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*Emeryopone loebli* (BARONI URBANI, 1975)  
(Hymenoptera: Formicidae) – an ant species  
new to the fauna of Iran

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**Abstract:** *Emeryopone loebli* (BARONI URBANI, 1975) collected in Chaharmahal Va Bakhtiari Province is recorded from Iran. The new discovery is the third documented record of this species.

**Key words:** ants, central-western Iran, new country records, faunistics.

## INTRODUCTION

The ant fauna of Iran is poorly known. The checklist of ants of this country (PAKNIA *et al.* 2008) recorded 110 species belonging to 26 genera and undoubtedly stimulated further faunistic research. Currently, approximately 320 ant species and subspecies are known from the country (GUÉNARD *et al.* 2017), but some of the literature records seem unreliable. Studies on the biodiversity of Iranian ants are mainly hampered by the lack of modern keys to identifying ants from the Middle East and taxonomic challenges associated with many ant genera. As a result, some species that, in the light of recent discoveries, certainly do not occur in this country are listed in some faunistic inventories of Iranian ants. On the other hand, recent taxonomic studies revealed hidden and undescribed biodiversity of such genera as *Cataglyphis* FOERSTER, 1850 and *Camponotus* MAYR, 1861 confirming the high biodiversity of Iranian ants (RADCHENKO & PAKNIA 2010, KIRAN *et al.* 2013, KHALILI-MOGHADAM *et al.* 2021, 2023, SALATA *et al.* 2020, 2021). Thus, the exact number of taxa occurring in Iran is still unknown and is expected to increase with upcoming faunistic surveys and taxonomic revisions.

The inventory of the material collected recently in south-western Iranian Provinces revealed the presence of *Emeryopone loebli* (BARONI URBANI, 1975) in Iran.

## MATERIAL AND METHODS

The main method, applied at all sites, was direct sampling (hand collecting). Ant specimens were searched for on the ground, in leaf litter, under stones, in dead wood, on tree trunks and twigs. Nests were searched in rock cracks and on cracked rocks using a chisel. The collected specimen was preserved in 75% ethanol. Distribution in Iran refers to PAKNIA *et al.* (2008) and KHALILI-MOGHADAM *et al.* (2019). Images of the specimen were taken using a Nikon SMZ 1500 stereomicroscope, Nikon D5200 photo camera, and Helicon Focus software. Geographical coordinates are given in a decimal system. Material is deposited in the Myrmecological Laboratory, Department of Biodiversity and Evolutionary Taxonomy, University of Wrocław, Poland (DBET). The specimen was determined based on the original description of the species (BARONI URBANI 1975) and available photographs of the type specimen (ANTWEB, CASENT0911131, CASENT0915184).

## RESULTS

*Emeryopone loebli* (BARONI URBANI, 1975) (Figs. 1–3)

**New locality:** 1 worker collected in oak forest, Iran, Chaharmahal Va Bakhtiari, Koohrang, Cheri, 1645 m, 32.15373/50.1183, 22 IV 2021, leg. A. Khalili-Moghadam.

**Comments:** *Emeryopone loebli* is a member of the subfamily Ponerinae and was described as *Belonopelta loebli* from Israel (Galilea) based on four workers collected in an arid area overgrown with *Eucalyptus* tree and *Opuntia* sp. (BARONI URBANI 1975). Subsequently, it was recorded from Saudi Arabia (Al Qatif), based on one worker collected in soil litter under a date palm (COLLINGWOOD 1985). The Iranian record is only the third known for this species. In Iran, this species was collected in oak rotting wood under an Oak tree from the western slope of the Zagros Mountain (Cheri peak), overgrown mostly with thermophilous oak forest.

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Figs. 1–2. *Emeryopone loebli* (BARONI URBANI), worker dorsal (1), worker lateral (2) (scale bar = 1 mm). Photo by L. Borowiec.



Fig. 3. *Emeryopone loebli* (BARONI URBANI), worker head (scale bar = 0.5 mm). Photo by L. Borowiec.

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