

About 40 species in tropical and subtropical Asia. Four species in Taiwan.

KEY TO THE SPECIES

1. Petioles, petiolules, and sometimes pedicels and peduncles winged; leaflets thin-chartaceous, prominently and coarsely serrate..... 1. *T. alatum*
1. Petioles and petiolules not winged; leaflets chartaceous, subentire to obscurely dentate.
 2. Inflorescence umbellate. *T. b.* 2. *T. umbellatum*
 2. Inflorescence corymbose.
 3. Leaves ovate-lanceolate, smaller, the terminal leaflets 5-6.5 cm. long, 1.5-2.5 cm. broad; seeds smaller, 6-7 mm. across..... 3. *T. formosanum*
 3. Leaves broadly ovate, larger, the terminal leaflets 8-9 cm. long, 4.5-5.5 cm. broad; seeds larger, 8-10 mm. across..... 4. *T. dentatum*

1. *Tetrastigma alatum* sp. nov. (*Cf. Cissus pterulada* Hay.)

Scandens, ramulis gracillimis, glabris; foliis 3-foliolatis, foliolis membranaceis, inaequalibus, ovato-oblongis, 6.5-10.5 cm. longis, 3.5-5.5 cm. latis, acuminatis, basi oblique truncatis, margine grosse serratis, utrinque glabris; petiolis pedunculisque interdum alatis, cirri alte umbellatim ramosi; floribus duplo- vel tertiaro-umbellatis; calyx obscure lobatis; petalis ovato-oblongis; disco carnosu; ovaris 2-loculari, stylo breve, stigmate late 4-lobato; fructu ignoto.

A vine, the branchlets slender, glabrous. Leaves petiolate, 3-foliolate; leaflets membranaceous, petiolulate, unequal, ovate-oblong, 7.5-10.5 cm. long, 3.5-5.5 cm. broad, the lateral ones 6.5-8.5 cm. long, 3.5-4.5 cm. broad, the apex acuminate, the base very obliquely truncate, the margins coarsely and irregularly serrate, glabrous on both surfaces, concolored, the midrib elevated and conspicuous on both surfaces, the lateral veins slender, about 7-8 on each side, subconspicuous on both surfaces; petiolules 4-12 mm. long, sometimes winged; petioles 2.5-4.5 cm. long, glabrous, sometimes membranaceous-winged; stipules broad, persistent; tendrils leaf-opposed, umbellately 5-6-branched at tip, the branches filiform. Flowers 4-merous, unisexual, double- or triple-umbellate; primary peduncles 3-7 mm. long, secondary and tertiary ones 3-8 mm. long, dark puberulous, sometimes membranaceous-winged; pedicels 2-3 mm. long, puberulous, slender; calyx inconspicuously lobed; petals ovate-oblong, about 1.5 mm. long, persistent, at length reflexed; disc carnose; ovary 2-celled, the style short, the stigma broadly 4-lobed; male flowers and fruits unknown.

Type, Shi-lin, Taipeh, Tanaka & Shimada 13569, May 3, 1933 (B, holotype, U).

A distinct species with membranaceous, deeply serrate leaflets and often winged petioles, petiolules, and peduncles. Flowers are in compound umbels.

2. *Tetrastigma umbellatum* (Hemsl.) Nakai in Bot. Mag. Tokyo 36: 68. 1928; Suzuki in Masamune, Short Fl. Form. 132. 1936.

Vitis umbellata Hemsl. in Jour. Linn. Soc. Bot. 23: 137. 1886 (Ind. Fl. Sin.).

Vitis umbellata Hemsl. var. *arisanensis* Hayata, Icon. Pl. Form. 3: 63. 1913.

Vitis arisanensis (Hayata) Hayata, Icon. Pl. Form. 5: 30. 1915.

Glabrous vine, the branchlets slender. Leaves petiolate, digitately 3-5-foliolate, the leaflets subsessile, chartaceous, unequal, elliptic to oblance-