



## A new species of the antlion genus *Euroleon* Esben-Petersen from China (Neuroptera: Myrmeleontidae)

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According to the Catalog of the World Antlions by Stange (2004), six species of the genus *Euroleon* Esben-Petersen are reported worldwide, distributed mainly in the Palaearctic Region. Bao and Wang (2006) confirmed that *Euroleon coreanus* (Okamoto), 1926, *Euroleon parvus* Hölzel, 1972 and *Euroleon polypilus* (Gerstaecker), 1885 occur in China. *Euroleon sjostedti* Navás, 1928 was discovered in China and denominated by Navás (1928) based on a single male specimen. This species has not again been reported anywhere until now.

In the last two years we collected several larvae of *Euroleon* in the Hebei Province of north China. We raised these larvae to adults and identified them as *E. coreanus*. Using the same rearing strategy, we also raised to adulthood other larvae collected from the Shanxi and Ningxia Provinces and discovered that they are different from any described species of *Euroleon*. One adult specimen that we subsequently collected from Ningxia appears to be the same species. The specimens collected from the Shanxi and Ningxia Provinces appear to be a new species based on adult genitalia and morphological features of the adults and larvae.

### Material and methods

Terminology of wing venation follows Wang *et al.* (2003), while genitalia terminology follows Aspöck *et al.* (1980). The morphological character photos were taken by digital camera and processed in Adobe Photoshop (CS). All type specimens are deposited in the Insect Collection of China Agricultural University, Beijing, China (ICCAU). Each specimen examined was given a database number corresponding to the ICCAU collection code entry. The new name is attributed to the corresponding author.

### *Euroleon* Esben-Petersen, 1918

*Euroleon* Esben-Petersen, 1918: 125. Type species: *Myrmeleon europaeus* McLachlan, by original designation.

Krivokhatsky, 1994: 49-61. [Biology and key to larvae];

*Formicaleo* Geoffroy in Fourcroy 1785: 360. Type species: *Myrmeleon nostras* Geoffroy in Fourcroy, by monotype;

Synonymized by Leraut 1980: 240.

*Formicileo* Agassiz 1847: 156; Synonymized by Leraut 1980: 240 (unjustified emendation of *Formicaleo*).

*Teula* Navás 1930: 5. Type species: *Teula sinica* Navás, by monotype. Synonymized by Hölzel 1970: 128.

**Diagnosis.** Costal area with a single row of cells, some cross veins mainly near stigma with a small fork; forewing CuA2 running parallel along CuP+1A for considerable distance; large black spots on vertex.

**Distribution.** Asia; Europe

### *Euroleon flavicarpus* Wang sp. nov.

(Figs. 1–11)

**Holotype:** ♀, CHINA: **Shanxi Province:** Yangcheng County, 2007.VIII.09, Xubo Zhang, reared (CAUN100698).