

1. ACTEPHILA Blume, Bijdr. 581. 1826.

喜光花属 xi guang hua shu

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Anomospermum Dalzell.

Trees or shrubs, monoecious or sometimes dioecious; indumentum of simple hairs, sometimes absent. Leaves alternate, rarely subopposite; stipules 2 in bilateral base of petioles; leaf blade simple, margin often entire, pinnately veined. Flowers axillary, fascicled or solitary; pedicels usually elongated. Male flowers: sepals 4–6, imbricate, slightly connate at base; petals 4–6, rarely absent, shorter than sepals; disk annular, entire or rarely divided at apex; stamens (3–)5(or 6); filaments distinct or connate at base; anthers introrse, longitudinally dehiscent; pistillode apex 3-fid. Female flowers: pedicels longer than male ones; sepals and petals as in male; disk annular surrounding base of ovary; ovary 3-locular; ovules 2 per locule; style short, free or connate at base, apex bifid or entire. Fruit a capsule, dehiscent into 3 2-valved cocci when mature; exocarp distinct from endocarp; columella persistent. Seeds without caruncle and endosperm; cotyledons thickened and fleshy; radical minute.

About 35 species: Oceania to the tropics and subtropics of Asia; three species (one endemic) in China.

- 1a. Trees to 15 m tall; lateral leaf veins 16–21 pairs; petiole 2–6 mm; seeds subglobose 1. *A. subsessilis*
1b. Shrubs to 4 m tall; lateral leaf veins 9–12 pairs; petiole 6–40 mm; seeds 3-angled.
2a. Leaf blade apex long acuminate, abaxially puberulent; female sepals ca. 2 mm; female petals ca. 1.5 mm 2. *A. excelsa*
2b. Leaf blade apex obtuse or shortly acuminate, abaxially glabrous; female sepals 5–6 mm; female petals
0.8–1.2 mm 3. *A. merrilliana*

1. *Actephila subsessilis* Gagnepain, Bull. Soc. Bot. France 71: 569. 1924.

短柄喜光花 duan bing xi guang hua

Trees, to 15 m tall, glabrous except for sepals; branches terete, gray-brown, lenticellate. Stipules ovate-triangular, 1.5–4 mm, brown; petiole 2–6 mm; leaf blade oblong-elliptic, oblong, or obovate-lanceolate, 6–12 × 2–4.6 cm, papery, base broadly cuneate, apex acuminate; midrib elevated abaxially, lateral veins 16–21 pairs, nearly parallel, anastomosing near margin. Inflorescences with several male and/or 1 female flowers. Male flowers: pedicel shorter than in female; sepals 5, oblong-elliptic, 3–3.5 × 1–1.5 mm, green; petals spatulate, ca. 2 mm; disk glands 5, distinct, oblong; stamens 5, free. Female flowers: pedicel filamentous, 3–3.5 cm, white; disk annular, thickened, entire; ovary globose, glabrous; styles 3, bifid, lobes recurved. Fruiting pedicel ca. 4 cm, apically dilated; capsule subglobose, ca. 1.5 × 1.3–2 cm in diam. Seeds subglobose, ca. 8 mm in diam., gray-yellow, with reticulate stripes. Fl. Jun–Aug, fr. Aug–Oct.

Forests; 500–800 m. S Yunnan [Vietnam].

2. *Actephila excelsa* (Dalzell) Müller Argoviensis, Linnaea 32: 78. 1863.

毛喜光花 mao xi guang hua

Anomospermum excelsum Dalzell, Hooker's J. Bot. Kew Gard. Misc. 3: 228. 1851; *Actephila dolichantha* Croizat.

Shrubs, 1–4 m tall; branches angular, pubescent, glabrescent, lenticellate with age. Leaves alternate, rarely subopposite; stipules nearly triangular, ca. 2 mm, puberulent; petiole 6–30 mm, sparsely pubescent; leaf blade oblong-lanceolate, 8–20 × 3–3.5 cm, abaxially paler, pubescent to glabrous, adaxially glabrous, base cuneate to obtuse, apex usually long acuminate;

midrib elevated on both surfaces, lateral veins 9–12 pairs, obliquely ascendant, anastomosing near margin. Inflorescences with several male and/or 1 female flowers. Male flowers: pedicel to 2 mm; sepals 5, oblong, ca. 2.5 × 1 mm; petals spatulate, ca. 2 × 1 mm, greenish; disk 5-lobed; stamens 5, ca. 2 mm. Female

Fl. China 11: 168–169. 2008.

flowers: pedicels 4–7 cm, lower part delicate, apically slightly thickened; sepals 5, elliptic or oblong, 2–3 mm, outside and margin puberulent, with minute adaxial basal hyaline appendages; petals 5, obovate or spatulate, ca. 1.5×1 mm; disk annular, thickened, entire; pistil 4–6 mm; ovary ovate, glabrous; styles 3, bifid. Fruiting pedicel 4–7.5 cm; persistent sepals to 4 mm; capsule oblate, ca. 1.5×2 – 2.5 cm in diam., exocarp brown, glabrous, endocarp yellowish white. Seeds 3-angled, ca. 10×0.9 cm. Fl. Feb–Sep, fr. Jul–Oct.

Sparsely forested slopes, thickets on limestone; 100–1500 m. Guangxi, Yunnan [India, Indonesia, Malaysia, Myanmar, Philippines, Thailand, Vietnam].

3. *Actephila merrilliana* Chun, Sunyatsenia 3: 26. 1935.

喜光花 xi guang hua

Actephila inopinata Croizat.

Shrubs, 1–2 m tall; branchlets sparsely pubescent, glabrescent, lenticellate. Stipules triangular-lanceolate, 1–2 mm, brown, abaxially puberulent; petiole 10–40 mm, puberulent; leaf blade oblong-elliptic or obovate-lanceolate, 7 – 20×2 – 5.5 cm, thinly leathery, abaxially paler, glabrous, adaxially glossy, base cuneate or broadly so, apex obtuse; midrib elevated on both surfaces, lateral veins 6–10 pairs, delicate, obliquely ascendant, anastomosing near margin. Inflorescences with 1 to few male and/or 1 female flowers. Male flowers: pedicels 1–8 mm; sepals 5, broadly ovate, ca. 3×2 mm; petals 5, 5–9 mm in diam., spatulate or linear, smaller than sepals, entire; stamens 5, distinct; pistillode apex 2- or 3-lobed. Female flowers: pedicels 2–4 cm, delicate; sepals 5, obovate or oblong-obovate, 5 – 6×2 – 5 mm, yellow-green, membranous, with 4–5 longitudinal striations; petals 5, linear or lanceolate, 0.8–1.2 mm, ca. 1.5 cm in diam.; disk annular, thickened, entire; ovary ovate, smooth and glabrous; styles 3, bifid. Fruiting pedicel to 5 cm; sepals persistent; capsules oblate-spherical, ca. 2 cm in diam., exocarp brown, glabrous, crustaceous, endocarp yellow-white. Seeds 3-angled, ca. 10 mm. Fl. Apr–Oct, fr. Jul–Dec.

- Slopes, valleys, scrub; 300–800 m. Guangdong, Hainan.

Fl. China 11: 168–169. 2008.