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New data on the spider fauna of Iran (Arachnida: Araneae)

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We present the results of some spider surveys that were conducted in different parts of Iran. Faunistic records for 30 species which are new to Iran are presented here. Biogeographic data are provided for each species. Two families, namely Liocranidae and Mimetidae, are recorded for the first time from the country.

Keywords: Fauna; Iran; new records; Liocranidae; Mimetidae; spiders.

Introduction

The first checklist of spiders (Arachnida: Araneae) of Iran was published by Mozaffarian and Marusik (2001), in which, they listed 141 species in 25 families. The checklist was later updated in Ghavami (2006), who provided data on the occurrence of 244 species in 33 families in this country. Now, some 480 species belonging to about 40 families are known (O. Mirshamsi, A. Zamani, & Y. Marusik, unpubl.). 78 species of these are endemic to Iran. The location of Iran between the European, Arabian and Oriental biogeographic regions is a good potential for a much higher species diversity; Ghahari and Marusik (2009) predicted that the actual diversity of the spider fauna of Iran should be not less than 900 species from over 40 families. The aim of this paper is to contribute to the knowledge of Iranian spider diversity by recording taxa new for the fauna of this country, as well as providing brief data on the distribution of each of these species.

Material and methods

All specimens were collected from various parts of Iran by hand or by means of entomological aspirators. The epigyne of females was removed and immersed in KOH for clearing and cleaning. Specimens were examined using either a Nikon SMZ-1000 or an Olympus SZH-10 stereo microscope. – Depositories: Jalal Afshar Zoological Museum of the University of Tehran (JAZM), Naturhistorisches Museum Basel (NMB), and Zoological Museum of Ferdowsi University of Mashhad (ZMFUM).

Results and discussion

As a result of this study, the number of Iranian spider families and species is raised to 42 and 510, respectively.

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Family Agelenidae C. L. Koch, 1837

*Tegenaria lenkoranica* (Guseinov, Marusik & Koponen, 2005)

Material: **Tehran Province**: 1♀ (JAZM), Darakeh, 35°48′N, 51°22′E, 06/2014, Zamani leg.; 1♀ (NMB), Mount Tochal, 35°49′N, 51°24′E, 05/2013, Zamani leg.; 2♀ (JAZM), Roodafshan Cave, 35°37′N, 51°24′E, 12/2013, Zamani leg.; **Mazandaran Province**: 3♀ (JAZM), Nowshahr, Sisangan National Park, 36°34′N, 51°48′E, 03/2014, Zamani leg.; 1♀ (JAZM), Amol, Lahijan, Rineh, 35°25′N, 52°10′E, 06/2014, Zamani leg.; **Alborz Province**: 1♀ (JAZM), Chandar, 07/2014, Zamani leg. – This species was described and previously known only from the lowlands of Lenkoran, Azerbaijan (Guseinov, Marusik, & Koponen, 2005). New to Iran.

*Tegenaria pagana* C. L. Koch, 1840

Material: **Tehran Province**: 2♂ (JAZM), Tehran, 35°43′N, 51°25′E, 01/2014, Zamani leg. – This species has been reported from Southern and Central Europe and the Mediterranean. It has also been introduced into North and South America (Bolzern, Burckhardt, & Hänggi, 2013). New to Iran.

Family Araneidae Simon, 1895

*Argiope trifasciata* (Forsskål, 1775)

Material: **Hormozgan Province**: 1♀ (JAZM), Bandar-e-Lengeh, 1993/Sep, Savoji leg. – This is a widespread species with a cosmopolitan distribution (Platnick, 2014). New to Iran.

Family Eresidae C. L. Koch, 1845

*Eresus kollari* Rossi, 1846

Material: **Khorasan-e-Razavi Province**: 1♂ (ZMFUM), 20 km N of Mashhad, Kardeh Village, 11/2013, Hatami leg.; 1♂ (ZMFUM), 15 km W of Mashhad, Zoshk Village, 04/2001, Emamian leg.; 1♂ (ZMFUM), Mashhad, 12/2012, Nikmagham leg.; 1♂ (ZMFUM), vicinity of Sarakhs, 11/2012, Monfared leg; 1♂ (ZMFUM), Torbat Jam, 04/2014, Jannesar leg. – This species is widely distributed from Europe to Central Asia (Platnick, 2014). New to Iran.

Family Gnaphosidae Pocock, 1898

*Anagraphis pallens* Simon, 1893

Material: **Khorasan-e-Razavi Province**: 1♂ (ZMFUM), Gonabad, Kakhk, 34°08′N, 58°38′E, 03/1998, Mirshamsi leg. – This species has been previously recorded from Libya, Malta, Syria, Israel, Crete and probably South Africa (Platnick, 2014). Genus and species new to Iran.

*Aphantaulax trifasciata* (O. P.-Cambridge, 1872)

Material: **Mazandaran Province**: 1♀ (JAZM), Noor, 07/2013, Zamani leg.; **Gilan Province**: 1♀ (JAZM), Rasht, 37°27′N, 49°33′E, 05/2012, Zareie leg. – This species has a Palaearctic distribution, which extends from Southern Europe to Central Asia (Platnick, 2014). Previously, and without a species determination, only the genus *Aphantaulax* was reported from Iran (Ghavami, 2006). New to Iran.
Berlandina cinerea (Menge, 1872)
Material: Khorasan-e-Razavi Province: 1♂ (ZMFUM), Sarakhs, Shirtappeh, 36°07’N, 61°13’E, 1298 m a.s.l., 07/2012, Nikmagham leg.; 1♀ (ZMFUM), Sarakhs, Cheshmeh Shoor, 36°33’N, 60°36’E, 1802 m a.s.l., 11/2012, Nikmagham leg. – The distribution of this species extends from Europe to Kazakhstan (Platnick, 2014). Genus and species new to Iran.

Drassyllus sur Tuneva & Esyunin, 2003
Material: Khorasan-e-Razavi Province: 1♀ (ZMFUM), Gonabad, Kakhk, 34°08’N, 58°38’E, 04/1998, Mirshamsi leg. – This species has been previously recorded from Turkey, Russia and Kazakhstan (Platnick, 2014). New to Iran.

Gnaphosa leporina (L. Koch, 1866)
Material: Khorasan-e-Razavi Province: 1♀ (ZMFUM), Sarakhs, Kopet Dagh Mountains, 36°02’N, 60°56’E, 1726 m a.s.l., 09/2012, Nikmagham leg. – This species has a Palaearctic distribution (Platnick, 2014). New to Iran.

Micaria subopaca Westring, 1861
Material: Khorasan-e-Razavi Province: 1♀ (ZMFUM), Sarakhs, Shirtappeh, 36°07’N, 61°13’E, 1298 m a.s.l., 07/2012, Nikmagham leg. – This species has a Palaearctic distribution (Platnick, 2014). New to Iran.

Minosiella intermedia Denis, 1958
Material: Khorasan-e-Razavi Province: 5♂ (ZMFUM), Sarakhs, Khangiran, 36°34’N, 60°48’E, 1103 m a.s.l., 10/2012, Nikmagham leg.; 6♀ (ZMFUM), Sarakhs, Khangiran, 36°34’N, 60°48’E, 1103 m a.s.l, 2012/Oct, Nikmagham leg. – This species has been recorded from Central Asia and Afghanistan (Platnick, 2014). Genus and species new to Iran.

Synaphosus palearcticus Ovtsharenko, Levy & Platnick, 1994
Material: Khorasan-e-Razavi Province: 1♂ (ZMFUM), Sarakhs, Jahanbani, 36°34’N, 61°06’E, 884 m a.s.l., 10/2012, Nikmagham leg.; 1♀ (ZMFUM), Sarakhs, Bazangan Lake, 36°18’N, 60°28’E, 2782 m a.s.l., 04/2012, Nikmagham leg. – This species is distributed from Turkey to Central Asia, and has also been recorded from Crete (Platnick, 2014). New to Iran.

Talanites fagei Spassky, 1938

Trachyzelotes adriaticus (Caporiacco, 1951)
Material: Khorasan-e-Razavi Province: 1♀ (ZMFUM), Sarakhs, Abgarm, 36°30’N, 60°04’E, 09/2012, Nikmagham leg. – The distribution of this species ranges from Italy to China (Platnick, 2014). Genus and species new to Iran.

Trachyzelotes lyonneti (Audouin, 1826)
Material: Khorasan-e-Razavi Province: 1♂ (ZMFUM), Gonabad, Kakhk, 34°09’N, 58°38’E, 03/1998, Mirshamsi leg. – This species is distributed from the Mediterranean
to Central Asia, but has also been recorded from Brazil and USA to Peru (Platnick, 2014). Genus and species new to Iran.

**Family Liocranidae Simon, 1897**

*Mesiotelus scopensis* Drensky, 1935

Material: *Tehran Province*: 1 ♂ (JAZM), Tehran, 35°47'N, 51°24'E, 10/2013, Zamani leg. – The distribution of this species extends from the Mediterranean to Turkmenistan (Bosmans et al., 2009). Family, genus and species new to Iran.

**Family Mimetidae Simon, 1881**

*Mimetus laevigatus* (Keyserling, 1863)


**Family Oonopidae Simon, 1890**

*Triaros stenaspis* Simon, 1891

Material: *Tehran Province*: 1 ♀ (JAZM), Tehran, 35°45’N, 51°24’E, 04/2014, Zamani leg. – This species has a Pantropical distribution and has also been introduced into European greenhouses (Platnick, Dupérré, Ubick, & Fannes, 2012). This is the second record of this species from Asia, after Taiwan (Platnick et al., 2012), and the first parthenogenetic spider species to be reported from Iran. Genus and species new to Iran.

**Family Oxyopidae Thorell, 1870**

*Oxyopes badhyzicus* Mikhailov & Fet, 1986

Material: *Alborz Province*: 1 ♀ (JAZM), Karaj, 35°44’N, 50°35’E, 08/2011, Zamani leg. – The species was known so far only from Israel and Turkmenistan (Levy, 1999). New to Iran.

**Family Philodromidae Thorell, 1870**

*Philodromus buxi* Simon, 1884


**Family Salticidae Blackwall, 1841**

*Myrmarachne formicaria* (De Geer, 1778)

Material: *Gilan Province*: 1 ♀ (JAZM), Anzali Lagoon, 02/1995, Savoji leg. – This species has a Palaearctic range, but has also been introduced in USA (Platnick, 2014). New to Iran.

**Family Sparassidae Bertkau, 1872**

*Cebrennus kochi* (O. P.-Cambridge, 1872)

Material: *Bushehr Province*: 1 ♀ (JAZM), Bushehr, 11/2013, Jahan leg. – This species has been previously known only from Israel and Syria (Jäger, 2014). Our record sug-
gests that this species should be present in Iraq as well. This is the easternmost record of the known zoogeographic range of this species. Genus and species new to Iran.

**Family Theridiidae Sundevall, 1833**

*Enoplognatha latimana* Hippa & Oksala, 1982

Material: *Tehran Province*: 2♂ 2♀ (JAZM), Darakeh, 35°48’N, 51°22’E, 06/2014, Zamani leg. – This species has a Holarctic distribution, ranging from Western Europe to Central Asia (Huseynov & Marusik, 2007). New to Iran.

**Family Thomisidae Sundevall, 1833**

*Monaeses paradoxus* (Lucas, 1846)

Material: *Bushehr Province*: 1♀ (JAZM), Jam, 01/2013, Mirzaee leg. – This species is distributed from Europe to Azerbaijan, and has been also reported from Africa (Platnick, 2014). New to Iran.

*Ozyptila lugubris* (Kroneberg, 1875)

Material: *Khorasan-e-Jonoubi Province*: 1♂ 1♀ (ZMFUM), Qaen, 12/2012, Abedi leg. – This species is widely distributed in Russia, Central Asia and Afghanistan (Platnick, 2014). New to Iran.

*Stiphropus strandi* Spassky, 1938

Material: *Khorasan-e-Razavi Province*: 1♂ 2 juveniles (ZMFUM), Torbat-e-Heydarieh, 02/2012, Allahdadi leg. – So far, this species has been recorded from Turkmenistan, SW Tajikistan and Afghanistan (Platnick, 2014). Genus and species new to Iran.

*Xysticus cor* Canestrini, 1873

Material: *Tehran Province*: 1♂ (JAZM), Golab Darreh, 07/2014, Zamani leg. – This species has been reported from Southern Europe and the Azores (Platnick, 2014). New to Iran.

*Xysticus edax* (O.P.-Cambridge, 1872)

Material: *Khorasan-e-Razavi Province*: 1♀ (ZMFUM), Mashhad, 01/2012, Allahdadi leg. – Previously, this species has been recorded only from Turkey and Israel (Platnick, 2014). The present record is to be considered provisional, as this species was identified based on a single female specimen. New to Iran.

*Xysticus kempeleni* Thorell, 1872

Material: *Khorasan-e-Jonoubi Province*: 1♀ (ZMFUM), Qaen, 07/2012/Jul, Abedi leg. – This species is distributed from Europe to Central Asia (Platnick, 2014). New to Iran.

*Xysticus minor* Charitonov, 1946

Material: *Khorasan-e-Jonoubi Province*: 1♂ (ZMFUM), Qaen, 07/2012, Abedi leg. – This is a widespread species in Central Asia, from South Kazakhstan to Afghanistan (Platnick, 2014). New to Iran.

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