

***Pholcus wuyiensis* Zhu & Gong, 1991**

Zhu, M.S., Gong, L-S. 1991. Four new species of the genus *Pholcus* from China. *Acta Zootaxonomica Sinica* 16(1): 18-26.

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武夷幽灵蛛,新种 *Pholcus wuyiensis* sp. nov. (图 5)

正模♂,配模♀,副模 6♂♂ 5♀♀,福建崇安武夷山,1986 年 7 月 19 日,朱明生、龚联邈采。

雄蛛体长 5.05—5.09。头部隆起。头胸部黄色,头部中央有 1 棒状褐色斑,胸部中线两侧各有 1 块近圆形褐色斑。额长而向前倾斜,中央有 1 对褐色斑。从背面观察,两眼列均后凹。前中眼间距等于前中侧眼间距(0.05:0.05);中眼区域后边大于前边(0.19:0.05),宽大于长 (0.19:0.07)。各眼直径之比为: 前中眼<后中眼=前侧眼=后侧眼 (0.10:0.17:0.17:0.17)。螯肢前、后齿堤各有 1 齿,螯肢前面中央位置靠上有 1 突起。胸板黑色。步足黄色,有棕色环纹。腹部长卵形,灰白色,有不十分清晰的浅褐色斑点。触肢器内侧面,跗前突中央位置有 1 小毛刷状突出物;其钩状突近方形。

正模测量 体长5.09。头胸部 1.25 × 1.34,腹部3.84 × 1.28。足式为 I > II > IV > III; 各足长度为:

	腿 节 femur	膝、胫节 patella, tibia	后跗节 metatarsus	跗 节 tarsus	全 长 total length
I	10.56	10.88	18.24	2.56	42.24
II	7.94	7.91	11.84	1.60	29.29
III	6.18	6.08	7.94	1.28	21.48
IV	8.32	7.46	6.91	1.63	24.32

雌蛛体长 5.11—5.32。外雌器如图。其他特征似雄蛛。

配模测量 体长 5.32。头胸部 1.31×1.47 ，腹部 4.22×1.28 。足式为 $I > II > IV > III$ ；各足长度为：

	腿 节 femur	膝、胫节 patella, tibia	后附节 metatarsus	跗 节 tarsus	全 长 total length
I	9.31	10.18	16.80	2.40	38.69
II	7.16	7.36	11.06	1.60	27.18
III	5.47	5.34	7.04	1.18	19.03
IV	7.84	7.10	10.59	1.60	27.13

本新种触肢器的钩状突非常近于 *Pholcus henanensis* Zhu et Mao (1983: 135)、*P. sinicus* Zhu et Wang (1963: 464—465, figs. 11—17)、*P. yichengicus* Zhu et Tu (1986: 121—122, fig. 4) 和 *P. crossus* Paik (1978: 119—120, figs. 21—29)，但根据头胸部背斑、跗前突的刷状突及触肢转节的形状可明显区别于后四种。

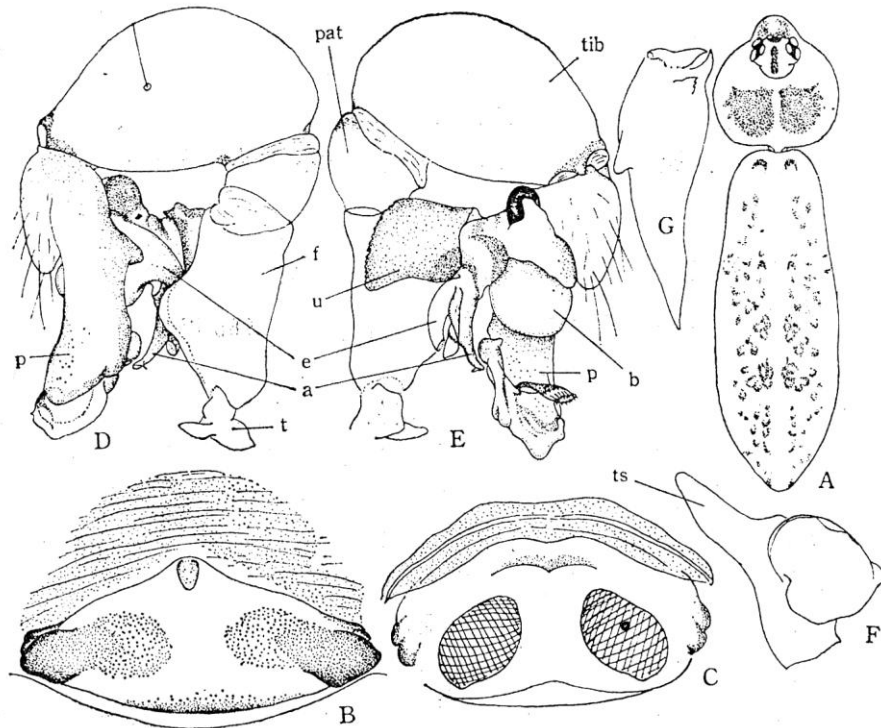


图5 武夷幽灵蛛,新种 *Pholcus wuyiensis* sp. nov.

A. 头胸部背面 (cephalothorax, dorsal view) B. 外雌器外面 (epigynum, external view) C. 同上,内面 (do., vulva) D. 雄蛛左触肢外侧面 (σ^7 left palpal organ, exo-lateral view) E. 同上,内侧面 (do., endo-lateral view) F. 雄蛛触肢器转节 (σ^7 trochanter of palp) G. 雄蛛螯肢 (σ^7 chelicera): a=appendage 附器 b=bulb 生殖球 e=embolus 插入器 f=femur 腿节 p=protarsus 跗前突 pat=patella 膝节 t=trochanter 转节 tib=tibia 胫节 ts=spur of trochanter 转节距 u=uncus 钩状突

5. *Pholcus wuyiensis* sp. nov. (fig. 5)

Holotype ♂, allotype ♀, paratypes 6 ♂♂ 5 ♀♀, Mt. Wuyi, Fujian Province (27°45'N, 117°40'E), July 19, 1986.

Male (Holotype) total length 5.09 mm, cephalothorax 1.25×1.34 mm, abdomen 3.84×1.28 mm. Female (Allotype) total length 5.32 mm, cephalothorax 1.31×1.47 mm, abdomen 4.22×1.28 mm.

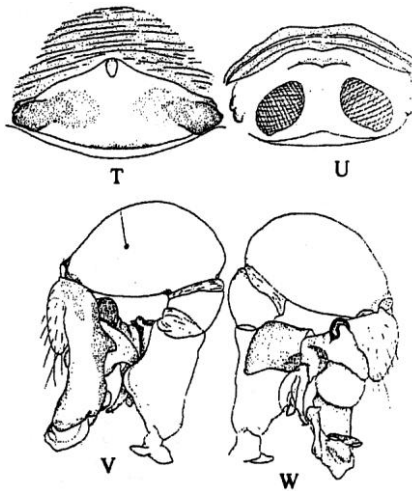
This new species is similar to *P. sinicus*, *P. yichengensis*, *P. henanensis* and *P. crossus* in the shape of the uncus, but is easily distinguishable from the four species above by the brush-like projection of the protarsus.

Song, D., Zhu, M., Chen, J. 1999. The Spiders of China. Hebei Science and Technology Publishing House. 640 pp., 4 plates.

***Pholcus wuyiensis* Zhu et Gong, 1991 (fig. 25T—W)**

Pholcus wuyiensis Zhu & Gong, 1991: 23, f. 5.

Distribution: Fujian.



Zhang, F., Zhu, M.S. 2009. A review of the genus *Pholcus* (Araneae: Pholcidae) from China. *Zootaxa* 2037: 1-114.

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***Pholcus wuyiensis* Zhu & Gong, 1991**

(Fig. 55)

Pholcus wuyiensis Zhu & Gong 1991: 23, f. 5A–G. Song, Zhu & Chen, 1999: 63, f. 25T–W.

Diagnosis. This species resembles *P. clavatus* in the shape of the palpal bulb, but can be distinguished from it by the procurus with a brush-shaped apophysis prolaterally (Fig. 55F), by the chelicerae without a pair of round apophyses proximocentrally (Fig. 55E), and by the relatively large pore plates of the epigynum (Fig. 55C).

Redescription. Male (holotype), total length 5.1: cephalothorax 1.3 long, 1.3 wide; abdomen 3.8 long, 1.3 wide. Leg I: 42.3 (10.6+0.9+10.0+18.2+2.6), tibia II: 7.2, tibia III: 5.5, tibia IV: 6.8; tibia I L/D: 62. Carapace short, broad and almost circular, ochre, with brown marks broadly connecting to ocular area. Cephalic region raised, with brown longitudinal stripes centrally, ocular area dark yellow. Clypeus 0.54, slightly ochre, with a pair of brown marks centrally. Distance AME–AME 0.05. Chelicerae as in Fig. 55E, with pair of black serrated apophyses distally and pair of unsclerotized thumb-shaped apophyses proximolaterally. Labium and endites yellowish brown. Sternum blackish brown, without pattern on it. Femora, patellae and tibiae ochre, with dark rings, metatarsi and tarsi dark brown. Abdomen cylindrical, fawn, dorsum with numerous small blackish brown spots. Venter pale brown, without markings. Palps as in Figs. 55F–G, bulb with a tile-shaped unculus, appendix split into two parts, procurus with a brush-shaped apophysis prolaterally.

Variation. Tibia I in five male paratypes: 9.5–10.1 (mean 9.9). Body length in five male paratypes: 4.6–5.1.

Female: in general very similar to male. Total length of bodies 4.7–5.5. A specimen measured ('allotype'), total length 5.5: cephalothorax 1.3 long, 1.5 wide; abdomen 4.2 long, 1.3 wide. Tibia I: 9.3. Prosoma shape as in Fig. 55A. Distance AME–AME 0.06. Abdomen cylindrical, fawn, dorsum with numerous small blackish brown spots as in Fig. 55A. Epigynum roughly triangular as in Fig. 55B, with a small knob-shaped apophysis on the top. Dorsal view as in Fig. 55C, with a rainbow-shaped sclerotized arch anteriorly and a pair of oval pore plates posteriorly.

Distribution. Known from type locality only.

Material examined. CHINA: **Fujian**, Chong'an County, Mt. Wuyi, July 19, 1986, leg. M. S. Zhu and L. S. Gong, male holotype, female 'allotype', 6♂, 5♀ paratypes (MHBU); Mt. Wuyi, May 18, 2004, leg. F. Zhang, 1♂, 4♀ (MHBU).

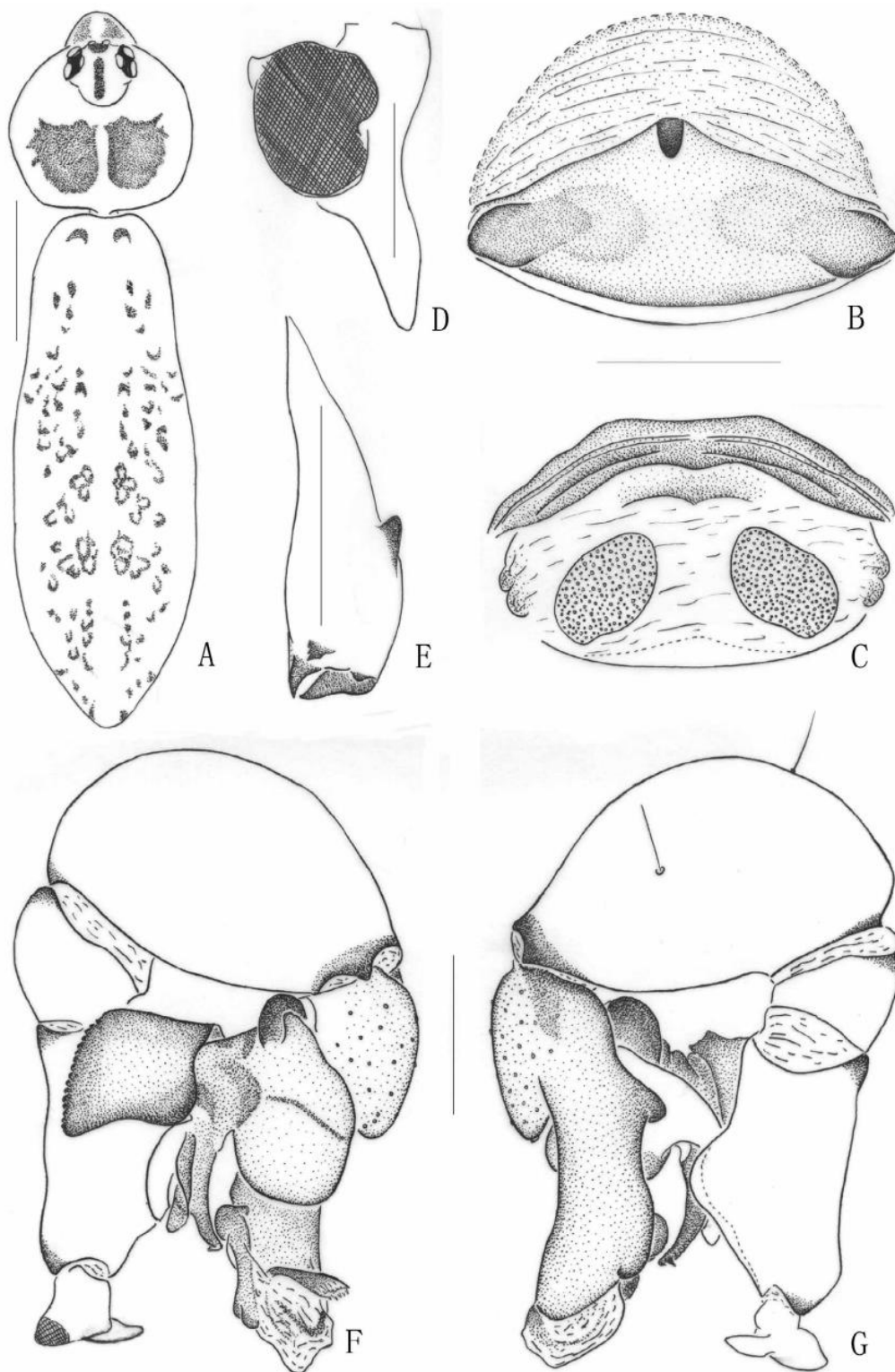


FIGURE 55. *Pholcus wuyiensis* Zhu & Gong, 1991 (illustrations modified from Zhu & Gong 1991). A. female body, dorsal view. B. epigynum, ventral view. C. same, dorsal view. D. trochanter of male left palp, retrolaterodorsal view. E. male left chelicera, frontal view. F. left palp, prolateral view. G. same, retrolateral view. Scale lines: 1.0mm (A), 0.5mm (B, C, E–G), 0.2mm (D).

Huber, B. A. 2011. Revision and cladistic analysis of *Pholcus* and closely related taxa (Araneae, Pholcidae). Bonner zool. Monographien 58: 1-510.

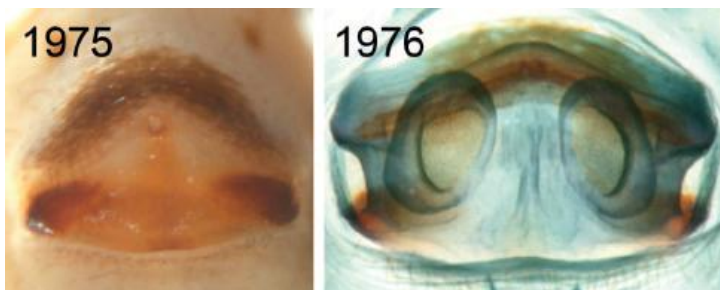
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1948, 1949.

Ph. wuyiensis, male, dorsal view; female abdomen, ventral view.

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1975, 1976. *Ph. wuyiensis*.

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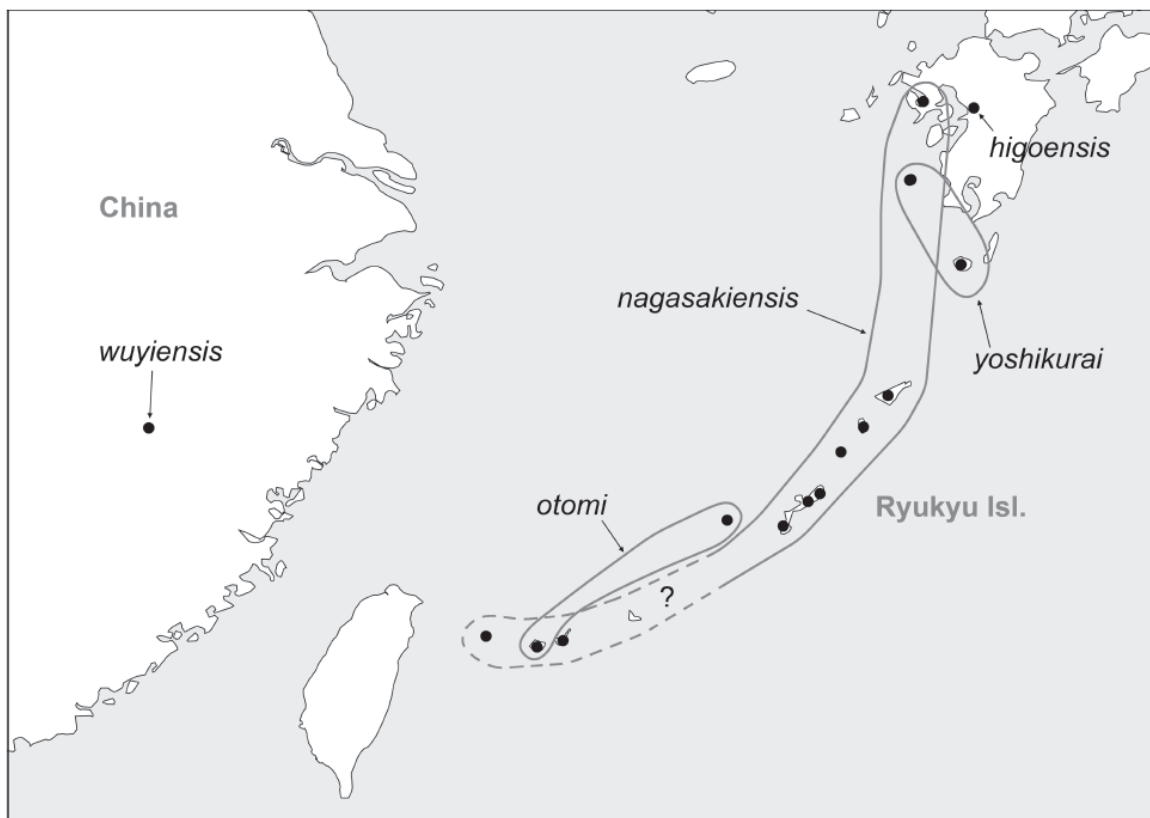


FIG. 2077. Known distribution of the *Pholcus nagasakiensis* species group. Most of the *Ph. nagasakiensis* localities are from Irie (1997); some of them (especially the southern ones) may represent *Ph. otomi*.

Types. Male holotype, female “allotype”, 6♂5♀ paratypes from China, Fujian Prov., Chong’an (=Wuyishan) County, Mt. Wuyi (27°45’N, 117°40’E), 19. vii.1986 (M. Zhu, L. Gong), in MHBUS (1♂1♀ paratypes examined).

Diagnosis. Distinguished from similar species with roughly rectangular uncus and distinct prolateral process on procurus (*Ph. otomi*, *Ph. nagasakiensis*) by details of male palpal morphology (Figs. 2086, 2087; shapes of trochanter apophysis, femur, procurus, and appendix), and female genitalia (Figs. 1975, 2090; wider epigynum, shape and position of pore plates).

Male (paratype). Total body length 5.9, carapace width 1.4. Leg 1: 41.9 (10.2 + 0.6 + 10.0 + 18.7 + 2.4), tibiae 2 and 3 missing, tibia 4: 6.7. Habitus as in Fig. 1948. Carapace ochre-yellow with brown marks posteriorly, ocular area with median brown band, clypeus medially slightly darker, sternum dark brown, legs ochre-yellow, femora and tibiae with indistinct darker rings subdistally, patella area also slightly darker, abdomen ochre-gray with many indistinct spots dorsally, without ventral pattern (cf. female, Fig. 1949), only genital area brown. Distance PME-PME 230 µm, diameter PME 150 µm, distance PME-ALE 55 µm, distance AME-AME 70 µm, diameter AME 70 µm. Ocular area moderately elevated, only normal hairs posteriorly. No thoracic furrow; clypeus unmodified. Chelicerae as in Fig. 2088, distal apophyses with two modified hairs each, only one pair of proximal apophyses. Sternum wider than long (0.95/0.80), unmodified. Palps as in Figs. 2086 and 2087, coxa unmodified, trochanter with slender ventral apophysis, femur with very indistinct proximal hump dorsally and distinct ventral protuberance, tibia unmodified ventrally, procurus with distinctive prolateral fringed process, uncus similar to *Ph. otomi* and *Ph. nagasakiensis*, weakly sclerotized embolus, appendix with flat prolateral branch. Legs without spines and curved hairs, few vertical hairs (most hairs missing), prolateral trichobothrium absent on tibia 1, seen on tibia 4.

Female. In general similar to male, triads at about same distance (distance PME-PME 220 µm); marks on abdomen slightly more distinct. Tibia 1: 8.0. Epigynum weakly elevated, anterior area brown, triangular plate strongly sclerotized laterally, with anterior ‘knob’ (Figs. 1975, 2089); internal genitalia as in Figs. 1976 and 2090.

Distribution. Known from type locality only (Fig. 2077).

Pholcus wuyiensis Zhu & Gong, 1991

Figs. 1948, 1949, 1975, 1976, 2086-2090

Pholcus wuyiensis Zhu & Gong 1991: 23-24, 26, figs. 5a-g. Song *et al.* 1999: 63, figs. 25t-w (copied from Zhu & Gong 1991). Zhang & Zhu 2009a: 94, figs. 55a-g (copied from Zhu & Gong 1991).

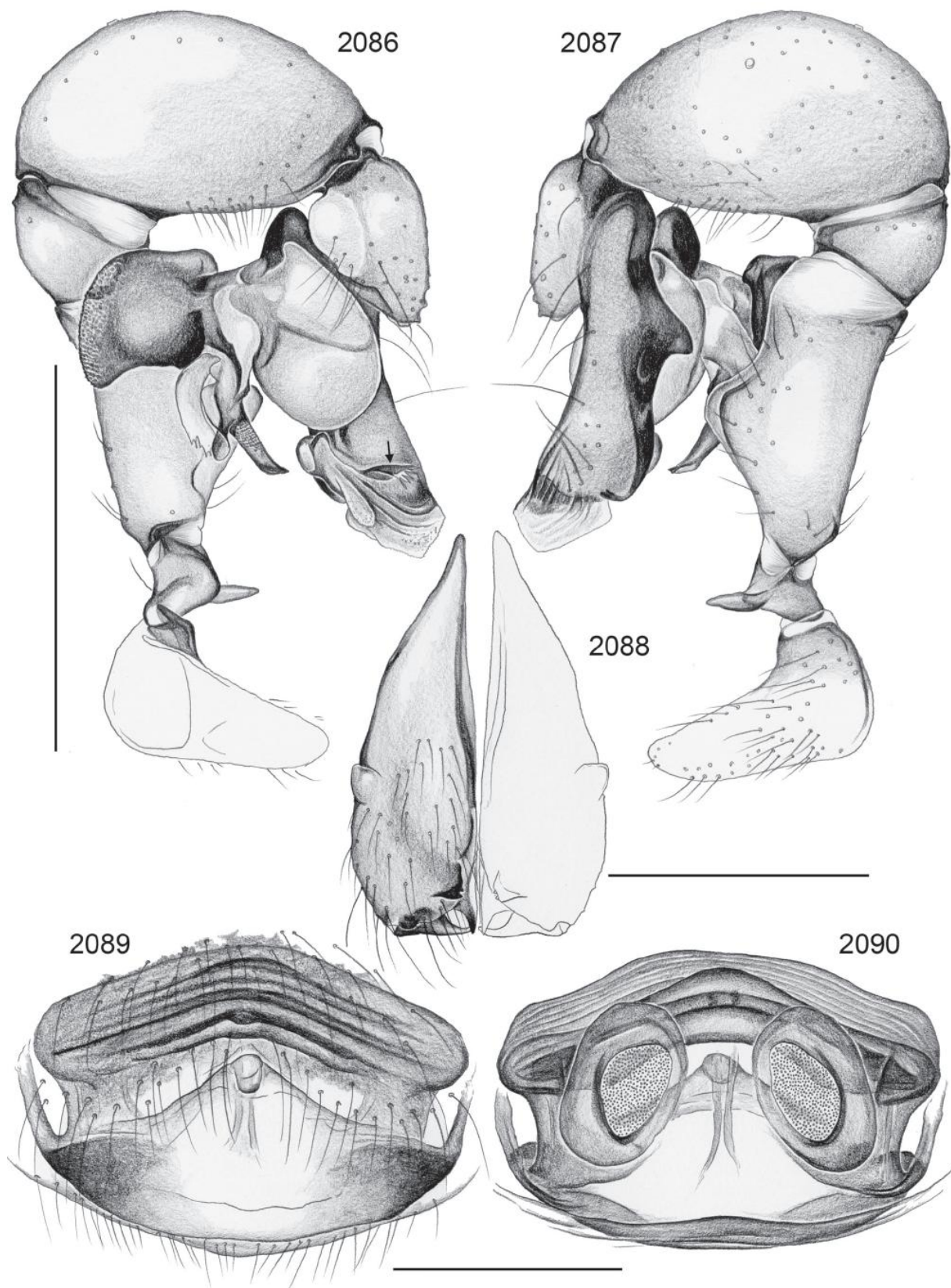


FIG. 2086-2090. *Pholcus wuyiensis*. 2086, 2087. Left male palp, prolateral and retrolateral views (arrow points at prolateral fringed process). 2088. Male chelicerae, frontal view. 2089, 2090. Cleared female genitalia, ventral and dorsal views. Scale lines: 1.0 (2086, 2087), 0.5 (2088-2090).

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Material examined. CHINA: *Fujian Prov.*: Wuyishan
County: 1♂1♀ paratypes above.