

ONE NEW GENUS RECORD FOR SPIDER FAUNA OF TURKEY (ARANEAE: TRACHELIDAE)

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ABSTRACT: In this study, presented one new record genus and one new record species of Trachelidae Simon, 1897 from Kahramanmaraş province. The new record genus; *Cetonana* Strand, 1929, new record species; *Cetonana laticeps* (Canestrini, 1868) (♂). Its morphology is briefly described and illustrated. The distribution of these species and other species belonging to the Trachelidae family in Turkey is also mapped.

KEY WORDS: Araneae, new record, systematic, Southeastern Anatolia, Turkey

Family Trachelidae Simon, 1897 is represented by 20 genera and 253 species in world. Within this family, the genus *Cetonana* Strand, 1929 represents with three species (World Spider Catalog, 2021). These species; *Cetonana laticeps* (Canestrini, 1868) (♂, ♀), *Cetonana petrunkevitchi* Mello-Leitão, 1945 (♀) and *Cetonana shaanxiensis* Jin, Yin & Zhang, 2017 (♀). Only one of these species has been recorded from Europe. This species is *Cetonana laticeps* (Canestrini, 1868) (Nentwig et al., 2021). There are 3 species in 3 trachelid genera listed for Turkey (Danışman et al., 2021). These species; *Orthobula charitonovi* (Mikhailov, 1986) (from Adana, Ankara, Ardahan, Kayseri, Kırıkkale Ordu and Sinop), *Paratrachelas maculatus* (Thorell, 1875) (from Eskişehir) and *Trachelas minor* O. Pickard-Cambridge, 1872 (from Antalya) (Fig. 1) (Danışman et al., 2010, 2012; Özkütük et al., 2011; Marusik et al., 2013). This paper presents the characteristic features and distribution of *Cetonana laticeps* (Canestrini, 1868) (♂) adding a new species to the araneo-fauna of Turkey. With this new registration, the Trachelidae family has increased to 4 genera and 4 species.

MATERIALS AND METHODS

The sample in the study was collected from Kahramanmaraş province located in the east of the Mediterranean Region (Figs. 1, 2). The specimen was collected by the pitfall trap method. Identification and measurements of the samples were made with a Leica S8APO Stereo microscope. The photos were taken with the Canon EOS 250D camera. Images have been montaged by 'Combine ZM' image stacking software and 'Photoshop CC 2019' image editing software. The map of the distribution of the species was prepared using SimpleMappr programs (Shorthouse 2010). Specimens were preserved in 70% ethanol. Measurements are given in millimeter. Leg measurements are shown as total length (femur + patella + tibia + metatarsus + tarsus). The specimens were deposited in the collection of the Arachnological Museum of Kırıkkale University (KUAM).

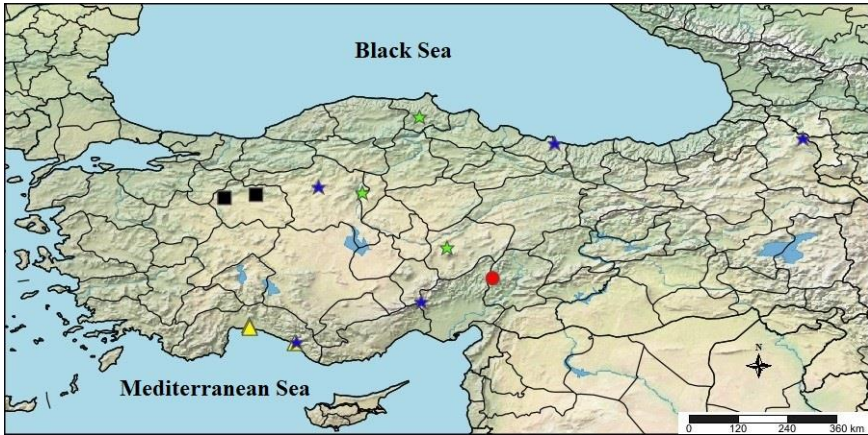


Figure 1. Distribution of the species reported from Turkey: *Cetonana laticeps* (red circle: author's record), *Orthobula charitonovi* (green star: Danışman et al., 2012, blue star: Marusik et al., 2013), *Paratrachelas maculatus* (black square: Özkütük et al., 2011) and *Trachelas minor* (yellow triangle: Danışman et al., 2010).



Figure 2. Habitat of the sample (A), pitfall trap (B) (Nail length 10 cm).

RESULTS

Family **Trachelidae** Simon, 1897

Genus ***Cetonana*** Strand, 1929

***Cetonana laticeps* (Canestrini, 1868)**

Material examined: 1♂, Kahramanmaraş Province, Göksun District, Taşoluk Village (37°58'22"N, 36°26'33"E), elevation 1483 m, 02--24.10.2020, pitfall trap.

Distribution: Europe, Russia (Caucasus) (World Spider Catalog, 2021).

Male description: Total length 6.30. Prosoma 3.10 long, 2.60 wide, 1.30 high. Abdomen 3.20 long, 2.0 wide, 1.60 high. Ocular area 1.0 long. Sternum 1.60 long, 1.40 wide. Chelicerae 1.20 long, 0.70 wide. Leg formula I, II, IV, II. Legths of legs: I. Leg: Fe: 2.40, Pa: 1.10, Ti: 2.0, Mt: 1.60, Ta: 1.0, Total: 8.10; II. Leg: Fe: 2.30, Pa: 1.0, Ti: 2.0, Mt: 1.60, Ta: 1.0, Total: 7.90; III. Leg: Fe: 1.70, Pa: 0.70, Ti: 1.30, Mt: 1.50, Ta: 0.60, Total: 5.80; IV. Leg: Fe: 2.10, Pa: 0.90, Ti: 1.90, Mt: 2.20, Ta: 0.70, Total: 7.80. Prosoma blackish brown, the front higher than the back (Fig. 3-A). Clypeus dark brown and narrow. Chelicerae dark brown, dorsally with dark

hairs (Fig. 4-A). Sternum light brown, edges dark (Fig. 3-B). Abdomen dorsally yellowish gray, the part close to the spinnerets blackish and with four point pattern in the middle. It's ventrally yellowish, with short setae (Fig. 3-A). Spinnerets light yellow (Fig. 3-B). Pedipalp yellowish brown, covered with long dark hairs. Tibia light brown, covered with long hairs and with long apophysis that dark brown, with thick base and gradually narrowing towards the tip. Tegulum nearly triangular, pointed tip and with protruding sideways. Embolus thin and long, slightly curved, extending to the apex of cymbium. Cymbium to the front curved, dorsal part broad, anterior part long and narrow (Fig. 5).



Figure 3. *Cetonana laticeps*, habitus, male, dorsal view (A), ventral view (B), lateral view (C) (Scale: 1.0 mm).



Figure 4. *Cetonana laticeps*, male, ocular area, frontal view (A), idem dorsal view (B) (Scale: 0.5 mm).

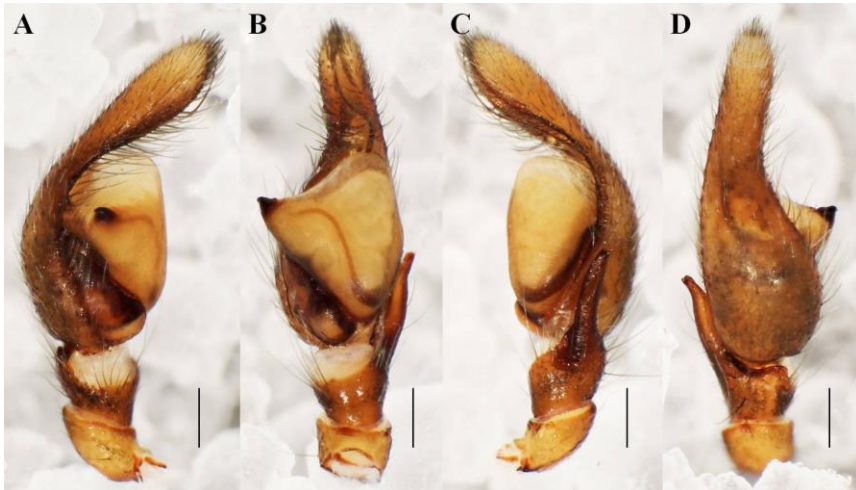


Figure 5. *Cetonana laticeps*, male, pedipalp, prolateral view (A), ventral view (B), retrolateral view (C), dorsal view (D) (Scale: 0.2 mm).

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