

6. CALLICARPA Linnaeus, Sp. Pl. 1: 111. 1753.

紫珠属 *zi zhu shu*

Shrubs or trees, erect or rarely climbing; hairs stellate, verticillately branched, dendritic, mealy tomentose, or rarely simple and hooked. Branchlets terete or 4-angled. Leaves opposite or in 3s. Cymes axillary, sessile or pedunculate; bracts linear. Calyx campanulate, truncate or minutely 4-dentate, unaltered in fruit. Corolla actinomorphic, campanulate or tubular, lobes 4. Stamens 4, inserted on corolla tube; filaments slender, often exserted; anthers ovate or oblong, dehiscing by longitudinal slits or circular pores. Ovary imperfectly 2-locular; ovules 2 per locule, attached to middle or distal part of ovary. Style usually longer than stamens; stigma usually dilated. Fruit a small globose drupe, endocarp bony, mesocarp fleshy, exocarp thin. Seeds small, oblong; seed coat membranous; cotyledons fleshy.

About 140 species: mainly in tropical and subtropical Asia, few in tropical America and Africa, and very few in temperate Asia and North America; 48 species in China.

- 1a. Plants glabrous except stems with short strongly antrorsely curved hairs 48. *C. peichieniana*
- 1b. Plants with stellate, whorled, dendritic, or erect simple hairs.
 - 2a. Calyx tubular, longer than fruit, deeply dentate 1. *C. kochiana*
 - 2b. Calyx cup-shaped or campanulate, shorter than fruit, truncate, subtruncate, or short dentate.
 - 3a. Filaments shorter than corolla, rarely equaling or longer than corolla; anthers oblong, opening by an apical pore.
 - 4a. Leaves and flowers densely red or dark red glandular.
 - 5a. Leaf blade abaxially with stellate hairs along veins; calyx subglabrous; corolla white; filaments shorter than corolla tube 36. *C. dentosa*
 - 5b. Leaf blade abaxially subglabrous; calyx with stellate hairs; corolla purple; filaments equal to corolla tube or slightly exserted 35. *C. cathayana*
 - 4b. Leaves and flowers yellow glandular or eglandular.
 - 6a. Leaf blade abaxially pubescent with stellate hairs.
 - 7a. Corolla ca. 3 mm 37. *C. collina*
 - 7b. Corolla more than 3 mm.
 - 8a. Calyces, corollas, and ovaries pubescent; fruit pubescent at maturity; leaf blade abaxially with only stellate hairs 38. *C. tingwuensis*
 - 8b. Calyces, corollas, and ovaries glabrous or subglabrous; fruit glabrous at maturity; leaf blade abaxially pubescent to sparsely pubescent along midvein only, with some hairs simple.
 - 9a. Leaf blade margin serrate; calyx teeth obtusely triangular 39. *C. randaiensis*
 - 9b. Leaf blade margin subentire to sparsely serrulate towards apex; calyx teeth minute or absent 40. *C. brevipes*
 - 6b. Leaf blade abaxially glabrous or subglabrous.
 - 10a. Cymes 2- or 3-flowered; fruiting pedicel more than 4 mm 47. *C. oligantha*
 - 10b. Cymes more than 3-flowered; fruiting pedicel 1–3 mm.
 - 11a. Leaf blade base subcordate; petiole very short to leaf sessile 46. *C. lingii*
 - 11b. Leaf blade base cuneate or obtuse; petiole 0.5–1.5 cm.
 - 12a. Leaf blade subleathery; peduncle ca. 2 × or more as long as petioles 41. *C. remotiserrulata*
 - 12b. Leaf blade papery or membranous, rarely subleathery; peduncle shorter to slightly longer than petioles.
 - 13a. Leaf blade membranous, adaxially pubescent 45. *C. anisophylla*
 - 13b. Leaf blade papery or rarely subleathery, adaxially glabrous.
 - 14a. Petiole less than 5 mm; cymes many flowered; fruit ca. 3 mm in diam. 44. *C. kwangtungensis*
 - 14b. Petiole 6–20 mm; cymes few flowered; fruit ca. 2.5 mm in diam.
 - 15a. Leaf blade obovate, ovate, or elliptic; peduncle 6–10 mm; calyx obtusely triangular 42. *C. japonica*
 - 15b. Leaf blade oblanceolate to lanceolate; peduncle less than 6 mm; calyx subtruncate 43. *C. membranacea*
 - 3b. Filaments usually 2 × or more as long as corolla (except in *C. pauciflora*); anthers rounded, ovate, or elliptic, opening by longitudinal slits.
 - 16a. Peduncle robust, usually over 3 cm (except *C. hypoleucophylla*, *C. macrophylla*, and *C. minutiflora*).
 - 17a. Leaf blade margin entire; trees or climbing shrubs.
 - 18a. Climbing shrubs; peduncle terete; uppermost leaves very reduced so that cymes form a terminal panicle 4. *C. integerrima*
 - 18b. Erect trees; peduncle 4-angled; uppermost leaves not or only slightly reduced so that cymes are clearly axillary.
 - 19a. Leaf blade leathery, without glands; pedicel ca. 1.5 mm 2. *C. arborea*
 - 19b. Leaf blade papery, red-brown glandular; pedicel ca. 3 mm 3. *C. yunnanensis*
 - 17b. Leaf blade margin serrulate or serrate (sometimes undulate or subentire in *C. nudiflora*); shrubs or

- rarely small trees.
- 20a. Leaf blade without glands.
- 21a. Ovary puberulent; peduncle 2–3 cm 7. *C. macrophylla*
- 21b. Ovary glabrous; peduncle 3–8 cm.
- 22a. Calyx and corolla pubescent; calyx teeth ca. 1 mm; bracts lanceolate, 3–4 × 1 cm
..... 5. *C. longibracteata*
- 22b. Calyx and corolla glabrous; calyx truncate or minutely 4-dentate; bracts lanceolate-linear,
smaller 6. *C. nudiflora*
- 20b. Leaf blade yellow glandular.
- 23a. Calyx outside glabrous 8. *C. acutifolia*
- 23b. Calyx outside densely stellate pubescent.
- 24a. Corolla 2–2.5 mm; leaf blade elliptic, abaxially yellowish green 10. *C. minutiflora*
- 24b. Corolla ca. 1.5 cm; leaf blade lanceolate to lanceolate-oblong, abaxially gray to whitish
..... 11. *C. hypoleucophylla*
- 16b. Peduncle slender, less than 3 cm.
- 25a. Leaf blade base cordate to truncate.
- 26a. Stems covered with predominantly long simple hairs; calyx teeth 1–2 mm; petiole 5–8 mm
..... 32. *C. longipes*
- 26b. Stems densely covered with stellate hairs; calyx teeth less than 0.5 mm; leaves subsessile or very
short petiolate.
- 27a. Leaf blade margin very shallowly crenulate; calyx teeth obsolete; corolla white, very minutely
papillate 33. *C. basitruncata*
- 27b. Leaf blade margin serrate; calyx teeth acute; corolla reddish, pilose 34. *C. rubella*
- 25b. Leaf blade base cuneate, obtuse, or rounded.
- 28a. Leaf blade woolly-velvety, tomentose, or silky on both surfaces but especially abaxially.
- 29a. Calyx dentate, teeth 0.3–1 mm; branchlets densely covered with yellow-brown dendritic hairs 9. *C. loboapiculata*
- 29b. Calyx truncate or minutely dentate, teeth less than 0.3 mm; branchlets short velvety.
- 30a. Leaf blade abaxially with silky hairs; branchlet nodes with a transverse scar 14. *C. poilanei*
- 30b. Leaf blade abaxially with stellate velvety hairs; branchlet nodes without a transverse scar.
- 31a. Leaf blade 8–20 × 4–8 cm, margin densely serrate; cymes many flowered; calyx
densely velvety 12. *C. candicans*
- 31b. Leaf blade 3–6 × 2–3 cm, margin sparsely serrulate or entire; cymes few flowered;
calyx sparsely pilose 13. *C. gracilipes*
- 28b. Leaf blade abaxially sparsely hairy with stellate or simple hairs or sometimes glabrous.
- 32a. Leaves and flowers usually with red, dark red, or dark purple glands.
- 33a. Leaf blade abaxially with uniformly stellate hairs to subglabrous 28. *C. bodinieri*
- 33b. Leaf blade abaxially glabrous or with sparse stellate pubescence only along midvein.
- 34a. Leaf blade narrowly lanceolate to lanceolate, base broadly cuneate to subrounded,
abaxially dark purple glandular 29. *C. salicifolia*
- 34b. Leaf blade oblong-lanceolate, elliptic-lanceolate, or ovate-oblong, base cuneate,
abaxially red-brown glandular.
- 35a. Cymes ca. 1 cm across; fruit ca. 2 mm in diam.; fruiting calyx not thick
..... 30. *C. erythrostickta*
- 35b. Cymes ca. 2 cm across; fruit ca. 3 mm in diam.; fruiting calyx thick 31. *C. hungtaii*
- 32b. Leaves and flowers usually with yellow glands.
- 36a. Branchlets, leaf abaxial surfaces, and cymes with yellow-brown simple hairs 27. *C. pilosissima*
- 36b. Branchlets, leaf abaxial surfaces, and cymes with stellate or branched hairs or glabrous.
- 37a. Calyx pubescent; leaf blade abaxially with stellate hairs.
- 38a. Calyx truncate to minutely dentate; fruit stellate pubescent when mature; branchlets
4-angled, nodes with a transverse scar 19. *C. longifolia*
- 38b. Calyx teeth triangular, less than 1.5 mm; fruit glabrous when mature; branchlets
terete, nodes without a transverse scar.
- 39a. Ovary glabrous; peduncle longer than petioles.
- 40a. Petiole 5–25 mm; leaf blade adaxially minutely hispid and scabrous, base
obtuse to rounded; cymes many flowered; peduncle 1.5–2.5 cm; corolla
glabrous 15. *C. formosana*
- 40b. Petiole 3–5 mm; leaf blade adaxially sparsely pilose, base cuneate to
broadly cuneate; cymes few flowered; peduncle 0.8–1 cm; corolla
puberulent 16. *C. pseudorubella*
- 39b. Ovary pubescent; peduncle shorter than or equal to petioles.
- 41a. Calyx teeth 1–1.5 mm 17. *C. pauciflora*
- 41b. Calyx teeth less than 0.5 mm 18. *C. giraldii*
- 37b. Calyx usually glabrous; leaf blade abaxially glabrous or sparsely stellate pubescent
only on veins.

- 42a. Cymes with leafy branchlets growing out from them.
 43a. Leaf blade lanceolate, oblong-lanceolate, or ovate, margin slightly sinuate, serrate, serrulate, or entire; corolla tube ca. 2 mm 20. *C. prolifera*
 43b. Leaf blade elliptic to oblong-elliptic, margin distinctly triangular-serrulate; corolla tube ca. 4 mm 21. *C. pingshanensis*
 42b. Cymes without leafy branchlets growing out from them.
 44a. Branchlets 4-angled, with sparse simple hairs, nodes with a ring of hairs or transverse scar 22. *C. longissima*
 44b. Branchlets terete, with stellate hairs or subglabrous, nodes without a ring of hairs or transverse scar.
 45a. Peduncle 4–7 mm, shorter than petioles; fruit ca. 1 mm in diam. 23. *C. luteopunctata*
 45b. Peduncle 8–20 mm, longer than petioles; fruit 1–4 mm in diam.
 46a. Leaf blade 2–6(–10) cm, obovate to lanceolate, margin apically coarsely dentate 24. *C. dichotoma*
 46b. Leaf blade 10–15 cm, elliptic-lanceolate, elliptic, or ovate-elliptic, margin serrate to subentire.
 47a. Petiole less than 1 cm; leaf blade abaxially stellate tomentose on veins, margin serrate; peduncle 2 × as long as petioles 25. *C. kotoensis*
 47b. Petiole 1.5–2 cm; leaf blade abaxially glabrous, margin subserrate to subentire; peduncle as long as petioles 26. *C. siongsaiensis*

1. *Callicarpa kochiana* Makino, Bot. Mag. (Tokyo) 28: 181. 1914.

枇杷叶紫珠 pi pa ye zi zhu

Shrubs 1–4 m tall; branchlets, petioles, and inflorescences densely yellow-brown stellate tomentose. Petiole 1–3 mm; leaf blade oblong-lanceolate, elliptic, or ovate-elliptic, 11–22 × 4–8 cm, abaxially densely yellow-brown stellate tomentose, adaxially glabrous or slightly pilose especially on veins, both surfaces obscurely yellow glandular, margin serrate. Cymes 3–6 cm across; peduncle 1–2 cm or longer. Calyx tubular, 2–2.5 mm, tube tomentose, teeth acute. Corolla pink to purple, lobes densely tomentose. Stamens exerted. Style longer than stamens. Fruit globose, ca. 1.5 mm in diam. Fl. Jul–Aug, fr. Sep–Dec.

100–900 m. Fujian, Guangdong, Hainan, S Henan, Hunan, Jiangxi, Taiwan, Zhejiang [Japan, Vietnam].

- 1a. Leaf blade 4–8 cm wide; flowers subsessile 1a. var. *kochiana*
 1b. Leaf blade ca. 4 cm wide; flowers pedicellate 1b. var. *laxiflora*

1a. *Callicarpa kochiana* var. *kochiana*

枇杷叶紫珠 pi pa ye zi zhu

Callicarpa longiloba Merrill; *C. loureiri* Hooker & Arnott ex Merrill.

Leaf blade 12–22 × 4–8 cm. Peduncle 1–2 cm. Flowers subsessile. Fl. Jul–Aug, fr. Sep–Dec.

Forest edges, forests in valleys; 100–900 m. Fujian, Guangdong, S Henan, Hunan, Jiangxi, Taiwan, Zhejiang [Japan, Vietnam].

Medicinal.

1b. *Callicarpa kochiana* var. *laxiflora* (Chang) W. Z. Fang, Fl. Reipubl. Popularis Sin. 65(1): 31. 1982.

散花紫珠 san hua zi zhu

Callicarpa loureiri Hooker & Arnott ex Merrill var. *laxiflora* Chang, Acta Phytotax. Sin. 1: 276. 1951.

Leaf blade 11–15 × ca. 4 cm. Peduncles and pedicels longer than in var. *kochiana*. Fl. Aug.

• Mountain slopes; 100–400 m. Hainan.

2. *Callicarpa arborea* Roxburgh, Fl. Ind. 1: 405. 1820.

木紫珠 mu zi zhu

Trees ca. 8 m tall; branchlets, inflorescences, and petioles densely tomentose, hairs stellate or verticillately branched. Leaf blade elliptic, oblong-elliptic, or ovate, 13–37 × 7–13 cm, leathery, abaxially densely yellow-brown stellate tomentose, adaxially dark green and shiny, base cuneate to rounded, margin entire. Cymes 6–11 cm across; peduncle 4-angled, longer than petioles. Calyx cup-shaped, truncate or nearly so, outside densely gray stellate tomentose. Corolla purple, ca. 3 mm. Stamens much longer than corolla. Ovary densely stellate tomentose. Fruit purple-brown, ca. 2 mm in diam. Fl. May–Jul, fr. Aug–Dec.

Mixed forests on mountain slopes; 1000–2500 m. Guangxi, SE Xizang, S Yunnan [Bangladesh, Bhutan, Cambodia, India, Indonesia, Laos, Malaysia, Myanmar, Nepal, Thailand, Vietnam].

3. *Callicarpa yunnanensis* W. Z. Fang, Fl. Reipubl. Popularis Sin. 65(1): 209. 1982.

云南紫珠 yun nan zi zhu

Trees 12–18 m tall; branchlets, petioles, and inflorescences gray-brown stellate tomentose. Petiole 1.5–3 cm; leaf blade elliptic to ovate-elliptic, (12–)20(–27) × (7–)9(–13.5) cm, papery, abaxially stellate tomentose, adaxially glabrescent, both surfaces densely red-brown glandular, base cuneate, margin entire. Cymes 8–13 cm across; peduncle robust, 4–5 cm. Calyx cup-shaped, ca. 0.8 mm, densely gray stellate tomentose. Corolla purple, ca. 3 mm. Filaments ca. 2 × as long as corolla. Ovary pubescent, brown-red glandular. Fruit purple, ca. 3 mm in diam.

Mixed forests in valleys; 500–600 m. S Yunnan [Vietnam].

Callicarpa erioclona Schauer was erroneously reported from Yunnan in vol. 1 of Fl. Yunnan. (1977), but *C. yunnanensis* differs in having petioles and inflorescences gray-brown stellate tomentose and leaf blade margins entire.

4. *Callicarpa integerrima* Champion, Hooker's J. Bot. Kew Gard. Misc. 5: 135. 1853.

全缘叶紫珠 *quan yuan ye zi zhu*

Shrubs, climbing; young branchlets, petioles, and inflorescences densely yellow-brown tomentose, hairs verticillately branched to densely dendritic. Petiole ca. 1–2 cm; leaf blade elliptic to ovate, 15–17 × 3–9 cm, abaxially tomentose, adaxially dark green and glabrescent, base cuneate to rounded, margin entire, apex acuminate to acute. Flowering stems with reduced leaves so that cymes form a terminal panicle. Cymes 6–11 cm across; peduncle 2–5 cm. Corolla purple, ca. 2–2.5 mm, glabrous. Stamens 2 × or more as long as corolla. Fruit purple, ca. 2 mm in diam., stellate tomentose when young, glabrescent. Fl. May-Jul, fr. Aug-Nov.

• 200–1500 m. Fujian, Guangdong, Guangxi, W Hubei, Jiangxi, E Sichuan, S Zhejiang.

- 1a. Pedicels, calyces, and ovaries stellate tomentose 4a. var. *integerrima*
- 1b. Pedicels, calyces, and ovaries glabrous 4b. var. *chinensis*

4a. *Callicarpa integerrima* var. *integerrima*

全缘叶紫珠 *quan yuan ye zi zhu*

Leaf blade abaxially densely gray-yellow tomentose, adaxially yellow-brown stellate tomentose. Pedicel and calyx densely stellate tomentose. Ovary stellate tomentose. Fl. Jun-Jul, fr. Aug-Nov.

• Mixed forests on mountain slopes and in valleys; 200–700 m. Fujian, Guangdong, Guangxi, Jiangxi, S Zhejiang.

4b. *Callicarpa integerrima* var. *chinensis* (P'ei) S. L. Chen, Novon 1: 58. 1991.

藤紫珠 *teng zi zhu*

Callicarpa formosana Rolfe var. *chinensis* P'ei, Mem. Sci. Soc. China 1(3): 30. 1932; *C. pedunculata* R. Brown var. *chinensis* (P'ei) Metcalf; *C. peii* Chang.

Leaves, pedicels, calyces, corollas, and ovaries glabrous or only leaves pubescent when young. Fl. May-Jul, fr. Aug-Nov.

• Mixed forests in valleys; 300–1500 m. NW Guangdong, Guangxi, W Hubei, Jiangxi, E Sichuan.

5. *Callicarpa longibracteata* Chang, Acta Phytotax. Sin. 1: 277. 1951.

长苞紫珠 *chang bao zi zhu*

Shrubs ca. 3 m tall. Young branches uniformly yellow stellate tomentose. Petiole ca. 2 cm; leaf blade oblong-elliptic to elliptic-lanceolate, 15–20 × 5–8 cm, abaxially densely yellow-gray stellate tomentose, adaxially glabrous but stellate tomentose along midvein when young, base obtuse to rounded and oblique, margin entire or serrulate above to middle, veins 14 pairs. Cymes 6–9 cm across; peduncle 3–5 cm; bracts lanceolate, 3–4 × 1 cm. Calyx campanulate, stellate tomentose; teeth linear, ca. 1 mm. Corolla pink, ca. 2 mm, puberulent. Filaments ca. 5 mm; anthers ca. 0.6 mm. Ovary glabrous. Style 6–7 mm. Fruit ca. 1.5 mm in diam. Fl. and fr. Aug.

• Mixed forests; 100–300 m. Hong Kong.

6. *Callicarpa nudiflora* Hooker & Arnott, Bot. Beechey Voy. 206. 1836.

裸花紫珠 *luo hua zi zhu*

Callicarpa acuminata Roxburgh (1832), not Kunth (1818); *C. acuminata* var. *angustifolia* Metcalf; *C. macrophylla* Vahl var. *sinensis* C. B. Clarke; *C. reevesii* Wallich ex Schauer.

Shrubs or small trees; young branchlets, petioles, abaxial leaf surfaces, and inflorescences unevenly gray-brown stellate tomentose. Leaf blade ovate-elliptic to lanceolate, 12–22 × 4–7 cm, abaxially densely gray-brown unevenly stellate tomentose, adaxially dark green-black and glabrescent except for stellate tomentose veins, base obtuse to subrounded, margin serrate, slightly undulate, or subentire. Cymes 8–13 cm across; peduncle 3–8 cm; bracts linear-lanceolate. Pedicel ca. 1 mm. Calyx usually glabrous, truncate to obscurely 4-dentate. Corolla purple to pink, ca. 2 mm, glabrous. Stamens 2–3 × as long as corolla. Ovary glabrous. Fruit ca. 2 mm in diam. Fl. Jun-Aug, fr. Aug-Dec.

Mixed forests; 1000 m. Guangdong, Guangxi, Hainan [Bangladesh, India, Malaysia, Myanmar, Singapore, Sri Lanka, Vietnam].

Medicinal.

7. *Callicarpa macrophylla* Vahl, Symb. Bot. 3: 13. 1794.

大叶紫珠 *da ye zi zhu*

Callicarpa dunniana H. Léveillé; *C. incana* Roxburgh; *C. macrophylla* var. *kouytchensis* H. Léveillé.

Shrubs or small trees. Branchlets nearly 4-angled. Petiole robust, 1–3 cm, densely gray unevenly stellate tomentose; leaf blade oblong-lanceolate, narrowly elliptic, or ovate-elliptic, 10–23 × 5–11 cm, abaxially densely unevenly gray stellate tomentose and glandular, adaxially pubescent especially on veins, base cuneate to broadly obtuse, margin serrulate. Cymes 4–8 cm across, densely unevenly gray stellate tomentose. Calyx ca. 1 mm, subtruncate, gray stellate tomentose, yellow glandular. Corolla purple, ca. 2.5 mm, sparsely stellate tomentose. Anthers yellow glandular. Ovary puberulent. Fruit ca. 1.5 mm in diam., puberulent, glandular. Fl. and fr. Apr-Dec.

Mixed forests; 100–2000 m. Guangdong, Guangxi, Guizhou, Yunnan [Bhutan, India, Myanmar, Nepal, Sri Lanka, Thailand, Vietnam].

Indian material differs from Chinese collections in having glabrous ovaries.

8. *Callicarpa acutifolia* Chang, Acta Phytotax. Sin. 1: 284. 1951.

尖叶紫珠 *jian ye zi zhu*

Shrubs. Branchlets 4-angled, stellate tomentose, densely yellow glandular, nodes with a transverse scar. Petiole ca. 1.5 cm; leaf blade lanceolate to oblong-lanceolate, 11–16 × 2–5 cm, yellow glandular, abaxially stellate tomentose, adaxially puberulent especially along veins, base acute, margin serrate, apex acute. Cymes 7–9 cm across; peduncle 3–5.5 cm. Calyx ca. 1 mm, subtruncate, glabrous. Corolla ca. 2.5 mm, glabrous. Filaments ca. 4 mm. Ovary glabrous, glandular. Fruit black when dry, ca. 1.5 mm in diam. Fl. Jul-Sep, fr. Oct.

• Mountain slopes, along stream banks; 100–700 m. Guangdong, Guangxi.

9. *Callicarpa loboapiculata* Metcalf, Lingnan Sci. J. 11: 406. 1932.

尖萼紫珠 *jian e zi zhu*

Shrubs; branchlets, petioles, and inflorescences densely yellow-brown dendritic velvety. Petiole 2–3 cm; leaf blade elliptic, 12–22 × 5–7 cm, unevenly stellate tomentose and yellow glandular, adaxially glabrescent, base cuneate, margin serrulate, apex acuminate. Cymes 4–6 cm across; peduncle 1–1.5 cm. Pedicel ca. 1 mm. Calyx campanulate, prominently 4-dentate, sparsely stellate tomentose to glabrous. Corolla purple, ca. 2.5 mm; lobes 4, usually puberulent. Filaments ca. 3.5 mm. Fruit yellow, ca. 1.2 mm in diam., glandular. Fl. and fr. Jul-Dec.

• Mixed forests; 300–500 m. Guangdong, Guangxi, Guizhou, Hainan, Hunan.

10. *Callicarpa minutiflora* Y. Y. Qian, Guihaia 11: 121. 1991.

细花紫珠 xi hua zi zhu

Shrubs ca. 2 m tall. Branchlets nearly 4-angled, grooved, densely stellate pubescent, yellowish glandular. Petiole slender, 1–2.5 cm; leaf blade elliptic, 10–16 × 4–7 cm, stellate pubescent and yellowish glandular, base cuneate, apex acuminate, veins 7–9 pairs. Cymes 4–6 cm across, 5–7-branched; peduncle 0.6–1.5 cm. Calyx 0.7–1 mm, subtruncate, stellate pubescent, outside yellow glandular. Corolla 2–2.5 mm, densely gray tomentellous. Stamens exserted; anthers longitudinally dehiscent. Ovary stellate pubescent, yellow glandular. Fl. Aug.

• Forests; 1100 m. Yunnan (Jiangcheng Xian).

Similar to *Callicarpa acutifolia* and *C. giraldii* var. *subcanescens* but differs in having smaller flowers and corolla lobes densely gray tomentellous.

11. *Callicarpa hypoleucophylla* Wei-Fang Lin & Jen-Li Wang, Bot. Bull. Acad. Sin., n.s. 8: 185. 1967.

里白杜虹花 li bai du hong hua

Shrubs 2–3 m tall. Branchlets terete, stellate tomentose. Petiole ca. 1 cm; leaf blade lanceolate to lanceolate-oblong, 10–15 × 2–3.5 cm, abaxially whitish felted tomentose, adaxially stellate pubescent but subglabrescent, base cuneate to narrowly cuneate, margin finely serrate, apex acuminate to caudate, veins 9–12 pairs. Cymes ca. 2 cm; peduncle ca. 2 cm. Calyx ca. 10 × 8 mm, slightly 4-dentate to subtruncate, outside with stellate hairs. Corolla white, campanulate, ca. 1.5 cm; lobes 4, apically rounded. Stamens 4, long exserted. Fruit white or pale purplish, globose, ca. 2 mm in diam.

• Mixed forests on mountain slopes; 1000–1200 m. Taiwan.

Specimens of this species have not been seen by the authors.

12. *Callicarpa candicans* (N. L. Burman) Hochreutiner, Candollea 5: 190. 1934.

白毛紫珠 bai mao zi zhu

Urtica candicans N. L. Burman, Fl. Indica 197 (typ. err. 297). 1768; *Callicarpa cana* Linnaeus.

Shrubs 1–2 m tall. Branchlets 4-angled, with dense gray stellate hairs. Leaf blade elliptic, ovate-elliptic, or broadly ovate, 8–15 × 4–7 cm, densely serrate, abaxially with dense gray stellate hairs, adaxially turning blackish when dry and glabrous to pubescent along veins, base acute to cuneate, margin densely serrate, apex acuminate to acute. Cymes 2–3 cm across; peduncle ca. 0.5 cm, with dense gray stellate hairs; bracts small, linear. Calyx obscurely 4-dentate to subtruncate, with dense gray stellate hairs. Corolla pinkish to pink, ca. 2 mm, with sparse stellate hairs. Filaments ca. 2 × as long as

corolla tube. Ovary glabrous. Fruit black-purple, ca. 2 mm in diam. Fl. and fr. Apr-Dec.

Mountain slopes along roadsides and in open waste places; 100–500 m. Guangdong, Hainan [Cambodia, India, Indonesia, Laos, Malaysia, Myanmar, Philippines, Thailand, Vietnam; Australia].

Medicinal.

13. *Callicarpa gracilipes* Rehder in Sargent, Pl. Wilson. 3: 371. 1916.

湖北紫珠 hu bei zi zhu

Shrubs 2–3.5 m tall; branchlets, petioles, and cymes with brownish stellate hairs. Petiole 5–10 mm; leaf blade ovate-elliptic to ovate, 3–6 × 2–3 cm, abaxially with dense gray stellate hairs and yellow glands, adaxially green-black when dry and glabrous, base broadly cuneate, margin entire or sparsely dentate, apex acute to acuminate. Cymes 1–1.5 cm across; peduncle equal or longer than petioles; bracts linear. Calyx cup-shaped, ca. 1 mm, truncate to minutely 4-dentate, outside with sparse stellate hairs. Corolla purple to red, ca. 3 mm, outside with a few stellate hairs. Fruit pinkish purple, oblong, puberulent, yellow glandular. Fr. Aug-Oct.

• Mixed forests on mountain slopes; 200–1500 m. W Hubei, E Sichuan.

14. *Callicarpa poilanei* Dop, Bull. Soc. Hist. Nat. Toulouse 64: 502. 1932.

白背紫珠 bai bei zi zhu

Trees, 5–8 m tall. Branchlets 4-angled, densely silky-velvety, nodes with a transverse scar. Petiole ca. 1 cm; leaf blade narrowly elliptic to elliptic, 10–13 × 3.5–4.5 cm, abaxially densely gray rusty colored silky, adaxially brown when dry and mealy stellate tomentellous when young, base cuneate, margin serrulate to subundulate, apex acute to acuminate. Cymes ca. 2 cm across; peduncle 4-angled, usually as long as petioles; bracts small. Pedicel ca. 1 mm. Calyx ca. 1 mm, truncate to minutely 4-dentate, gray stellate velvety. Corolla purple, ca. 3 mm, puberulent. Filaments longer than corolla. Ovary glabrous. Fl. May-Jun.

Mixed forests; 200 m. Yunnan (Hekou Xian) [Cambodia, Thailand, Vietnam].

15. *Callicarpa formosana* Rolfe, J. Bot. 20: 358. 1882.

杜虹花 du hong hua

Shrubs 1–3 m tall; branchlets, petioles, and cymes densely gray-yellow stellate tomentose. Petiole robust, 1–2.5 cm; leaf blade ovate-elliptic to elliptic or narrowly oblong-lanceolate, 6–17 × 2–8 cm, abaxially gray-yellow stellate tomentose and yellow glandular, adaxially minutely hispid, base cuneate, obtuse, or rounded, margin serrate, apex acuminate or caudate. Cymes 3–4 cm across; peduncle 1.5–2.5 cm; bracts small. Calyx cup-shaped, gray-yellow stellate tomentose; teeth 4, triangular. Corolla purple to purplish, ca. 2.5 mm, glabrous. Stamens ca. 5 mm. Ovary glabrous. Fruit purple, ca. 2 mm in diam.

400–1600 m. Fujian, Guangdong, Guangxi, Hainan, S Jiangxi, Taiwan, SE Yunnan, SE Zhejiang [Japan (Okinawa), Philippines].

1a. Leaf blade elliptic to ovate-elliptic

..... 15a. var. *formosana*

1b. Leaf blade narrowly oblong-lanceolate

..... 15b. var. *longifolia*

15a. *Callicarpa formosana* var. *formosana*

杜虹花 du hong hua

Callicarpa aspera Handel-Mazzetti; *C. integerrima* Champion var. *serrulata* H. L. Li; *C. ningpoensis* Matsumura; *C. rubella* Lindley f. *robusta* P'ei.

Leaf blade elliptic to ovate-elliptic, 6–15 × 3–8 cm, base obtuse to rounded, apex acuminate. Fl. May-Jul, fr. Aug-Nov. 2n = 36.

Mixed forests on mountain slopes and along streams; below 1600 m. Fujian, Guangdong, Guangxi, Hainan, S Jiangxi, Taiwan, SE Yunnan, SE Zhejiang [Japan (Okinawa), Philippines].

Medicinal.

15b. *Callicarpa formosana* var. *longifolia* Suzuki, Trans. Nat. Hist. Soc. Taiwan 25: 131. 1935.

长叶杜虹花 chang ye du hong hua

Callicarpa pedunculata R. Brown var. *longifolia* (Suzuki) Chang.

Leaf blade narrowly oblong-lanceolate, 13–17 × 2–3 cm, base cuneate, apex caudate, veins abaxially pubescent.

• Mixed forests; 400–700 m. Taiwan.

16. *Callicarpa pseudorubella* Chang, Acta Phytotax. Sin. 1: 287. 1951.

拟红紫珠 ni hong zi zhu

Shrubs ca. 1 m tall; branchlets, petioles, and cymes gray-brown stellate tomentose. Petiole 3–5 mm; leaf blade narrowly elliptic-lanceolate, 3–5.5 × 1.5–2 cm, yellow glandular, abaxially stellate tomentose along veins, adaxially sparsely pilose, base cuneate to broadly cuneate, margin serrate, apex acuminate. Cymes ca. 1.5 cm across; peduncle 8–10 mm; bracts small. Calyx ca. 1 mm, minutely 4-dentate, with single hairs, yellow glandular. Corolla pink, ca. 2 mm, puberulent; lobes 4, oblong. Stamens slightly exerted. Ovary yellow glandular. Fruit ca. 2 mm in diam. Fl. late spring to summer.

• Mountain slopes; 400–500 m. Guangdong.

17. *Callicarpa pauciflora* Chun ex Hung-Ta Chang, Acta Phytotax. Sin. 1: 275. 1951.

少花紫珠 shao hua zi zhu

Subshrubs to shrubs, 60–100 cm tall. Branchlets gray-yellow, terete, with small lenticels, stellate tomentose. Petiole 4–6 mm; leaf blade elliptic to ovate-elliptic, 5–8(–13) × 2.5–3.5(–5.5) cm, abaxially stellate tomentose, adaxially puberulent, base cuneate, margin serrate, apex acute to acuminate. Cymes ca. 1 cm across; peduncle 4–6 mm; bracts small. Calyx campanulate, stellate tomentose; teeth 4, linear-lanceolate, 1–1.5 mm. Corolla pinkish, ca. 4 mm, sparsely stellate tomentose; lobes 4, oblong. Filaments 4–5 mm; anthers ca. 1.2 mm. Ovary slightly puberulent. Style ca. 6 mm. Fl. late spring to summer.

• Usually along rivers; 100–400 m. Guangdong (Ruyan Xian), Jiangxi (Shangrao Xian).

18. *Callicarpa giraldii* Hesse ex Rehder in Bailey, Stand. Cycl. Hort. 2: 629. 1914.

老鸦糊 lao ya hu

Shrubs 1–3(–5) m tall. Petiole 0.6–2 cm; leaf blade lanceolate, oblong, oblong-elliptic, elliptic, broadly elliptic, obovate-oblong, or broadly ovate, 5–17 × 2–10 cm, papery,

base cuneate, narrowly cuneate, obtuse, or rounded, margin serrate, apex acuminate. Cymes 1–3 cm across, stellate tomentose. Calyx campanulate, ca. 1.5 mm, sparsely stellate tomentose when young, glabrescent, yellow glandular; teeth less than 0.5 mm, obtuse. Corolla purple, ca. 3 mm, slightly puberulent, yellow glandular. Stamens ca. 4–6 mm; anthers ovate, yellow glandular on connective. Ovary puberulent. Fruit purple, 2.5–4 mm in diam., stellate tomentose when young, glabrescent. Fl. May-Jul, fr. Jul-Nov.

• 200–3400 m. Anhui, Fujian, Gansu, Guangdong, Guangxi, Guizhou, Henan, Hubei, Hunan, Jiangsu, Jiangxi, S Shaanxi, Sichuan, Yunnan, Zhejiang.

This species can be reliably distinguished from *Callicarpa bodinieri* only in having yellow instead of red glands. The two taxa overlap in all other features including distribution, and their maintenance as distinct species merits further investigation.

- 1a. Leaf blade lanceolate-oblong to broadly elliptic 18a. var. *giraldii*
- 1b. Leaf blade elliptic to ovate or oblong-elliptic to obovate-oblong.
 - 2a. Leaf blade ovate to elliptic, abaxially with gray stellate hairs 18b. var. *subcanescens*
 - 2b. Leaf blade oblong-elliptic to obovate-oblong, abaxially with gray-brown stellate hairs 18c. var. *chinyunensis*

18a. *Callicarpa giraldii* var. *giraldii*

老鸦糊 lao ya hu

Callicarpa bodinieri H. Léveillé var. *giraldii* (Hesse ex Rehder) Rehder; *C. mairei* H. Léveillé.

Branchlets gray-yellow stellate tomentose. Leaf blade lanceolate-oblong to broadly elliptic, 5–15 × 2–7 cm, abaxially green, sparsely stellate tomentose, and small yellow glandular, adaxially puberulent yellow-green, base cuneate. Fl. May-Jun, fr. Jul-Nov.

• Mixed forests; 200–3400 m. Anhui, Fujian, Gansu, Guangdong, Guangxi, Guizhou, Henan, Hubei, Hunan, Jiangsu, Jiangxi, S Shaanxi, Sichuan, Yunnan, Zhejiang.

Medicinal.

18b. *Callicarpa giraldii* var. *subcanescens* Rehder in Sargent, Pl. Wilson. 3: 368. 1916.

毛叶老鸦糊 mao ye lao ya hu

Callicarpa bodinieri H. Léveillé var. *lyi* (H. Léveillé) Rehder; *C. giraldii* var. *lyi* (H. Léveillé) C. Y. Wu; *C. lyi* H. Léveillé; *C. grisea* Handel-Mazzetti; *C. inamoena* C. Y. Wu.

Leaf blade elliptic to broadly ovate, 10–17 × 4–10 cm, base narrowly cuneate to cuneate. Cymes and leaf blade abaxial surface densely gray stellate tomentose. Fl. May-Jul, fr. Jul-Oct.

• Mixed forests; usually below 2300 m. Anhui, Guangdong, Guangxi, Guizhou, Henan, Hunan, S Jiangsu, Jiangxi, Sichuan, Yunnan, Zhejiang.

Although placed in *Callicarpa bodinieri* in vol. 65(1) of Fl. Reipubl. Popularis Sin. (1982), the holotype of *C. giraldii* var. *subcanescens* has yellow glands and must be placed here.

18c. *Callicarpa giraldii* var. *chinyunensis* (P'ei & W. Z. Fang) S. L. Chen, Novon 1: 58. 1991.

缙云紫珠 jin yun zi zhu

Callicarpa chinyunensis P'ei & W. Z. Fang in W. Z. Fang, Fl. Reipubl. Popularis Sin. 65(1): 209. 1982.

Branchlets purple-brown, distinctly lenticellate. Leaf blade oblong-elliptic to obovate-oblong, 8–13.5 × 2.5–4.5 cm, abaxially with densely gray-brown stellate hairs, adaxially minutely hispid and scabrous, base obtuse to rounded. Cymes dense. Fl. May.

- Mixed forests on mountain slopes; 300–500 m. Sichuan.

19. *Callicarpa longifolia* Lamarck, Encycl. 1: 563. 1785.

长叶紫珠 *chang ye zi zhu*

Shrubs 2–3(–5) m tall. Branchlets 4-angled, nodes with a transverse scar. Petiole slender, 0.5–1.5 mm; leaf blade narrowly lanceolate to oblong-elliptic, 8–20 × 2–6 cm, adaxially glabrous, base cuneate to narrowly cuneate, margin serrate, apex caudate-acuminate to cuneate, midvein and lateral veins abaxially very prominent. Cymes 2–3 cm across; peduncle slender, 0.5–1.5 cm. Calyx cup-shaped, ca. 1 mm, truncate to minutely 4-dentate, gray puberulent. Corolla pale purple, ca. 2 mm, slightly puberulent. Stamens 2–3 × as long as corolla; anthers ovate, ca. 1 mm. Ovary puberulent. Fruit ca. 1.5 mm in diam., stellate pubescent. Fl. May–Aug, fr. Aug–Dec.

800–1700 m. Guangdong, Guangxi, Guizhou, Hainan, Sichuan, Taiwan, Yunnan [India, Indonesia, Laos, Malaysia, Myanmar, Philippines, Singapore, Thailand, Vietnam].

- 1a. Leaf blade narrowly lanceolate, abaxially subglabrous 19c. var. *lanceolaria*
- 1b. Leaf blade oblong-elliptic, abaxially with stellate hairs.
 - 2a. Leaf blade abaxially sparsely yellow-brown stellate pilose 19a. var. *longifolia*
 - 2b. Leaf blade abaxially with densely grayish minutely stellate hairs 19b. var. *floccosa*

19a. *Callicarpa longifolia* var. *longifolia*

长叶紫珠 *chang ye zi zhu*

Branchlets, petioles, and inflorescences yellowish brown stellate tomentose. Leaf blade oblong-elliptic, 9–20 × 3–6 cm, abaxially yellowish brown stellate tomentose and yellow glandular. Fl. May–Aug, fr. Aug–Dec.

Mixed forests; below 1400 m. Guangdong, Taiwan, Yunnan [India, Indonesia, Myanmar, Philippines, Vietnam].

19b. *Callicarpa longifolia* var. *floccosa* Schauer in A. de Candolle, Prodr. 11: 645. 1847.

白毛长叶紫珠 *bai mao chang ye zi zhu*

Branches and cymes with gray mealy stellate hairs. Leaf blade oblong-elliptic, 12–16 × 3–5 cm, abaxially with mealy gray stellate hairs. Fl. Aug, fr. Sep–Nov.

Mixed forests on mountain slopes; 1000 m. Guangxi, Guizhou, Sichuan [India, Indonesia, Philippines, Singapore].

19c. *Callicarpa longifolia* var. *lanceolaria* (Roxburgh) C. B. Clarke in J. D. Hooker, Fl. Brit. Ind. 4: 570. 1885.

披针叶紫珠 *pi zhen ye zi zhu*

Callicarpa lanceolaria Roxburgh, Fl. Ind. 1: 409. 1820.

Leaf blade narrowly lanceolate, 8–15 × 2–5 cm, glabrous except midvein sparsely puberulent, both surfaces small yellow glandular. Fl. Jun–Jul, fr. Aug–Dec.

Mixed forests; 800–1700 m. Hainan, Yunnan [Bangladesh, India, Malaysia, Vietnam].

20. *Callicarpa prolifera* C. Y. Wu, Fl. Yunnan. 1: 404. 1977.

抽芽紫珠 *chou ya zi zhu*

Shrubs ca. 2 m tall. Branchlets dark brown, terete, with gray lenticels and gray-brown stellate hairs. Leaf blade oblong-lanceolate to ovate or lanceolate, abaxially with stellate hairs along veins, margin entire, slightly sinuate, or serrulate, apex acuminate to caudate-acuminate. Cymes ca. 1 cm across, with branchlets growing out from them, with yellow-brown stellate hairs; peduncle slender, as long as pedicels; bracts linear, ca. 2 mm. Calyx subtruncate, glabrous. Corolla purplish; tube ca. 2 mm, glabrous. Stamens ca. 4 mm; anthers elliptic, ca. 1.2 mm. Fruit purple, 2–3 mm in diam., glabrous, yellow glandular. Fr. autumn.

- 900–2200 m. Guangxi, Yunnan.

- 1a. Petiole 5–10 mm; leaf blade oblong-lanceolate to ovate 20a. var. *prolifera*
- 1b. Petiole nearly absent; leaf blade lanceolate 20b. var. *rubroglandulosa*

20a. *Callicarpa prolifera* var. *prolifera*

抽芽紫珠 *chou ya zi zhu*

Petiole 5–10 mm, stellate tomentose, yellow glandular; leaf blade oblong-lanceolate to ovate, 1–9(–13) × 1.5–3(–4.5) cm, unequally paired, abaxially orange glandular, adaxially with stellate hairs along veins and densely yellow to yellow-brown glandular, base broadly cuneate. Calyx yellow glandular.

- Mixed forests; 1500–2200 m. Guangxi, Yunnan.

20b. *Callicarpa prolifera* var. *rubroglandulosa* S. L. Chen, Novon 1: 58. 1991.

红腺抽芽紫珠 *hong xian chou ya zi zhu*

Petiole nearly absent; leaf blade lanceolate, (6–)12–16(–19) × (1–)2–4 cm, base decurrent, both surfaces subglabrous, abaxially orange glandular. Calyx outside densely orange glandular.

- Forests in valleys; 900 m. N Guangxi.

21. *Callicarpa pingshanensis* C. Y. Wu ex W. Z. Fang in W. Z. Fang, Fl. Reipubl. Popularis Sin. 65(1): 210. 1982.

屏山紫珠 *ping shan zi zhu*

Shrubs 1.5–2 m tall. Branchlets purple-brown, distinctly lenticellate, with sparse stellate hairs when young, subglabrescent. Petiole ca. 6 mm, with stellate hairs; leaf blade oblong-elliptic to elliptic, 8–14 × 3–5 cm, narrowed below middle, membranous, abaxially subglabrous and densely yellow glandular, adaxially puberulent on veins, base obtuse, margin triangular serrulate, apex acute to caudate-acuminate, veins 8–10 pairs. Cymes 3–9-flowered, with branchlets growing out from them; peduncle ca. 5 mm, with stellate hairs; bracts linear. Pedicel glabrous. Calyx cup-shaped, ca. 1 mm, truncate to subtruncate, glabrous. Corolla purple; tube ca. 4 mm, glabrous. Stamens ca. 5 mm; anthers elliptic, ca. 1 mm. Ovary globose, glabrous. Fl. late spring to summer.

• Mixed forests on mountain slopes; 700–1600 m. Sichuan (Pingshan Xian).

22. *Callicarpa longissima* (Hemsley) Merrill, Philipp. J. Sci. 12: 108. 1917.

尖尾枫 jian wei feng

Callicarpa longifolia Lamarck var. *longissima* Hemsley, J. Linn. Soc., Bot. 26: 253. 1890.

Shrubs or small trees, 1–3(–7) m tall. Branchlets purplish brown, 4-angled. Petiole 1–1.5 cm; leaf blade lanceolate to elliptic-lanceolate, 13–25 × 2–7 cm, abaxially glabrous, adaxially subglabrous except long villous pubescence mainly along veins, base cuneate, margin subentire to obscurely serrulate, apex acute; veins 12–20 pairs, elevated on both surfaces. Cymes 3–6 cm across; peduncle 1.5–3 cm. Calyx subtruncate to obscurely dentate, glabrous, glandular. Corolla purple, ca. 2.5 mm, glabrous. Stamens ca. 2 × as long as corolla tube. Ovary glabrous. Fruit 1–1.5 mm in diam., glabrous, small glandular. Fl. Jul–Sep, fr. Aug–Dec.

Mixed forests or open waste places on mountain slopes; below 1200 m. Fujian, Guangdong, Guangxi, Hainan, Jiangxi, Sichuan, Taiwan [Japan, Vietnam].

23. *Callicarpa luteopunctata* Chang, Acta Phytotax. Sin. 1: 292. 1951.

黄腺紫珠 huang xian zi zhu

Shrubs ca. 2 m tall; petioles and cymes densely brown stellate tomentellous. Branchlets yellowish gray, terete. Petiole 1–1.5 cm; leaf blade oblong-elliptic to ovate-lanceolate, 7–16 × 2–5 cm, densely small yellowish glandular, subglabrous to adaxially sparsely yellowish brown stellate tomentellous along midvein and lateral veins, base narrowly cuneate, margin irregularly serrate, apex acuminate. Cymes 2–3 cm across; peduncle 4–7 mm; bracts small, linear. Calyx cup-shaped, ca. 0.7 mm, subtruncate to obscurely dentate, usually glabrous, yellow glandular. Corolla purple, ca. 1.4 mm, glabrous. Stamens usually 2 × as long as corolla. Ovary glabrous, yellow glandular. Fruit ca. 1 mm in diam., yellow glandular. Fl. Jun–Jul, fr. Aug–Oct.

• Mixed forests on mountain slopes or in valleys; 800–2300 m. Sichuan, Yunnan.

24. *Callicarpa dichotoma* (Loureiro) K. Koch, Dendrologie 2: 336. 1872.

白棠子树 bai tang zi shu

Porphyra dichotoma Loureiro, Fl. Cochinch. 1: 70. 1790.

Shrubs 1(–3) m tall, much branched. Branchlets slender, with stellate hairs when young. Leaves sessile or subsessile; leaf blade lanceolate to obovate, 2–6(–10) × 1–3(–4) cm, papery, abaxially with small yellow-glandular stellate hairs on margins, adaxially glabrous and subscabrous, base cuneate, margin coarsely dentate along apical part, apex usually very short acuminate with an obtuse tip, veins 4 or 5 pairs. Cymes 1–2.5 cm across; peduncle slender, 8–12 cm; bracts linear. Calyx cup-shaped, less than 1 mm, subtruncate, obscurely dentate, outside few glandular. Corolla purple, tube 2 × as long as calyx tube. Stamens exserted; filaments 2 × as long as corolla tube, glabrous. Ovary glabrous, sparsely yellow glandular. Fruit subglobose, 1–2 mm in diam., with few glands. $2n = 36$.

Mixed forests on mountain slopes; below 600 m. Anhui, Fujian, Guangdong, Guangxi, Guizhou, Hebei, Henan, Hubei, Hunan,

Jiangsu, Jiangxi, Shandong, Taiwan, Zhejiang [Japan, Korea, Vietnam].

Medicinal.

25. *Callicarpa kotoensis* Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 219. 1911.

红头紫珠 hong tou zi zhu

Callicarpa antaoensis Hayata; *C. japonica* Thunberg var. *kotoensis* (Hayata) Masamune.

Shrubs small. Branchlets with yellowish brown stellate hairs. Petiole less than 1 cm; leaf blade elliptic to elliptic-lanceolate, abaxially yellowish brown stellate tomentose and small yellow glandular on veins, adaxially glabrous, base cuneate, margin serrate, apex acute, veins 7–9 pairs. Cymes ca. 4 cm across, with stellate hairs; peduncle 1–2 cm; bracts linear-lanceolate, ca. 10 × 2 mm. Calyx cup-shaped, subtruncate. Corolla ca. 2.5 mm. Stamens 2 × as long as corolla tube. Ovary glabrous. Fl. summer.

• Near coast; 100 m. Taiwan.

26. *Callicarpa sionsaiensis* Metcalf, Lingnan Sci. J. 11: 407. 1932.

上狮紫珠 shang shi zi zhu

Callicarpa japonica Thunberg f. *glabra* P'ei.

Shrubs ca. 2 m tall; petioles and inflorescences sparsely stellate tomentose. Branchlets gray-yellow. Petiole 1.5–2 cm; leaf blade elliptic to ovate-elliptic, 10–14 × 4–6 cm, abaxially small yellow glandular, adaxially glabrous or subglabrous, base cuneate to obtuse, margin subentire to subserrate, apex acute to acuminate. Cymes 2–4 cm across; peduncle as long as petioles. Calyx cup-shaped, truncate, glabrous. Fruit dark brown when dry, ca. 3 mm in diam., glabrous. Fl. early summer.

• Mountain slopes; below 100 m. E Fujian.

27. *Callicarpa pilosissima* Maximowicz, Bull. Acad. Imp. Sci. Saint Pétersbourg, sér. 3, 31: 76. 1887.

长毛紫珠 chang mao zi zhu

Callicarpa pilosissima var. *henryi* Yamamoto.

Shrubs; branchlets, petioles, and peduncles usually densely yellow-brown long villous. Petiole ca. 5 mm; leaf blade narrowly lanceolate, 10–18 × 2–3 cm, abaxially densely yellow-brown pilose and glandular, adaxially sparsely pubescent, base slightly cordate to rounded, margin obscurely serrulate, apex ± acuminate. Cymes 2–3 cm across; peduncle 1–1.5 cm. Pedicel ca. 1 mm. Calyx ca. 1 mm, sparsely pilose, sometimes with short gland-tipped hairs. Corolla ca. 2 mm, glabrous. Stamens 4–5 mm; anthers small, rounded. Ovary pubescent, glandular. Fruit ca. 1 mm in diam., glandular. Fl. Oct, fr. Oct–Dec.

• Mixed forests on mountain slopes; 500–1500 m. Taiwan.

28. *Callicarpa bodinieri* H. Léveillé, Repert. Spec. Nov. Regni Veg. 9: 456. 1911.

紫珠 zi zhu

Shrubs ca. 2 m tall; branchlets, petioles, and inflorescences with dense stellate hairs. Petiole 5–10 mm; leaf blade red glandular, abaxially subglabrous or stellate tomentose, adaxially pubescent. Cymes 3–4.5 cm across; peduncle less than 1 cm; bracts small. Pedicel ca. 1 mm. Calyx ca. 1 mm,

teeth obtusely triangular, stellate tomentose. Corolla purple, ca. 3 mm, stellate tomentose. Stamens ca. 6 mm; anthers elliptic, 1 mm, dark red glandular on connective. Ovary pubescent. Fruit purple, globose, ca. 2 mm in diam. Fl. Jun-Jul, fr. Aug-Dec.

200-2300 m. Anhui, Guangdong, Guangxi, Guizhou, S Henan, Hubei, Hunan, S Jiangsu, Jiangxi, Sichuan, Yunnan, Zhejiang [Vietnam].

This species is often confused with *Callicarpa giraldii* which differs by its yellow glands.

- 1a. Leaf blade narrowly elliptic, elliptic, or ovate-elliptic, 4-7 cm wide, base cuneate
..... 28a. var. *bodinieri*
- 1b. Leaf blade lanceolate, oblanceolate, or obovate-oblong, 2-4 cm wide, base narrowly cuneate.
 - 2a. Leaf blade abaxially grayish stellate pubescent
..... 28b. var. *rosthornii*
 - 2b. Leaf blade subglabrous on both surfaces
..... 28c. var. *iteophylla*

28a. *Callicarpa bodinieri* var. *bodinieri*

紫珠 zi zhu

Callicarpa feddei H. Léveillé; *C. seguinii* H. Léveillé; *C. tsiangii* Moldenke.

Leaf blade narrowly elliptic, elliptic, or ovate-elliptic, 7-18 × 4-7 cm, papery, with small red to dark red glands, abaxially stellate tomentose, base cuneate, margin serrulate, apex long acuminate to acute. Calyx outside dark red glandular. Corolla dark red glandular. Fl. Jun-Jul, fr. Aug-Nov.

Mixed forests; 200-2300 m. Anhui, Guangdong, Guangxi, Guizhou, S Henan, Hubei, Hunan, S Jiangsu, Jiangxi, Sichuan, Yunnan, Zhejiang [Vietnam].

Medicinal.

28b. *Callicarpa bodinieri* var. *rosthornii* (Diels) Rehder, J. Arnold Arbor. 15: 323. 1934.

南川紫珠 nan chuan zi zhu

Callicarpa longifolia Lamarck var. *rosthornii* Diels in Engler, Bot. Jahrb. Syst. 29: 548. 1900; *C. giraldii* Hesse ex Rehder var. *rosthornii* (Diels) Rehder.

Leaf blade oblanceolate to obovate-oblong, membranous, densely glandular, abaxially grayish stellate pubescent, base narrowly cuneate, margin serrate above middle.

• Mixed forests on mountain slopes; 500-1100 m. Sichuan (Nanchuan Xian).

28c. *Callicarpa bodinieri* var. *iteophylla* C. Y. Wu, Fl. Yunnan. 1: 406. 1977.

柳叶紫珠 liu ye zi zhu

Leaf blade lanceolate to oblanceolate, 6-13 × 2-4 cm, base narrowly cuneate, both surfaces subglabrous and dark red glandular. Calyx and corolla subglabrous, dark red glandular. Fl. Jun, fr. Sep-Dec.

• Mixed forests; 600-1600 m. S Yunnan.

29. *Callicarpa salicifolia* P'ei & W. Z. Fang in W. Z. Fang, Fl. Reipubl. Popularis Sin. 65(1): 210. 1982.

水金花 shui jin hua

Shrubs ca. 2 m tall. Branchlets terete, grayish yellow, purplish, or purplish brown stellate tomentose when young, glabrescent. Leaf blade narrowly lanceolate to lanceolate, 5-14 × 0.8-3 cm, both surfaces subglabrous but midvein subglabrous to sparsely stellate tomentose, abaxially dark purple glandular, base broadly cuneate to subrounded, margin sparsely serrate, apex acuminate. Cymes 1-2 cm across, dense purplish black glandular; peduncle ca. 5 mm; bracts small, linear. Calyx cup-shaped, truncate to subtruncate, glabrous. Corolla purple, ca. 3 mm. Stamens ca. 5 mm; anthers oblong. Ovary sparsely gray stellate tomentose. Fruit globose, ca. 2 mm in diam. Fl. and fr. Jun-Nov.

• Mixed forests on mountain slopes; 500-1000 m. S and W Sichuan, NW Yunnan.

30. *Callicarpa erythrodicta* Merrill & Chun, Sunyatsenia 5: 178. 1940.

红腺紫珠 hong xian zi zhu

Shrubs ca. 2 m tall. Branchlets grayish, terete, with stellate hairs, brownish red glandular. Petiole 2-5 mm; leaf blade ovate-oblong to elliptic-lanceolate, 4-8 × 1-2.5 cm, abaxially with stellate hairs on midvein and densely red-brown glandular, adaxially glabrous, base cuneate, margin serrate above middle, apex caudate-acuminate, veins 5-8 pairs. Cymes ca. 1 cm across; peduncle ca. 5 mm; bracts linear. Calyx ca. 1 mm, truncate, densely brownish red glandular. Corolla pinkish to nearly white, ca. 2.5 mm. Stamens long exerted. Ovary glabrous, brownish red glandular. Fruit globose, ca. 2 mm in diam., sparsely brownish red glandular. Fl. spring.

• Mixed forests on mountain slopes; 400-1400 m. Hainan.

31. *Callicarpa hungtaii* P'ei & S. L. Chen in W. Z. Fang, Fl. Reipubl. Popularis Sin. 65(1): 60. 1982.

厚萼紫珠 hou e zi zhu

Premna angustifolia Chang (1960), not *Callicarpa angustifolia* King & Gamble (1908).

Subshrubs to shrubs. Branchlets stellate tomentose when young. Petiole ca. 2 mm; leaf blade oblong-lanceolate, 3-6 × 1-1.6 cm, subleathery, abaxially greenish with brownish red glands, adaxially dark green and glabrous except on midvein, base cuneate, margin sparsely serrate above middle, apex caudate-acuminate, veins 5 or 6 pairs, midvein and veins conspicuous on both surfaces. Cymes ca. 2 cm across, 1-7-flowered; peduncle 3-5 mm. Pedicel ca. 2 mm, minutely stellate tomentose. Calyx outside reddish brown glandular. Fruit subglobose, ca. 3 mm in diam.

• Thickets on mountain slopes; 300-600 m. Guangdong (Yangchun Xian).

Similar to *Callicarpa erythrodicta* but differs in having subleathery leaf blades and calyces thickened in fruit.

32. *Callicarpa longipes* Dunn, J. Linn. Soc., Bot. 38: 363. 1908.

长柄紫珠 chang bing zi zhu

Callicarpa longipes var. *laui* Moldenke.

Shrubs 2-3 m tall. Stems with short stellate hairs plus fewer, simple gland-tipped hairs. Branchlets brownish pilose. Petiole 5-8 mm; leaf blade elliptic to ovate-lanceolate, 6-13 × 2-7 cm, abaxially yellow glandular, base cordate and slightly oblique, margin triangular serrate, apex acute to caudate, veins 8-10 pairs. Cymes ca. 3 cm across, pilose; peduncle

1.5–3 cm. Calyx campanulate, 1–2 mm; teeth 4, acute. Corolla reddish, ca. 4 mm, pilose. Stamens 2 × as long as corolla tube; anthers ovate, ca. 1 mm. Ovary glabrous. Fruit purple, globose, 1.5–2 mm in diam. Fl. Jun-Jul, fr. Aug-Dec.

• Thickets, mixed forests; 300–500 m. Anhui, Fujian, Guangdong, Jiangxi.

33. *Callicarpa basitruncata* Merrill ex Moldenke, *Phytologia* 3: 406. 1951.

平基紫珠 ping ji zi zhu

Shrubs. Branches and branchlets obtusely 4-angled, stellate puberulent when young, subglabrescent; twigs brown, slender, sparsely stellate tomentellous with short gray hairs. Petiole 1–2 mm; leaf blade oblong-oblancheolate, 6–12.5 × 1–2.5 cm, abaxially stellate tomentellous on main veins, adaxially glabrous except for a few brown peltate glands near base, dark yellow glandular, base truncate to shallowly cordate, margin very shallowly crenulate to subentire and minutely revolute, apex subacuminate. Cymes few flowered; peduncle slender, ca. 5 mm. Calyx ca. 1 × 1 mm, obscurely 4-dentate to almost truncate, very sparsely stellate puberulent to glabrescent, very sparsely glandular. Corolla white; tube ca. 2 mm, very minutely papillate, glandular. Stamens exerted.

• Bank by a small grove, 400 m. Hainan.

Known only from the type collection of which only a photograph of the holotype has been seen by the authors.

34. *Callicarpa rubella* Lindley, *Bot. Reg.* 11: t. 883. 1825.

红紫珠 hong zi zhu

Shrubs ca. 2 m tall. Petiole very short to leaf subsessile; leaf blade lanceolate, oblanceolate, obovate-elliptic, or ovate, (4.5–)8–14(–21) × (1.1–)2–8(–10) cm, base cordate and sometimes oblique, margin serrulate, irregularly serrate, or serrate, apex acuminate to caudate; veins 6–10 pairs, midvein, lateral veins, and reticulate veins elevated on both surfaces. Cymes 2–4 cm across; peduncle ca. (0.6–)1–3 cm; bracts small. Calyx subtruncate to slightly dentate with obtusely triangular teeth. Corolla purple, greenish, or white, ca. 3 mm. Fruit purple, (1–)2 mm in diam. Fl. May-Jul, fr. Jul-Nov.

100–3500 m. Anhui, Fujian, Guangdong, Guangxi, Guizhou, Hainan, Hunan, Jiangxi, Sichuan, Yunnan, Zhejiang [Indonesia, Laos, Malaysia, Myanmar, Thailand, Vietnam].

- 1a. Branchlets, cymes, and abaxial leaf surfaces pubescent with stellate hairs 34a. var. *rubella*
- 1b. Branchlets, cymes, and leaves glabrous 34b. var. *subglabra*

34a. *Callicarpa rubella* var. *rubella*

红紫珠 hong zi zhu

Callicarpa dielsii (H. Léveillé) P'ei; *C. panduriformis* H. Léveillé; *C. rubella* var. *dielsii* (H. Léveillé) H. L. Li; *C. rubella* var. *hemsleyana* Diels; *C. tenuiflora* Champion; *Viburnum dielsii* H. Léveillé.

Branchlets with brown stellate and glandular hairs. Leaf blade abaxially with stellate, simple, and glandular hairs and yellow glandular, adaxially with glandular hairs. Cymes with brown stellate and glandular hairs. Calyx with stellate hairs, glandular hairs, and yellow glands. Corolla puberulent, yellow glandular. Fl. May-Jul, fr. Jul-Nov.

Thickets or mixed forests on mountain slopes or in valleys; 100–3500 m. Anhui, Guangdong, Guangxi, Guizhou, Hainan, Hunan,

Jiangxi, Sichuan, Yunnan, Zhejiang [Indonesia, Malaysia, Myanmar, Thailand, Vietnam].

34b. *Callicarpa rubella* var. *subglabra* (P'ei) Chang, *Acta Phytotax. Sin.* 1: 297. 1951.

秃红紫珠 tu hong zi zhu

Callicarpa rubella var. *hemsleyana* Diels f. *subglabra* P'ei, *Mem. Sci. Soc. China* 1(3): 41. 1932.

Branchlets, leaves, inflorescences, calyces, and corollas glabrous. Fl. Jun-Jul, fr. Jul-Sep.

• Thickets or forests on mountain slopes or along stream banks; 100–1200 m. Guangdong, Guangxi, Guizhou, Hunan, Jiangxi, Zhejiang.

35. *Callicarpa cathayana* Chang, *Acta Phytotax. Sin.* 1: 305. 1951.

华紫珠 hua zi zhu

Shrubs 1.5–3 m tall. Branchlets slender, slightly stellate tomentose when young, glabrescent. Petiole 4–8 mm; leaf blade elliptic to ovate, 4–8 × 1.5–3 cm, subglabrous, red glandular, base narrowly cuneate, margin serrulate, apex acuminate, veins 5–7 pairs. Cymes slender, ca. 1.5 cm across, sparsely stellate tomentose; peduncle 4–7 mm; bracts small. Calyx cup-shaped, truncate to minutely 4-dentate, teeth obtusely triangular, stellate tomentose, red glandular. Corolla purple, sparsely stellate tomentose, red glandular. Filaments equal or slightly longer than corolla; anthers ca. 1.2 mm. Ovary glabrous. Style slightly longer than stamens. Fruit purple, globose, ca. 2 mm in diam. Fl. May-Jul, fr. Aug-Nov.

• Mixed forests on mountain slopes or in valleys; below 1200 m. Anhui, Fujian, Guangdong, Guangxi, Henan, Hubei, Jiangsu, Jiangxi, Yunnan, Zhejiang.

36. *Callicarpa dentosa* (Chang) W. Z. Fang, *Fl. Reipubl. Popularis Sin.* 65(1): 66. 1982.

多齿紫珠 duo chi zi zhu

Callicarpa brevipes (Benth) Hance var. *dentosa* Chang, *Acta Phytotax. Sin.* 1: 300. 1951.

Shrubs. Branchlets purplish brown with stellate hairs when young, becoming grayish brown and glabrous. Petiole ca. 4 mm; leaf blade elliptic to oblong-lanceolate, 16–25 × 5–7 cm, abaxially stellate tomentose on veins and densely purple glandular, adaxially glabrous except midvein sparsely puberulent, base cuneate, margin serrulate, apex acute, veins 8 or 9 pairs. Cymes dense, ca. 1 cm across; peduncle shorter than petioles; bracts small. Pedicel ca. 1.5 mm. Calyx cup-shaped, truncate, subglabrous, purple glandular. Corolla white, 3.5 mm in diam., subglabrous, purple glandular. Filaments shorter than corolla tube. Fl. Jun-Jul, fr. Jul-Sep.

• Dense forests on mountain slopes or along stream banks; 400–1000 m. N Guangdong.

Related to *Callicarpa brevipes* but differs in elliptic to oblong-lanceolate leaf blades and densely purple glandular calyces and corollas.

37. *Callicarpa collina* Diels, *Notizbl. Bot. Gart. Berlin-Dahlem* 9: 1030. 1926.

丘陵紫珠 qiu ling zi zhu

Callicarpa brevipes (Benth) Hance f. *yingtakensis* P'ei.

Shrubs 1–2 m tall. Branchlets terete, yellowish brown stellate tomentose. Petiole ca. 5 mm; leaf blade oblanceolate to elliptic-lanceolate, 12–19(–25) × 3–6(–8) cm, abaxially with sparse yellowish brown stellate hairs denser along midvein and obscurely small yellow glands, adaxially glabrous, base cuneate to broadly cuneate, margin sparsely serrulate, apex acuminate to acute. Cymes dense, 1–1.5 cm across; peduncle ca. 5 mm, sparsely yellowish brown stellate tomentose; bracts small. Pedicel ca. 1.5 mm, glabrous. Calyx ca. 1.2 mm, subtruncate, obscurely dentate, glabrous. Corolla white or pinkish, ca. 3 mm; lobes 4, apex obtuse to subrounded. Filaments shorter than corolla tube; anthers exerted. Ovary glabrous. Fruit globose, ca. 2 mm in diam. Fl. May–Jul, fr. Jun–Aug.

- Mountain slopes; 700–1000 m. Guangdong, S Jiangxi.

38. *Callicarpa tingwuensis* Chang, Acta Phytotax. Sin. 1: 302. 1951.

鼎湖紫珠 *ding hu zi zhu*

Shrubs ca. 1 m tall. Branchlets yellowish brown stellate tomentose. Petiole 1–1.5 cm, stellate tomentose; leaf blade elliptic to oblong, 14–20 × 5–8.5 cm, abaxially stellate tomentose, adaxially pubescent along veins, base broadly cuneate to subrounded and slightly oblique, margin serrulate, apex acuminate, veins 10–12 pairs. Cymes 1.5–2.5 cm across, yellowish brown stellate tomentose; peduncle ca. 5 mm; bracts small. Pedicel ca. 1 mm. Calyx ca. 1 mm, truncate, outside stellate tomentose. Corolla white, 3–4 mm, slightly puberulent. Filaments shorter than corolla; anthers oblong, ca. 1.5 mm. Ovary densely stellate tomentose. Style ca. 5 mm. Fruit ca. 3 mm in diam., stellate tomentose. Fl. May, fr. Sep–Oct.

- Mixed forests on mountain slopes, 400–500 m. Guangdong (Dinghu Shan).

Similar to *Callicarpa brevipes* and *C. collina* but differs from both in having calyces, ovaries, and fruit stellate tomentose and corollas slightly puberulent.

39. *Callicarpa randaiensis* Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 222. 1911.

畚大紫珠 *luan da zi zhu*

Shrubs. Petioles and inflorescences stellate tomentose. Branchlets yellowish brown. Petiole 2–5 mm; leaf blade lanceolate, 4–9 × 1–2(–3) cm, yellow glandular, abaxially stellate tomentose on veins, adaxially sparsely puberulent, base cuneate, margin serrate, apex acuminate, veins 6–9 pairs. Cymes delicate, ca. 1.5 cm across; peduncle ca. 8 mm; bracts small, linear. Calyx cup-shaped, teeth obtusely triangular, glabrous, yellow glandular. Corolla ca. 4 mm, glabrous, yellow glandular. Filaments slightly longer than or equal to corolla; anthers oblong. Ovary glabrous, yellow glandular. Style slightly longer than stamens; stigma emarginate. Fruit globose, ca. 2 mm in diam. Fl. Jul, fr. Jul–Dec.

- Mixed forests on mountain slopes; 1000–2500 m. Taiwan.

40. *Callicarpa brevipes* (Benth) Hance, Ann. Sci. Nat. Bot., sér. 5, 5: 233. 1886.

短柄紫珠 *duan bing zi zhu*

Shrubs 1–2.5 m tall. Branchlets obscurely 4-angled, yellow-brown stellate pubescent when young, glabrescent. Petiole ca. 5 mm; leaf blade narrowly lanceolate, lanceolate, obovate-elliptic, or broadly ovate, 6–24 × 1–6 cm, abaxially

stellate pubescent on veins and yellow glandular, adaxially glabrous, margin subentire to sparsely serrulate along apical part, apex acuminate or acute, veins 9–12 pairs. Cymes ca. 1.5 cm across; peduncle slender, subequal to slightly longer than subtendons. Flowers small, usually pendent. Calyx cup-shaped, subtruncate to minutely 4-dentate. Corolla white, ca. 3.5 mm, glabrous. Filaments nearly as long as corolla; anthers oblong, densely yellow glandular. Ovary glabrous, glandular. Style slightly longer than stamens. Fruit red to purple, 2–9 mm in diam. Fl. Apr–Jun, fr. Jul–Nov.

- 300–1400 m. Guangdong, Guangxi, Hainan, S Zhejiang [Vietnam].

- 1a. Leaf blade narrowly lanceolate to lanceolate, apex acuminate 40a. var. *brevipes*
- 1b. Leaf blade obovate-elliptic to broadly ovate, apex acute 40b. var. *obovata*

40a. *Callicarpa brevipes* var. *brevipes*

短柄紫珠 *duan bing zi zhu*

Callicarpa longifolia Lamarck var. *brevipes* Benth, Fl. Hongk. 270. 1861; *C. brevipes* f. *serrulata* P'ei.

Leaf blade narrowly lanceolate to lanceolate, 9–24 × 1–5 cm, base obtuse to rarely cuneate or slightly cordate, apex acuminate. Fl. Apr–Jun, fr. Jul–Oct.

- Mixed forests on mountain slopes; 600–1400 m. Guangdong, Guangxi, S Zhejiang [Vietnam].

40b. *Callicarpa brevipes* var. *obovata* Chang, Acta Phytotax. Sin. 1: 301. 1951.

倒卵叶短柄紫珠 *dao luan ye duan bing zi zhu*

Leaf blade obovate-elliptic to broadly ovate, 6–16 × 3.5–6 cm, base subcordate to rounded, apex acute. Fl. Apr–May, fr. Oct–Nov.

- Mixed forests; 300–600 m. Guangdong, Hainan.

41. *Callicarpa remotiserrulata* Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 223. 1911.

疏齿紫珠 *shu chi zi zhu*

Callicarpa remotiflora Wei-Fang Lin & Jen-Li Wang.

Shrubs. Branchlets stellate pubescent when young, glabrescent. Petiole robust, 6–8 mm; leaf blade oblong-lanceolate to oblong, 6–10 × 2–3 cm, subleathery, shiny, glabrous and glandular, base cuneate, margin sparsely serrulate, apex acuminate; veins 6–10 pairs, abaxially slightly elevated. Cymes ca. 1.5 cm across; peduncle ca. 1.5 cm in fruit. Calyx cup-shaped, subtruncate to minutely 4-dentate, teeth obtusely triangular. Corolla white, ca. 3.5 mm. Anthers elliptic. Fruit globose, ca. 2.5 mm in diam., glabrous. Fr. Dec.

- Mountain slopes; 300–800 m. S Taiwan.

42. *Callicarpa japonica* Thunberg in Murray, Syst. Veg. ed. 14, 153. 1784.

日本紫珠 *ri ben zi zhu*

Shrubs ca. 2 m tall. Branchlets terete, glabrous. Leaf blade elliptic, ovate, or obovate, 7–18 × 4–8 cm, glabrous, base cuneate, margin serrulate above middle, apex bluntly caudate-acuminate to acute. Cymes delicate, ca. 2 cm across; peduncle 6–10 mm. Calyx cup-shaped, teeth obtusely triangular. Corolla white or purplish, ca. 3 mm, glabrous. Filaments equal or slightly longer than corolla tube; anthers

ca. 1.8 mm, exerted. Fruit globose, ca. 2.5 mm in diam. Fl. Jun-Jul, fr. Jul-Oct.

200–900 m. Anhui, Guizhou, Hebei, W Hubei, Hunan, Jiangsu, Jiangxi, Liaoning, Shandong, E Sichuan, Taiwan, Zhejiang [Japan, Korea].

- 1a. Peduncle equal or longer than petioles 42a. var. *japonica*
1b. Peduncle shorter than petioles 42b. var. *luxurians*

42a. *Callicarpa japonica* var. *japonica*

日本紫珠 *ri ben zi zhu*

Callicarpa japonica f. *kuruninsularis* Masamune; *C. taquetii* H. Léveillé.

Petiole ca. 6 mm; leaf blade 7–12 × 4–6 cm. Fl. Jun-Jul, fr. Aug-Oct.

Mixed forests on mountain slopes or in valleys; 200–900 m. Anhui, Guizhou, Hebei, W Hubei, Hunan, Jiangsu, Jiangxi, Liaoning, Shandong, E Sichuan, Taiwan, Zhejiang [Japan, Korea].

42b. *Callicarpa japonica* var. *luxurians* Rehder in Sargent, Pl. Wilson. 3: 369. 1916.

朝鲜紫珠 *chao xian zi zhu*

Callicarpa australis Koidzumi.

Petiole 1.5–2 cm; leaf blade 12–18 × 6–8 cm. Peduncle shorter than petioles. Flowers smaller than in var. *japonica*. Fl. Jun, fr. Jul-Oct.

Sparse forests; 200–400 m. Taiwan (Lanyu Dao) [Japan, Korea].

43. *Callicarpa membranacea* Chang, Acta Phytotax. Sin. 1: 306. 1951.

窄叶紫珠 *zhai ye zi zhu*

Callicarpa japonica var. *angustata* Rehder.

Shrubs ca. 2 m tall. Petiole less than 5 mm; leaf blade purplish green, lanceolate to oblanceolate, 6–10 × 2–3(–4) cm, papery, often glabrous, obscurely glandular, margin serrate above middle, veins 6–8 pairs. Cymes ca. 1.5 cm across; peduncle less than 6 mm. Calyx subtruncate. Corolla ca. 3.5 mm. Fruit ca. 3 mm in diam.

• Forest thickets on mountain slopes or in valleys; below 1300 m. Anhui, Guangdong, Guangxi, Guizhou, Henan, Hubei, Hunan, Jiangsu, Jiangxi, Shaanxi, E Sichuan, Zhejiang.

44. *Callicarpa kwangtungensis* Chun, Sunyatsenia 1: 302. 1934.

广东紫珠 *guang dong zi zhu*

Shrubs ca. 2 m tall. Branchlets purplish, sparsely stellate tomentose when young, becoming yellowish gray and glabrous. Petiole 5–8 mm; leaf blade narrowly linear-lanceolate, elliptic-lanceolate, or lanceolate, 15–26 × 3–5 cm, base cuneate, usually glabrous, abaxially densely small yellow glandular, margin serrulate above middle, apex acuminate; veins 12–15 pairs, glabrous. Cymes 3–5-branched, many flowered, 2–3 cm across, sparsely stellate tomentose; peduncle 5–8 mm. Calyx with obtusely triangular teeth, slightly stellate tomentose when young, glabrescent. Corolla white or purplish, ca. 4 mm, slightly stellate tomentose. Filaments shorter than or equal to corolla; anthers oblong.

Ovary glabrous, yellow glandular. Fruit ca. 3 mm in diam., yellow glandular. Fl. Jun-Jul, fr. Aug-Oct.

• Mixed forests; 300–1600 m. Fujian, Guangdong, Guangxi, Guizhou, Hubei, Hunan, Jiangxi, Yunnan, Zhejiang.

Similar to *Callicarpa membranacea* but differs in having longer leaf blades with abaxial small dense yellow glands and having larger cymes.

45. *Callicarpa anisophylla* C. Y. Wu ex W. Z. Fang in W. Z. Fang, Fl. Reipubl. Popularis Sin. 65(1): 210. 1982.

异叶紫珠 *yi ye zi zhu*

Subshrubs to shrubs, 30–100 cm tall. Branchlets terete, sparsely yellowish gray stellate tomentose. Petiole less than 5 mm; leaf blade linear-lanceolate to narrowly lanceolate, usually oblique, 10–33 × 1.5–4.5 cm, membranous, abaxially glabrous and densely yellow glandular, adaxially pubescent especially on midvein, base narrowly cuneate, margin subentire to loosely serrulate, apex attenuate-acuminate, veins 9–12 pairs. Cymes small, 5–10 mm across; peduncle ca. 3 mm, stellate tomentose, yellow glandular; bracts lanceolate. Pedicel ca. 2 mm. Calyx cup-shaped, ca. 1.2 mm, teeth obtusely triangular. Corolla white, ca. 3 mm. Filaments shorter than corolla tube; anthers exerted, elliptic, ca. 1.5 mm, yellow glandular. Fruit elliptic to subglobose, ca. 2 mm in diam. Fl. and fr. Jun-Aug.

• Dense forests on mountain slopes; 900–1300 m. Guangxi, Guizhou.

46. *Callicarpa lingii* Merrill, J. Arnold Arbor. 8: 16. 1927.

光叶紫珠 *guang ye zi zhu*

Shrubs ca. 1.5 m tall. Branchlets purplish brown, 4-angled, sparsely stellate pubescent when young, becoming terete, grayish brown, and glabrous. Petiole very short to leaf subsessile; leaf blade narrowly elliptic to obovate-elliptic, narrowing below middle, 13–18 × 3–5 cm, glabrous or adaxially puberulent, abaxially densely small yellow glandular, base subcordate, margin subentire to serrulate, apex acuminate to acute, veins 10–12 pairs. Cymes slender, ca. 2.5 cm across, yellowish brown stellate pubescent; peduncle 4–8 mm; bracts linear-lanceolate. Calyx cup-shaped, ca. 2 mm, minutely 4-dentate to subtruncate, glabrous or sparsely stellate pubescent. Corolla purple, ca. 4 mm, subglabrous. Filaments shorter than corolla; anthers ca. 1.5 mm, oblong. Style slightly longer than stamens. Fruit obovate to ovate, ca. 2.5 mm in diam., yellow glandular. Fl. Jun, fr. Jul-Oct.

• Mountain slopes; 300 m. S Anhui, Jiangxi, Zhejiang.

47. *Callicarpa oligantha* Merrill, Philipp. J. Sci. 13: 155. 1918.

罗浮紫珠 *luo fu zi zhu*

Shrubs 2–3 m tall, slender. Branchlets sparsely stellate pilose when young, becoming terete, grayish, and glabrous or subglabrous. Petiole ca. 2 mm; leaf blade narrowly lanceolate, 6–12 × 0.8–1.5 cm, papery, abaxially glabrous except stellate pilose along midvein when young and grayish glandular, adaxially dark brownish green, smooth, shiny, glabrous, and without glands, base cuneate, margin distinctly serrate along apical 2/3, apex acuminate to acute, veins 7–9 pairs. Cymes 2- or 3-flowered; peduncle obsolete to ca. 2 mm. Fruiting pedicel more than 4 mm. Fruit dark brown when dry, subglobose to globose, 3–3.5 mm in diam., glabrous.

• Thickets along stream banks; 900 m. Guangdong (Loufu Shan).

Flora of China 17: 4–16. 1994.

Related to *Callicarpa membranacea* and *C. brevipes* but differs in having inflorescences simple with only 2 or 3 flowers and longer pedicels.

48. *Callicarpa peichieniana* Chun & S. L. Chen in W. Z. Fang, Fl. Reipubl. Popularis Sin. 65(1): 78. 1982.

钩毛紫珠 *gou mao zi zhu*

Premna peii Chun ex Chang (1960), not *Callicarpa peii* Chang (1951).

Shrubs ca. 2 m tall, pubescent with strongly curved stem hairs. Branchlets terete, slender, densely strigose yellow glandular. Petiole very short to leaf subsessile; leaf blade ovate-elliptic to ovate, 2.5–6 × 1–3 cm, glabrous and densely yellow glandular, base cuneate to subrounded, margin serrulate above middle, apex acuminate to caudate-acuminate; veins 4 or 5 pairs, reticulate veins obscure. Cymes simple, rarely dichotomous, (1–)3(–7)-flowered; peduncle capillary, 1–2 cm; bracts linear. Pedicel capillary, ca. 4 mm. Calyx cup-shaped, ca. 1.5 mm, truncate, yellow glandular. Filaments equal or slightly longer than corolla; anthers oblong. Ovary globose, glabrous, densely glandular. Style longer than stamens. Fruit purple, globose, ca. 4 mm in diam.; pyrenes 4. Fl. Jun-Jul, fr. Aug-Nov.

- Mixed forests; 200–700 m. Guangdong, Guangxi, Hunan.

Included in *Callicarpa* because of its axillary inflorescences, actinomorphic corollas, 4 equal stamens, capitate stigmas, etc.

