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云南东南部楼梯草属二新种

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摘要: 描述了从云南东南部发现的荨麻科楼梯草属二新种, 其中黄连山楼梯草隶属于骤尖楼梯草组骤尖楼梯草系, 腺点楼梯草隶属于骤尖楼梯草组盘托楼梯草系。

关键词: 荨麻科, 楼梯草属, 新种, 云南, 中国

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Two new species of *Elatostema* (Urticaceae) from southeastern Yunnan

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Abstract: Two species of the genus *Elatostema* (Urticaceae), *E. huanglianshanicum* belonging to sect. *Elatostema* ser. *Cuspidata* and *E. adenophorum* belonging to sect. *Elatostema* ser. *Dissecta*, are described as new from southeastern Yunnan.

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

近年来, 同事兰科专家金效华博士对云南植物区系进行了广泛、深入的考察, 采集到大量植物标本。2010年初, 我从他于2008年在贡山采集的标本中发现了新种厚苞楼梯草 (*Elatostema apicicrassum* W. T. Wang) (王文采, 2010)。最近, 从他于2009年在云南东南部采集的标本中发现了楼梯草属又二新种。现在本文中发表。

楼梯草属 *Elatostema* Forst.

黄连山楼梯草 图 1: H-J

Elatostema huanglianshanicum W. T. Wang,
sp. nov. (sect. *Elatostema* ser. *Cuspidata* W. T. Wang) Fig. 1: H-J.

Species nova haec est affinis *E. balansae* Gagnep., quod caulibus glabris vel apice sparse puberulis, foliis subtus glabris vel sparse puberulis plerumque semitripplinerviis, bracteis involucralibus pistillatis depresso ovatis inconspicuis omnibus apice corniculatis differt.

Herba perennis. Caules 30–50 cm alti, supra medium dense antrorseque strigosi, inferne longitudinaliter vadosaque 4-sulcati, cystolithis minutis densis notati, simplices, 7–11-foliati. Folia breviter petiolata vel sessilia, laminae papyraceae, oblique ellipticae vel oblique angustaeque obovatae, (1.4–) 4.6–10.8 cm longae, (0.6) 2.6–4 cm latae, apice acuminatae, acuminibus

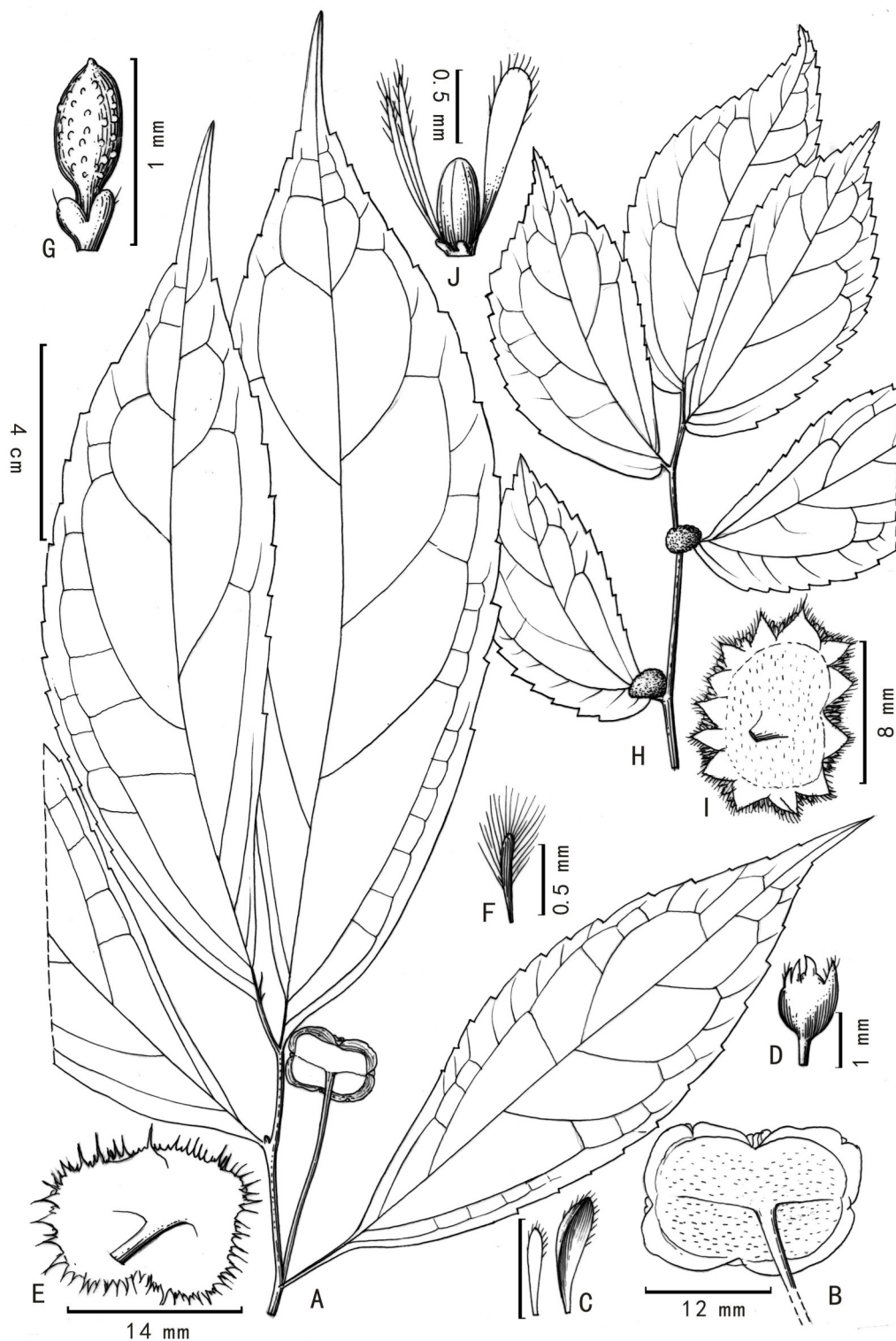


图 1 A-G. 腺点楼梯草 A. 雄茎上部; B. 雄头状花序下面观; C. 雄小苞片; D. 雄花蕾; E. 雌头状花序; F. 雌小苞片; G. 瘦果和退化雄蕊。H-J. 黄连山楼梯草 H. 雌株上部; I. 雌头状花序, 下面观; J. 雌小苞片和瘦果。(孙英宝 绘图)

Fig. 1 A-G. *Elatoatema adenophorum* A. Upper part of flowering staminate stem; B. Staminate capitulum, seen from beneath; C. Staminate bracteoles; D. Staminate flower bud (from holotype); E. Pistillate capitulum, seen from beneath; F. Pistillate bracteole; G. Achene and staminodes (from Jin Xiao-Hua et al. 705). H-J. *Elatostema huanglianshanicum* H. Upper part of flowering pistillate stem; I. Pistillate capitulum, seen from beneath; J. Pistillate bracteoles and achene (from holotype). (Drawn by SUN Ying-Bao)

margine utrinque minute 2–4-denticulatis, basi oblique cuneatae vel latere latiore subauriculatae, margine denticulatae, supra sparsissime strigosae vel glabrae, subtus ad nervos basales et laterales dense strigosae, trinerves, nervis lateralibus 3–4-jugis supra planis subtus prominulis, cystolithis densis conspicuis bacilliformibus 0.2–0.5 mm longis; petioli usque ad 2 mm longi; stipulae anguste lanceolatae vel lineares, 5–6 mm longae, glabrae, virides. Capitula staminata ignota. Capitula pistillata singulariter axillaria; pedunculus ca. 1 mm longus, puberulus; receptaculum rectangulare, ca. 8 mm longum, 5.5 mm latum, medio constrictum, depresso puberulum; bracteae involucrales ca. 12, deltoideae vel triangulares, ca. 1 mm longae, 0.8–1.8 mm latae, ciliatae, plerumque haud corniculatae, 1–2 majores apice corniculatae, cornibus 0.6 mm longis; bracteolae numerosae, dense, membranaceae, semihyalinae, oblancoelatae vel anguste lineares, 1–1.5 mm longae, superne ciliatae. Achenia brunneola, ovoidea, ca. 0.5 mm longa, longitudinaliter 6-costata; staminodia 3, obtrapezoideo-quadrata, ca. 0.1 mm longa, glabra.

多年生草本。茎高 30~50 cm, 中部以上密被向前展的糙伏毛, 下部具 4 条浅纵沟和密集小钟乳体, 不分枝, 具 7~11 叶。叶具短柄或无柄; 叶片纸质, 斜椭圆形或斜狭倒卵形, 长 (1.4~) 4.6~10.8 cm, 宽 (0.6~) 2.6~4 cm, 顶端渐尖 (尖头每侧有 2~4 小齿), 基部斜楔形或在宽侧近耳形, 边缘有小牙齿, 上面被极疏糙伏毛或无毛, 下面基出脉和侧脉上密被糙伏毛, 具三出脉, 侧脉 3~4 对, 上面平, 下面微隆起, 钟乳体密, 明显, 杆状, 长 0.2~0.5 mm; 叶柄长达 2 mm; 托叶狭倒披针形或条形, 长 5~6 mm, 无毛, 绿色。雌头状花序单独腋生; 花序梗长约 1 mm, 有短柔毛; 花序托长方形, 长约 8 mm, 宽 5.5 mm, 在中部缢缩, 被贴伏短柔毛; 总苞片约 12, 正三角形或三角形, 长约 1 mm, 宽 0.8~1.8 mm, 被缘毛, 多无角状突起, 1~2 枚较大者顶端有角状突起 (突起长 0.6 mm); 小苞片多数, 密, 膜质, 半透明, 倒披针形或狭条形, 长 1~1.5 mm, 上部被缘毛。瘦果淡褐色, 卵球形, 长约 0.5 mm, 有 6 条纵肋; 退化雄蕊 3, 倒梯状方形, 长约 0.1 mm, 无毛。

云南 (Yunnan): 绿春 (Luchun), 黄连山 (Huanglian Shan), 骑马坝 (Qimaba), 马玉桥 (Mayu-qiao), alt. 1 500 m, 2009-06-25, 金效华, 刘冰, 刘博, 权

旭, 苏俊霞, 钟轶 (Jin Xiao-hua, Liu Bing, Liu Bo, Quan Xu, Su Jun-xia, Zhong Yi) 168 (**holotype**, PE), 169 (PE)。

本种在亲缘关系方面接近华南楼梯草 (*E. balansae* Gagnep.), 但本种的茎中部以上和叶下面基出脉和侧脉都密被糙伏毛, 叶具三出脉, 雌头状花序总苞片明显, 呈正三角形或三角形, 多数无突起, 只 1~2 枚较大者在顶端具角状突起而不同。在华南楼梯草, 茎无毛或顶端疏被短柔毛, 叶下面无毛或疏被短柔毛, 多具半离基三出脉, 雌头状花序总苞片不明显, 呈扁卵形, 所有总苞片在顶端均具角状突起 (王文采, 1995)。

腺点楼梯草 图 1: A-G

Elatostema adenophorum W. T. Wang, sp. nov. (sect. *Elatostema* ser. *Dissecta* W. T. Wang)

Fig. 1: A-G

Ob folia semitriplinervia, capitula staminata longe pedunculata receptaculis discoideis praedita et achenia tuberculata species nova haec ad sect. *Elatostema* ser. *Dissecta* W. T. Wang pertinet, et est affinis hujus seriei monotypicae *E. dissecto* Wedd., quod foliorum cystolithis majoribus 0.3–0.7 mm longis, petiolis brevioribus usque ad 0.5 mm longis, capitulorum staminatorum receptaculis minoribus usque ad 10 mm longis haud glandulosis, bracteis involucra, libus staminatis numerosis triangularibus, bracteolis staminatis glabris, bracteis involucra, libus pistillatis haud corniculatis, bracteolis pistillatis semihyalinis albidis sparse breviterque ciliatis abhorret; ob habitum, folia semitriplinervia, capitulorum staminatorum receptacula rectangulata, capitulorum pistillatorum bracteis involucrales numerosas apice longe corniculatas et achenia tuberculata ea est etiam similis *E. atroviridi* W. T. Wang (sect. *Elatostema* ser. *Atroviridia* W. T. Wang (Wang, 2011), quod caulibus prope apicem sparse puberulis, foliis supra sparse strigosis subtus ad nervos puberulis, capitulis staminatis involucris carentibus, eorum pedunculis brevioribus usque ad 1.5 cm longis, eorum receptaculis haud glandulosis, bracteolis pistillatis semihyalinis albidis breviter ciliatis praeclare distinguitur.

Herba perennis, dioecia. Caules 35–100 cm alti (e collectoribus), supra basin ca. 3 mm crassi, glabri, longitudinaliter tenuiterque 6-sulcati, ramosae. Folia

breviter petiolata, glabra; laminae herbaceae, oblongae vel oblanceolato-oblongae, (1-4.5-)9-21 cm longae, (0.5-2-)3-6 cm latae, apice longe acuminatae, acuminibus integris, basi oblique cuneatae vel latere latiore late cuneatae vel subrotundatae, margine supra basin denticulatae vel crenatae, semitriplinerves, nervis lateralibus 3-4-jugis supra planis subtus leviter prominulis, cystolithis densis leviter conspicuis bacilliformibus 0.1-0.25 mm longis; petioli 1-6 mm longi; stipulae tenuiter subulatae vel anguste lineares, 2-15 mm longae, virides. Capitula staminata singulariter axillaria, longe pedunculata; pedunculus 4-10 cm longus, glaber; receptaculum rectangulare, 15-27 mm longum, 10-17 mm latum medio constrictum, glabrum, dense glanduloso-punctulatum; bracteae involucrales ca. 8, depresse ovatae vel transverse lineares, 1.8-2 mm longae, 5.5-10 mm latae, apice truncato-rotundatae vel truncatae, glabrae; bracteolae numerosae, densissimae, membranaceae, semihyalinae, albidae, anguste obovatae vel spatulatae, 2-3 mm longae, superne ciliatae. Alabastra staminata breviter pedicellata, subglobosa, ca. 1 mm in diam., apice breviter 4-corniculata et pauce pilosa. Capicula pistillata singulariter axillaria; pedunculus ca. 5 mm longus, glaber; receptaculum irregulariter rectangulare, 6-12 mm longum, 5-9 mm latum, glabrum; bracteae involucrales ca. 60, triangulares vel deltoideae, 0.3-1 mm longae, 0.2-2 mm latae, margine ciliatae, apice longe corniculatae, cornibus 0.5-1.5 mm longis; bracteolae numerosae, densissimae, virides, lineari-oblanceolatae, 0.3-0.6 mm longae, dense longeque ciliatae, ciliis 0.3-0.5 mm longis. Achenia brunneola, suboblonga, ca. 0.8 mm longa, dense tuberculata, basi angustata; staminodia 3, late obovoidea, ca. 0.2 mm longa, dorso pilis unicis vel binatis tecta.

多年生草本,雌雄异株。茎高 35~100 cm,基部之上粗约 3 mm,无毛,有 6 条细纵沟,分枝。叶有短柄,无毛;叶片草质,长圆形或倒披针状长圆形,长 (1~4.5~)9~21 cm,宽 (0.5~2~)3~6 cm,顶端长渐尖(尖头全缘),基部斜楔形或在宽侧宽楔形或圆形,边缘在基部之上具小牙齿或浅钝齿,具半离基三出脉,侧脉 3~4 对,上面平,下面微隆起,钟乳体密,稍明显,杆状,长 0.1~0.25 mm;叶柄长 1~6 mm;托

叶细钻形或狭条形,长 2~15 mm,绿色。雄头状花序单生叶腋,具长梗;花序梗长 4~10 cm,无毛;花序托长方形,长 15~27 mm,宽 10~17 mm,中部缢缩,无毛,有密集小腺点;总苞片约 8,扁卵形或横条形,长 1.8~2 mm,宽 5.5~10 mm,顶端截状圆形或截形,无毛;小苞片多数,密集,膜质,半透明,白色,狭倒卵形或匙形,长 2~3 mm,上部被缘毛。雄花蕾具短梗,近球形,直径约 1 mm,顶端有 4 短角状突起,并被少数毛。雌头状花序单生叶腋;花序梗长约 5 mm,无毛;花序托不规则长方形,长 6~12 mm,宽 3~9 mm,无毛;总苞片约 60,三角形或正三角形,长 0.3~1 mm,宽 0.2~2 mm,被缘毛,顶端具角状突起(突起长 0.5~1.5 mm);小苞片多数,密集,绿色,条状披针形,长 0.3~0.6 mm,密被长缘毛(毛长 0.3~0.5 mm)。瘦果淡褐色,近长圆形,长约 0.8 mm,有密瘤状突起,基部变狭;退化雄蕊 3,宽倒卵球形,长约 0.2 mm,背面有 1~2 根毛。

云南(**Yunnan**):马关(Maguan),古林箐(Gulin-qing), alt. 576 m,植株高 35~100 cm, 2009-07-04,金效华,刘冰,刘博,权旭,苏俊霞,钟轶(Jin Xiao-hua, Liu Bing, Liu Bo, Quan Xu, Su Jun-xia, Zhong Yi) 704 (♂, **holotype**, PE), 703 (♂, PE), 705 (♀, PE)。

根据本种的叶具半离基三出脉,雄头状花序具长花序梗和盘状花序托,瘦果具瘤状突起等特征,本种应隶属于骤尖楼梯草组的单种系盘托楼梯草系(sect. *Elatostema* ser. *Dissecta* W. T. Wang)(王文采, 2011),与此系的盘托楼梯草(*E. dissectum* Wedd.)的区别在于:叶的钟乳体较小,长 0.1~0.25 mm,叶柄较长,长 1~6 mm,雄头状花序的花序托较大,长 15~27 mm,有密集的腺点[在我国楼梯草属 234 种(王文采, 2012)中,只有本种的雄花序托具腺体],其雄总苞片约 8 枚,呈扁卵形或横条形,雄小苞片被缘毛,雌总苞片顶端具长角状突起,雌小苞片绿色,不半透明,密被长缘毛,而可区别。在盘托楼梯草,叶的钟乳体较大,长 0.3~0.7 mm,叶柄较短,长达 0.5 mm,雄头状花序的花序托较小,长达 10 mm,不具腺体,其雄总苞片多数,呈三角形,雄小苞片无毛,雌总苞片不具角状突起,雌小苞片半透明,白色,疏被短缘毛(王文采, 1995)。

此外,本种在体态,叶的脉序,雄头状花序形状,雌头状花序的总苞片多数,顶端具长角状突起,瘦果具瘤状突起等方面,与骤尖楼梯草组深绿楼梯草(下转第 99 页 Continue on page 99)