
水玉簪属 shui yu zan shu

Plants with chlorophyll, autotrophic or semi-mycotrophic; basal rosette leaves absent.

1a. Plants with chlorophyll, autotrophic or semi-mycotrophic; basal rosette leaves present.

2a. Basal leaves numerous; cauline leaves 1.5–8 cm; inflorescences 8–20-flowered .................................................. 1. **B. disticha**

2b. Basal leaves few; cauline leaves 0.5–3 cm; inflorescences 1–6(–8)-flowered.

3a. Stems to 40 cm tall; outer tepal margins double and prominent; inner tepal margins double ................................. 2. **B. coelestis**

3b. Stems to 24 cm tall; outer tepal margins single or double and shallow; inner tepal margins single.

4a. Inflorescences 1–3(–4)-flowered; flowers 3–8 mm; stamens sessile in perianth tube ................................................ 3. **B. chinensis**

4b. Inflorescences (1–)3–5(–8)-flowered; flowers 9–14 mm; stamens with short filament, basally adnate to perianth tube .................................................. 4. **B. filamentosa**

1b. Plants without chlorophyll, holomycotrophic; basal rosette leaves absent.

5a. Stems, leaves, and flowers ± purplish blue.

6a. Perianth wings narrow or reduced to ribs; outer tepals ca. 1 mm ........................................................................ 7. **B. wallichii**

6b. Perianth wings conspicuous, 1–2 mm wide; outer tepals 1.5–2 mm ........................................................................ 8. **B. itoana**

5b. Stems, leaves, and flowers whitish or yellow.

7a. Inflorescences (1–)3–13-flowered; inner tepals present, sometimes very small.

8a. Perianth wings conspicuous, 1–2 mm wide; stamen connectives with a pendent basal spur; seeds fusiform ............................................................................................................................. 5. **B. nepalensis**

8b. Perianth wings reduced to ribs or absent; stamen connectives without a pendent basal spur; seeds subglobose ........................................................................................................................................ 10. **B. championii**

7b. Inflorescences 1–4-flowered; inner tepals absent.

9a. Stems to 20 cm; perianth tube 4.5–5.5 mm; perianth wings 3–5.5 mm wide; stamen connectives with 2 apical crests; seeds ellipsoid ........................................................................................................ 6. **B. oblonga**

9b. Stems to 9 cm; perianth tube 3–4 mm; perianth wings 0.5–2.5 mm wide; stamen connectives with 1 apical crest; seeds ellipsoid .................................................................................................................. 9. **B. cryptopetala**


水玉簪 shui yu zan

Plants with chlorophyll, autotrophic, flowering when 10–40 cm tall. Stems green, slender. Basal rosette leaves few, linear-lanceolate, 0.5–2 cm × ca. 3 mm. Cauline leaves linear, 0.5–3 × 0.2–0.3 cm. Inflorescences (1 or)2–6(–8)-flowered; bracts lanceolate, 3–6 mm. Flowers pedicellate, bluish purple or yellow, 1–1.5 cm. Perianth tube 4.5–13 mm; wings conspicuous, 1.5–3 mm wide; outer tepals ovate-triangular, 1.2–2 mm, margin double and prominent; inner tepals triangular, 0.5–1 mm, margin single. Stamens sessile; connectives with 2 apical crests and a pendent basal spur. Ovary ellipsoid, 6–12 mm. Capsule obvoid. Seeds ellipsoid. Fl. June–Aug. 2n = ca. 136.

Generally in wet grasslands; sea level to 300(–800) m. Guangdong, Guangxi, Hainan, [Bangladesh, Cambodia, India, Indonesia, Laos, Malaysia, Myanmar, Nepal, New Guinea, Thailand, Vietnam; Australia].


三品一枝花 san pin yi zhi hua

Plants with chlorophyll, semi-mycotrophic, flowering when 12.5–70 cm tall. Stems green, robust. Basal rosette leaves numerous, linear-lanceolate, 0.2–1.7 × 0.3–2 cm. Cauline leaves linear, 1.5–8 × 0.2–1 cm. Inflorescences 8–20-flowered; bracts lanceolate, 0.5–2.4 cm. Flowers pedicellate, bluish purple or yellow, 1–2.6 cm. Perianth tube 3–8 mm; wings conspicuous, 1–3.5 mm wide; outer tepals triangular, 1.5–4.5 mm, margin double and shallow; inner tepals lanceolate, 1–2 mm, margin single or double and shallow. Stamens sessile; connectives with 2 apical crests and a pendent basal spur. Ovary ellipsoid, 6–12 mm. Capsule obvoid. Seeds ellipsoid. Fl. Apr–Jun, fl. Jun–Sep. 2n = ca. 136.

Wet thickets or grasslands; 400–3000 m. Fujian, Guangdong, Guangxi, Guizhou, Hainan, Hunan, Yunnan [Cambodia, India, Indonesia, Laos, Malaysia, Myanmar, Nepal, New Guinea, Sri Lanka, Thailand, Vietnam; Australia].


香港水玉簪 xiang gang shui yu zan

Gonianthes wallichii (Miers) J. D. Hooker, Fl. Brit. India 5: 537. 1841 ["Gonyanthes"].


Burmannia bifida Gagnepain.


Plants without chlorophyll, holomycotrophic, flowering when 5–9 cm tall. Stems whitish, slender. Basal rosette leaves absent. Cauline leaves ovate-lanceolate, 3–3.5 × 1.5–2.5 mm. Inflorescences 1–3-flowered; bracts ovate-lanceolate, ca. 3 mm. Flowers pedicellate, whitish with yellow tepals, 1–1.2 cm. Perianth tube 3–4 mm; wings conspicuous, 0.5–2.5 mm wide; outer tepals triangular, 1.5–2 mm, margin single; inner tepals absent. Stamens sessile; connectives with an apical crest and a pendent basal spur. Ovary subglobose, 3.5–5 mm. Capsule subglobose. Seeds ellipsoid.


Wet areas in dense forests; 200–800 m. Guangdong, Hainan, Zhejiang [Japan].


Burmannia dazielii Rendle; B. hunanensis K. M. Liu & C. L. Long.

Plants without chlorophyll, holomycotrophic, flowering when 3–22 cm tall. Stems whitish, slender. Basal rosette leaves absent. Cauline leaves ovate-triangular, 1.5–6 × 1–3 mm. Inflorescences 3–13-flowered; bracts ovate-triangular, 1.5–6 mm. Flowers pedicellate or sessile, whitish with yellow tepals, 5–11 mm. Perianth tube 3–5 mm; wings reduced to ribs or absent; outer tepals narrowly triangular, 1.5–3 mm, margin single; inner tepals spatulate, 0.8–1.4 mm, margin single. Stamens sessile or with a short filament, basally adnate to perianth; connectives sometimes with 2 small apical crests but lacking a pendent basal spur. Ovary ellipsoid to obovoid, 2.5–3.5 mm. Capsule subglobose. Seeds subglobose.

Fl. and fr. May–Aug.

Wet areas in forests; sea level to 1700 m. Fujian, Guangdong, Guangxi, Hunan, Taiwan [India, Indonesia, Japan, Malaysia, New Guinea, Sri Lanka, Thailand; Pacific islands].