leaves palmately or pedately compound.
4a. Leaves pedately 5–7-foliolate.
5a. Leaflets abaxially pubescent or at least on veins.
6a. Margin of central leaflet 12–24-toothed on each side; seeds elliptic or obtriangular.
7a. Branchlets, petioles, and abaxial veins densely ferruginous villous; petals coriaceous; surface smooth ............................................................ 30. T. xishuangbannaense
7b. Branchlets, petioles, and abaxial veins pilose; petals not coriaceous; seeds obtriangular, surface with ribs .............................................................. 31. T. rumicispermum
6b. Margin of central leaflet 4–9-toothed on each side; seeds elliptic or obovoid-elliptic.
8a. Leaflets leathery or subleathery, petiole conspicuously corrugated when dry ........................................... 25. T. longipedunculatum
8b. Leaflets papery, petiole inconspicuously corrugated when dry.
9a. Calyx teeth small and inconspicuous .............................................................. 41. T. serrulatum
9b. Calyx teeth obvious and long .................................................................................. 17. T. henryi
5b. Leaflets abaxially glabrous.
10a. Peduncle glabrous.
11a. Leaflet margin 3- or 4(or 5)-toothed on each side.
12a. Central leaflet elliptic-lanceolate; berries oblong ............................................................ 14. T. caudatum
12b. Central leaflet obovate-elliptic; berries obovate-elliptic ................................................... 28. T. godefroyanum
11b. Leaflet margin 7–14(or 15)-toothed on each side.
13a. Petals apically conspicuously coriaceous.
14a. Lianas, robust, woody; old branches gray and tuberculate; seeds obtriangular, surface with ribs ........................................................................................................... 32. T. ceratopetalum
14b. Lianas, slender, old branches green-brownish or purplish, not tuberculate; seeds globose, surface finely corrugated .............................................................. 41. T. serrulatum
13b. Petals galeate, or inconspicuously coriaceous at apex.
15a. Leaves pedately 7-foliolate .............................................................. 34. T. jingdongense
15b. Leaves pedately 5-foliolate, sometimes 7-foliolate.
16a. Branchlets gray; seeds globose, surface corrugated .......................................................... 26. T. xishuangbannaense
16b. Branchlets greenish; seeds oblong; surface with ribs.
17a. Leaflets obovate-oblong or obovate-elliptic, base nearly rounded, that of central leaflet broadly cuneate, apex acute or acuminate ........................................... 30. T. lenticellatum
17b. Leaflets obovate-lanceolate or obovate, base cuneate, apex caudate-acuminate or mucronate .............................................................. 31. T. rumicispermum
10b. Peduncle pubescent or papillose.
18a. Petals apically conspicuously coriaceous.
19a. Calyx teeth inconspicuous; leaves pedately 5-foliolate, mixed with 3-foliolate leaves.  
19b. Calyx teeth conspicuous; leaves pedately 5-foliolate, mixed with 3- or 7-foliolate leaves.  

18b. Petals apically galeate, not corniculate.

20a. Calyx teeth conspicuous; leaflets lanceolate.  
20b. Calyx teeth inconspicuous; leaflets ob lanceolate, elliptic, or elliptic-lanceolate.

21a. Central leaflet ob lanceolate, margin 12–16-toothed; calyx cupular.  
21b. Central leaflet elliptic or elliptic-lanceolate, margin 4–10-toothed; calyx saucer-shaped.

22a. Ovary brownish pubescent.  
22b. Ovary glabrous.

23a. Leaves pedately 5-foliolate, rarely 4- or 6-foliolate.

24a. Leaves leathery; inflorescence leaf-opposed, longer than petiole.  
24b. Leaves papery; inflorescence axillary, shorter than petiole.

23b. Leaves pedately 7-foliolate.

25a. Berry 2.5–3 cm in diam.; seeds elliptic, surface corrugated.  
25b. Berry 0.8–1.5 cm in diam.; seeds obtriangular, surface with ribs.

4b. Leaves digitately palmately 3–5-foliolate.

26a. Leaves palmately 5-foliolate.

27a. Tendrils digitately branched.

28a. Inflorescence a compound cyme.  
28b. Inflorescence a simple umbel.

27b. Tendrils bifurcate or unbranched.

29a. Branchlets, petioles, rachises, and abaxial leaf surface rusty pubescent, hairs 0.2–0.4 mm.  
29b. Branchlets, petioles, rachises, and abaxial leaf surface brownish hirsute, hairs 2–3 mm.

30a. Branchlets, petioles, rachises, and abaxial leaf surface rusty pubescent, hairs 0.2–0.4 mm.  
30b. Branchlets, petioles, rachises, and abaxial leaf surface brownish hirsute, hairs 2–3 mm.

31a. Branches 1.5–2 mm in diam.; inflorescence a simple umbel.  
31b. Branches 3–6 mm in diam.; inflorescence a compound dichasium or polychasm.

32a. Inflorescence cauliflorous (on old stems).  
32b. Inflorescence on current year’s branches.

33a. Petals apically conspicuously corniculate.  
33b. Petals apically galeate, not corniculate.

34a. Central leaflet lanceolate, narrowly lanceolate, or ovate-lanceolate; style inconspicuous.  
34b. Central leaflet obovate-elliptic; style conspicuous.

35a. Tendrils digitately branched.  
35b. Tendrils bifurcate or unbranched.

36a. Leaves abaxially pubescent or at least on veins.

37a. Leaflets abaxially pubescent; calyx teeth subulate, ca. 1/2 as long as petals.  
37b. Leaflets abaxially pubescent only on veins; calyx teeth inconspicuous.

38a. Pedicels glabrous.

39a. Leaflets entire at margin.  
39b. Leaflets toothed at margin.

40a. Shrubs, erect or nearly erect.  
40b. Lianas.

41a. Leaves usually 4–6(–8) × 2–3 cm; petiole 1–2 cm; inflorescence axillary.  
41b. Leaves usually 7–12 × 4–6.2 cm; petiole 5–10 cm; inflorescence opposite or pseudo-opposite to leaves.

42b. Leaves papery, veinlets inconspicuously raised.

43a. Leaves leathery; veinlets raised only on abaxial surface.  
43b. Leaves leathery, veinlets raised on both surfaces.

44a. petals apically galeate, not corniculate.  
44b. Petals apically galeate, not corniculate; petals pilose with white hairs.

45a. Leaffets rhombic-oval, abaxially conspicuously glaucous; petals pilose with white hairs.  
45b. Leaffets elliptic, elliptic-lanceolate, or obovate-elliptic, abaxially not glaucous; petals glabrous.

46a. Branchlets smooth with sparse lenticels; central leaflet elliptic or elliptic-lanceolate.  
46b. Branchlets conspicuously tuberculata; central leaflet usually obovate-oval.

47a. Petals apically galeate, not corniculate.  
47b. Petals apically corniculate.

48a. Calyx teeth inconspicuous; leaves pedately 5-foliolate, mixed with 3-foliolate leaves.  
48b. Calyx teeth conspicuous; leaves pedately 5-foliolate, mixed with 3- or 7-foliolate leaves.

49a. Calyx teeth inconspicuous; leaves pedately 5-foliolate, mixed with 3- or 7-foliolate leaves.  
49b. Calyx teeth conspicuous; leaves pedately 5-foliolate, mixed with 3- or 7-foliolate leaves.

50a. Calyx teeth inconspicuous; leaves pedately 5-foliolate, mixed with 3- or 7-foliolate leaves.  
50b. Calyx teeth conspicuous; leaves pedately 5-foliolate, mixed with 3- or 7-foliolate leaves.

51a. Calyx teeth inconspicuous; leaves pedately 5-foliolate, mixed with 3- or 7-foliolate leaves.  
51b. Calyx teeth conspicuous; leaves pedately 5-foliolate, mixed with 3- or 7-foliolate leaves.

52a. Calyx teeth inconspicuous; leaves pedately 5-foliolate, mixed with 3- or 7-foliolate leaves.  
52b. Calyx teeth conspicuous; leaves pedately 5-foliolate, mixed with 3- or 7-foliolate leaves.

53a. Calyx teeth inconspicuous; leaves pedately 5-foliolate, mixed with 3- or 7-foliolate leaves.  
53b. Calyx teeth conspicuous; leaves pedately 5-foliolate, mixed with 3- or 7-foliolate leaves.

54a. Calyx teeth inconspicuous; leaves pedately 5-foliolate, mixed with 3- or 7-foliolate leaves.  
54b. Calyx teeth conspicuous; leaves pedately 5-foliolate, mixed with 3- or 7-foliolate leaves.

55a. Calyx teeth inconspicuous; leaves pedately 5-foliolate, mixed with 3- or 7-foliolate leaves.  
55b. Calyx teeth conspicuous; leaves pedately 5-foliolate, mixed with 3- or 7-foliolate leaves.
Inflorescence umbelliform, axillary, 2.5–9.5 cm, with nodes and 5–11 dentate teeth on each side, apex mucronate or acuminate. Lateral leaflets asymmetric, sometimes subrounded, margin with pairs, veinlets inconspicuous, base broadly cuneate, base of obovate-elliptic, 6–13 × 3–6 cm, glabrous, lateral veins 6 or 7 short, 0.5–1.5 cm, glabrous; leaflets elliptic or ovate-elliptic, or petiole 3.5–7 cm; central petiolule 1–2.5 cm, lateral petiolules dinal ridges, glabrous; tendrils unbranched. Leaves 3-foliolate; central petiole 1.3–1.5 cm, petiolules of lateral leaflet complex 0.5–1.5 cm, lateral petiolules very short or lateral leaflets subsessile, glabrous; leaflets glabrous, lateral veins 5–7 pairs, veinlets inconspicuous; central leaflet lanceolate, 10–16 × 3–5 cm, base cuneate or rounded, apex acuminate; lateral leaflets 7–12 × 2–2.4 cm, base rounded or slightly cordate, margin undulately serrate, apex acuminate or mucronate. Inflorescence umbelliform, axillary; peduncle 1.5–2.5 cm, glabrous. Pedicel 1–1.2 mm, pilose. Buds oval, 1.8–2 mm, apex rounded. Calyx cupular, pilose, teeth fine, ca. 1/2 as long as petals. Petals oval, 1.6–1.8 mm, glabrous, apex galeate. Disk conspicuous, 4-lobed. Lower part of ovary adnate to disk; style short; stigma 4-lobed. Fl. Mar.

- Forests on hillsides or in valleys; 400–1200 m. Yunnan.


Tendril unbranched or bifurcate. Inflorescence usually a polychasium. Seeds elliptic, obovoid-elliptic, or obtriangular, surface smooth, corrugated, or with strumose protuberance or ribs.

About 95 species: Asia to Oceania; 41 species (22 endemic) in China.


Vitis papillata Hance, J. Bot. 16: 226. 1878; Cayratia papillata (Hance) Merial & Chun; Tetrastigma hainanense Chun & F. C. How.

Lianas, woody. Branchlets terete, slender, with longitudinal ridges, glabrous; tendrils unbranched. Leaves 3-foliolate; petiole 3.5–7 cm; central petiole 1–2.5 cm, lateral petiolules short, 0.5–1.5 cm, glabrous; leaflets elliptic, ovate-elliptic, or obovate-elliptic, 6–13 × 3–6 cm, glabrous, lateral veins 6 or 7 pairs, veinlets inconspicuous, base broadly cuneate, base of lateral leaflets asymmetric, sometimes subrounded, margin with 5–11 dentate teeth on each side, apex mucronate or acuminate. Inflorescence umbelliform, axillary, 2.5–9.5 cm, with nodes and bracts; peduncle 1–2.5 cm, pubescent. Pedicel 1.5–4 mm, pubescent. Buds oval, 1.5–2 mm. Calyx saucer-shaped, papillose, bracts; peduncle 1–2.5 cm, pubescent. Pedicel 1.5–4 mm, pubescent. Flowers March, fruits August.

Seeds oval, base obtuse, apex rounded, surface smooth, ventral stigma 4-divided. Berry globose, ca. 8 mm in diam., 2-seeded. Lower part of ovary adnate to disk; style inconspicuous; stigma 4-lobed. Fl. Mar.

- Forests in valleys; 400–700 m. Guangxi, Guizhou, Hainan.


Lianas, woody. Branchlets terete, slender, with longitudinal ridges, glabrous. Leaves pedately 5-foliolate; petiole 1–6 cm; central petiole 1.3–1.5 cm, petiolules of lateral leaflet complex 0.5–1.5 cm, lateral petiolules very short or lateral leaflets subsessile, glabrous; leaflets glabrous, lateral veins 5–7 pairs, veinlets inconspicuous; central leaflet lanceolate, 10–16 × 3–5 cm, base cuneate or rounded, apex acuminate; lateral leaflets 7–12 × 2–2.4 cm, base rounded or slightly cordate, margin undulately serrate, apex acuminate or mucronate. Inflorescence umbelliform, axillary; peduncle 1.5–2.5 cm, glabrous. Pedicel 1–1.2 mm, pilose. Buds oval, 1.8–2 mm, apex rounded. Calyx cupular, pilose, teeth fine, ca. 1/2 as long as petals. Petals oval, 1.6–1.8 mm, glabrous, apex galeate. Disk conspicuous, 4-lobed. Lower part of ovary adnate to disk; style short; stigma 4-lobed. Fl. Mar.

- Forests on hillsides or in valleys; 400–1200 m. Yunnan.

柔毛草崖藤  cao ya teng (yuan bian zhong)

Shrubs, erect, 40–100 cm tall. Branchlets terete, with longitudinal ridges, glabrous. Leaves 3-foliolate, rarely simple at base; petiole 5–8 cm; central petiolule 1–2 × as long as lateral petiolules, glabrous; leaflets glabrous, lateral veins 6–8 pairs, base of central leaflet cuneate, that of lateral leaflets oblique, subrounded, margin with 6–9 sparse teeth on each side, apex cuspidate. Inflorescence umbelliform, leaf-opposed or pseudoterminal, 8–15 cm; peduncle 2.5–3 cm. Pedicel 2–10 mm. Buds elliptic or oval, 1.5–2.5 mm, apex rounded. Calyx cupular, margin undulate. Petals elliptic, 1.3–2.3 mm, apex corniculate or ovate-elliptic, 1.5–2 mm, apex subtruncate or rounded. Calyx saucer-shaped, densely pubescent or papillose, margin undulate or subentire. Petals ovate-triangular, 1–1.5 cm, papillose, apex cuspidate. Compound dichasium. Pedicel glabrous. Berry globose, 1–1.5 cm in diam., 1-seeded. Filaments filiform; anthers yellow, oval. Disk well developed, 4-lobed. Pistil abortive in male flowers. Fl. Apr–May.


1a. Pedicel and calyx glabrous  
1b. Pedicel and calyx pubescent

4a. **Tetrastigma apiculatum** var. **apiculatum**

柔毛草崖藤  cao ya teng

Peduncle glabrous or slightly pubescent. Pedicel and calyx glabrous. Fl. Apr–May.


柔毛草崖藤  rou mao cao ya teng

Pedicel and calyx pubescent. Fl. Apr.

Forests on hillsides; ca. 500 m. Hainan. Yunnan.


长梗崖爬藤  chang geng ya pa teng

Lianas, woody. Branchlets terete, with slight longitudinal ridges, glabrous. Leaves simple: stipules caducous; petiole 2–4.5 cm, glabrous; leaf blade ovate-elliptic, 7.5–13 × 3.5–5.5 cm, glabrous, lateral veins 7 or 8 pairs, veinlets raised, base broadly cuneate, apex acuminate. Compound dichasium; peduncle 8–13.5 cm, glabrous. Pedicel 4–10 mm, apex rounded. Calyx cupular, glabrous, teeth inconspicuous. Petals elliptic, glabrous, apex corniculate. Filaments flat; anthers yellow, oval. Disk well developed, 4-lobed. Pistil abortive in male flowers. Fl. May.

Forest in valleys; 400–700 m. Guangxi.


易武崖爬藤  yi wu ya pa teng

Lianas, woody. Branchlets terete, with longitudinal ridges, glabrous; tendrils bifurcate. Leaves 3-foliolate; petiole 8.5–10.5 cm; central petirole 1.3–1.5 cm, lateral petiroleus 0.7–1.5 cm, glabrous; central leaflet obovate-elliptic; lateral leaflets elliptic, 11–15 × 4.5–7 cm, glabrous, lateral veins 4 or 5 pairs, veinlets raised, base of central leaflet broadly cuneate, that of lateral leaflets asymmetric and subrounded, margin entire, apex cuspidate. Compound dichasium. Pedicel glabrous. Berry globose, 1–1.5 cm in diam., 1-seeded. Seed elliptic, base rostrate, apex retuse, surface corrugated. Fl. Nov.

Forests in valleys; ca. 700 m. Yunnan.


金秀崖爬藤  jin xiu ya pa teng

Lianas, woody. Branchlets terete, with longitudinal ridges, densely ferruginous pubescent. Leaves 3-foliolate; petiole 6–9 cm; central petirole 2–3 cm, lateral petiroleus 1–2 cm, densely ferruginous pubescent; leaflets abaxially pubescent on veins; central leaflet obovate-elliptic, 12.5–26 × 6.5–12 cm, base broadly cuneate, margin entire on lower part, 7–9-toothed on upper part, apex acuminate; lateral leaflets ovate-elliptic, 10–21 × 5–11 cm, base asymmetric, subrounded or broadly cuneate, margin 5–9-toothed on each side, entire near base or on lower half, apex cuspidate. Inflorescence cymose and axillary, with 1 or 2 nodes and bracts; peduncle 3–10 cm, densely ferruginous pubescent. Pedicel 1–3 mm, densely pubescent. Buds narrowly oval, 1.5–2 mm, apex subtruncate or rounded. Calyx saucer-shaped, densely pubescent or papillose, margin undulate lobed or subentire. Petals ovate-triangular, 1–1.5 mm, papillose, apex galeate. Anthers oval. Disk well developed, 4-lobed. Pistil abortive in male flowers. Fl. May.

On trees in valleys; 300–500 m. Guangxi (Jinxiu).


柔毛川崖崖爬藤  rou mao wang mai ya pa teng

Lianas, woody. Branchlets terete, with longitudinal ridges, glabrous; tendrils bifurcate. Leaves 3-foliolate; petiole 3–4–9 cm; central petirole (0.8–)1.5–3 cm, lateral petiroleus (0.3–)1–1.5 cm, glabrous; leaflets oval, ovate-elliptic, or oblong, 7–15 × 4–7 cm, glabrous, lateral veins 5–8 pairs, veinlets raised, base rounded or subrounded, sometimes central leaflet broadly cuneate, base of lateral leaflets asymmetric, margin with 4–9 teeth on each side, apex acute or mucronate. Compound dichasium or umbel axillary; peduncle 3–5.5 cm, lower part nearly glabrous, upper part sparsely pubescent. Pedicel 1–2 mm, pubescent, rarely subglabrulate. Buds oval, 1.5–2.5 mm, apex rounded. Calyx shallow and saucer-shaped, papillose, rarely subglabrulate, margin with undulate teeth. Petals 4, ovate-elliptic, 1.3–2.3 mm,

- Forests or shrublands on hillsides; 400–1500 m. Guangxi, Yunnan.

*Tetrastigma retinervium* var. *retinervium* is known only from Vietnam.


多花崖爬藤 duo hua ya pa teng


Lianas, woody. Branchlets terete, with longitudinal ridges, glabrous; tendrils unbranched. Leaves palmately 3–5-foliolate; petiole 8–11 cm; central petiole 2.5–4.5 cm, lateral petioles 0.5–1.5 cm, glabrous; leaflets glabrous on both surfaces, lateral veins 5 or 6 pairs, veinlets inconspicuous; central leaflet obovate-elliptic, 8–15 × 5–8.5 cm, base broadly cuneate; lateral leaflets rhombic-ovate, base asymmetric and subrounded, margin with 3–5 fine teeth on each side, apex acute. Inflorescence a large compound dichasium, axillary or pseudoterminal; peduncle 1–2.5 cm, pilose, then glabrescent. Pedicel 1–2.5 mm, pubescent, then nearly glabrescent. Buds elliptic or obovoid-elliptic, 1–1.2 mm, apex rounded. Flowers small. Calyx teeth inconspicuous, pubescent, margin undulate. Petals gla ete, pubescent. Anthers yellow, ovoid. Disk well developed, 4-lobed. Lower part of ovary adnate to disk in female flowers; ovary cylindrical; style absent; stigma truncate, slightly 4-lobed. Berry purple-black when mature, elliptic, 1–1.5 cm × 6–10 mm, 1- or 2-seeded. Seeds elliptic and flat, base rostrate, apex retuse, ventral holes furrowed nearly to apex. Fl. Oct–Dec, fr. Dec to Apr.

Forests, forest margins, shrublands; 500–1100 m. S and W Yunnan [Bhutan, India, Myanmar, Thailand].


富宁崖爬藤 fu ning ya pa teng

Lianas, woody. Branchlets terete, with longitudinal ridges, glabrous; tendrils unbranched. Leaves 3-foliolate; stipules oval, ca. 3 × 4 mm, glabrous, apex acute; petiole 2.5–5 cm; petiolules 0.6–1.3 cm, central petiole longer than lateral ones, glabrous; leaflets elliptic or elliptic-lanceolate, 5–9 × 2–4 cm, glabrous, lateral veins 7 or 8 pairs, veinlets inconspicuous, base rounded, margin with 4–8 teeth on each side, apex acuminate or mucronate. Inflorescence umbelliform, leaf-opposed; peduncle ca. 1.5 cm, sparsely pubescent. Pedicel 2–2.5 mm, glabrous. Buds elliptic, 1.8–2 mm, sparsely papillosely, apex rounded. Calyx cupular, pubescent, teeth inconspicuous. Petals galeate at apex, sparsely papillosely. Filaments short; anthers oval. Disk thin. Lower part of ovary adnate to disk in female flowers; style inconspicuous; stigma 4-lobed. Fl. Apr.

- Rocky mountains and hillsides; ca. 1000 m. Yunnan (Funing).


广西崖爬藤 guang xi ya pa teng

Lianas, woody. Stems flat. Branchlets brown, terete, with longitudinal ridges, glabrous; tendrils unbranched. Leaves 3-foliolate; petiole 3–4.5 cm; petiolules 2–4 mm, glabrous; leaflets glabrous, lateral veins 4–8 pairs, veinlets inconspicuous; central leaflet obovate-lanceolate or obovate-lanceolate, 11.5–13 × 2.5–5 cm, base cuneate, margin with 4 or 5 undulate fine teeth on each side, apex acuminate or subdeltate so; lateral leaflets ovate-lanceolate or ovate-elliptic, 6.5–10.5 × 2.5–4.5 cm, base asymmetric and cuneate, apex acuminate or mucronate. Inflorescence umbelliform, axillary, 0.5–1.5 cm, basal part articulate and subtended by bracts; peduncle 5–10 mm, glabrous. Pedicel 2–3 mm, papillosely. Buds elliptic, ca. 2 mm, apex rounded. Calyx shallow and saucer-shaped, pubescent, margin undulate. Petals elliptic, apex rounded, densely papillosely. Filaments short; anthers yellow. Disk distinct, 4-lobed, inconspicuous in female flowers. Ovary coniform; style short and distinct; stigma 4-lobed. Berry elliptic, 1–1.2 cm in diam., 1- or 2-seeded. Seeds elliptic, base short, apex rounded, ventral holes furrowed nearly to apex. Fl. May–Jun, fr. Aug.

- Forests in valleys; 400–500 m. Guangxi.


十字崖爬藤 shi zi ya pa teng

Lianas, woody. Stems flat. Branchlets brown, terete, tuberculate, glabrous; tendrils unbranched. Leaves 3-foliolate; petiole 3–4.5 cm; petiolules 2–4 mm, glabrous; leaflets glabrous, lateral veins 4–8 pairs, veinlets inconspicuous; central leaflet elliptic-lanceolate or obovate-lanceolate, 11.5–13 × 2.5–5 cm, base cuneate, margin with 4 or 5 undulate fine teeth on each side, apex acuminate or subdeltate so; lateral leaflets ovate-lanceolate or ovate-elliptic, 6.5–10.5 × 2.5–4.5 cm, base asymmetric and cuneate, apex acuminate or mucronate. Inflorescence umbelliform, axillary, 0.5–1.5 cm, basal part articulate and subtended by bracts; peduncle 5–10 mm, glabrous. Pedicel 2–3 mm, papillosely. Buds elliptic, ca. 2 mm, apex rounded. Calyx shallow and saucer-shaped, papillosely, margin undulate. Petals elliptic, corniculate, papillosely. Anthers oval. Ovary coniform; style nearly absent; stigma 4-lobed. Berry globose, 1–1.2 cm in diam., 2-seeded. Seeds flat, obovoid, base rostrate, apex rounded, ventral holes furrowed from middle to apex. Fl. Apr–Aug, fr. Jul–Nov.

Forests, shrublands; 600–1600 m. S Yunnan [Thailand, Vietnam].


过山崖爬藤 guo shan ya pa teng

Lianas, woody. Branchlets brown, terete, ridged with...
Transverse corrugations when dry, ± tuberculate, glabrous; tendrils unbranched. Leaves 3-foliolate, rarely pedately 5-foliolate or 1- or 2-foliolate; petiolar 1.5–4.5 cm, with distinct wings and transverse corrugations when dry; petiolar 0.2–1.5 cm, central petiolar ca. as long as lateral ones, glabrous; leaflets glabrous, lateral veins 4–7 pairs, veinlets slightly raised or sometimes inconspicuous; central leaflet elliptic-lanceolate, 6.5–14 × 2.5–4.5 cm, base cuneate, margin with 4 or 5 undulate fine teeth on each side, apex acuminate or obtuse; lateral leaflets ovate-lanceolate or elliptic-lanceolate, 3.5–11 × 1.5–4 cm, base cuneate, rarely subrounded, usually asymmetric, margin with 3–5 undulate teeth on each side, apex acuminate or acute. Inflorescence umbellate, glomerate, short, 1–1.5 cm, ca. 1 cm in diam.; peduncle 3–10 mm, densely pubescent. Pedicel 0.5–1 mm, pubescent. Buds ovoid, 1–1.2 mm, apex rounded. Calyx saucer-shaped, pubescent, margin undulate. Petals elliptic, 0.5–1 mm, apex rounded. Berry globose, 6–7 mm in diam., 1-seeded. Seed oblong, base obtuse, apex subrounded, ventral holes furrowed from upper 1/3, surface with transverse ribs.

- Forests in valleys; 500–800 m. Hainan.

尾崖崖爬藤 wei ye ya pa teng
Lianas, woody. Branchlets terete, with longitudinal ridges, glabrous; tendrils unbranched. Leaves 3-foliolate or simple, rarely 2-foliolate or 5-foliolate, rarely pedately 5-foliolate at lower part of stem; petiolar 2.5–7 cm; central petiolar 1.5–4 cm, lateral petiolar 0.5–1.5 cm, glabrous; leaflets lanceolate, elliptic-lanceolate, or ovate-lanceolate, 6–14 × (2–)3–5 cm, glabrous, lateral veins 4–6 pairs, veinlets inconspicuously raised, base of central leaflet cuneate or broadly cuneate, base of lateral leaflets asymmetric and subrounded, margin with 4–6 obtuse and dentate teeth on each side, teeth rarely fine and inconspicuous, apex acuminate-acuminate. Inflorescence umbelliform, axillary, 2.5–3 cm, articulate and subtended with bracts; peduncle 1–3.5 cm, pubescent. Pedicel 2–4 mm, with appressed hairs. Buds bottle-shaped, constricted near upper middle, 2–3 mm, apex truncate or obtuse. Calyx saucer-shaped, glabrous, with 4 triangular denticles. Petals ovate-elliptic, 1.5–2.5 mm, apex acuminate, glabrous. Filaments filiform, ca. 0.7 mm; anthers yellow, ovoid-elliptic, ca. 0.5 mm. Disk distinct, 4-lobed. Lower part of ovary adnate to disk; style distinct, base slightly thick; stigma conspicuously 4-lobed. Berry elliptic, 1–1.5 cm × 6–8 mm in diam., 1-seeded. Seed flat, elliptic, base obtuse, apex subrounded, ventral holes furrowed, parallel, nearly reaching apex. Fl. May–Jul, fr. Sep–Apr.
- Forests in valleys, shrublands on hillsides; 200–700 m. Fujian, Guangdong, Guangxi, Hainan [Vietnam].

15. Tetrastigma erubescens Planchon in A. Candolle & C. Candolle, Monogr. Phan. 5: 444. 1887.
红枝崖爬藤 hong zhi ya pa teng
Lianas, woody. Branchlets terete, with longitudinal ridges, glabrous; tendrils unbranched. Leaves 3-foliolate; petiolar 2–10 mm, glabrous; leaflets elliptic or elliptic-lanceolate, 8–16 × 5–5.5 cm, glabrous, lateral veins 4–7 pairs, veinlets raised abaxially, inconspicuous adaxially, base broadly cuneate or subrounded, margin with 5–8, sparse, fine teeth on each side, apex mucronate. Inflorescence umbelliform, axillary, with 2 or 3 nodes; bracts subtending nodes; peduncle 2–3.5 cm, pubescent. Pedicel 2–3 cm, reddish brown pubescent. Buds oval, 1.5–2 mm, apex subrounded. Calyx shallow and saucer-shaped, pubescent, teeth inconspicuous. Petals 1.2–1.8 mm, apex corniculate, glabrous or subglabrate. Disk distinct, 4-lobed. Lower part of ovary adnate to disk; style distinct; stigma 4-lobed. Berry oblong, 1.3–1.5 cm × 6–7 mm, 2-seeded. Seeds elliptic, apex subrounded, ventral holes inconspicuous. Fl. Apr–May, fr. next Apr–May.
- Forests, rocky crests; 100–1100 m. Guangdong, Guangxi, Hainan, Yunnan [Cambodia, Vietnam].

15a. Tetrastigma erubescens var. erubescens
红枝崖爬藤 (原变种) hong zhi ya pa teng (yuan bian zhong)

Tetrastigma erubescens var. monospermum Gagnepain.
- Leaves 3-foliolate, sometimes palmately 5-foliolate; central petiolar 1–3 cm, lateral petiolar short; central leaflet base broadly cuneate, margin 7- or 8-toothed on each side; lateral leaflets base slightly asymmetric, rounded.
- Forests, rocky crests; 100–1100 m. Guangdong, Guangxi, Hainan, Yunnan [Cambodia, Vietnam].

15b. Tetrastigma erubescens var. monophyllum
Gagnepain in Lecomte, Fl. Indo-Chine 1: 960. 1912.

单叶红枝崖爬藤 dan ye hong zhi ya pa teng

Tetrastigma monophyllum (Gagnepain) C. Y. Wu ex W. T. Wang.
- Leaves sometimes lavender in color, mostly simple, rarely (2- or)3-foliolate, leathery.
- Forests; 100–500 m. S Yunnan [Vietnam].


马关崖爬藤 ma guan ya pa teng
Lianas, woody. Branchlets terete, slender, with conspicuous longitudinal ridges, glabrous. Leaves 3-foliolate; stipules caducous; petiolar 5.5–7 cm; central petiolar ca. 2.5 cm, lateral petiolar 1–1.5 cm, glabrous; leaflets ovate-elliptic, 14.5–15.5 × 5.5–6 cm, glabrous, lateral veins 9 or 10 pairs, abaxially veinlets distinct but not raised, adaxially raised, base rounded, apex cuspidate. Compound dichasium, axillary, ca. 3 cm; peduncle ca. 1.7 cm, slightly papillose. Pedicel 1–1.5 mm, papillose. Buds ovoid-elliptic, 2–2.5 mm. Calyx cupular, papillose, teeth irregular. Petals elliptic, corniculate, glabrous. Filaments abortive and anther sterile in female flowers. Disk well developed in female flowers, undulately lobed. Lower part of ovary adnate to disk; style short; stigma 4-lobed. Fl. Jun.
- Forests, ca. 1600 m. Yunnan.

蒙自崖爬藤 meng zi ya pa teng


Lianas, woody. Branchlets terete, with longitudinal ridges, glabrous or slightly pubescent; tendrils unbranched. Leaves 3-foliolate to pedately 5-foliolate, rarely 7-foliolate; petiole 2.5–10.5 cm; central petiole 1–2 cm, lateral petioles 0.5–1.5 cm, glabrous; leaflets elliptic or elliptic-lanceolate, 5.5–14 × 2–5 cm, lateral veins 6–8 pairs, veinlets inconspicuous, base of central leaflet broadly cuneate, base of lateral leaflets asymmetric, broadly cuneate, or subrounded, margin 6–8-toothed on each side, apex acuminate or caudately so. Inflorescence umbelliform, axillary, 2–6 cm; peduncle 1.5–3 cm, pubescent. Pedicel 2–4 mm, pubescent. Buds oval, 2–2.5 mm. Calyx cupular, pubescent, teeth lanceolate, ca. 1/2 as long as petals. Petals 1.7–2.2 mm, coriaceous with ciliate margins at apex. Disk distinct, 4-lobed. Lower part of ovary adnate to disk; style short; stigma 4-lobed. Berry broadly elliptic to spheroid, 6–8 mm in diam., 1–4-seeded. Seeds oval, base sharp, apex rounded, ventral holes furrowed from middle to near apex. Fl. Apr, fr. Jun–Sep.

- Forests in valleys and on slopes; 600–1600 m. Guizhou, Xizang, Yunnan.

Wang (Acta Phytotax. Sin. 17(3): 81. 1979) recognized *Tetrastigma henryi* var. *mollifolium*. The pubescence on the leaves is variable, even among the syntypes of *T. henryi*: A. Henry 9992A (K) and A. Henry 11756 (K) have glabrous leaves, whereas A. Henry 10530A (K) and A. Henry 10530C (K) have densely pubescent leaves.


红花崖爬藤 hong hua ya pa teng

Lianas, woody. Branchlets terete, with longitudinal ridges, pubescent; tendrils unbranched. Leaves simple, papery; petiole 0.8–3 cm, sparsely pubescent, then glabrescent; leaflets elliptic or elliptic-lanceolate, 6.5–14 × 3.5–6.5 cm, abaxially pilose on veins, then glabrescent, lateral veins 8 or 9 pairs, usually 2 or 3 pairs near base, veinlets inconspicuous, base rounded, margin 8–19-toothed on each side, apex acuminate. Inflorescence umbelliform, axillary; peduncle 1–1.5 cm, pubescent. Buds oval, 1.5–2 cm. Calyx cupular, densely pubescent, teeth ca. 1/2 as long as petals. Petals oval, 1.3–1.8 mm, long coriaceous, densely pubescent. Filaments distinctly abortive in female flowers; anthers small, suborbicular. Disk distinct, 4-lobed. Lower part of ovary adnate to disk; style short; stigma inconspicuously expanded, 4-lobed. Berry globose, 1–1.2 cm in diam., 2- or 3-seeded. Seeds elliptic, base obtuse, apex rounded, ventral holes furrowed from 1/3 above base upward to apex. Fl. Mar, fr. Jun–Jul.

- Forests in valleys; 1000–1400 m. Yunnan.


扁担藤 bian dan teng

**Vitis planicaulis** J. D. Hooker, Bot. Mag. 94: t. 5685. 1868.

Lianas, woody. Stem flat. Branchlets terete or slightly flat with longitudinal ridges, glabrous; tendrils unbranched. Leaves palmately 5-foliolate; petiole 3–11 cm, glabrous; petiololes 0.5–3 cm, central petiolo 2–4 × as long as lateral petiololes, glabrous; leaflets elliptic-lanceolate, lanceolate, or ovate-lanceolate, (6–)9–16 × (2.5–)3–6(–7) cm, glabrous, lateral veins 5 or 6 pairs, veinlets raised, base cuneate, margin 5–9-toothed on each side, teeth inconspicuous or fine, rarely large, apex acuminate or acute. Inflorescence umbelliform, axillary, 15–17 cm, with nodes and brown bracts, rarely leaf-opposed and without nodes and bracts; peduncle 3–4 cm, glabrous. Pedicel 3–10 mm, glabrous or sparsely pilose. Buds oval, 2.5–3 mm, apex obtuse. Calyx shallow and saucer-shaped, papillate, teeth inconspicuous. Petals ovate-triangular, 2.2–5 mm, apex galeate, sparsely pilose. Filaments filiform; anthers yellow, oval, short and abortive in female flowers. Disk well developed, 4-lobed, or inconspicuous and annular in female flowers. Ovary broadly coniform, base papillate; style inconspicuous; stigma 4-lobed. Berry globose, 2–3 cm in diam., 1- or 2(or 3)-seeded. Seeds oblong, base sharp, apex rounded, ventral holes furrowed from base to apex. Fl. Apr–Jun, fr. Aug–Dec.

Forests in valleys, rocks; 100–2100 m. Fujian, Guangdong, Guangxi, Guizhou, S and E Xizang, Yunnan [India, Laos, Sri Lanka, Vietnam].


茎花崖爬藤 jing hua ya pa teng


Lianas, woody. Stem grayish brown, flat. Branchlets slightly flat, with longitudinal ridges, glabrous; tendrils unbranched. Leaves palmately 5-foliolate; petiole 10–15 cm; petiololes 1–4 cm, central petiolo 2–3 × as long as lateral petiololes, glabrous; leaflets oblong, elliptic-lanceolate, or obovate-elliptic, 8–18(–22) × 3.5–9 cm, glabrous, lateral veins 6–8 pairs, veinlets raised abaxially, inconspicuous adaxially, base broadly cuneate or subrounded, margin 5–9-toothed on each side, teeth usually large, apex cuspidate. Inflorescence umbelliform or a compound dichasium, cauliflorous, 9–11 cm, with nodes and bracts; peduncle 2.5–8 cm, glabrous or pubescent. Pedicel 2–8 mm, pubescent. Buds elliptic or oval, 1–3 mm, apex obtuse or rounded. Calyx saucer-shaped, pubescent, teeth inconspicuous. Petals oval, 0.8–2.5 mm, apex galeate, papillate. Filaments filiform; anthers yellow, oval. Disk well developed and 4-lobed in male flowers, inconspicuous in female flowers. Pistil in male flowers abortive; ovary oval in female flowers; style inconspicuous; stigma 4-lobed. Berry globose, 1.5–2.2 × 1.2–2.2 cm, 1–4-seeded. Seeds elliptic, flat, base and apex subrounded, ventral holes furrowed from base to apex. Fl. Apr, fr. Jun–Dec.

Forests in valleys; 100–1100 m. Guangdong, Guangxi, Hainan, Yunnan [Laos, Vietnam].


西畴崖爬藤 xi chou ya pa teng
Lianas, woody. Stem flat. Branchlets slightly flat or terete; tendrils unbranched. Leaves palmately 5-foliolate; petiole 5–20 cm; petiolules 1.5–5 cm, central petiolule longer than lateral petiolules; leaflets obovate-elliptic or obovate-oblong, 6–20 × 3.5–10 cm, lateral veins 6–8 pairs, veinlets raised abaxially, inconspicuous adaxially, base cuneate or broadly so, base of lateral leaflets asymmetric and subrounded, margin (6–)8–13-toothed on each side, apex crenate-acuminate or cuspidate. Inflorescence umbelliform, axillary, with nodes and bracts; peduncle 2–4 cm, densely pubescent. Pedicel 3–4 mm, densely pubescent. Buds ovoid-elliptic, 3–4 mm, apex rounded. Calyx shallow and saucer-shaped, papillate, margin undulate. Petals elliptic, 2.5–3.5 mm, apex galeate, papillose. Filaments slender; anthers abortive in female flowers. Disk inconspicuous in female flower. Ovary coniform, papillate or nearly glabrous; stigma 4-lobed. Berry spheroid, 2–3 cm in diam., 2–3 cm in diam., (1 or)2- or 3-seeded. Seeds oblong, base rostrate, apex retuse, ventral holes furrowed from middle to apex. Fl. Apr–May, fr. Jun–No.

Forests in valleys; 500–2400 m. Guizhou, Xizang, Yunnan [Vietnam].

1a. Leaflets abaxially densely ferruginous pubescent, then sparsely so when old

................................. 21a. var. sichouense

1b. Leaflets abaxially glabrous ......... 21b. var. megalocarpum

21a. Tetrastigma sichouense var. sichouense

21b. Tetrastigma sichouense var. megalocarpum


毛枝崖爬藤 mao zhi ya pa teng


Lianas, woody. Stem slightly flat. Branchlets terete, with longitudinal ridges, densely hisrate, hairs 1–3 mm; tendrils unbranched. Leaves palmately 5-foliolate; petiole 10–16 cm; petiolules 0.8–3 cm, densely hisrate; leaflets abaxially hisrate, adaxially with sparse appressed pilose hairs on veins or glabrescent, lateral veins 6–8 pairs, veinlets distinct; central leaflet obovate-elliptic; lateral leaflets elliptic, 7–20 × 4–10 cm, base broadly cuneate, asymmetric, margin 6–15-toothed on each side, teeth large or sometimes inconspicuous, apex cuspidate. Inflorescence compound, broad and umbelliform dichasium, axillary, 5–10 cm; peduncle 4–5 cm, hisrate. Pedicel 2–4 mm, densely hisrate. Buds oval, apex obtuse. Calyx pilose, with 4 triangular teeth. Petals oval, apex galeate, pilose. Filaments expanded at base; anthers yellow, ovoid. Disk inconspicuous in female flowers. Ovary coniform, hisrate; style conspicuous, slightly thick at base; stigma 4-divided. Berry orange, spheroid, 2–3 cm in diam., (1 or)2- or 3-seeded. Seeds oblong, base rostrate, apex retuse, ventral holes furrowed from middle to apex. Fl. Jun, fr. Aug–Dec.

Forests, forest margins, shrublands, mountain slopes, valleys; 200–1900 m. Yunnan [India (Khasia hills), Laos, Thailand, Vietnam].


西藏崖爬藤 xi zang ya pa teng

Lianas, woody. Branchlets terete, lenticels conspicuous, glabrous. Leaves pedately 4- or 5-foliolate; petiole ca. 5 cm; petiolules 1–1.6 cm, glabrous; leaflets elliptic, 5–13 × 4.5–5 cm, glabrous, lateral veins 9 or 10 pairs, veinlets slightly raised abaxially, inconspicuous adaxially, base rounded or broadly cuneate, margin sparsely toothed, apex acuminate or acute. Corumbbose cyrne leaf-opposed; peduncle ca. 1.5 cm, glabrous. Pedicel 2–5 mm, pubescent. Buds ovoid-elliptic, 1.5–2 mm, apex subrounded. Calyx saucer-shaped, pubescent, margin undulately toothed. Petals oval, apex galeate, pubescent. Style short, thick; stigma 4-lobed. Fl. Apr.

● Forests; 800–900 m. Xizang.


临沧崖爬藤 lin cang ya pa teng

Lianas, woody. Branchlets terete, with longitudinal ridges, glabrous; tendrils unbranched. Leaves pedately 5-foliolate; petiole 3.5–7 cm; central petiolule 1–2 cm, lateral petiolules 0.4–1 cm, glabrous; leaflets elliptic or obovate-elliptic, 8–15 × 3–7 cm, glabrous, lateral veins 5–8 pairs, veinlets distinctly raised abaxially, slightly raised adaxially, base cuneate, base of lateral leaflets asymmetric, upper margin with 5–7 fine teeth on each side, apex acute or cuspidate. Inflorescence umbelliform, axillary, 1.2–1.5 cm, 1.5–2 cm in diam.; peduncle ca. 0.2 cm, pubescent. Pedicel short or flower sessile. Buds obovoid, ca. 1.5 mm, apex subtruncate. Calyx saucer-shaped, gray pilose, margin with 4 triangular denticles. Petals elliptic, ca. 1.2 mm, apex galeate, with gray hairs. Filaments short, ca. 0.3 mm; anthers yellow, oval, ca. 0.5 mm. Disk inconspicuous, annular. Ovary coniform, lower part of ovary adnate to disk; style inconspicuous; stigma 4-lobed. Berry spheroid, 0.8–1 cm in diam., 1- or 2-seeded. Seeds elliptic, base sharp, apex retuse, back chalazal knot zonate, with transverse and obtuse ribs, ventral holes furrowed from upper middle to apex. Fl. Mar, fr. Jun–Sep.

● Forests; 1300–2100 m. SW Yunnan.


景洪崖爬藤 jing hong ya pa teng

Lianas, woody. Branchlets terete, with longitudinal ridges, glabrous; tendrils unbranched. Leaves palmately 5-foliolate; petiole 10–16 cm; petiolules 0.8–3 cm, densely hisrate; leaflets abaxially hisrate, adaxially with sparse appressed pilose hairs on veins or glabrescent, lateral veins 6–8 pairs, veinlets distinct; central leaflet obovate-elliptic; lateral leaflets elliptic, 7–20 × 4–10 cm, base broadly cuneate, asymmetric, margin 6–15-toothed on each side, teeth large or sometimes inconspicuous, apex cuspidate. Inflorescence compound, broad and umbelliform dichasium, axillary, 5–10 cm; peduncle 4–5 cm, hisrate. Pedicel 2–4 mm, densely hisrate. Buds oval, apex obtuse. Calyx pilose, with 4 triangular teeth. Petals oval, apex galeate, pilose. Filaments expanded at base; anthers yellow, ovoid. Disk inconspicuous in female flowers. Ovary coniform, hisrate; style conspicuous, slightly thick at base; stigma 4-divided. Berry orange, spheroid, 2–3 cm in diam., (1 or)2- or 3-seeded. Seeds oblong, base rostrate, apex retuse, ventral holes furrowed from middle to apex. Fl. Jun, fr. Aug–Dec.

Forests, forest margins, shrublands, mountain slopes, valleys; 200–1900 m. Yunnan [India (Khasia hills), Laos, Thailand, Vietnam].


原变种 yuan bian zhong

Lianas, woody. Branchlets slightly flat or terete; tendrils unbranched. Leaves palmately 5-foliolate; petiole 5–20 cm; petiolules 1.5–5 cm, central petiolule longer than lateral petiolules; leaflets obovate-elliptic or obovate-oblong, 6–20 × 3.5–10 cm, lateral veins 6–8 pairs, veinlets raised abaxially, inconspicuous adaxially, base cuneate or broadly so, base of lateral leaflets asymmetric and subrounded, margin (6–)8–13-toothed on each side, apex crenate-acuminate or cuspidate. Inflorescence umbelliform, axillary, with nodes and bracts; peduncle 2–4 cm, densely pubescent. Pedicel 3–4 mm, densely pubescent. Buds ovoid-elliptic, 3–4 mm, apex rounded. Calyx shallow and saucer-shaped, papillate, margin undulate. Petals elliptic, 2.5–3.5 mm, apex galeate, papillate. Filaments slender; anthers abortive in female flowers. Disk inconspicuous in female flower. Ovary coniform, papillate or nearly glabrous; stigma 4-lobed. Berry spheroid, 2–3 cm in diam., (1 or)2- or 3-seeded. Seeds oblong, base rostrate, apex retuse, ventral holes furrowed from middle to apex. Fl. Apr–May, fr. Jun–Nov.

Forests in valleys; 500–2400 m. Guizhou, Xizang, Yunnan [Vietnam].

266. 1910.
Lianas, woody. Stem flat. Branchlets terete, with longitudinal ridges, glabrous. Leaves pedately 7-foliolate; petiole 12–15 cm; central petiule 2.5–4 cm, petiules of lateral leaflet complex ca. as long as central petiule, lateral petiules short, glabrous; leaflets elliptic-lanceolate or elliptic, 5–18 × 3–7 cm, glabrous, lateral veins 4–9 pairs, veinlets raised, base cuneate, base of lateral leaflets asymmetric, margin undulate with 4–10 fine teeth on each side, apex acuminate or cuspidate. Inflorescence umbelliform, axillary; peduncle 1–1.5 cm, pubescent. Pedicel 2–4 mm, pubescent. Buds ovoid-coniform, 2.6–3 mm, upper middle constricted, apex rounded. Calyx saucer-shaped, papilllose, margin undulate lobed. Petals 4, ovate-elliptic, 2.5–2.8 mm, apex galeate, papilllose. Disk thin in female flowers. Ovary coniform; style inconspicuous; stigma 4-lobe. Berry globose, 1–1.8 cm in diam., 1- or 2-seeded. Seeds elliptic, base obtuse, apex retuse, ventral holes furrowed, parallel at lower portion, tapering from middle to apex. Fl. Mar, fr. Jul–Nov.

- Forests by rivers or on hillsides; 700–1200 m. Yunnan.


西双版纳崖爬藤 xi shuang ban na ya pa teng

Lianas, woody. Branchlets gray, terete, transversely corrugated when dry, flaky when old, glabrous; tendrils bifurcate. Leaves pedately 5–7-foliolate; petiole 6.5–9 cm; central petiule 2–4.5 cm, petiules of lateral leaflet complex 2–4 cm, lateral petiules 0.5–1.5 cm, glabrous; leaflets elliptic or ovate-elliptic, 7–13 × 4–7.5 cm, lateral leaflets nearly as long as or slightly shorter than central leaflet, glabrous, lateral veins 3–5 pairs, veinlets inconspicuous, base broadly cuneate or subrounded, margin 3–5-toothed on each side, teeth fine, sometimes inconspicuous, apex acute or cuspidate. Dichasium axillary, ca. 7 cm; peduncle ca. 2.8 cm, glabrous. Buds elliptic, 2.5–3.3 cm, apex rounded. Calyx saucer-shaped, glabrous, margin undulate lobed. Petals elliptic, 2–2.5 cm, apex galeate, glabrous. Stamens 4; anthers elliptic. Disk distinct and 4-lobe. Berry globose or pyriform, 2.5–3 cm in diam., base cuneate, margin 3–5-toothed on each side, apex obtuse or acuminate, ventral holes furrowed upward from base to apex. Fl. Apr–Jul, fr. May–Oct.

- Forests in valleys or on hillsides; 600–1100 m. Yunnan.


厚叶崖爬藤 hou ye ya pa teng


Lianas, woody. Stem flat, often tuberculate. Branchlets terete, with longitudinal ridges, sparsely tuberculate, glabrous; tendrils unbranched. Leaves pedately 5-foliolate or 3-foliolate; petiole 4.5–9.5 cm; petiules 1.5–4 cm, glabrous; leaflets obovate or obovate-elliptic, sometimes lateral leaflets elliptic or ovate-elliptic, 4–10 × 2–4 cm, lateral veins 5 or 6 pairs, veinlets slightly raised abaxially, inconspicuous adaxially, base cuneate or broadly so, base of lateral leaflets asymmetric, margin sparsely 4- or 5-toothed on each side, glabrous, apex cuspidate. Compound dichasium axillary, 9.5–10 cm, with nodes and bracts; peduncle 1–1.5 cm, densely pubescent. Pedicel 2–3 mm, pubescent, more elongated and tuberculate at fruiting stage. Buds elliptic, ca. 2 mm, apex rounded. Calyx saucer-shaped, papilllose, teeth inconspicuous. Petals ovate-elliptic, ca. 1.8 mm, apex slightly and obtusely corniculate, papilllose. Disk inconspicuous in female flowers. Ovary narrowly coniform; style inconspicuous; stigma 4-lobe. Berry globose, 1.8 cm in diam., 1- or 2-seeded. Seeds elliptic, base with a sharp, short rostrum, apex retuse, ventral holes furrowed upward from middle to apex. Fl. Apr–Jul, fr. May–Oct.

Lowland forests or shrublands. Guangdong, Hainan [Laos, Vietnam].


柄果崖爬藤 bing guo ya pa teng

Lianas, woody. Branchlets gray, terete, sparsely tuberculate, glabrous; tendrils unbranched. Leaves pedately 5-foliolate; petiole 4–9.5 cm; central petiule 1.5–2.6 cm, lateral petiules 2–8 mm, glabrous; leaflets glabrous, lateral veins 4–6 pairs, veinlets inconspicuous; central leaflet obovate or obovate-elliptic, 5–11 × 3–4.5 cm, base cuneate, margin with 4 or 5 obtuse teeth at upper middle half on each side, apex cuspidate, rarely acuminate; lateral leaflets elliptic or ovate-elliptic, 4–8 cm, base cuneate or broadly so, asymmetric, apex mucronate or cuspidate. Inflorescence umbelliform, axillary, ca. 10 × 6 cm; peduncle 6–6.6 cm, glabrous. Pedicel 2–6 mm, glabrous. Buds elliptic, ca. 2 mm, apex rounded. Calyx saucer-shaped, glabrous, teeth inconspicuous. Petals ovate-elliptic, apex galeate, glabrous. Stamens abortive and shorter than pistil in female flowers. Disk inconspicuous in female flowers. Ovary ovoid; style inconspicuous; stigma 4-lobe. Berry obovoid-elliptic, 1.2–1.4 cm × 8–10 mm, 1-seeded. Seed elliptic, base gradually tapering, apex rounded, ventral holes furrowed upward from base to apex. Fl. Apr–Aug, fr. May–Nov.

Lowland forests or shrublands. Guangdong, Hainan [Cambodia, Laos, Thailand, Vietnam].


毛脉崖爬藤 maou mai ya pa teng

Lianas, woody. Branchlets gray, terete, transversely corrugated when dry, pubescent, then glabrescent; tendrils unbranched. Leaves pedately 5-foliolate; petiole 4–9.5 cm; central petiule 1.5–2.6 cm, lateral petiules 2–8 mm, glabrous; leaflets glabrous, lateral veins 4–6 pairs, veinlets inconspicuous; central leaflet obovate or obovate-elliptic, 5–11 × 3–4.5 cm, base cuneate, margin with 4 or 5 obtuse teeth at upper middle half on each side, apex cuspidate, rarely acuminate; lateral leaflets elliptic or ovate-elliptic, 4–8 cm, base cuneate or broadly so, asymmetric, apex mucronate or cuspidate. Inflorescence umbelliform, axillary, ca. 10 × 6 cm; peduncle 6–6.6 cm, glabrous. Pedicel 2–6 mm, glabrous. Buds elliptic, ca. 2 mm, apex rounded. Calyx saucer-shaped, glabrous, teeth inconspicuous. Petals ovate-elliptic, apex galeate, glabrous. Stamens abortive and shorter than pistil in female flowers. Disk inconspicuous in female flowers. Ovary ovoid; style inconspicuous; stigma 4-lobe. Berry obovoid-elliptic, 1.2–1.4 cm × 8–10 mm, 1-seeded. Seed elliptic, base gradually tapering, apex rounded, ventral holes furrowed upward from base to apex. Fl. Apr–Aug, fr. May–Nov.

Lowland forests or shrublands. Guangdong, Hainan [Cambodia, Laos, Thailand, Vietnam].
toothed on each side, apex acute, acuminate, or obtuse. Inflorescence umbelliform, axillary, with nodes and bracts at lower portion; peduncle 1.3–2 cm, pubescent. Pedicel (2–)3–4 mm, pubescent. Buds obovoid, 2.5–3.5 mm, apex truncate. Calyx shallow and saucer-shaped, papillose, teeth inconspicuous. Petals elliptic, 2–3 mm, apex corniculate, papillose. Anthers yellow, elliptic. Disk inconspicuous and annular in female flowers. Ovary ovoid, lower part of ovary adnate to disk; style inconspicuous; stigma 4-lobed. Berry globose, 8–10 mm in diam., 2- or 3-seeded. Seeds obovoid-triangular, base attenuate, anther retuse, ventral holes furrowed upward 1/3 from middle. Fl. Apr–May, fr. Jul–next May.

Forests on hillsides or in valleys; 500–2500 m. Xizang, Yunnan [Bhutan, India, Laos, Nepal, Thailand, Vietnam].

31a. Ovary glabrous .......................... 31a. var. rumicispernum
1b. Ovary ferruginous pilose .......................... 31b. var. lasiogynum


锈毛喜马拉崖爬藤 xiu mao xi ma la ya ya pa teng


• Forests in valleys. Yunnan.


角花崖爬藤 jiao hua ya ya pa teng

Lianas, robust, woody. Branchlets terete, pubescent, glabrous; tendrils unbranched. Leaves peltately 5-foliolate; petiole 3–7.5 cm; central petiole 0.5–1.5 cm, petiololes of lateral leaflet complex 0.5–1.8 cm, lateral petiololes short or lateral leaflets sessile, glabrous; leaflets obovate-elliptic or obovate-lanceolate, 5–12 × 2.5–5 cm, glabrous, lateral veins 5–8 pairs, veinlets inconspicuous abaxially, raised adaxially, base cuneate, base of lateral leaflets asymmetric, margin 4–9-toothed on each side, teeth sharp, apex acute or mucronate. Compound dichasial terminal, axillary, or pseudoterminal, axillary inflorescences with nodes and bracts; peduncle 1–6 cm, glabrous. Pedicel 2–4 mm, glabrous. Buds bottle-shaped, 1.5–2 mm, apex subtruncate. Calyx cupular, glabrous, margin undulate. Petals elliptic, 1.3–1.5 mm, apex cornicate, glabrous. Filaments filiform, ca. 1 mm; anthers yellow, ovoid-elliptic, ca. 0.9 × 0.7 mm. Disk conspicuous, 4-lobed, inconspicuous and annular in female flowers. Ovary ovoid-coniform, lower part of ovary adnate to disk; style short; stigma 4-divided. Berry purple-black, ovoid, 1–2 cm in diam., 2- or 3-seeded. Seeds obovoid-triangular, base sharp, apex rounded or retuse. Fl. Apr–May, fr. Sep–Dec.

Lianas, woody. Branchlets terete, with longitudinal ridges and distinct lenticels, glabrous; tendrils bifurcate. Leaves pedately 7– or 8-foliolate; petiole 3–10(–18) cm; central petiolo 0.8–2 cm, petiololes of lateral leaflet complex usually ca. as long as that of central petiolo, lateral petiololes very short or lateral leaflet sessile, glabrous; central leaflet obovate-elliptic or lanceolate, 8–15(–21) × 2–7 cm, lateral leaflets 2.5–15 cm, glabrous, lateral veins 5–9 pairs, veinlets inconspicuous, margin 5–15-toothed on each side. Inflorescence umbelliform, axillary, or leaf-opposed or pseudo-terminal on lateral branches, 4–13 cm; peduncle 5–8 cm, pubescent. Pedicel 1–3 mm, pilose. Petals elliptic or oval, 1.3–1.7 mm, apex galeate, glabrous. Stamens 4; filaments filiform, longer than pistil in male flowers; stamens 4; filaments filiform, longer than pistil in male flowers; anthers yellow, oval. Disk developed either in female or male flowers, 4-lobed. Lower part of ovary adnate to disk; style inconspicuous; stigma expanded, 4-lobed. Berry purple at maturity, spheroid, 0.8–1.5 cm in diam., 3- or 4-seeded. Seeds obovoid-triangular, base attenuate to rostrum, apex retruse. Fl. June–July, fr. Oct–March.

Forests or shrublands in valleys; 1000–2500 m. Guangxi, Guizhou, Yunnan [Myanmar, Vietnam].


七小叶崖爬藤 qi xiao ye ya pa teng


Lianas, woody. Branchlets terete, with longitudinal ridges and distinct lenticels, glabrous; tendrils bifurcate. Leaves pedately 7– or 8-foliolate; petiole 3–10(–18) cm; central petiolo 0.8–2 cm, petiololes of lateral leaflet complex usually ca. as long as that of central petiolo, lateral petiololes very short or lateral leaflet sessile, glabrous; central leaflet obovate-elliptic or lanceolate, 8–15(–21) × 2–7 cm, lateral leaflets 2.5–15 cm, glabrous, lateral veins 5–9 pairs, veinlets inconspicuous, margin 5–15-toothed on each side. Inflorescence umbelliform, axillary, or leaf-opposed or pseudo-terminal on lateral branches, 4–13 cm; peduncle 5–8 cm, pubescent. Pedicel 1–3 mm, pilose. Petals elliptic or oval, 1.3–1.7 mm, apex galeate, glabrous. Stamens 4; filaments filiform, longer than pistil in male flowers; anthers yellow, oval. Disk developed either in female or male flowers, 4-lobed. Lower part of ovary adnate to disk; style inconspicuous; stigma expanded, 4-lobed. Berry purple at maturity, spheroid, 0.8–1.5 cm in diam., 3- or 4-seeded. Seeds obovoid-triangular, base attenuate to rostrum, apex retruse. Fl. June–July, fr. Oct–March.

Forests or shrublands in valleys; 1000–2500 m. Guangxi, Guizhou, Yunnan [Myanmar, Vietnam].


三叶崖爬藤 san ye ya pa teng


Lianas, slender. Branchlets with longitudinal ridges, glabrous or sparsely pilose; tendrils unbranched. Leaves 3-foliolate; petiole 2–7.5 cm; petiololes winged adaxially, glabrous or sparsely pilose, central petiolo 0.5–1.8 cm, lateral petiololes


Forest in valleys; 1700–1800 m. Yunnan.


七小叶崖爬藤 qi xiao ye ya pa teng


Lianas, woody. Stem tuberulate. Branchlets terete, with longitudinal ridges and distinct lenticels, glabrous; tendrils bifurcate. Leaves pedately 5-foliolate; petiole 4–8 cm; central petiolo 1–2.5 cm, petiololes of lateral leaflet complex 0.7–2 cm, lateral petiololes 4–10 mm, glabrous; leaflets obovate-elliptic or elliptic, 4–16 × 2.5–6 cm, glabrous, lateral veins 6 or 7 pairs, veinlets inconspicuously raised, base rounded or broadly cuneate, base of lateral leaflets asymmetric, margin with undulate teeth, apex acute or cuspidate. Compound dichasium axillary, loosely arranged; peduncle 2–3 cm, pubescent or glabrous. Pedicel 3–4 mm, pubescent. Buds ovoid-elliptic, 2–3 mm, apex obtuse. Calyx cupular, pubescent or glabrous; leaflets lanceolate, 4–10 × 2.5–6 cm, pubescent. Filaments short; anthers yellow, oval. Disk well developed in female or male flowers, 4-lobed. Lower part of ovary adnate to disk; style inconspicuous; stigma expanded, 4-lobed. Berry purple at maturity, spheroid, 0.8–1.5 cm in diam., 3- or 4-seeded. Seeds obovoid-triangular, base attenuate to rostrum, apex retruse. Fl. May.

Shrubs or forests on hillsides or riversides; 1000–1500 m. Yunnan [Vietnam].

This name was previously published by Gagnepain (in Humbert, Fl. Indo-Chine, Suppl. 1: 877. 1950) but not validly so because no Latin description or diagnosis was provided (Vienna Code, Art. 36.1).
3–5 mm; leaflets lanceolate, elliptic-lanceolate, or ovate-lanceolate, 3–10 × 1.5–3 cm, glabrous, lateral veins 5 or 6 pairs, veins inconspicuous, base cuneate or rounded, base of lateral leaflets asymmetric and subrounded, margin with 4–9 teeth on each side, apex acuminate, rarely acute. Inflorescence small umbelliform dichasium, axillary, 1–5 cm, with nodes and bracts, or pseudoterminal without nodes and bracts; peduncle 1.2–2.5 cm, pubescent. Pedicel 1–2.5 mm, gray pilose. Buds oval, 1.5–2 mm, apex rounded. Calyx saucer-shaped; teeth fine, ovate-triangular. Petals ovate, 1.3–1.8 mm, apex coriaceous, glabrous. Stamens 4; anthers yellow. Disk conspicuous, 4-lobed. Ovary coniform, lower part of ovary adnate to disk; style short; stigma 4-lobed. Berry globose or obovoid-spheroidal, ca. 6 mm in diam., 1-seeded. Seed obovoid-elliptic, base rounded, apex retuse, surface smooth. Fl. Jul, fr. Aug–Nov.

- On trees or shrubs. S Taiwan (Lan Yu).


叉须崖爬藤 cha xu ya pa teng


Lianas, woody, slender. Branchlets terete, with longitudinal ridges, glabrous; tendrils bifurcate. Leaves palmately 5-foiliolate; stipules brown, oval, 3–5 × 2.5–3.5 mm, persistent; petiole 1.5–3.5 cm; lateral petioles very short or lateral leaflets sessile, glabrous; central leaflet lanceolate, lateral leaflets elliptic, 1.5–5 × 0.5–1.5 cm, glabrous, lateral veins 4 or 5 pairs, veins inconspicuous, base cuneate, base of lateral leaflets asymmetric and subrounded, margin 3–6-toothed on each side, teeth sharp, apex acute or acuminate. Simple umbel axillary, or leaf-opposed on lateral branches; peduncle 1.5–3 cm, glabrous. Pedicel 3–5 mm, glabrous. Buds oval, ca. 1.5 mm. Calyx glabrous, with undulate margin. Petals ovate-elliptic, hooked at apex, glabrous. Stamens inconspicuous in female flowers. Ovary coniform; style short; stigma 4-lobed. Berry spheroid, 6–8 mm in diam., 1–3-seeded. Seed elliptic, base rostrate, apex subrounded. Fl. Jun, fr. Aug–Sep.

- Forests or shrublands in valleys; 2300–2500 m. Sichuan, Yunnan.

41. **Tetrastigma serrulatum** (Roxburgh) Planchnon in A. Candolle & C. Candolle, Monogr. Phan. 5: 432. 1887.

狭叶崖爬藤 xia ye ya pa teng

Lianas, slender. Branchlets terete, with longitudinal ridges; tendrils biforked or sometimes unbranched. Leaves pedately 5-foiliolate; petiole 1.5–5.5 cm; central petiole 0.5–1.3 cm, petioles of lateral leaflet complex 2–10 mm, lateral petioles short or lateral leaflets sessile; leaflets ovate-lanceolate, 1.5–9 × 0.5–3 cm, lateral veins 4–8 pairs, veins inconspicuously raised, base rounded or cuneate, base of lateral leaflets asymmetric, margin undulate with 5–8 fine teeth on each side, apex cuneate, acuminate, or acute. Inflorescence umbelliform, axillary, 1–8 cm, with nodes and bracts; peduncle 1–5 cm. Pedicel 2–4 mm. Buds ovoid-elliptic, 2–4 mm. Calyx minute; teeth inconspicuous. Petals ovate-elliptic, apex coriaceous, glabrous or nearly so. Filaments filiform; anthers yellow, oval. Disk developed and 4-divided in male flowers, annular in female flowers. Lower part of ovary adnate to disk; style short; stigma expanded and irregularly divided. Berry purple-black at maturity, spheroid, 0.8–1.2 cm in diam., 2-seeded. Seeds obovoid-elliptic, base attenuate to a short rostrum, apex subrounded. Fl. Mar–Jun, fr. Jul–Nov.

- Forests in valleys, shrublands on hillsides, rocky gaps; 500–2900 m.


台湾崖爬藤 tai wan ya pa teng


Lianas, woody, slender. Branchlets terete, with longitudinal ridges, glabrous; tendrils bifurcate. Leaves 3-foiliolate; petiole 1–2 cm; petioles 2–3 cm, glabrous; leaflets elliptic, 4–6(–8) × 2–3 cm, glabrous, lateral veins of central leaflet 7–9 pairs, veins inconspicuously raised abaxially, inconspicuous adaxially, base truncate, margin with 5 or 6 fine teeth on each side, apex obtuse; lateral leaflets ovate-elliptic, 4–6 × 2.4–2.8 cm, lateral veins 5–7 pairs, base cuneate or subrounded, margin with 3–7 fine teeth. Inflorescence umbelliform, axillary, 1.5–2 cm, with nodes and oval bracts; peduncle 4–5 cm, glabrous. Pedicel 1–3 mm, glabrous. Buds elliptic, 2–3 mm, apex rounded. Calyx saucer-shaped, glabrous; teeth triangular, apex acute. Petals triangular-elliptic, apex with scarce papillose hairs. Filaments filiform; anthers elliptic. Disk conspicuous, 4-lobed. Berry globose or obovoid-spheroidal, ca. 6 mm in diam., 1-seeded. Seed obovoid-elliptic, base rounded, apex retuse, surface smooth. Fl. Apr–Jun, fr. Aug–Nov.

- Forests, shrublands, valleys, rocky crests; 300–1300 m. Chongqing, Fujian, Guangdong, Guangxi, Guizhou, Hubei, Hunan, Jiangsu, Jiangxi, Sichuan, Taiwan, Xizang, Yunnan, Zhejiang [India].


兰屿崖爬藤 lan yu ya pa teng

*Cissus lanyuensis* (C. E. Chang) F. Y. Lu.

Lianas, woody, slender. Branchlets terete, slender, glabrous; tendrils unbranched. Leaves palmately 5-foiliolate; petiole 1–10 cm; central petiole 2–2.5 cm, lateral petioles 1–2 cm, glabrous; leaflets 7–12 × 4–6.2 cm, glabrous, lateral veins 5–9 pairs, veins inconspicuously raised; central leaflet elliptic, base broadly cuneate, margin undulate with 8–10 fine teeth on each side, apex acute or obtuse; lateral leaflets ovate-elliptic, base cuneate and asymmetric, margin undulate with 5–7 teeth. Cyme leaf-opposed or pseudoterminal; peduncle ca. 3.5 cm, glabrous. Pedicel 3–4 mm, glabrous. Buds ovoid-elliptic, 2–2.5 mm. Calyx glabrous, 4-lobed, teeth fine. Petals ovate-elliptic, apex hooked, glabrous. Disk inconspicuous and annular in male flowers. Ovary coniform, lower part adnate to disk; style short; stigma 4-lobed. Berry obovoid, 0.8–1.2 cm in diam., 2-seeded. Seed obovoid, base rostrate, apex rounded, surface corrugated. Fl. Jul, fr. Aug.

- On trees or shrubs. S Taiwan (Lan Yu).

狭叶崖爬藤 xia ye ya pa teng

Lianas, woody, slender. Branchlets terete, with longitudinal ridges; tendrils biforked or sometimes unbranched. Leaves pedately 5-foiliolate; petiole 1–5.5 cm; central petiole 0.5–1.3 cm, petioles of lateral leaflet complex 2–10 mm, lateral petioles short or lateral leaflets sessile; leaflets ovate-lanceolate, 1.5–9 × 0.5–3 cm, lateral veins 4–8 pairs, veins inconspicuously raised, base rounded or cuneate, base of lateral leaflets asymmetric, margin undulate with 5–8 fine teeth on each side, apex cuneate, acuminate, or acute. Inflorescence umbelliform, axillary, 1–8 cm, with nodes and bracts; peduncle 1–5 cm. Pedicel 2–4 mm. Buds ovoid-elliptic, 2–4 mm. Calyx minute; teeth inconspicuous. Petals ovate-elliptic, apex coriaceous, glabrous or nearly so. Filaments filiform; anthers yellow, oval. Disk developed and 4-divided in male flowers, annular in female flowers. Lower part of ovary adnate to disk; style short; stigma expanded and irregularly divided. Berry purple-black at maturity, spheroidal, 0.8–1.2 cm in diam., 2-seeded. Seeds obovoid-elliptic, base attenuate to a short rostrum, apex subrounded. Fl. Mar–Jun, fr. Jul–Nov.

- Forests in valleys, shrublands on hillsides, rocky gaps; 500–2900 m.
1a. Branchlets, petioles, and peduncles
glabrous ..............................................  41a. var. serrulatum

1b. Branchlets, petioles, and peduncles
pubescent ........................................  41b. var. puberulum

41a. Tetrastigma serrulatum var. serrulatum

41b. Tetrastigma serrulatum var. puberulum

42a. Tetrastigma triphyllum var. triphyllum

42b. Tetrastigma triphyllum var. hirtum


掌须亚属  zhang xu ya shu

Tendrils palmately branched. Compound cyme. Seeds spheroid; hilum elliptic at back, surface with netlike ornamentations.

Three species: E Asia to Indochinese peninsula; three species (two endemic) in China.


毛狭叶崖爬藤  mao xia ye ya pa teng


● Forests in valleys; 2300–2600 m. Xizang, Yunnan.


云南崖爬藤  yun nan ya pa teng

Lianas, semiwoody. Branchlets terete, with longitudinal ridges; tendrils digitately 4–7-branched. Leaves 3-foliolate; petiole 1.5–9.5 cm; central petiole 5–6 mm, lateral petioles 3–4 mm; leaflets rhombic-ovate or elliptic, 1.5–5.5 cm; axilary, 2–8 cm. Pedicel 1.5–4 mm. Buds oval, 1.5–2.5 mm, apex rounded. Calyx shallow and saucer-shaped; teeth 4. Petals elliptic, 1.5–2.3 mm, apex plicate. Filaments filiform; anthers yellow, oblong, distinctly short and abortive in female flowers. Ovary coniform, lower part adnate to disk; style short; stigma expanded, 4-lobed. Berry spheroid, 7–10 mm in diam., 1- or 2-seeded. Seeds elliptic, base rostrate, apex rounded. Fl. Feb–Apr, fr. Jun–Nov.

● Forests, rocky gaps; 700–2000 m. Sichuan (Mianning), Yunnan.

1a. Plants glabrous  ..............................  42a. var. triphyllum

1b. Plants densely pilose  .........................  42b. var. hirtum

42a. Tetrastigma triphyllum var. triphyllum

42b. Tetrastigma triphyllum var. hirtum

Lianas, semiwoody. Branchlets terete, with longitudinal ridges; tendrils digitately 4–9-branched. Leaves 3-foliolate; petiole 1.5–9 cm; central petiole 5–6 mm, lateral petioles 3–4 mm; leaflets rhombic-ovate or elliptic, 3–11 × 1.5–7 cm, lateral veins 6 or 7 pairs, veinlets inconspicuous, base cuneate, margin undulate with 6 or 7 teeth on each side, teeth apiculate, apex acuminate or acute. Compound umbel, pseudoterminal on lateral branches, base with 1 or 2 leaves, 2.5–5.5 cm; peduncle 1.5–3 cm. Pedicel 2–3 mm. Buds ovate, 1.5–2.5 mm, apex rounded. Calyx shallow and saucer-shaped; teeth 4. Petals elliptic, 1.5–2.3 mm, apex plicate. Filaments filiform; anthers yellow, oblong, distinctly short and abortive in female flowers. Ovary coniform, lower part adnate to disk; style short; stigma expanded, 4-lobed. Berry spheroid, 7–10 mm in diam., 1- or 2-seeded. Seeds elliptic, base rostrate, apex rounded. Fl. Feb–Apr, fr. Jun–Nov.

● Forests in valleys; 2300–2600 m. Xizang, Yunnan.
Tetrastigma yunnanense var. glabrum W. T. Wang (Bull. Bot. Res., Harbin 6(4): 23. 1986), described from Yunnan, could not be treated here because no material was seen by the authors.

1a. Branchlets sparsely pilose then glabrescent; petioles glabrous or sparsely pilose .......................... 43a. var. yunnanense
1b. Branchlets, petioles, and peduncles ferruginous pilose .......................... 43b. var. mollissimum

43a. Tetrastigma yunnanense var. yunnanense

云南崖爬藤（原变种） yun nan ya pa teng (yuan bian zhong)


● Forests by rivers; 1200–2500 m. Xizang, Yunnan.


贡山崖爬藤 gong shan ya pa teng


● Shrublands on hillsides; 1500–2600 m. Yunnan.


崖爬藤 ya pa teng

Lianas, semiwoody. Branchlets terete, with longitudinal ridges; tendrils digitately 4–7-branched. Leaves palmately 5-foliolate; stipules brown, oval, membranous, usually persistent; petiole 1–4 cm; petiolules very short or leaflets sessile; leaflets rhombic-elliptic or elliptic-lanceolate, 1–4 × 0.5–2 cm, lateral veins 4 or 5 pairs, veinlets inconspicuous on both surfaces, base cuneate, base of lateral leaflets asymmetric, margin with 3–8 teeth or denticles on each side, apex acuminate, acute, or obtuse. Simple umbel or occasionally 3 or 4 umbels forming a cluster, terminal, or pseudoterminal with 1 or 2 leaves on short branches, 1.5–4 cm; pedicule 1–4 cm. Buds elliptic or ovoid-elliptic, 1.5–3 mm, apex subtruncate or subrounded. Calyx shallow and saucer-shaped, margin undulately lobed. Petals elliptic, 1.3–2.7 mm, apex corniculate. Filaments filiform; anthers yellow, oval, abortive in female flowers. Disk conspicuous, 4-lobed, undeveloped in female flowers. Ovary coniform; style short; stigma expanded, irregularly lobed. Berry spheroid, 5–10 mm in diam., 1-seeded. Seed elliptic, base rostrate, apex rounded. Fl. Apr–Jun, fr. Jul–Nov.

Forests, rocky cliffs on hillsides, boulders, rocks; 100–2600 m. Fujian, Gansu, Guangdong, Guangxi, Guizhou, Henan, Hunan, Jiangxi, Sichuan, Taiwan, Yunnan [Bhutan, Nepal, Vietnam].

1a. Branchlets, petioles, peduncles, and pedicels ± pubescent .......................... 44a. var. obtectum
1b. Branchlets, petioles, peduncles, and pedicels glabrous .......................... 44b. var. glabrum

44a. Tetrastigma obtectum var. obtectum

崖爬藤（原变种） ya pa teng (yuan bian zhong)

Vitis obtecta Wallich ex M. A. Lawson in J. D. Hooker, Fl. Brit. India 1: 657. 1875; Tetrastigma myanmaricum Momiyama; T. obtectum var. pilosum Gagnepain; T. obtectum var. potentilla (H. Léveillé & Vaniot) Gagnepain; T. obtectum var. trichocarpum Gagnepain; V. obtecta f. pilosa (Gagnepain) H. Léveillé; V. potentilla H. Léveillé & Vaniot.


● Forests, rocks; 200–2400 m. Fujian, Gansu, Guangxi, Guizhou, Henan, Hunan, Sichuan, Taiwan, Yunnan [Bhutan, Nepal, Vietnam].


崖爬藤 wu mao ya pa teng

Vitis potentilla var. glabra H. Léveillé, Bull. Soc. Agric. Sarthe 40: 43. 1905; Tetrastigma umbellatum (Hemsley) Nakai; V. arisanensis (Hayata) Hayata; V. umbellata Hemsley; V. umbellata var. arisanensis Hayata.


● Forests, rocks on hillsides or in valleys; 100–2400 m. Fujian, Guangdong, Guangxi, Guizhou, Jiangxi, Sichuan, Taiwan, Yunnan.