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## 楼梯草属二新种

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**摘要:** 该文描述了荨麻科楼梯草属 2 新种, 其中发现自贵州的安龙楼梯草与条叶楼梯草近缘, 与后者的区别在于此新种的茎和叶无毛, 叶片椭圆形或狭倒卵形, 较宽, 雄苞片无角状突起, 雌头状花序无梗, 其花序托不等 3-4 裂, 柱头画笔头状; 自广西发现的厚序楼梯草与福贡楼梯草近缘, 与后者的区别在于此新种的叶片质地较薄, 呈膜质, 上面疏被糙伏毛, 叶柄较短, 长达 2 mm 或不存在, 雄花序梗圆柱形, 较长, 密被短柔毛, 雄总苞由一层不具角状突起的苞片组成。

**关键词:** 荨麻科, 楼梯草属, 新种, 中国

**中图分类号:** Q949 **文献标识码:** A **文章编号:** 1000-3142(2016)09-1019-04

## Two new species of *Elatostema* (Urticaceae) from China

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**Abstract:** Two species of the genus *Elatostema* (Urticaceae) are described as new, of which, *E. anlongense* was discovered from Guizhou Province, and is related to *E. sublineare* W. T. Wang, differing from the latter in its glabrous stems and leaves, broader long elliptic or narrowly obovate leaf blades, not corniculate staminate bracts, sessile pistillate capitula, 3-4-lobed pistillate receptacles, and penicillate stigma. The other new species, *E. pachycephalum* was discovered from Guangxi Zhuang Autonomous Region, and is related to *E. fugongense* W. T. Wang, differing from the latter in its thinner membranous adaxially strigose leaf blades, shorter petioles, longer terete and densely puberulous staminate peduncles, and the staminate involucres consisting of 1-seriate, not corniculate bracts.

**Key words:** Urticaceae, *Elatostema*, new species, China

安龙楼梯草 图 1: A-F

*Elatostema anlongense* W. T. Wang, sp. nov.

Fig. 1: A-F

[sect. *Weddellia* (H. Schröter) W. T. Wang ser.

*Sublinearia* W. T. Wang]

Species nova haec est fortasse affinis *E. sublineari* W. T. Wang, a quo caulibus et foliis glabris, foliorum laminis longe ellipticis vel anguste obovatis latioribus (2.8-3.4 cm latis), bracteis staminatis haud cornicula-

tis, bracteolis staminatis glabris, capitulis pistillatis sessilibus, eorum receptaculis inaequaliter 3-4-lobatis, bracteolis pistillatis glabris, stigmatibus penicillatis recedit. In *E. sublineari*, caules et folia pubescentia, foliorum laminae anguste oblanceolatae vel lineari-oblanceolatae 1.2-2.2 cm latae, bractee staminatae apice corniculatae, bracteolae staminatae dense ciliatae, capitula pistillata breviter pedunculata, eorum receptacula indivisa vel 2-lobata, bracteolae pistillatae longe cilia-

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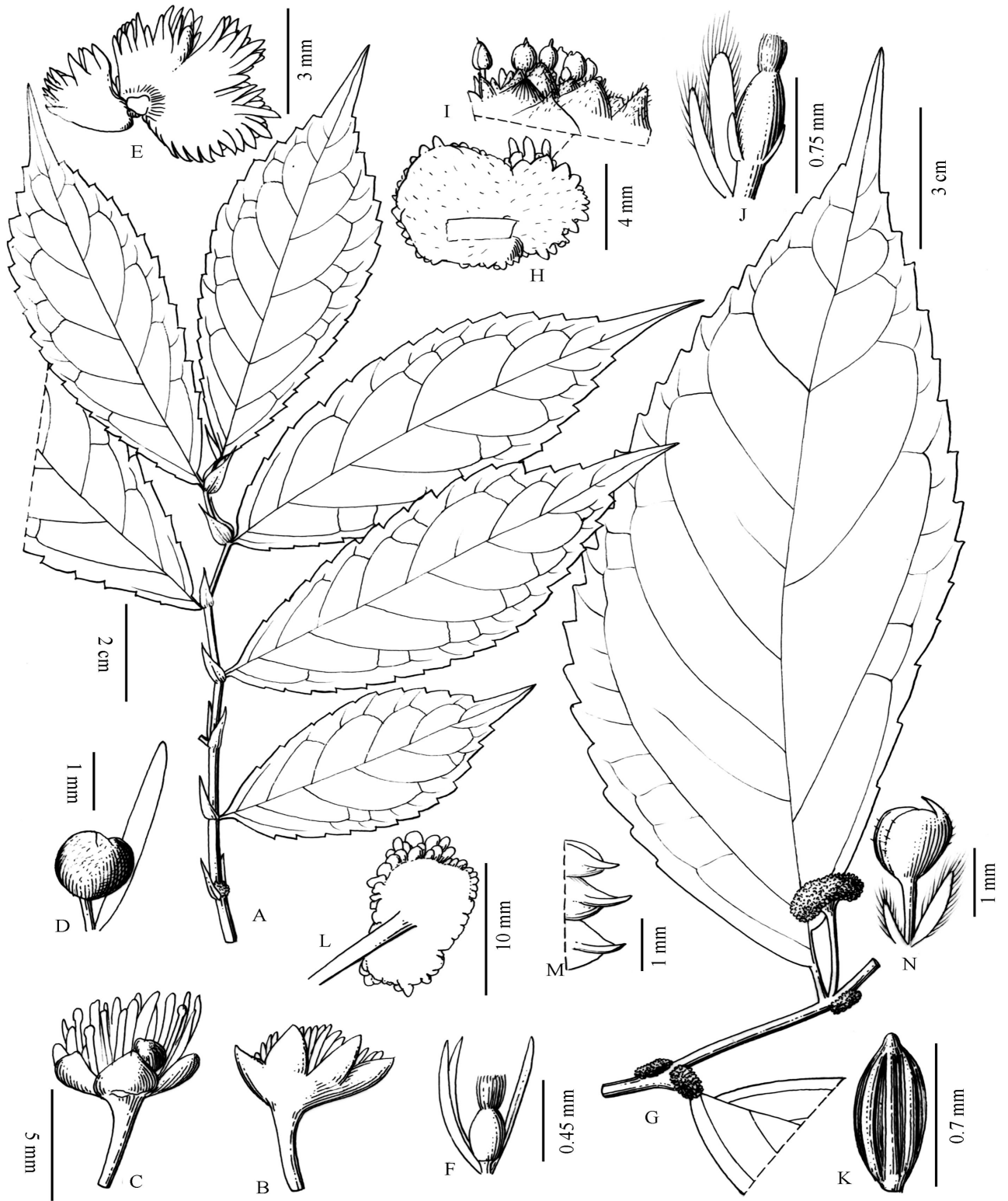


图 1 A-F. 安龙楼梯草 A. 开花茎上部; B. 雄头状花序(侧面观); C. 同 B 侧面观; D. 雄小苞片和雄花蕾; E. 雌头状花序(下面观); F. 雌小苞片和雌花。G-N. 厚序楼梯草 G. 2 叶和一腋生雄头状花序以及一对腋生雌头状花序; H. 雌头状花序(下面观); I. 外层雌苞片和 5 内层雌苞片; J. 雌小苞片和雌花; K. 瘦果; L. 雄头状花序(下面观); M. 3 雄苞片; N. 雄小苞片和雄花蕾。

Fig. 1 A-F. *Elatostema anlongense* A. Upper part of flowering stem; B. Staminate capitulum, seen from the lateral bottom; C. The same as B, seen from one side; D. Staminate bracteole and staminate flower bud; E. Pistillate capitulum, seen from beneath; F. Pistillate bracteoles and pistillate flower. (from holotype) G-N. *E. pachycephalum* G. Two leaves and an axillary staminate capitulum and a pair of axillary pistillate capitula; H. Pistillate capitulum, seen from beneath; I. One outer pistillate bract and five inner pistillate bracts; J. Pistillate bracteoles and pistillate flower; K. Achene; L. Staminate capitulum, seen from beneath; M. Three staminate bracts; N. Staminate bracteoles and staminate flower bud. (from holotype)

tae , et stigmata breviter teretia sunt.

Perennial herb , monoecious. Stem ca. 36 cm tall , near base 2 mm in diam. , glabrous , simple , ca. 7-leaved. Leaves alternate , sessile or shortly petiolate , glabrous; blades papery , obliquely long elliptic or narrowly obovate ,  $6-9.6 \times 2.8-3.4$  cm , apex acuminate , base obliquely cuneate , margin denticulate; nervation pinnate , with 5-6 pairs of inconspicuous secondary nerves; cystoliths not dense , bacilliform , 0.1-0.3 mm long; petioles 0-1 mm long; stipules white , membranous , narrowly triangular ,  $7-9 \times 3-4$  mm , 1-nerved. Staminate capitula singly axillary , pedunculate; peduncle white , ca. 3 mm long , glabrous; receptacle small , subquadrate , ca. 2 mm long , glabrous; bracts ca. 7 , white , membranous , broadly triangular or broadly ovate ,  $1-2 \times 1.2-2$  mm , subglabrous; bracteoles ca. 10 , white , membranous , semi-hyaline , linear ,  $2.5-3 \times 0.3-0.4$  mm , glabrous. Staminate flower: Pedicel white , 0.4-1.5 mm long , glabrous. Staminate flower bud subglobose , ca. 1.2 mm in diam. , tetramerous , glabrous , near apex brown-punctulate. Pistillate capitula singly axillary , sessile; receptacle subpentagonal , ca.  $4 \times 5$  mm , glabrous , unequally 3-4-lobed; bracts ca. 40 , membranous , linear or narrowly triangular ,  $0.8-1 \times 0.2-0.3$  mm , glabrous; bracteoles numerous , dense , near apex green , narrowly linear ,  $0.6-1 \times 0.1-0.2$  mm , glabrous. Pistillate flower: Pedicel ca. 0.1 mm long , glabrous. Tepals wanting. Pistil ca. 4.5 mm long; ovary ellipsoid , ca. 0.25 mm long , glabrous; stigma penicillate , with dense hairs ca. 0.2 mm long.

贵州( Guizhou): 安龙县( Anlong Xian) 石灰岩山( in lime-stone hill) , 2010-05 韦毅刚( Y. G. Wei) 6681 ( **Holotype** , PE)。

本种在亲缘关系上可能接近条叶楼梯草( *E. sub-lineare* W. T. Wang) 与后者的区别在于本种的茎和叶均无毛 叶片长椭圆形或狭倒卵形 较宽( 宽 2.8~3.4 cm) 雄苞片无角状突起 雄小苞片无毛 雌头状花序无梗 其花序托不等 3~4 裂 雌小苞片无毛 柱头画笔头状。在条叶楼梯草 茎和叶均被柔毛 叶片狭倒披针形或条状倒披针形 宽 1.2~2.2 cm 雄苞片顶端具角状突起 雄小苞片密被缘毛 雌头状花序具短梗 其花序托不分裂或 2 裂 雌小苞片被长缘毛 柱头短圆柱状( 王文采 2014)。

厚序楼梯草 图 1: G-N

***Elatostema pachycephalum*** W. T. Wang , sp. nov.  
( sect. *Elatostema* ser. *Albopilosa* W. T. Wang)

Ob folia penninervia , capitula staminata longius pedunculata et receptaculis discoideis praedita et achenia longitudinaliter 6-costata species nova haec ad sect. *Elatostema* ser. *Albopilosa* W. T. Wang pertinet , et in serie hac est affinis *E. fugongensi* W. T. Wang , a quo foliorum laminis tenuioribus membranaceis supra sparse strigosis , petiolis brevioribus vel nullis usque ad 2 mm longis , pedunculis staminatis teretibus 14-26 mm longis dense puberulis , involucris staminatis ex bracteis 1-seriatis apice haud corniculatis constantibus facile differt. In *E. fugongensi* , foliorum laminae papyraceae supra glabrae , petioli 3-4.5 mm longi , pedunculi staminati complanati breviores 12 mm longi glabri , et involucra staminata ex bracteis 2-seriatis apice breviter crasseque corniculatis constantia sunt.

Perennial herbs. Stems ca. 30 cm tall , near base ca. 3.5 mm in diam. , glabrous , simple , ca. 8-leaved , longitudinally shallowly 4-sulcate. Leaves alternate , shortly petiolate or sessile; blades membranous , long elliptic or oblanceolate ,  $15-22 \times 4-8$  cm , apex long acuminate , base obliquely cuneate , margin obtusely denticulate; surfaces adaxially sparsely strigose , abaxially glabrous; nervation pinnate , with secondary nerves ca. 5 at leaf narrow side and 7 at broad side , and with midrib abaxially prominent; cystoliths along nerves dense , bacilliform , 0.1-0.25 mm long; petioles 0-2 mm long , glabrous; stipules not seen. Staminate capitula singly arising from axils of apical leaves; peduncle white , terete , 14-26 mm long , ca. 3 mm in diam. , densely puberulous ( hairs ca. 0.1 mm long); receptacle subquadrate , ca.  $10 \times 10$  mm , sparsely puberulous; bracts ca. 20 , white , membranous , broadly ovate , ca. 1 mm long , abaxially 1-green-ribbed; bracteoles dense , membranous , linear or triangular ,  $0.3-0.6 \times 0.1-0.3$  mm , densely ciliate. Staminate flower buds numerous , subglobose , ca. 1 mm in diam. , pilose , tetramerous , with glabrous pedicels 0.5-1.5 mm long. Pistillate capitula in pairs axillary; peduncle complanate , rectangular , ca.  $1.5 \times 2.5$  mm , glabrous; receptacle thick , obliquely elliptic , ca.  $5.5 \times 4.5$  mm ,

puberulous; bracts ca. 21, 2-seriate, white, membranous, outer bract 1, broadly triangular, ca. 0.5 × 1 mm, puberulous, inner bracts ca. 20, broadly triangular, deltoid or triangular, 0.4–1 × 0.5–1 mm, puberulous, ciliolate; bracteoles numerous, dense, membranous, linear, 0.3–0.6 × 0.1–0.3 mm, densely ciliate. Pistillate flower: Pedicel robust, 0.1–0.25 mm long, glabrous. Tepals 2, linear, ca. 0.25 mm long, glabrous. Pistil ca. 0.8 mm long; ovary ovoid or narrowly ovoid, 0.3–0.5 mm long, glabrous; stigma penicillate, ca. 1.5 mm long. Achenes whitish, narrowly ellipsoid, ca. 0.7 mm long, longitudinally 6-ribbed, with ribs conspicuously prominent.

广西(Guangxi): 那坡县,百合乡,北坎(Napo Xian, Baihe Xiang, Beikan), alt. 600 m,山谷湿处(in wet places in valley),草本直立,花白色(herbs erect, fls. white), 2000-10-09,邓云飞等(Y. F. Deng et al.) 15544 (holotype, PE)。

本种的叶具羽状脉,雄头状花序具较长梗和盘状花序托,瘦果具6条纵肋,根据这些特征应隶属骤尖楼梯草组疏毛楼梯草系(sect. *Elatostema* ser. *Albopilosa*)。在此系中与福贡楼梯草(*Elatostema fugongense* W. T. Wang)相近缘,与后者的区别在于本种的叶片质地较薄,呈膜质,上面疏被糙伏毛,叶柄较短或不存在,存在时长达2 mm,雄花序梗圆柱形,长14~26 mm,密被短柔毛,雄总苞由一层不具角状突起的苞片组成。在福贡楼梯草,叶片纸质,上面无毛,叶柄长3~4.5 mm,雄花序梗扁平,较短,长12 mm,无毛,雄总苞由2层苞片组成,苞片顶端具短而粗的角状突起(王文采,2014)。

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