



A new species of the genus *Agrilus* Curtis, 1825 from Taiwan. Part 5. (Coleoptera: Buprestidae)

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Abstract. This fifth contribution on the *Agrilus*-fauna of Taiwan is dedicated to the description of a peculiar mountain new species found in Nantou County: *Agrilus furcatus* sp. nov.

Riassunto. Una nuova specie del gen. *Agrilus* Curtis, 1825 da Taiwan. Parte 5. (Coleoptera Buprestidae). Questo quinto contributo alla fauna degli *Agrilus* di Taiwan è finalizzato alla descrizione di una peculiare nuova specie di montagna trovata nella contea di Nantou: *Agrilus furcatus* sp. nov.

摘要：臺灣產瘦吉丁屬（*Agrilus* Curtis, 1825）新種：第五部分（鞘翅目：吉丁蟲科）。

本文是臺灣*Agrilus*屬的第五篇，位於台灣中部南投縣地區發現一新種，即：*Agrilus furcatus* sp. nov.。

Keywords. Agrilini, Oriental fauna, taxonomy.

Zoobank registration. <https://zoobank.org/NomenclaturalActs/b69c825e-77a5-4485-8e53-4d62499403aa>

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Introduction

In June 2025, the authors conducted an entomological survey in Taiwan to improve the knowledge of the Buprestid fauna of the island. One of the collected species, proved to belong to an undescribed species and is herein described as *Agrilus furcatus* sp. nov. This note follows four previous contributions published by Curletti & Ong (2022a, 2022b, 2023, 2024).

Materials and methods

The only known specimen of *Agrilus furcatus* sp. nov. was collected using a long-handled double-bag net on tree foliage. The holotype images were obtained with Zerene Stacker 1.04, from stacked photographs taken with a Canon EOS 5D Mark II camera with a Canon MP-E 65 lens, mounted on a micrometric slide.

Acronym:

NMNS: National Museum of Natural Science, Taichung, Taiwan.

***Agrilus (Agrilus) furcatus* Curletti & Gigli, sp. nov.** (Figs. 1-3)

Type material. Holotypus ♂: Taiwan, Nantou Co., NE Puli, 24.0176 121.0128, M. Gigli leg. (NMNS).

Description. Length 4.1 mm. Body slightly elongated, black dorsally. Vertex glabrous, slightly narrower than half the anterior pronotal margin. Frons with a slight dark green shine and sparse white pubescence, denser on the lower frontal half, extending onto clypeus. Eyes large with extremely reduced genae. Antennae serrate from fourth antennomere. Pronotum wider than long, width/length ratio 1.5, broadest at mid-length, with regularly rounded lateral margins and acute posterior angles. Disc regularly convex, with a posterior median depression. Pubescence denser laterally and on posterior depression. Sculpture deep, composed of transverse striae. Pre-humeral carinulae incomplete, converging into the lateral margins slightly before mid-length. Marginal carinae fused posteriorly before the basal angle. Prosternal lobe moderate and barely sinuate. Prosternal process dilated, trapezoidal, with slightly arcuate lateral sides. Scutellum carinate. Elytra with separately rounded apices apparently devoid of denticulation. Disc with sparse, irregular, white pubescence thicker at base, apex, and mid-length. Post-humeral carina starts from the callus and ends shortly before mid-length of elytra (Fig. 2). Ventral side with sparse and poorly defined pubescence; dark, drop-shaped median area present on metasternum and another fusiform one on the basal ventrite. All ventrites crossed by two longitudinal median lines (see fig. 3). Apex of last abdominal ventrite arcuately sinuate. Legs black. Metatibia longer than the metatarsus. Basal metatarsomere as long as the sum of the following three. Anterior claws bifid; median and posterior claws dentate. Exposed portion of aedeagus 1.0 mm long, symmetrical, slightly curved; median lobe parallel, bifid at apex.

Etymology. From the Latin *furcātus* (“forked”), referring to the bifid apex of the median lobe of the aedeagus.

Host plant. Unknown.

Remarks. *Agrilus furcatus* sp. nov. is characterized primarily by a post-humeral carina and the bifid apex of the median lobe of the aedeagus. These two characters in combination make the species unmistakable, although each of them occurs separately in two other Taiwanese species. The post-humeral carina is also present in *Agrilus bocaki* ssp. *dimidius* Curletti & Ong, 2023, but this species, in addition to the different arrangement of the elytral pubescence, shows a rounded apex of the median lobe of the aedeagus. A bifid apex of the median lobe of the aedeagus also occurs in *Agrilus sauteri* Kerremans, 1912, but that species is immediately distinguishable by its size, tapered shape, metallic body, and glabrous elytra.



Fig. 1. *Agrilus furcatus* Curletti & Gigli, sp. nov.: (Taiwan), holotype male, habitus, dorsal view.



Figs. 2, 3. *Agrilus furcatus* Curletti & Gigli, sp. nov.: (Taiwan), holotype male, habitus. 2. ventral view.
3. lateral view.

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