

# An annotated checklist of the scale insects of Iran (Hemiptera, Sternorrhyncha, Coccoidea) with new records and distribution data

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## Abstract

A list of scale insects (Hemiptera: Sternorrhyncha: Coccoidea) of Iran is present based mainly on the literature records since 1902. In total, 13 families and 275 species have been recorded and these are listed along with their locality data and host plants. The families are as follows: Asterolecaniidae, Cerococcidae, Coccidae, Diaspididae, Eriococcidae, Kermesidae, Margarodidae, Monophlebidae, Ortheziidae, Phoenicococcidae, Pseudococcidae, Putoidae and Rhizoecidae. The following ten species are recorded for the first time from Iran: *Diaspidiotus lenticularis* (Lindinger), *D. wuenni* (Lindinger), *Fiorinia proboscitaria* Green, *Koroneaspis loniceriae* Borchsenius, *Eriococcus cingulatus* Kiritchenko, *E. pamiricus* (Bazarov), *E. reynei* Schmutterer, *E. sanguinairensis* Goux and *E. saxidesertus* (Borchsenius) and *Porphyrophora victoriae* Jashenko.

## Keywords

Hemiptera, Sternorrhyncha, coccoidea, annotated checklist, host plants, Iran, new records, locality data

## Introduction

Scale insects (superfamily Coccoidea) are sap-sucking hemipterous insects with an estimated 8000 species within 49 families, of which 16 are only known from fossils (Ben-Dov et al. 2013). They are closely related to the other Sternorrhyncha superfamilies: aphids (Aphidoidea), whiteflies (Aleyrodoidea) and jumping plant lice (Psylloidea)

(Gullan and Cook 2007). The taxonomy of the Coccoidea is mainly based on the microscopic cuticular features of the adult female, which is paedomorphic, maturing to a wingless juvenile form with functional mouthparts, whereas the adult male (when present) goes through “prepupal” and “pupal” stages and turns into an alate form with non-functional mouthparts (Kondo et al. 2008). The size of adult females varies from 1 mm in diameter in some diaspidids to 7–9 mm in several monophlebids. Some species are highly cryptic, living well hidden on their host plants, and are very hard to detect. This is particularly true of the immature stages, and these are frequently imported, causing major phytosanitary concerns. Many species of scale insects are economically important pests in agriculture, horticulture and forestry (Ben-Dov 2011–2012). However, only 13 families of scale insects have so far been recorded from Iran.

Although the scale insects of Iran have been relatively well studied, there is still a strong need for further investigations, including extensive collections of these families in Iran. Historically, the first scale insect recorded from Iran was *Asterolecanium bornmuel-leri* (Asterolecaniidae), associated with its host plant *Quercus persica* (Rübsaamen 1902). Lindinger (1905) wrote briefly on Iranian scale insects, describing *Salicicola kermanensis* on poplars. Subsequently Lindinger (1911) described *Parlatoria ephedrae* on *Ephedra nebrodenis* and recorded *Aonidiella orientalis* Newstead, on *Ficus* sp., and later he also reported *Diaspis syriaca* on *Pistacia* sp. (Lindinger 1931). Earlier, Green (1919) had recorded *Trabutina serpentina* on *Tamarix* sp., and later Archangelskaya (1937) recorded the following 12 species from Iran: *Orthezia urticae* (Linnaeus), *Palaeolecanium bituberculatum* (Signoret), *Eulecanium tiliae* (Linnaeus), *Sphaerolecanium prunastri* (Boyer de Fonscolombe), *Rhizopulvinaria artemisiae* (Signoret), *Pulvinaria vitis* (Linnaeus), *Anapulvinaria pistaciae* (Bodenheimer), *Parlatoria blanchardi* Targioni Tozzetti, *P. oleae* Colvée, *Lepidosaphes beckii* (Newman), *L. pistaciae* Archangelskaya and *Chlidaspis asiatica* (Archangelskaya). Afchar (1937) listed 31 scale insects from Iran. Bodenheimer (1944) was the first coccidologist to make a solo expedition to Iran, and he assembled a sizeable collection of Iranian coccoids, recording 34 species, of which two were new: *Pulvinaria gossypii* (Bodenheimer), and *Epidiaspis salicis* (Bodenheimer). Borchsenius (1952) added two further new species, *Targionia anabasisidis* (Borchsenius) and *Dynaspidiotus amygdalicola* Borchsenius. Balachowsky between the years 1937 and 1967 made the greatest contribution to the taxonomy of diaspidids in Iran, and jointly worked with other Iranian entomologists to significantly improve the understanding of the scale insect fauna of the country. Kaussari was the first Iranian coccidologist to extensively revise the diaspidid fauna of Iran, between 1946 and 1970. Later contributions are those of Farahbakhsh (1961), Asadeh and Mosaddegh (1991), Vahedi from 2001 through 2012, Vahedi and Gholami Mahfar (2010), Vahedi and Hodgson (2002, 2002a, 2007), Vahedi and Hodjat (1996), Torabi et al. (2010), Moghaddam (1999 to 2013), Moghaddam and Alikhani (2009, 2010), Moghaddam and Azadbakht (2006), Moghaddam and Bagheri (2011), Moghaddam and Tavakoli (2010), Moghaddam et al. (2004), Takagi and Moghaddam (2005) and Williams and Moghaddam (1999, 2007).

Additional information has been gleaned from the various catalogues by Borchsenius (1966), Ben-Dov (1993, 1994), Kozár (1998), Kozár and Walter (1985), Miller

and Gimpel (2000) and the check-lists of Iranian Coccoidea by Afchar (1937), Kozár et al. (1996), Seghatoleslami (1977) and Moghaddam (2004, 2009).

This present checklist is intended to facilitate access to the most recent data on Iranian Coccoidea for taxonomists and to update the recorded species from Iran. Only records in which Iran is specifically mentioned are cited.

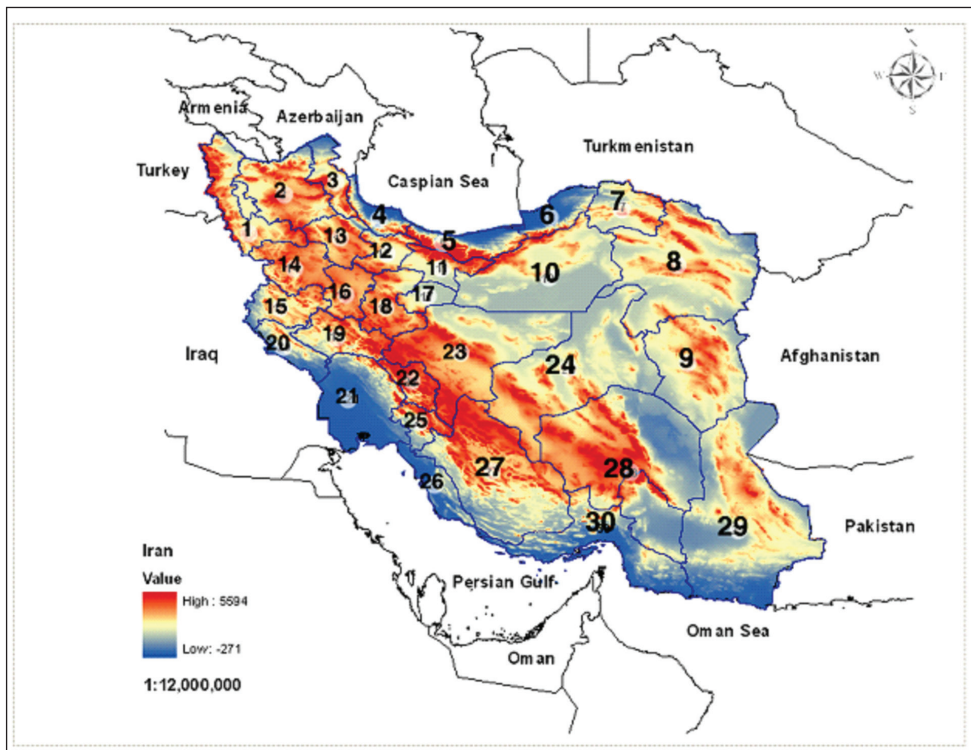
The list contains all species of Coccoidea recorded up to March, 2013 and includes 275 species in 113 genera and 13 families: Asterolecaniidae (seven species.), Cerococcidae (one species), Coccidae (30 species), Diaspididae (151 species), Eriococcidae (14 species), Kermesidae (two species), Margarodidae (seven species), Monophlebidae (five species), Ortheziidae (one species), Phoenicococcidae (one species), Pseudococcidae (54 species), Putoidae (one species) and Rhizoecidae (one species). New records from Iran are marked with asterisks include *Diaspidiotus lenticularis* (Lindinger), *D. wuenni* (Lindinger), *Fiorinia proboscidea* Green, *Koroneaspis lonicerae* Borchsenius, *Eriococcus cingulatus* Kiritchenko, *E. pamiricus* (Bazarov), *E. reynei* Schmutterer, *E. sanguinairensis* Goux, *E. saxidesertus* (Borchsenius) and *Porphyrophora victoriae* Jashenko.

The following 32 species are currently only known from Iran: *Asterolecanium bornmuelleri* Rübsaamen, *Acanthomytilus kurdicus* (Bodenheimer), *Aspidaspis denticolobus* Kaussari & Balachowsky, *Chorizococcus viticola* Kaydan & Kozár, *Chortinaspis salavatiani* Balachowsky & Kaussari, *Coccidohystrix burumandi* Moghaddam, *Contigaspidiotus davatchii* Kaussari, *C. sarkissiani* (Kaussari & Balachowsky), *Diaspidiotus baiati* (Kaussari), *D. iranicus* Kaussari & Balachowsky, *D. platychaetae* Takagi & Moghaddam, *Diaspis carmanica* Davatchi & Balachowsky, *Dynaspidiotus amygdalicola* (Borchsenius), *D. medicus* Kaussari, *Eriococcus abaii* (Danzig), *Exallomochlus balouchestanensis* Moghaddam, *Melanaspis louristanus* Balachowsky & Kaussari, *Parlagena mckenziei* Balachowsky, *P. remaudierei* Kaussari, *Peliococcus ilamicus* Moghaddam, *Phenacoccus betae* Moghaddam, *P. iranica* Moghaddam, *P. karkasicus* Moghaddam, *P. salviacus* Moghaddam, *Polystomophora arakensis* Moghaddam, *Porphyrophora chelodonta* Vahedi, *Pseudotargionia orientalis* Balachowsky & Kaussari, *Rhodania aeluropi* Williams & Moghaddam, *Rungaspis avicenniae* Takagi & Moghaddam, *Spilococcus mirzayansi* (Moghaddam), *Targionia balachowskyi* (Kaussari), *Torosapis farsianus* (Balachowsky & Kaussari). These possibly endemic species are marked with black spots.

## Notes on the checklist

The families are alphabetically ordered and are diagnosed based on the most recent classification of Coccoidea by Ben-Dov et al. (2013), except for Rhizoecidae that follows Hodgson (2012). The genera and species are listed under their families and ordered alphabetically, together with related references, host plants and collecting sites in Iran (Fig. 1). Further information is provided if there are either new host plant or new species records. Full reference citations can be found on ScaleNet (Ben-Dov et al. 2013).

Slide-mounted specimens of most of the species are deposited in the Coccoidea collection, Insect Taxonomy Research Department, Iranian Research Institute of Plant Protection (IRIPP), Tehran, Iran. Collections are also housed in the Natural History Museum, London, UK (BMNH); Muséum National d'Histoire Naturelle, Paris, France (MNHN); United States National Entomological Collection, U.S. National Museum of Natural History, Washington, D.C., USA (USNM); Department of Entomology, The Volcani Center, Bet Dagan, Israel (ICVI); Zoological Museum, Academy of Science, St. Petersburg, Russia (ZIRAS), Plant Protection Department, Faculty of Agriculture, Yuzuncu Yil University, Van, Turkey and Zoologisches Institut und Zoologisches Museum, Hamburg, Germany (ZMUH).



**Figure 1.** Outline map of Iranian provinces. **1** Azarbaijan -e Garbi **2** Azarbaijan -e Shargi **3** Ardabil **4** Gilan **5** Mazandaran **6** Golestan **7** Khorosan -e Shomali **8** Khorosan -e Razavi **9** Khorosan -e Jonoubi **10** Semnan **11** Tehran **12** Ghazvin **13** Zanjan **14** Kordestan **15** Kermanshah **16** Hamadan **17** Qom **18** Markazi **19** Lorestan **20** Ilam **21** Khouzestan **22** Chaharmahal-Bakhtiari **23** Esfahan **24** Yazd **25** Kohgilouyeh & Boyerahmad **26** Bushehr **27** Fars **28** Kerman **29** Sistan & Belouchestan **30** Hormozgan

**Family ASTEROLECANIIDAE**

***Asterodiaspis bella* (Russell)**

*Asterolecanium bellum* Russell, 1941: 50.

**Iran localities.** Unknown.

**Host plants.** Fagaceae: *Quercus* sp.

**References.** Ben-Dov et al. (2013), Kozár et al. (1996).

***Asterodiaspis mina* (Russell)**

*Asterolecanium minus* Russell, 1941: 132.

**Iran localities.** Fars, Golestan.

**Host plants.** Fagaceae: *Quercus infectoria*.

**References.** Ben-Dov et al. (2013), Bodenheimer (1943, 1944), Farahbakhsh (1961), Kozár et al. (1996), Moghaddam (2009), Moghaddam and Tavakoli (2010).

***Asterodiaspis quercicola* (Bouché)**

*Lecanium quercicola* Bouché, 1851: 112. *Asterolecanium quercicola* Signoret, 1870.

**Iran localities.** Chaharmahal-Bakhtiari, Fars, Ilam, Kermanshah, Khuzestan, Kohgil-uyeh & Boyerahmad, Kordestan, Lorestan.

**Host plants.** Fagaceae: *Quercus* sp.

**References.** Ben-Dov et al. (2013), Bodenheimer (1943), Farahbakhsh (1961), Kaussari (1957), Moghaddam (2009, 2010), Moghaddam and Tavakoli (2010).

● ***Asterolecanium bornmuelleri* Rübsaamen**

*Asterolecanium bornmuelleri* Rübsaamen, 1902: 316.

**Iran localities.** Fars.

**Host plants.** Fagaceae: *Quercus persica*.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Fernald (1903), Kozár (1998), Kozár and Drozdják (1998), Lindinger (1912), Rübsaamen (1902), Russell (1941).

***Bambusaspis bambusae* (Boisduval)**

*Asterolecanium bambusae* Boisduval, 1869: 261.

**Iran localities.** Gilan.

**Host plants.** Poaceae: *Bambusa* sp.

**References.** Farahbakhsh (1961).

***Palmaspis phoenicis* (Ramachandra Rao)**

*Asterolecanium phoenicis* Ramachandra Rao, 1922: 11.

**Iran localities.** Bushehr, Esfahan, Fars, Khorasan -e Jonoubi, Sistan & Balouchistan, Yazd.

**Host plants.** Arecaceae: *Phoenix dactylifera*.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Borchsenius (1960), Farahbakhsh (1961), Kaussari (1957), Kozár (1998), Kozár et al. (1996), Moghaddam (2009).

***Russellaspis pustulans* (Cockerell)**

*Asterodiaspis pustulans* Cockerell, 1892: 142.

**Iran localities.** Unknown locality.

**Host plants.** Unknown plant.

**References.** Ben-Dov et al. (2013), Kozár (1998), Kozár et al. (1996), Stumpf and Lambdin (2006).

**Family CEROCOCCIDAE*****Cerococcus longipilosus* (Archangelskaya)**

*Cerveoccus longipilosus* Archangelskaya, 1930a: 81.

**Iran localities.** Ilam, Lorestan, Yazd.

**Host plants.** Asteraceae: *Lactuca orientalis*.

**References.** Ben-Dov et al. (2013), Kaussari (1957), Kozár (1998), Kozár et al. (1996), Moghaddam (2009, 2010), Moghaddam and Tavakoli (2010).

## Family COCCIDAE

### *Acantholecanium haloxyloni* (Hall)

*Ctenochiton haloxyloni* Hall, 1926: 17.

**Iran localities.** Azarbaijan -e Garbi, Esfahan, Semnan, Yazd.

**Host plants.** Amaranthaceae: *Haloxylon* sp., *Noaea mucronata*.

**References.** Ben-Dov et al. (2013), Moghaddam (2009).

### *Acanthopulvinaria orientalis* (Nazonov)

*Pulvinaria orientalis* Nasonov, 1908: 493.

**Iran localities.** Esfahan, Hamadan, Golestan, Kerman, Khorasan -e Shomali, Sistan & Balouchestan.

**Host plants.** Amaranthaceae: *Halocnemum strobilaceum*, *Haloxylon* sp., *Noaea mucronata*, *Salsola oppositifolia*; Asteraceae: *Achillea* sp., *Artemisia* sp.; Rosaceae: *Prunus lycioides*; Tamaricaceae: *Tamarix* sp.

**References.** Ben-Dov et al. (2013), Kozár (1998), Kozár et al. (1996), Moghaddam (2009, 2010), Moghaddam and Tavakoli (2010).

**Notes.** This is the first record for *A. orientalis* from the plant family Rosaceae.

### *Anapulvinaria pistaciae* (Bodenheimer)

*Pulvinaria pistaciae* Bodenheimer, 1926: 189.

**Iran localities.** Hormozgan, Kerman, Khorasan -e Jonoubi, Sistan & Balouchestan, Yazd.

**Host plants.** Anacardiaceae: *Pistacia khinjuk*, *Rhus coriaria*; Juglandaceae: *Juglans regia*; Tamaricaceae: *Tamarix* sp.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Farahbakhsh (1961), Kaussari (1957), Kozár (1998), Kozár et al. (1996), Moghaddam (2009).

**Notes.** This is the first record of *A. pistaciae* from the plant family Juglandaceae.

### *Bodenheimera rachelae* (Bodenheimer)

*Lecanium (Eulecanium) rachelae* Bodenheimer, 1924: 68.

**Iran localities.** Ilam, Kermanshah, Lorestan.



**Host plants.** Lamiaceae: *Vitex* cf. *Pseudonegundo*.

**References.** Ben-Dov (1969), Ben-Dov et al. (2013), Bodenheimer (1944), Kozár (1998), Kozár et al. (1996), Moghaddam (2009), Moghaddam and Tavakoli (2010).

### ***Ceroplastes floridensis* Comstock**

*Ceroplastes floridensis* Comstock, 1881: 331.

**Iran localities.** Ardabil, Fars, Gilan, Mazandaran.

**Host plants.** Araliaceae: *Hedera pastuchowii*; Ebenaceae: *Diospyros kaki*; Moraceae: *Ficus benjamina*; Pinaceae: *Cedrus* sp.; Rosaceae: *Cydonia oblonga*; Rutaceae: *Citrus sinensis*; Taxodiaceae: *Metasequoia glyptostroboides*.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1957), Kozár (1998), Kozár et al. (1996) and Moghaddam (2009, 2010).

**Notes.** These are the first records of *C. floridensis* from plant families Moraceae and Taxodiaceae.

### ***Ceroplastes rusci* (Linnaeus)**

*Coccus rusci* Linnaeus, 1758: 456.

**Iran localities.** Fars, Kohgiluyeh & Boyerahmad, Lorestan, Sistan & Balouchestan.

**Host plants.** Moraceae: *Ficus carica*.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1946a), Kozár et al. (1996), Moghaddam (2009) and Moghaddam and Tavakoli (2010).

### ***Ceroplastes sinensis* Del Guercio**

*Ceroplastes sinensis* Del Guercio, 1900: 3.

**Iran localities.** Gilan, Mazandaran.

**Host plants.** Lythraceae: *Punica granatum*; Rosaceae: *Rosa* sp.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Farahbakhsh (1961), Kaussari (1946, 1957), Kozár (1998), Kozár et al. (1996), Moghaddam (2009, 2010).

**Notes.** This is the first record of *C. sinensis* from the plant family Lythraceae

### ***Coccus hesperidum* Linnaeus**

*Coccus hesperidum* Linnaeus, 1758: 455.



**Iran localities.** Elborz, Esfahan, Fars, Gilan, Golestan, Khuzestan, Markazi, Mazandaran, Sistan & Baluchestan, Tehran.

**Host plants.** Apocynaceae: *Nerium oleander*; Aquifoliaceae: *Ilex* sp.; Asparagaceae: *Yucca baccata*; Fabaceae: *Alhagi camelorum*, *Cercis siliquastrum*, *Robinia pseudo-acacia*; Lauraceae: *Laurus nobilis*; Lycopodiaceae: *Lycopodium clavatum*; Lythraceae: *Punica granatum*; Moraceae: *Ficus benjamina*, *F. carica*, *Morus alba*; Myrsinaceae: *Cyclamen coum*; Nyctaginaceae: *Mirabilis jalapa*; Rosaceae: *Prunus armeniaca*; Rutaceae: *Citrus sinensis*, Ulmaceae: *Ulmus campestris*.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Farahbakhsh (1961), Kausari (1946, 1957), Kozár et al. (1996), Moghaddam (2009, 2010) and Torabi et al. (2010).

**Notes.** These are the first records of *C. hesperidum* from the plant families Aquifoliaceae, Asparagaceae, Lycopodiaceae, Moraceae and Rosaceae.

### ***Coccus pseudomagnoliarum* (Kuwana)**

*Lecanium (Eulecanium) pseudomagnoliarum* Kuwana, 1914: 7.

**Iran localities.** Golestan.

**Host plant.** Rutaceae: *Citrus* sp.

**References.** Ben-Dov (1993), Ben-Dov et al. (2013), Farahbakhsh (1961), Kausari (1946, 1957), Kozár (1998) and Kozár et al. (1996).

### ***Didesmococcus unifasciatus* (Archangelskaya)**

*Physokermes unifasciatus* Archangelskaya, 1923: 265.

**Iran localities.** Azarbaijan -e Sharghi, Kermanshah, Markazi.

**Host plants.** Rosaceae: *Prunus amygdalus*, *P. persica*.

**References.** Ben-Dov et al. (2013), Kozár et al. (1996), Moghaddam (2009) and Moghaddam and Tavakoli (2010).

### ***Eriopeltis festucae* (Boyer de Fonscolombe)**

*Coccus festucae* Boyer de Fonscolombe, 1834: 216.

**Iran localities.** Chaharmahal-Bakhtiari, Mazandaran, Zanjan.

**Host plants.** Poaceae.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Kozár et al. (1996), Moghaddam (2009).

***Eulecanium ficiphilum* Borchsenius**

*Eulecanium ficiphilum* Borchsenius, 1955: 293.

**Iran localities.** Azarbaijan -e Garbi.

**Host plants.** Unknown plant.

**References.** Ben-Dov et al. (2013), Kozár (1998) and Kozár et al. (1996).

***Eulecanium rugulosum* (Archangelskaya)**

*Lecanium rugulosum* Archangelskaya, 1937: 46.

**Iran localities.** Fars, Kermanshah.

**Host plants.** Anacardiaceae: *Pistacia* sp.; Betulaceae: *Corylus avellana*.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1957), Kozár et al. (1996) and Moghaddam (2009).

**Notes.** This is the first record of *E. rugulosum* from the plant family Betulaceae.

***Eulecanium tiliae* (Linnaeus)**

*Coccus tiliae* Linnaeus, 1758: 456. *Eulecanium coryli* Cockerell, 1901 (nomen nudum).

**Iran localities.** Esfahan, Kerman, Kermanshah, Sistan & Balouchestan, Tehran.

**Host plants.** Anacardiaceae: *Pistacia khinjuk*; Rosaceae: *Cydonia oblonga*, *Malus domestica*, *Prunus caspica*, *P. reutri*.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Davoodi et al. (2002), Farahbakhsh (1961), Kaussari (1957), Kozár (1998), Kozár et al. (1996), Moghaddam (2009) and Moghaddam and Tavakoli (2010).

***Exaeretopus tritici* Williams**

*Exaeretopus tritici* Williams, 1977: 281.

**Iran localities.** Lorestan.

**Host plants.** Poaceae: *Hordeum* sp.

**References.** Ben-Dov et al. (2013), Moghaddam (2009), Moghaddam and Azad-bakht (2006) and Moghaddam and Tavakoli (2010).

***Hadzibejliaspis stipae* (Hadzibejli)**

*Exaeretopus stipae* Hadzibejli, 1960: 310.

**Iran localities.** Kermanshah.

**Host plants.** Poaceae.

**References.** Ben-Dov et al. (2013) and Torabi et al. (2010).

***Palaeolecanium bituberculatum* (Signoret)**

*Lecanium bituberculatum* Signoret, 1873a: 414. *Eulecanium bituberculatum* Fernald, 1903 (nomen nudum).

**Iran localities.** Azarbaijan -e Garbi, Azarbaijan -e Sharghi, Esfahan, Kerman, Kermanshah.

**Host plants.** Moraceae: *Morus alba*; Rosaceae: *Crataegus azarollus*, *Malus domestica*.

**References.** Afchar (1937), Ben-Dov et al. (2013), Bodenheimer (1944), Farahbakhsh (1961), Kaussari (1957), Kozár (1998) and Moghaddam (2009).

**Notes.** This is the first record of *P. bituberculatum* from the plant family Moraceae.

***Parthenolecanium corni* (Bouché)**

*Lecanium corni* Bouché, 1844: 298. *Eulecanium corni* Fernald, 1903.

**Iran localities.** Azarbaijan -e Garbi, Tehran.

**Host plants.** Betulaceae: *Corylus avellana*; Oleaceae: *Fraxinus excelsior*; Solanaceae: *Solanum tuberosum*.

**References.** Afchar (1937), Ben-Dov (1993), Ben-Dov et al. (2013), Kaussari (1957), Kozár (1998) and Moghaddam (2009).

**Notes.** This is the first record of *P. corni* from the plant family Solanaceae.

***Parthenolecanium persicae* (Fabricius)**

*Chermes persicae* Fabricius, 1776: 304. *Lecanium persicae* Bouché, 1844.

**Iran localities.** Esfahan, Kermanshah, Tehran.

**Host plants.** Moraceae: *Morus alba*.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Farahbakhsh (1961), Kaussari (1957), Kozár et al. (1996) and Moghaddam (2009).

***Pulvinaria aurantii* Cockerell**

*Pulvinaria aurantii* Cockerell, 1896: 19. *Chloropulvinaria aurantii* Borchsenius, 1952.

**Iran localities.** Gilan, Golestan, Mazandaran, Sistan & Balouchestan.

**Host plants.** Moraceae: *Morus alba*; Myrtaceae: *Psidium guajava*; Rutaceae: *Citrus bigaradia*, *C. sinensis*.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Farahbakhsh (1961), Kaussari (1957), Kozár (1998), Kozár et al. (1996) and Moghaddam (2009, 2010).

**Notes.** These are the first records of *P. aurantii* from the plant families Moraceae and Myrtaceae.

***Pulvinaria floccifera* (Westwood)**

*Coccus flocciferus* Westwood, 1870: 308. *Chloropulvinaria floccifera* Borchsenius, 1952.

**Iran localities.** Mazandaran, Gilan.

**Host plants.** Aquifoliaceae: *Ilex spinigera*; Rosaceae: *Mespilus germanica*.

**References.** Afchar (1937), Ben-Dov et al. (2013), Bodenheimer (1944), Davatchi (1946), Farahbakhsh (1961), Kaussari (1957), Kozár (1998), Kozár et al. (1996) and Moghaddam (2009, 2010).

**● *Pulvinaria gossypii* (Bodenheimer)**

*Filippia gossypii* Bodenheimer, 1944: 89.

**Iran localities.** Sistan & Balouchestan.

**Host plants.** Malvaceae: *Gossypium* sp.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Farahbakhsh (1961), Kaussari (1946, 1957), Kozár (1998) and Kozár et al. (1996).

***Pulvinaria vitis* (Linnaeus)**

*Coccus vitis* Linnaeus, 1758: 455. *Pulvinaria betulae* Signoret, 1873

**Iran localities.** Esfahan, Fars, Gilan, Ilam, Kermanshah, Khorasan -e Razavi, Mazandaran, Tehran, Yazd.

**Host plants.** Betulaceae: *Alnus* sp.; Fabaceae: *Robinia* sp.; Moraceae: *Ficus carica*; Rosaceae: *Pyrus communis*; Salicaceae: *Salix* sp.; Vitaceae: *Vitis persica*.

**References.** Afchar (1937), Ben-Dov et al. (2013), Bodenheimer (1944), Farahbakhsh (1961), Kaussari (1946, 1957), Kozár (1998), Kozár et al. (1996) and Moghaddam (2009, 2010).

**Notes.** These are the first records of *P. vitis* from the plant families Fabaceae and Moraceae.

### ***Rhizopulvinaria artemisiae* (Signoret)**

*Pulvinaria artemisiae* Signoret, 1873: 31. *Rhizopulvinaria minima* Borchsenius, 1952.  
*Rhizopulvinaria virgulata* Borchsenius, 1952.

**Iran localities.** Ardabil, Azarbaijan -e Sharghi, Chaharmahal-Bakhtiari, Esfahan, Fars, Golestan, Kerman, Kermanshah, Kohgilouyeh & Boyerahmad, Kordestan, Lorestan, Yazd and Zanzan.

**Host plants.** Amaranthaceae: *Noaea mucrunata*; Asteraceae: *Achillea* sp., *Echinops ritro*, *Carthamus oxyacantha*; Fabaceae: *Astragalus* sp.; Rosaceae: *Prunus scoparia*.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Farahbakhsh (1961), Kozár (1998), Kozár et al. (1996) and Moghaddam (2001, 2009, 2010).

### ***Rhizopulvinaria turkestanica* (Archangelskaya)**

*Pulvinaria artemisiae turkestanica* Archangelskaya, 1931: 81.

**Iran localities.** Ardebil, Ilam, Kermanshah, Khorasan -e Shomali, Kordestan, Lorestan.

**Host plants.** Amaranthaceae: *Noaea mucronata*; Asteraceae: *Carthamus oxyacantha*.

**References.** Moghaddam and Tavakoli (2010).

### ***Rhodococcus turanicus* (Archangelskaya)**

*Lecanium coryli turanicum* Archangelskaya, 1937: 47.

**Iran localities.** Unknown.

**Host plants.** Unknown plant.

**References.** Ben-Dov et al. (2013), Kozár (1998) and Kozár et al. (1996).

### ***Saissetia coffeae* (Walker)**

*Lecanium coffeae* Walker, 1852: 1079. *Saissetia hemisphaerica* Hall, 1922.

**Iran localities.** Gilan.

**Host plants.** Celastraceae: *Evonymus* sp.; Cycadaceae: *Cycas* sp.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1957) and Kozár et al. (1996).

### ***Saissetia oleae* (Olivier)**

*Coccus oleae* Olivier, 1791: 95.

**Iran localities.** Gilan, Mazandaran, Tehran.

**Host plants.** Apocynaceae: *Nerium oleander*; Oleaceae: *Olea europea*.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1957), Ahmad (1975), Kozár (1998), Kozár et al. (1996) and Moghaddam (2009, 2010).

### ***Sphaerolecanium prunastri* (Boyer de Fonscolombe)**

*Coccus prunastri* Boyer de Fonscolombe, 1834: 211. *Eulecanium prunastri* Fernald, 1903.

**Iran localities.** Azarbaijan -e Sharghi, Esfahan, Tehran, Yazd.

**Host plants.** Rosaceae: *Prunus amygdalus*, *P. reuteri*, *P. scoparia*, *Prunus* sp.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Kaussari (1957), Kozár (1998), Kozár et al. (1996) and Moghaddam (2009, 2010).

### ***Stotzia ephedrae* (Newstead)**

*Lichtensia ephedrae* Newstead, 1901: 83. *Filippia ephedrae* Lindinger, 1912.

**Iran localities.** Esfahan, Fars, Kerman, Yazd.

**Host plants.** Ephedraceae: *Ephedra* sp.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Farahbakhsh (1961), Kaussari (1957), Kozár (1998), Kozár et al. (1996) and Moghaddam (2009).

## **Family DIASPIDIDAE**

### ***Acanthomytilus intermittens* (Hall)**

*Lepidosaphes intermittens* Hall, 1924: 7.

**Iran localities.** Sistan & Balouchestan.

**Host plants.** Poaceae.

**References.** Ben-Dov et al. (2013), Balachowsky (1954), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1955), Kozár and Walter (1985) and Kozár et al. (1996).

● *Acanthomytilus kurdicus* (Bodenheimer)

*Mytilococcus kurdicus* Bodenheimer, 1943: 5.

**Iran localities.** Kohgilouyeh & Boyerahmad, Esfahan, Fars, Gilan, Hormozgan, Sistan & Balouchestan, Tehran.

**Host plants.** Aceraceae: *Acer cinerascens*; Fabaceae: *Prosopis spicigera*.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Borchsenius (1966), Kaussari (1964), Kozár (1998), Kozár et al. (1996), Moghaddam (2004), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

*Aonidiella aurantii* (Maskell)

*Aspidiotus aurantii* Maskell, 1879: 199.

**Iran localities.** Gilan, Golestan, Mazandaran, Tehran.

**Host plants.** Lythraceae: *Punica granatum*; Rosaceae: *Amygdalus persica*; Oleaceae: *Olea europaea*; Rutaceae: *Citrus sinensis*.

**References.** Afchar (1937), Ben-Dov et al. (2013), Bodenheimer (1944), Farahbakhsh (1961), Kaussari (1946, 1955), Kaussari and Farahbakhsh (1968), Kozár et al. (1996), Moghaddam (2004, 2010) and Seghatoleslami (1977).

**Notes.** This is the first record of *A. aurantii* from the plant family Lythraceae.

*Aonidiella citrina* (Coquillett)

*Aspidiotus citrinus* Coquillett, 1891: 29.

**Iran localities.** Gilan, Golestan, Mazandaran.

**Host plants.** Cornaceae: *Cornus* sp.; Rutaceae: *Citrus bigaradia*, *C. limetta*.

**References.** Ben-Dov et al. (2013), CAB International (1997), Farahbakhsh (1961), Kaussari (1955), Kaussari and Farahbakhsh (1968), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010) and Seghatoleslami (1977).

**Notes.** This is the first record of *A. citrina* from the plant family Cornaceae



***Aonidiella orientalis* (Newstead)**

*Aspidiotus orientalis* Newstead, 1894: 26.

**Iran localities.** Bushehr, Fars, Hormozgan, Khouzestan, Sistan & Balouchestan.

**Host plants.** Anacardiaceae: *Mangifera indica*; Apocynaceae: *Calotropis procera*, *Nerium oleander*, *Periploca aphylla*; Arecaceae: *Cocos nucifera*, *Phoenix dactylifera*; Boraginaceae: *Cordia myxa*; Fabaceae: *Albizia julibrissin*, *Ceratonia siliqua*, *Dalbergia sissoo*, *Prosopis spicigera*, *Tamarindus indica*; Lythraceae: *Punica granatum*; Musaceae: *Musa sapientum*; Myrtaceae: *Callistemon lophanthus*, *Myrtus communis*, *Psidium guajava*, *Syzygium aromaticum*; Rhamnaceae: *Ziziphus spina-christi*; Rutaceae: *Citrus bigaradia*, *C. limon*, *C. limetta*, *C. sinensis*; Salicaceae: *Salix* sp.; Sapotaceae: *Manilkara zapota*; Tamaricaceae: *Tamarix indica*.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944, 1944a), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1946a, 1955), Kaussari and Farahbakhsh (1968), Kozár (1998), Kozár et al. (1996), Lindinger (1909), Moghaddam (2004), Rosen and DeBach (1979) and Seghatoleslami (1977).

**Notes.** This is the first record of *A. orientalis* from the plant family Tamaricaceae.

**● *Aspidaspis dentilobus* Kaussari & Balachowsky**

*Aspidaspis dentilobus* Kaussari & Balachowsky, 1953a: 99.

**Iran localities.** Esfahan, Fars, Kerman, Kohgilouyeh & Boyerahmad.

**Host plants.** Polygonaceae: *Atraphaxis spinosa*.

**References.** Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1964, 1955), Kaussari and Balachowsky (1953b), Kaussari and Farahbakhsh (1968), Kozár (1998), Kozár et al. (1996), Moghaddam (2004) and Seghatoleslami (1977).

***Aspidiotus destructor* Signoret**

*Aspidiotus destructor* Signoret, 1869: 120.

**Iran localities.** Khouzestan, Sistan & Balouchestan.

**Host plants.** Arecaceae: *Nannorrhops ritchiana*; Musaceae: *Musa sapientum*.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1955), Kaussari and Farahbakhsh (1968), Kozár (1998) and Moghaddam (2004).

### ***Aspidiotus nerii* Bouché**

*Aspidiotus nerii* Bouché, 1833: 52.

**Iran localities.** Elborz, Esfahan, Fars, Gilan, Markazi, Golestan, Mazandaran, Tehran.

**Host plants.** Apocynaceae: *Nerium oleander*; Araliaceae: *Hedera canariensis*; Arecaceae: *Phoenix* sp.; Asparagaceae: *Asparagus officinalis*; Oleaceae: *Olea europaea*; Orchidaceae: *Maxillaria longipetala*; Pinaceae: *Pinus* sp.; Tamaricaceae: *Tamarix* sp.

**References.** Afchar (1937), Ben-Dov et al. (2013), Bodenheimer (1944), Borchsenius (1966), Davatchi (1946), Farahbakhsh (1961), Kaussari (1946, 1955), Kaussari and Farahbakhsh (1968), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010) and Seghatoleslami (1977).

**Notes.** These are the first records of *A. nerii* from the plant families Asparagaceae and Tamaricaceae.

### ***Aulacaspis phoenicis* (Green)**

*Diaspis phoenicis* Green, 1922: 1014.

**Iran localities.** Unknown.

**Host plants.** Unknown plant.

**References.** Kozár et al. (1996).

### ***Aulacaspis rosae* (Bouché)**

*Aspidiotus rosae* Bouché, 1833: 53.

**Iran localities.** Ardabil, Gilan, Mazandaran, Tehran.

**Host plants.** Rosaceae: *Rosa* sp., *Rubus fruticosus*.

**References.** Afchar (1937), Ben-Dov et al. (2013), Bodenheimer (1944), Borchsenius (1966), Davatchi (1946), Farahbakhsh (1961), Kaussari (1946, 1955), Kozár (1998), Kozár et al. (1996), Miller and Davidson (2005), Moghaddam (2004, 2010) and Seghatoleslami (1977).

### ***Balachowskiella salvadorae* Kaussari**

*Balachowskiella salvadorae* Kaussari, 1955a: 230–232.

**Iran localities.** Hormozgan, Sistan & Balouchestan.

**Host plants.** Salvadoraceae: *Salvadora persica*.

**References.** Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1955a, 1957, 1964), Kozár et al. (1996), Seghatoleslami (1977), Moghaddam (2004) and Takagi and Moghaddam (2005).

### *Carulaspis juniperi* (Bouché)

*Aspidiotus Juniperi* Bouché, 1851: 112.

**Iran localities.** Unknown.

**Host plants.** Unknown plant.

**References.** Ben-Dov et al. (2013), Borchsenius (1966), Kozár (1998), Kozár et al. (1996) and Miller and Davidson (2005).

### *Carulaspis minima* (Signoret)

*Diaspis carueli* Signoret, 1869d: 436. *Carulaspis caruelii* Borchsenius, 1966.

**Iran localities.** Golestan, Mazandaran.

**Host plants.** Cupressaceae: *Cupressus* sp., *Thuja orientalis*; Taxaceae: *Taxus* sp.

**References.** Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1957), Kozár (1998), Kozár et al. (1996), Miller and Davidson (2005), Moghaddam (2004, 2010) and Seghatoleslami (1977).

**Notes.** This is the first record of *C. minima* from the plant family Taxaceae.

### *Carulaspis visci* (Schrank)

*Coccus visci* Schrank, 1781: 296. *Diaspis visci* Löw, 1872.

**Iran localities.** Tehran.

**Host plants.** Cupressaceae: *Thuja* sp.

**References.** Bodenheimer (1944).

### *Chionaspis etrusca* Leonardi

*Chionaspis etrusca* Leonardi, 1908: 184–186.

**Iran localities.** Azarbaijan -e Garbi, Azarbaijan -e Sharghi, Gilan, Kermanshah.

**Host plants.** Tamaricaceae: *Tamarix* sp.

**References.** Ben-Dov et al. (2013), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010) and Moghaddam and Tavakoli (2010).

### ***Chionaspis lepineyi* Balachowsky**

*Chionaspis lepineyi* Balachowsky, 1928: 273–277. *Chionaspis parastigma* Balachowsky, 1954.

**Iran localities.** Chaharmahal-Bakhtiari, Fars, Kohgilouyeh & Boyerahmad, Ilam, Lorestan.

**Host plants.** Fagaceae: *Quercus* sp.

**References.** Balachowsky (1954), Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1955, 1964), Kozár (1998), Kozár et al. (1996), Moghaddam (2004), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

### ***Chionaspis salicis* (Linnaeus)**

*Coccus salicis* Linnaeus, 1758: 456. *Chionaspis polypora* Borchsenius, 1949.

**Iran localities.** Ardabil, Azarbaijan -e Garbi, Azarbaijan -e Sharghi, Gilan, Golestan, Hamadan, Ilam, Mazandaran, Semnan, Tehran.

**Host plants.** Betulaceae *Alnus* sp.; Fagaceae: *Quercus* sp.; Oleaceae: *Fraxinus excelsior*; Salicaceae: *Populus nigra*, *Salix* sp.

**References.** Afchar (1937), Ben-Dov et al. (2013), Bodenheimer (1944), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1946, 1955), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

### ***Chlidaspis asiatica* (Archangelskaya)**

*Chionaspis asiatica* Archangelskaya, 1930a: 93. *Chlidaspis prunorum* Borchsenius, 1949. *Phenacaspis prunorum* Borchsenius, 1939. *Tecaspis asiatica* Balachowsky, 1954. *Tecaspis prunorum* Balachowsky, 1954. *Voraspis adlei* Balachowsky & Kaussari, 1955.

**Iran localities.** Chaharmahal-Bakhtiari, Elborz, Esfahan, Fars, Hamadan, Kerman, Kermanshah, Khorasan -e Shomali, Kordestan, Kohgilouyeh & Boyerahmad, Lorestan, Sistan & Balouchestan, Tehran, Yazd.

**Host plants.** Rosaceae: *Malus domestica*, *Prunus amygdalus*, *P. armeniaca*, *P. domestica*, *P. lycioides*, *P. persica*, *P. scoparia*, *P. spinosa*, *Pyrus amygdaliformis* and *P. communis*.

**References.** Afchar (1937), Archangelskaya (1930), Ben-Dov et al. (2013), Bodenheimer (1944), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1964), Kozár (1998), Kozár et al. (1996), Moghaddam (2004), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

• *Chortinaspis salavatiani* Balachowsky & Kaussari

*Chortinaspis salavatiani* Balachowsky & Kaussari, 1951: 2.

**Iran localities.** Kermanshah, Sistan & Balouchestan.

**Host plants.** Poaceae.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Balachowsky and Kaussari (1951), Kaussari (1955), Kozár (1998), Kozár et al. (1996), Moghaddam (2004), Seghatoleslami (1977) and Torabi et al. (2010).

*Chrysomphalus dictyospermi* (Morgan)

*Aspidiotus dictyospermi* Morgan, 1889: 352.

**Iran localities.** Gilan, Mazandaran, Tehran, Zanjan.

**Host plants.** Apiaceae: *Actinolema eryngioides*; Arecaceae: *Howea forsteriana*, *Phoenix* sp.; Asparagaceae: *Beaucarnea recurvata*, *Dracaena* sp.; Buxaceae: *Buxus hyrcana*; Fabaceae: *Robinia* sp.; Moraceae: *Ficus benjamina*; Oleaceae: *Olea europea*; Pinaceae: *Pinus* sp.; Rutaceae: *Citrus sinensis*; Strelitziaceae: *Strelitzia alba*; Theaceae: *Camellia sinensis*.

**References.** Afchar (1937), Ben-Dov et al. (2013), Bodenheimer (1944), Farahbakhsh (1961), Kaussari (1946, 1955), Kaussari and Farahbakhsh (1968), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010) and Seghatoleslami (1977).

**Notes.** These are the first records of *C. dictyospermi* from the plant families Apiaceae and Asparagaceae.

*Chrysomphalus pinnulifer* (Maskell)

*Diaspis pinnulifera* Maskell, 1891: 4.

**Iran localities.** Unknown.

**Host plants.** Unknown plant.

**References.** Kozár et al. (1996)

• *Contigaspis davatchii* Kaussari

*Contigaspis davatchii* Kaussari, 1959: 131–134.

**Iran localities.** Esfahan, Kohgilouyeh & Boyerahmad.

**Host plants.** Amaranthaceae: *Noaea mucronata*; Asteraceae: *Cousinia* sp.

**References.** Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1959, 1964), Kozár (1998), Kozár et al. (1996), Moghaddam (2004) and Seghatoleslami (1977).

**Notes.** This is the first record of *C. davatchii* from the plant family Amaranthaceae.

### ***Contigaspis farsetiae* (Hall)**

*Cocomytilus farsetiae* Hall, 1926: 23–24. *Eremohallaspis farsetiae* Balachowsky, 1954.

*Artemisaspis farsetiae* Borchsenius & Williams, 1963.

**Iran localities.** Azarbaijan -e Garbi, Esfahan, Kerman, Khorasan -e Razavi, Sistan & Balouchestan.

**Host plants.** Amaranthaceae: *Anabasis* sp., *Salsola* sp., *Seidlitzia rosmarinus*; Asteraceae: *Artemisia abrotanum*; Polygonaceae: *Atraphaxis spinosa*, *Calligonum comosum*; Zygophyllaceae: *Zygophyllum eurypteris*.

**References.** Balachowsky (1954), Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1955), Kozár (1998), Kozár et al. (1996), Moghaddam (2004) and Seghatoleslami (1977).

### ● ***Contigaspis sarkissiani* (Kaussari & Balachowsky)**

*Paragadaspis sarkissiani* Kaussari & Balachowsky in Balachowsky 1954: 162.

**Iran localities.** Esfahan, Golestan, Kerman, Yazd.

**Host plants.** Asteraceae: *Artemisia* sp.; Boraginaceae: *Heliotropium* sp.; Fabaceae: *Astragalus* sp.

**References.** Balachowsky (1954), Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1955, 1964), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010) and Seghatoleslami (1977).

**Notes.** This is the first record of *C. sarkissiani* from the plant family Fabaceae.

### ***Contigaspis zillae* (Hall)**

*Pinnaspis zillae* Hall, 1923: 27–28.

**Iran localities.** Azarbaijan -e Sharghi, Chaharmahal-Bakhtiari, Golestan, Hormozgan, Sistan & Balouchestan, Tehran.

**Host plants.** Amaranthaceae: *Bassia prostrata*; Boraginaceae: *Heliotropium* sp.; Fabaceae: *Indigofera argentea*; Lamiaceae: *Thymus vulgaris*; Rosaceae: *Crataegus azarollus*.

**References.** Ben-Dov et al. (2013), Borchsenius (1966), Borchsenius and Williams (1963), Farahbakhsh (1961), Kaussari (1955), Kozár (1998), Kozár et al. (1996), Moghaddam (2010) and Seghatoleslami (1977).

**Notes.** These are the first records of *C. zillae* from the plant families Lamiaceae and Rosaceae.

### ***Cryptoparlatoresopsis halli* (Bodenheimer)**

*Aonidia halli* Bodenheimer, 1929: 104–105.

**Iran localities.** Kerman, Khorasan -e Shomali, Sistan & Balouchestan.

**Host plants.** Lythraceae: *Punica granatum*; Tamaricaceae: *Tamarix* sp.

**References.** Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1955, 1970), Kozár (1998), Kozár et al. (1996), Moghaddam (2004) and Seghatoleslami (1977).

**Notes.** This is the first record of *C. halli* from the plant family Lythraceae.

### ***Cryptoparlatoresopsis meccae* (Hall)**

*Targionia meccae* Hall, 1927: 263–265.

**Iran localities.** Sistan & Balouchestan.

**Host plants.** Rhamnaceae: *Ziziphus spina-christi*.

**References.** Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1955, 1970), Kozár (1998), Kozár et al. (1996) and Moghaddam (2004).

### ***Cryptoparlatoresopsis tlaiae* (Balachowsky)**

*Aonidia tlaiae* Balachowsky, 1927: 200.

**Iran localities.** Hormozgan, Sistan & Balouchestan.

**Host plants.** Tamaricaceae: *Tamarix* sp.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1955, 1970), Kozár et al. (1996), Moghaddam (2004) and Seghatoleslami (1977).



***Diaspidiotus armenicus* (Borchsenius)**

*Aspidiotus armenicus* Borchsenius, 1935: 132.

**Iran localities.** Azarbaijan -e Sharghi, Chaharmahal-Bakhtiari, Esfahan, Fars, Lorestan, Sistan & Balouchestan, Tehran.

**Host plants.** Salicaceae: *Populus alba*, *Salix* sp.

**References.** Balachowsky (1950a), Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1955), Kaussari and Farahbakhsh (1968), Kozár (1998), Kozár et al. (1996), Moghaddam (2004) and Seghatoleslami (1977).

● ***Diaspidiotus baiati* (Kaussari)**

*Quadraspidotus baiati* Kaussari, 1958: 232.

**Iran localities.** Ardabil, Chaharmahal-Bakhtiari, Fars, Ilam, Khuzestan, Kohgilouyeh & Boyerahmad, Lorestan.

**Host plants.** Ephedraceae: *Ephedra* sp.; Fabaceae: *Astragalus* sp.; Fagaceae: *Castanea sativa*; Thymelaeaceae: *Daphne angustifolia*.

**References.** Ben-Dov et al. (2013), Borchsenius (1966), Kaussari (1958, 1964), Kaussari and Farahbakhsh (1968), Kozár (1998), Kozár et al. (1996), Moghaddam (2004), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

**Notes.** These are the first records of *D. baiati* from the plant families Ephedraceae and Fagaceae.

***Diaspidiotus caucasicus* (Borchsenius)**

*Aspidiotus caucasicus* Borchsenius, 1935: 130.

**Iran localities.** Fars, Kerman, Khorasan -e Shomali, Kohgilouyeh & Boyerahmad, Sistan & Balouchestan.

**Host plants.** Salicaceae: *Salix* sp.

**References.** Ben-Dov et al. (2013), Kaussari and Farahbakhsh (1968), Kozár (1998), Kozár et al. (1996), Moghaddam (2004) and Seghatoleslami (1977).

***Diaspidiotus ceconii* (Leonardi)**

*Hemiberlesia ceconii* Leonardi, 1908: 188. *Quadraspidotus ceconii* Balachowsky, 1950.

**Iran localities.** Azarbaijan -e Garbi, Esfahan, Fars, Hamadan, Kerman, Kordestan.

**Host plants.** Amaranthaceae: *Noaea mucronata*; Rosaceae: *Cotoneaster vulgaris*.

**References.** Ben-Dov et al. (2013), Borchsenius (1966), Kaussari (1955), Kaussari and Farahbakhsh (1968), Kozár (1998), Kozár et al. (1996), Moghaddam (2004), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

**Notes.** This is the first record of *D. cocconii* from the plant family Rosaceae.

### ***Diaspidiotus elaeagni* (Borchsenius)**

*Diaspidiotus elaeagni* Borchsenius, 1939: 35.

**Iran localities.** Kermanshah, Kohgilouyeh & Boyerahmad.

**Host plants.** Fagaceae: *Quercus* sp.; Rosaceae: *Prunus* sp.

**References.** Ben-Dov et al. (2013), Borchsenius (1966), Kozár (1998), Kozár et al. (1996) and Torabi et al. (2010).

**Notes.** This is the first record of *D. elaeagni* from the plant family Fagaceae.

### ***Diaspidiotus farahbakhchi* Kaussari**

*Diaspidiotus farahbakhchi* Kaussari, 1955a: 235.

**Iran localities.** Mazandaran.

**Host plants.** Fagaceae: *Quercus* sp.

**References.** Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1955a, 1957, 1964), Kaussari and Farahbakhsh (1968), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010) and Seghatoleslami (1977).

### **• *Diaspidiotus iranicus* Kaussari & Balachowsky**

*Diaspidiotus iranicus* Kaussari & Balachowsky, 1953: 24.

**Iran localities.** Esfahan, Fars, Kerman, Kermanshah, Khorasan -e Shomali, Kohgilouyeh & Boyerahmad, Sistan & Balouchestan.

**Host plants.** Tamaricaceae: *Tamarix* sp.

**References.** Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari and Balachowsky (1953), Kaussari (1955, 1964), Kaussari and Farahbakhsh (1968), Kozár (1998), Kozár et al. (1996), Moghaddam (2004) and Seghatoleslami (1977).

***Diaspidiotus kaussarii* Balachowsky**

*Diaspidiotus kaussari* Balachowsky, 1950a: 494 (misspelling in Ben-Dov et al. 2013).

**Iran localities.** Azarbaijan -e Sharghi, Kerman, Khorasan -e Shomali, Tehran.

**Host plants.** Salicaceae: *Populus alba*, *Salix* sp.

**References.** Balachowsky (1950a), Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1955, 1964), Kaussari and Farahbakhsh (1968), Kozár (1998), Kozár et al. (1996), Moghaddam (2004) and Seghatoleslami (1977).

***Diaspidiotus laperrinei* (Balachowsky)**

*Aspidiotus (Hemiberlesia) laperrinei* Balachowsky, 1929: 314.

**Iran localities.** Sistan & Balouchestan.

**Host plants.** Polygonaceae: *Calligonum* sp.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1955), Kaussari and Farahbakhsh (1968) and Kozár et al. (1996).

**\**Diaspidiotus lenticularis* (Lindinger)**

*Aspidiotus lenticularis* Lindinger, 1912: 149.

**Iran localities.** Fars.

**Host plants.** Moraceae: *Ficus carica*.

**Notes.** This the first record of *D. lenticularis* from Iran, identified by B. Kaydan.

***Diaspidiotus ostreaeformis* (Curtis)**

*Aspidiotus ostreaeformis* Curtis, 1843a: 805. *Quadraspidiotus ostreaeformis* MacGillivray, 1921.

**Iran localities.** Chaharmahal-Bakhtiari, Mazandaran, Tehran.

**Host plants.** Oleaceae: *Fraxinus excelsior*.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Farahbakhsh (1961), Kaussari (1955), Kozár (1998) and Kozár et al. (1996).

***Diaspidiotus perniciosus* (Comstock)**

*Aspidiotus perniciosus* Comstock, 1881: 304.

**Iran localities.** Ardabil, Gilan, Mazandaran.

**Host plants.** Cucurbitaceae: *Citrullus vulgaris*; Rosaceae: *Malus domestica*, *Prunus* sp., *Rosa* sp.; Salicaceae: *Populus euramericana*, *P. nigra*.

**References.** Ben-Dov et al. (2013), CABI (1986), Kaussari and Farahbakhsh (1968), Kozár et al. (1996), Moghaddam (2004, 2010) and Seghatoleslami (1977).

**Notes.** This is the first record of *D. perniciosus* from the plant family Cucurbitaceae.

**• *Diaspidiotus platychaetae* Takagi & Moghaddam**

*Diaspidiotus platychatae* Takagi & Moghaddam, 2005: 54 (Misspelling of species name in Ben-Dov et al. 2013).

**Iran localities.** Khouzestan.

**Host plants.** Asteraceae: *Platychaeta mucronifolia*.

**References.** Ben-Dov et al. (2013), Takagi and Moghaddam (2005).

***Diaspidiotus prunorum* (Laing)**

*Aspidiotus prunorum* Laing, 1931: 99.

**Iran localities.** Azarbaijan -e Garbi, Azarbaijan -e Sharghi, Chaharmahal-Bakhtiari, Esfahan, Fars, Golestan, Hamadan, Kerman, Kermanshah, Khorasan -e Shomali, Kohgiluyeh & Boyerahmad, Kordestan, Lorestan, Mazandaran, Tehran, Yazd.

**Host plants.** Asteraceae: *Echinops ritro*; Rosaceae: *Malus domestica*, *Persica vulgaris*, *Prunus amygdalus*, *P. armeniaca*, *P. avium*, *P. cerasus*, *P. domestica*, *P. lycioides*, *P. persica*, *A. reuteri* *P. spinosa*, *Rosa* sp.; Tamaricaceae: *Tamarix* sp.

**References.** Balachowsky (1950a), Ben-Dov et al. (2013), Borchsenius (1966), Dastgheyb-Beheshti et al. (1988), Farahbakhsh (1961), Kaussari (1946, 1955), Kaussari and Farahbakhsh (1968), Kozár (1998), Moghaddam (2004, 2010), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

**Notes.** This is the first record of *D. prunorum* from the plant family Tamaricaceae.

***Diaspidiotus pyri* (Lichtenstein)**

*Aspidiotus pyri* Lichtenstein, 1881: lii. *Quadraspidotus pyri* Lupo, 1948.

**Iran localities.** Azarbaijan -e Garbi, Azarbaijan -e Sharghi, Khorasan -e Razavi.

**Host plants.** Rosaceae: *Malus domestica*, *Prunus* sp., *Pyrus communis*.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1946, 1955), Kaussari and Farahbakhsh (1968), Kozár (1998), Kozár et al. (1996), Moghaddam (2004) and Seghatoleslami (1977).

### ***Diaspidiotus slavonicus* (Green)**

*Targionia slavonica* Green, 1934a: 95. *Quadraspidiotus slavonicus* Green, 1934. *Quadraspidiotus populi* Bodenheimer, 1943.

**Iran localities.** Azarbaijan -e Sharghi, Chaharmahal-Bakhtiari, Elborz, Golestan, Khorasan -e Shomali, Lorestan, Markazi, Sistan & Balouchestan.

**Host plants.** Oleaceae: *Fraxinus excelsior*; Salicaceae: *Populus euphratica*, *Salix caprica*.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944, 1944a), Farahbakhsh (1961), Kaussari (1955), Kaussari and Farahbakhsh (1968), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

**Notes.** This is the first record of *D. slavonicus* from the plant family Oleaceae.

### ***Diaspidiotus transcaspensis* (Marlatt)**

*Aspidiotus* (*Diaspidiotus*) *transcaspensis* Marlatt, 1908: 21.

**Iran localities.** Esfahan, Golestan, Kerman.

**Host plants.** Rosaceae: *Cotoneaster kotschyi*, *Prunus armeniaca*; Fagaceae: *Quercus castaneifolia*; Salicaceae: *Populus* sp.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1955), Kaussari and Farahbakhsh (1968), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010) and Seghatoleslami (1977).

**Notes.** This is the first record of *D. transcaspensis* from the plant family Rosaceae.

### ***Diaspidiotus turanicus* (Borchsenius)**

*Aspidiotus turanicus* Borchsenius, 1935: 131.

**Iran localities.** Elborz, Kerman, Khorasan -e Shomali, Lorestan, Tehran, Zanjan.

**Host plants.** Salicaceae: *Populus* sp., *Salix* sp.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1955), Kaussari and Farahbakhsh (1968), Kozár et al. (1996), Moghaddam (2004), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

**\**Diaspidiotus wuenni* (Lindinger)**

*Aspidiotus wuenni* Lindinger, 1923: 147.

**Iran localities.** Kermanshah.

**Host plants.** Fagaceae: *Quercus* sp.

**Notes.** This is the first record of *D. wuenni* from Iran, identified by B. Kayadan.

***Diaspidiotus zonatus* (Frauenfeld)**

*Aspidiotus zonatus* Frauenfeld, 1868: 888.

**Iran localities.** Fars, Kohgilouyeh & Boyerahmad, Kordestan.

**Host plants.** Fagaceae: *Quercus* sp.; Juglandaceae: *Juglans regia*; Moraceae: *Ficus carica*.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1955), Kaussari and Farahbakhsh (1968), Moghaddam (2004), Kozár et al. (1996).

***Diaspis boisduvalii* Signoret**

*Diaspis boisduvalii* Signoret, 1869b: 432–433.

**Iran localities.** Gilan.

**Host plants.** Arecaceae: *Chamaerops* sp.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1957), Kozár (1998), Kozár et al. (1996), Moghaddam (2010) and Seghatoleslami (1977).

**●*Diaspis carmanica* Davatchi & Balachowsky**

*Diaspis carmanicus* Davatchi & Balachowsky, 1956: 106–109.

**Iran localities.** Fars, Kerman.

**Host plants.** Anacardiaceae: *Pistacia khinjuk*.

**References.** Ben-Dov et al. (2013), Davatchi and Balachowsky (1956), Farahbakhsh (1961), Kaussari (1964), Kozár (1998), Kozár et al. (1996) and Seghatoleslami (1977).

***Diaspis echinocacti* (Bouché)**

*Aspidiotus echinocacti* Bouché, 1833: 53. *Diaspis calyptroides* Costa, 1829.

**Iran localities.** Tehran.

**Host plants.** Cactaceae: *Opuntia* sp.

**References.** Ben-Dov et al. (2013) and Bodenheimer (1944).

### ***Diaspis syriaca* Lindinger**

*Diaspis syriaca* Lindinger, 1912: 264.

**Iran localities.** Kermanshah.

**Host plants.** Anacardiaceae: *Pistacia khinjuk*.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1955), Kozár (1998) and Kozár et al. (1996).

### ***Duplachionaspis graminella* (Borchsenius)**

*Chionaspis graminella* Borchsenius, 1949: 348.

**Iran localities.** Ilam, Kerman.

**Host plants.** Poaceae: *Phragmites australis*.

**References.** Balachowsky (1954), Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1955), Kozár (1998), Kozár et al. (1996) and Moghaddam and Tavakoli (2010).

### ***Duplachionaspis natalensis* (Maskell)**

*Chionaspis spartinae natalensis* Maskell, 1896: 390–391. *Duplachionaspis stanotophri* Hall, 1946.

**Iran localities.** Kerman, Sistan & Balouchestan.

**Host plants.** Poaceae: *Cynodon dactylon*, *Phragmites* sp.

**References.** Balachowsky (1954), Ben-Dov et al. (2013), Borchsenius (1966) and Kozár et al. (1996).

### ***Duplachionaspis noaeae* (Hall)**

*Chionaspis noaeae* Hall, 1925: 13–14.

**Iran localities.** Ardabil, Chaharmahal-Bakhtiari, Hormozgan, Lorestan.

**Host plants.** Amaranthaceae: *Noaea mucronata*.

**References.** Moghaddam and Tavakoli (2010).



***Dynaspidiotus abieticola* (Koroneos)**

*Aspidiotus abieticola* Koroneos, 1934: 9.

**Iran localities.** Unknown.

**Host plants.** Pinaceae.

**References.** Ben-Dov et al. (2013) and Kaussari (1954).

***Dynaspidiotus abietis* (Schrank)**

*Coccus abietis* Schrank, 1781: 48.

**Iran localities.** Mazandaran.

**Host plants.** Pinaceae: *Pinus* sp.

**References.** Ben-Dov et al. (2013), Kaussari (1954), Abai (1995) and Moghaddam (2004, 2010).

**• *Dynaspidiotus amygdalicola* (Borchsenius)**

*Diaspidiotus amygdalicola* Borchsenius, 1952: 261.

**Iran localities.** Fars, Ilam, Kerman, Kohgilouyeh & Boyerahmad, Lorestan.

**Host plants.** Rosaceae: *Prunus lycioides*, *P. reuteri*, *P. scoparia*.

**References.** Ben-Dov et al. (2013), Borchsenius (1952, 1966), Farahbakhsh (1961), Kaussari (1955, 1964), Komosinska (1969), Kozár (1998), Moghaddam (2004), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

***Dynaspidiotus atlanticus* (Balachowsky)**

*Hemiberlesia atlantica* Balachowsky, 1928: 125.

**Iran localities.** Unknown.

**Host plants.** Araliaceae: *Hedera helix*.

**References.** Ben-Dov et al. (2013) and Kaussari (1954).

***Dynaspidiotus britannicus* (Newstead)**

*Aspidiotus britannicus* Newstead, 1898: 93.

**Iran localities.** Unknown.

**Host plants.** Aquifoliaceae: *Ilex* sp.; Araliaceae: *Hedera helix*; Asparagaceae: *Ruscus aculeatus*; Buxaceae: *Buxus* sp.; Lauraceae: *Laurus nobilis*.

**References.** Ben-Dov et al. (2013) and Kaussari (1954).

### ***Dynaspidiotus ephedrarum* (Lindinger)**

*Aspidiotus ephedrarum* Lindinger, 1912: 139. *Abgrallaspis ephedrarum* Balachowsky, 1948.

**Iran localities.** Fars, Hormozgan, Kerman, Semnan, Yazd.

**Host plants.** Ephedraceae: *Ephedra* sp.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1955), Kozár (1998), Kozár et al. (1996), Moghaddam (2004) and Seghatoleslami (1977).

### ***Dynaspidiotus ericarum* (Goux)**

*Aspidiotus ericarum* Goux, 1937: 345.

**Iran localities.** Unknown.

**Host plants.** Anacardiaceae: *Pistacia lentiscus*; Ericaceae: *Arbutus unedo*; Myrtaceae: *Myrtus communis*.

**References.** Ben-Dov et al. (2013) and Kaussari (1954).

### **• *Dynaspidiotus medicus* Kaussari**

*Dynaspidiotus medicus* Kaussari, 1956: 102.

**Iran localities.** Kerman, Sistan & Balouchestan.

**Host plants.** Cruciferae: *Sameraria*; Rutaceae: *Haplophyllum* sp.; Solanaceae: *Withania somnifera*.

**References.** Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1956, 1964), Kozár (1998), Kozár et al. (1996) and Seghatoleslami (1977).

**Notes.** This is the first record of *D. medicus* from the plant family Solanaceae.

### **• *Dynaspidiotus spartii* Kaussari**

*Dynaspidiotus spartii* Kaussari, 1954: 82.

**Iran localities.** Gilan, Kermanshah.

**Host plants.** Fabaceae: *Spartium junceum*.

**References.** Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1954, 1957, 1964), Kaussari and Farahbakhsh (1968), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010) and Seghatoleslami (1977).

***Dynaspidiotus tener* (Bazarov & Shmelev)**

*Ephedraspis tenera* Bazarov & Shmelev, 1967: 60.

**Iran localities.** Golestan.

**Host plants.** Ephedraceae: *Ephedra* sp.

**References.** Ben-Dov et al. (2013) and Moghaddam (2000a, 2004, 2010).

***Epidiaspis gennadii* (Leonardi)**

*Diaspis gennadii* Leonardi, 1898: 115.

**Iran localities.** Ghazvin.

**Host plants.** Anacardiaceae: *Pistacia vera*.

**References.** Ben-Dov et al. (2013), Davatchi (1958), Farahbakhsh (1961), Kozár (1998) and Kozár et al. (1996).

***Epidiaspis leperii* (Signoret)**

*Diaspis leperii* Signoret, 1869b: 437–438.

**Iran localities.** Tehran.

**Host plants.** Rosaceae.

**References.** Ben-Dov et al. (2013), Balachowsky (1954), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1955), Kozár (1998), Kozár et al. (1996) and Miller and Davidson (2005).

***Epidiaspis salicis* (Bodenheimer)**

*Thymaspis salicis* Bodenheimer, 1944a: 94–95.

**Iran localities.** Chaharmahal-Bakhtiari.

**Host plants.** Salicaceae: *Salix* sp.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944a), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1955, 1964), Kozár (1998), Kozár et al. (1996) and Seghatoleslami (1977).

***Fiorinia distinctissima* (Newstead)**

*Parlatoria distinctissima* Newstead, 1896: 133–134. *Fiorinia afchari* Bodenheimer, 1944.

**Iran localities.** Hormozgan, Kerman, Sistan & Balouchestan.

**Host plants.** Apocynaceae: *Nerium oleander*, *Periploca aphylla*; Capparaceae: *Capparis decidua*; Solanaceae: *Withania somnifera*.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1955, 1964), Kozár (1998), Kozár et al. (1996) and Seghatoleslami (1977).

**Notes.** These are the first records of *F. distinctissima* from the plant families Capparaceae and Solanaceae.

***Fiorinia phoenicis* Balachowsky**

*Fiorinia phoenicis* Balachowsky, 1967: 771–775.

**Iran localities.** Fars, Hormozgan, Kerman, Sistan & Balouchestan.

**Host plants.** Arecaceae: *Phoenix dactylifera*.

**References.** Balachowsky (1967), Ben-Dov et al. (2013), Kozár (1998) and Takagi and Moghaddam (2005).

**\**Fiorinia proboscidaria* Green**

*Fiorinia proboscidaria* Green, 1900: 256.

**Iran localities.** Sistan & Balouchestan.

**Host plants.** Unknown plant.

**Notes.** This is the first record of *F. proboscidaria* from Iran, identified by M. Moghaddam.

***Froggattiella penicillata* (Green)**

*Odonaspis penicillata* Green, 1905: 346.

**Iran localities.** Gilan.

**Host plants.** Poaceae: *Bambusa* sp.

**References.** Ben-Dov (1988), Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1955, 1970), Kozár (1998), Kozár et al. (1996), Moghaddam (2010) and Seghatoleslami (1977).

● ***Gonaspidotus kaussarii* (Balachowsky)**

*Abgrallaspis kaussarii* Balachowsky, 1959: 211.

**Iran localities.** Semnan, Tehran.

**Host plants.** Unknown plant.

**References.** Balachowsky (1959), Ben-Dov et al. (2013), Farahbakhsh (1961), Kaus-sari and Farahbakhsh (1968), Kozár (1998), Kozár et al. (1996) and Seghatoleslami (1977).

***Hemiberlesia lataniae* (Signoret)**

*Aspidiotus lataniae* Signoret, 1869: 124.

**Iran localities.** Gilan, Mazandaran, Sistan & Balouchestan.

**Host plants.** Buxaceae: *Buxus hyrcana*; Fabaceae: *Inga edulis*; Lauraceae: *Persea americana*.

**References.** Ben-Dov et al. (2013), Kaussari and Farahbakhsh (1968), Kozár (1998), Kozár et al. (1996) and Moghaddam (2004, 2010).

***Hemiberlesia rapax* (Comstock)**

*Aspidiotus rapax* Comstock, 1881: 307. *Aspidiotus camelliae* Signoret, 1869 (nomen nudum). *Hemiberlesia camelliae* Leonardi, 1897 (nomen nudum).

**Iran localities.** Gilan, Mazandaran, Sistan & Balouchestan.

**Host plants.** Celastraceae: *Euonymus japonicus*; Fabaceae: *Robinia* sp.; Moraceae: *Ficus* sp.; Oleaceae: *Olea europea*.

**References.** Ben-Dov et al. (2013), Davatchi (1946), Farahbakhsh (1961), Kaus-sari (1955), Kaussari and Farahbakhsh (1968), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010) and Seghatoleslami (1977).

***Koroneaspis aegilopos* (Koroneos)**

*Lepidosaphes aegilopos* Koroneos, 1934: 74–75.

**Iran localities.** Fars, Kermanshah, Kohgilouyeh & Boyerahmad.

**Host plants.** Fagaceae: *Quercus* sp.

**References.** Balachowsky (1954), Ben-Dov et al. (2013), Borchsenius (1966), Far-ahbakhsh (1961), Kaussari (1955), Kozár (1998) and Kozár et al. (1996).

**\**Koroneaspis lonicerae* Borchsenius**

*Koroneaspis lonicerae* Borchsenius, 1949a: 343–344.

**Iran localities.** Chaharmahal-Bakhtiari, Fars, Kerman, Kohgiluyeh & Boyerahmad.

**Host plants.** Caprifoliaceae: *Lonicera* sp.

**Notes.** This is the first record of *K. lonicerae* from Iran, identified by M. Moghaddam.

***Kuwanaspis howardi* (Cooley)**

*Chionaspis howardi* Cooley, 1898: 88–89.

**Iran localities.** Mazandaran.

**Host plants.** Poaceae: *Bambusa* sp.

**References.** Moghaddam (2003, 2004, 2010).

***Lepidosaphes afganensis* Borchsenius**

*Lepidosaphes afganensis* Borchsenius, 1962: 861.

**Iran localities.** Unknown.

**Host plants.** Unknown plant.

**References.** Ben-Dov et al. (2013), Kozár et al. (1996).

***Lepidosaphes beckii* (Newman)**

*Coccus beckii* Newman, 1869: 217–218.

**Iran localities.** Mazandaran.

**Host plants.** Buxaceae: *Buxus hyrcana*; Rutaceae: *Citrus sinensis*; Theaceae: *Camellia sinensis*.

**References.** Afchar (1937), Ben-Dov et al. (2013), Bodenheimer (1944), Farahbakhsh (1961), Kaussari (1946, 1955), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010) and Seghatoleslami (1977).

**Notes.** This is the first record of *L. beckii* from the plant family Buxaceae.

***Lepidosaphes belutchistana* Balachowsky**

*Lepidosaphes belutchistanus* Balachowsky, 1954: 75–77. *Mytilaspis belutchistanus* Borchsenius, 1963.

**Iran localities.** Hormozgan, Sistan & Balouchestan, Kerman.

**Host plants.** Acanthaceae: *Avicennia officinalis*; Arecaceae: *Nannorrhops ritchiana*; Apocynaceae: *Nerium oleander*, *Periploca aphylla*; Fabaceae: *Acacia* sp., *Prosopis spicigera*.

**References.** Balachowsky (1954), Ben-Dov et al. (2013), Borchsenius (1966), Kaussari (1955, 1964), Farahbakhsh (1961), Kozár (1998), Kozár et al. (1996), Takagi and Moghaddam (2005) and Seghatoleslami (1977).

**Notes.** These are the first records of *L. belutchistana* from the plant families Acanthaceae and Arecaceae.

***Lepidosaphes conchiformis* (Gmelin)**

*Coccus conchiformis* Gmelin, 1790: 2221. *Lepidosaphes ficus* Fernald, 1903. *Lepidosaphes minima* Fernald, 1903. *Mytilaspis conchiformis* Signoret, 1870.

**Iran localities.** Esfahan, Fars, Ghazvin, Golestan, Kerman, Khorasan -e Jonoubi, Sistan & Balouchestan, Tehran.

**Host plants.** Elaeagnaceae: *Elaeagnus angustifolia*; Juglandaceae: *Juglans regia*; Moraceae: *Ficus carica*; Ulmaceae: *Ulmus campestris*.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1946, 1955), Kozár (1998), Kozár et al. (1996), Moghaddam (2004) and Seghatoleslami (1977).

***Lepidosaphes gloverii* (Packard)**

*Aspidiotus gloverii* Packard, 1869: 527.

**Iran localities.** Gilan, Mazandaran.

**Host plants.** Rutaceae: *Citrus* spp.

**References.** Afchar (1937), Ben-Dov et al. (2013), Bodenheimer (1944), Farahbakhsh (1961), Kaussari (1946, 1955), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010) and Seghatoleslami (1977).

***Lepidosaphes granati* Koroneos**

*Lepidosaphes conchiformis granati* Koroneos, 1934: 72–73.



**Iran localities.** Esfahan, Khorasan -e Jonoubi.

**Host plants.** Elaeagnaceae: *Eleagnus* sp.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1955), Kozár (1998) and Kozár et al. (1996).

### ***Lepidosaphes janguai* Balachowsky**

*Lepidosaphes janguai* Balachowsky, 1954: 82–83.

**Iran localities.** Sistan & Balouchestan.

**Host plants.** Tamaricaceae: *Tamarix* sp.

**References.** Ben-Dov et al. (2013), Kaussari (1964) and Kozár et al. (1996).

### ***Lepidosaphes juniperi* Lindinger**

*Lepidosaphes juniperi* Lindinger, 1912: 188. *Mytilococcus juniperi* Bodenheimer, 1943.

**Iran localities.** Hamadan, Tehran.

**Host plants.** Cupressaceae: *Juniperus communis*, *Thuja orientalis*.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1946, 1955), Kozár (1998), Kozár et al. (1996) and Seghatoleslami (1977).

### ***Lepidosaphes malicola* Borchsenius**

*Lepidosaphes malicola* Borchsenius, 1947: 142.

**Iran localities.** Azarbaijan -e Garbi, Azarbaijan -e Sharghi, Chaharmahal-Bakhtiari, Elborz, Esfahan, Fars, Gilan, Hamadan, Kerman, Khorasan -e Razavi, Khorasan -e Shomali, Kohgilouyeh & Boyerahmad, Kordestan, Lorestan, Mazandaran, Tehran.

**Host plants.** Fabaceae: *Astragalus* sp., *Cercis siliquastrum*; Juglandaceae: *Juglans regia*; Lythraceae: *Punica granatum*; Oleaceae: *Fraxinus excelsior*; Rosaceae: *Cotoneaster vulgaris*, *Prunus armeniaca*, *P. persica*, *Prunus* sp.; Salicaceae: *Populus nigra*; Thymelaeaceae: *Daphne angustifolia*; Ulmaceae: *Ulmus* sp.

**References.** Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1955), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

**Notes.** These are the first records of *L. malicola* from the plant families Lythraceae, Thymelaeaceae and Ulmaceae.

***Lepidosaphes newsteadi* (Šulc)**

*Mytilaspis newsteadi* Šulc, 1895: 8–12.

**Iran localities.** Kerman.

**Host plants.** Apocynaceae: *Nerium oleander*.

**References.** Ben-Dov et al. (2013), Danzig and Pellizzari (1998) and Kozár (1998).

**Notes.** This is the first record of *L. newsteadi* from the plant family Apocynaceae.

***Lepidosaphes pallida* (Maskell)**

*Mytilaspis pallida* Maskell, 1895: 46. *Insulaspis maskelli* Borchsenius, 1963.

**Iran localities.** Gilan, Golestan, Sistan & Balouchestan.

**Host plants.** Acanthaceae: *Avicennia officinalis*; Apocynaceae: *Nerium* sp.; Cupressaceae: *Juniperus communis*; Pinaceae: *Pinus* sp.; Rosaceae: *Mespilus germanica*; Taxodiaceae: *Cryptomeria* sp.

**References.** Ben-Dov et al. (2013), Kozár (1998), Kozár et al. (1996), Moghaddam (2010) and Seghatoleslami (1977).

**Notes.** These are the first records of *L. pallida* from the plant families Acanthaceae, Apocynaceae and Rosaceae.

***Lepidosaphes pallidula* (Williams)**

*Insulaspis pallidula* Williams, 1969: 114.

**Iran localities.** Sistan & Balouchestan.

**Host plants.** Myrtaceae: *Psidium guajava*; Solanaceae: *Solanum melongena*.

**References.** Takagi and Moghaddam (2005).

**Notes.** This is the first record of *L. pallidula* from the plant family Solanaceae.

***Lepidosaphes pinnaeformis* (Bouché)**

*Aspidiotus pinnaeformis* Bouché, 1851: 111.

**Iran localities.** Unknown.

**Host plants.** Unknown plant.

**References.** Archangelskaya (1937) and Ben-Dov et al. (2013).

### ***Lepidosaphes pistaciae* Archangelskaya**

*Lepidosaphes pistaciae* Archangelskaya, 1930: 91. *Mytilococcus pistaciae* Bodenheimer, 1943.  
*Pistaciaspis pistaciae* Borchsenius, 1963. *Pistaciapis pistacicola* Borchsenius, 1963.

**Iran localities.** Azarbaijan -e Garbi, Esfahan, Fars, Ghazvin, Ilam, Kerman, Kermanshah, Khorasan -e Razvi, Kohgiluyeh & Boyerahmad, Kordestan, Lorestan, Sistan & Balouchestan, Yazd.

**Host plants.** Anacardiaceae: *Pistacia khinjuk*, *P. mutica*, *P. vera*.

**References.** Archangelskaya (1937), Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1955), Kozár et al. (1996), Moghaddam (2004), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

### ***Lepidosaphes turanica* Archangelskaya**

*Lepidosaphes turanica* Archangelskaya, 1937: 75. *Mytilaspis turanica* (Archangelskaya, 1937).

**Iran localities.** Unknown.

**Host plants.** Unknown plant.

**References.** Ben-Dov et al. (2013), Borchsenius (1966) and Kozár et al. (1996).

### ***Lepidosaphes ulmi* (Linnaeus)**

*Coccus ulmi* Linnaeus, 1758: 455.

**Iran localities.** Ardabil, Azarbaijan -e Garbi, Azarbaijan -e Sharghi, Fars, Gilan, Golestan, Lorestan, Markazi, Mazandaran, Tehran.

**Host plants.** Aceraceae: *Acer* sp.; Betulaceae: *Alnus glutinosa*, *Corylus avellana*; Fabaceae: *Cercis siliquastrum*, *Spartium junceum*; Juglandaceae: *Juglans regia*; Oleaceae: *Fraxinus excelsior*; Rosaceae: *Crataegus ambigua*, *Mespilus germanica*, *Prunus* sp., *Rosa* sp.; Salicaceae: *Populus nigra*, *Salix* sp.; Ulmaceae: *Ulmus carpinifolia*.

**References.** Afchar (1937), Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1946, 1955), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

### ***Leucaspis lowi* Colvée**

*Leucaspis lowi* Colvée, 1882: 10–12.

**Iran localities.** Unknown.

**Host plants.** Unknown plant.

**References.** Ben-Dov et al. (2013), Kozár (1998) and Kozár et al. (1996).

### *Leucaspis pusilla* Löw

*Leucaspis pusilla* Löw, 1883: 3–5.

**Iran localities.** Elborz, Fars, Golestan, Mazandaran, Tehran.

**Host plants.** Pinaceae: *Pinus* sp.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1955, 1970), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010) and Seghatoleslami (1977).

### *Leucaspis riccae* Targioni Tozzetti

*Leucaspis Riccae* Targioni Tozzetti, 1881: 160.

**Iran localities.** Kermanshah, Zanjan.

**Host plants.** Apocynaceae: *Nerium oleander*; Oleaceae: *Olea europea*.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1955, 1970), Kozár et al. (1996), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

### *Lopholeucaspis japonica* (Cockerell)

*Leucaspis japonicus* Cockerell, 1897: 53.

**Iran localities.** Gilan, Hormozgan, Mazandaran, Sistan & Balouchestan.

**Host plants.** Aceraceae: *Acer insigne*; Betulaceae: *Corylus avellana*; Buxaceae: *Buxus hyrcana*; Caprifoliaceae: *Lonicera caprifolium*; Celastraceae: *Euonymus japonicus*; Fabaceae: *Robinia* sp.; Magnoliaceae: *Magnolia grandiflora*; Moraceae: *Ficus bengalensis*, *F. carica*, *F. religiosa*, *Morus alba*; Rosaceae: *Cydonia oblonga*, *Mespilus germanica*, *Rosa* sp.

**References.** Ben-Dov et al. (2013), Kaussari (1970), Kaussari and Farahbakhsh (1968), Kozár et al. (1996), Miller and Davidson (2005), Moghaddam (2004, 2010) and Seghatoleslami (1977).

**Notes.** This is the first record of *L. japonica* from the plant family Buxaceae.

***Melanaspis inopinata* (Leonardi)**

*Aonidiella inopinata* Leonardi, 1913: 63.

**Iran localities.** Azarbaijan -e Sharghi, Bushehr, Fars, Kerman, Kermanshah, Kordestan, Kohgiluyeh & Boyerahmad, Lorestan, Yazd.

**Host plants.** Aceraceae: *Acer cinerascens*; Brassicaceae: *Anabasis* sp.; Anacardiaceae: *Pistacia khinjuk*, *P. mutica*; Euphorbiaceae: *Ricinus communis*; Fabaceae: *Acacia* sp., *Astragalus* sp.; Fagaceae: *Quercus* sp.; Juglandaceae: *Juglans regia*; Oleaceae: *Fraxinus excelsior*; Rosaceae: *Malus domestica*, *Prunus avium*, *Pyrus* sp.; Salicaceae: *Salix* sp.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1955), Kaussari and Farahbakhsh (1968), Kozár (1998), Kozár et al. (1996), Moghaddam (2004), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

**Notes.** These are the first records of *M. inopinata* from the plant families Brassicaceae, Euphorbiaceae and Fagaceae.

● ***Melanaspis louristanus* Balachowsky & Kaussari**

*Melanaspis louristanus* Balachowsky & Kaussari, 1953: 28.

**Iran localities.** Chaharmahal-Bakhtiari, Fars, Ilam, Kermanshah, Kordestan, Khouzestan, Kohgiluyeh & Boyerahmad, Lorestan.

**Host plants.** Fagaceae: *Quercus* sp.

**References.** Balachowsky and Kaussari (1953), Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1964, 1955), Kaussari and Farahbakhsh (1968), Kozár (1998), Kozár et al. (1996), Moghaddam (2004), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

***Mercetaspis bicuspis* (Hall)**

*Lepidosaphes bicuspis* Hall, 1923: 22–23. *Nilotaspis bicuspis* Balachowsky, 1954.

**Iran localities.** Kerman, Sistan & Balouchestan.

**Host plants.** Amaranthaceae: *Suaeda nudiflora*; Sapindaceae: *Stocksia brahuica*; Tamaricaceae: *Tamarix* sp.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1955), Kozár (1998), Kozár et al. (1996) and Seghatoleslami (1977).

**Notes.** These are the first records of *M. bicuspis* from the plant families Amaranthaceae and Sapindaceae.

***Mercetaspis calligoni* (Borchsenius)**

*Haplaspis calligoni* Borchsenius, 1949: 736.

**Iran localities.** Kerman.

**Host plants.** Polygonaceae: *Atraphaxis spinosa*, *Calligonum denticulatum*.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1955), Kozár (1998) and Kozár et al. (1996).

***Mercetaspis halli* (Green)**

*Lepidosaphes (Coccomytilus) halli* Green, 1923: 63. *Nilotaspis halli* Ferris, 1941.

**Iran localities.** Ardabil, Azarbaijan -e Garbi, Azarbaijan -e Sharghi, Chaharmahal-Bakhtiari, Esfahan, Fars, Hamadan, Kerman, Kermanshah, Kohgilouyeh & Boyerahmad, Lorestan, Sistan & Balouchestan, Yazd.

**Host plants.** Anacardiaceae: *Pistacia khinjuk*; Fabaceae: *Astragalus* sp., *Ebenus stellata*; Rosaceae: *Amygdalus communis*, *A. lycioides*, *A. persica*, *A. reuteri*, *A. scoparia*, *Armeniaca vulgaris*, *Prunus amygdalus*, *P. armeniaca*, *P. domestica*, *P. persica*, *P. reuteri*, *P. sorparia*, *P. spinosa*.

**References.** Balachowsky (1954), Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1946, 1955), Kozár (1998), Kozár et al. (1996), Miller and Davidson (2005), Moghaddam (2004), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

**Notes.** This is the first record of *M. halli* from the plant family Anacardiaceae.

***Mercetaspis isis* (Hall)**

*Coccomytilus isis* Hall, 1923: 21–22. *Nilotaspis isis* Hall, 1923.

**Iran localities.** Esfahan, Hormozgan, Kerman.

**Host plants.** Tamaricaceae: *Tamarix* sp.

**References.** Balachowsky (1954), Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1955), Kozár (1998), Kozár et al. (1996), Moghaddam (2004), Seghatoleslami (1977) and Takagi and Moghaddam (2005).

***Mercetaspis sureyanus* (Bodenheimer)**

*Coccomytilus sureyanus* Bodenheimer, 1941: 66.

**Iran localities.** Golestan.

**Host plants.** Fabaceae: *Astragalus* sp.

**References.** Moghaddam (2001, 2010)

***Mongrovaspis quadrispinosa* (Green)**

*Leucaspis quadrispinosa* Green, 1934: 110–111.

**Iran localities.** Sistan & Balouchestan.

**Host plants.** Acanthaceae: *Avicennia officinalis*.

**References.** Takagi and Moghaddam (2005).

***Mycetaspis personata* (Comstock)**

*Aspidiotus personatus* Comstock, 1883: 66.

**Iran localities.** Unknown.

**Host plants.** Unknown plant.

**References.** Kozár et al. (1996).

***Oceanaspidiotus spinosus* (Comstock)**

*Aspidiotus spinous* Comstock, 1883: 70.

**Iran localities.** Sistan & Balouchestan.

**Host plants.** Solanaceae: *Solanum melongena*.

**References.** Ben-Dov et al. (2013) and Takagi and Moghaddam (2005).

***Odonaspis panici* Hall**

*Odonaspis panici* Hall, 1926: 26.

**Iran localities.** Hormozgan.

**Host plants.** Poaceae.

**References.** Ben-Dov et al. (2013), Borchsenius (1966), Ben-Dov (1988), Farahbakhsh (1961), Kaussari (1970), Kozár (1998), Kozár et al. (1996), Moghaddam (2004) and Seghatoleslami (1977).

***Odonaspis secreta* (Cockerell)**

*Aspidiotus secretus* Cockerell, 1896: 20.

**Iran localities.** Gilan.

**Host plants.** Poaceae: *Bambusa* sp.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1955, 1970) and Kozár et al. (1996).

***Parlagena buxi* (Takahashi)**

*Gymnaspis buxi* Takahashi, 1936: 220–222.

**Iran localities.** Unknown.

**Host plants.** Unknown plant.

**References.** Ben-Dov et al. (2013) and Kozár et al. (1996).

**• *Parlagena mckenziei* Balachowsky**

*Parlagena McKenzei* Balachowsky, 1950: 18–20.

**Iran localities.** Bushehr, Esfahan, Hormozgan, Ilam, Khuzestan, Sistan & Balouchestan.

**Host plants.** Fabaceae: *Prosopis stephaniana*; Tamaricaceae: *Tamarix* sp.

**References.** Balachowsky (1950), Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1964, 1970), Kozár (1998), Kozár et al. (1996), Moghaddam (2004), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

**Notes.** This is the first record of *P. mckenziei* from the plant family Fabaceae.

**• *Parlagena remaudierei* Kaussari**

*Parlagena Remaudierei* Kaussari, 1955a: 234–235.

**Iran localities.** Esfahan, Kerman, Kermanshah, Sistan & Balouchestan.

**Host plants.** Convolvulaceae: *Convolvulus* sp.; Lythraceae: *Punica granatum*; Zygophyllaceae: *Zygophyllum eurypeterum*.

**References.** Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1955a, 1957, 1964, 1970), Kozár (1998), Kozár et al. (1996), Moghaddam (2004), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

**Notes.** These are the first records of *P. remaudierei* from the plant families Convolvulaceae and Lythraceae.



***Parlatoareopsis chinensis* (Marlatt)**

*Parlatoria chinensis* Marlatt, 1908: 30–32.

**Iran localities.** Unknown.

**Host plants.** Unknown plant.

**References.** Kozár et al. (1996).

***Parlatoareopsis longispina* (Newstead)**

*Chionaspis longispina* Newstead, 1911: 88–89.

**Iran localities.** Hormozgan, Ilam, Kerman, Kermanshah, Kordestan.

**Host plants.** Lythraceae: *Punica granatum*; Moraceae: *Ficus carica*; Polygonaceae: *Calligonum denticulatum*; Rhamnaceae: *Ziziphus spina-christi*; Rosaceae: *Prunus spinosa*, *Rosa* sp.; Tamaricaceae: *Tamarix* sp.; Zygophyllaceae: *Zygophyllum* sp.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1955, 1970), Kozár (1998), Kozár et al. (1996), Moghaddam (2004), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

**Notes.** This is the first record of *P. longispina* from the plant family Tamaricaceae.

***Parlatoria asiatica* Borchsenius**

*Parlatoria asiatica* Borchsenius, 1949b: 341.

**Iran localities.** Kerman.

**Host plants.** Ephedraceae: *Ephedra* sp.

**References.** Ben-Dov et al. (2013), Borchsenius (1966), Kaussari (1970), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010) and Seghatoleslami (1977).

***Parlatoria blanchardi* (Targioni Tozzetti)**

*Aonidia Blanchardi* Targioni Tozzetti, 1892: 69–82.

**Iran localities.** Bushehr, Fars, Hormozgan, Ilam, Kerman, Sistan & Balouchestan, Yazd.

**Host plants.** Areaceae: *Chamaerops humilis*, *Nannorrhops ritchiana*, *Phoenix dactylifera*.

**References.** Afchar (1937), Ben-Dov et al. (2013), Bodenheimer (1944), Borchsenius (1966), Carpenter and Elmer (1978), Farahbakhsh (1961), Kaussari (1946, 1955, 1970), Kozár (1998), Kozár et al. (1996), Miller and Davidson (2005), Moghaddam (2004), Moghaddam and Tavakoli (2010), Seghatoleslami (1977).

***Parlatoria camelliae* Comstock**

*Parlatoria pergandii camelliae* Comstock, 1883: 114.

**Iran localities.** Unknown.

**Host plants.** Unknown plant.

**References.** Ben-Dov et al. (2013), Kozár (1998) and Kozár et al. (1996).

***Parlatoria crypta* McKenzie**

*Parlatoria crypta* McKenzie, 1943: 156. *Parlatoria morrisoni*, McKenzie, 1943.

**Iran localities.** Bushehr, Fars, Hormozgan, Kerman, Kermanshah, Khuzestan, Sistan & Balouchestan.

**Host plants.** Anacardiaceae: *Mangifera indica*; Apocynaceae: *Calotropis procera*; *Nerium oleander*; Arecaceae: *Phoenix dactylifera*; Asparagaceae: *Yucca baccata*; Boraginaceae: *Cordia* sp.; Convolvulaceae: *Ipomoea* sp.; Fabaceae: *Acacia* sp., *Albizia lebbek*, *Glycyrrhiza glabra*, *Indigofera argentea*; Lythraceae: *Lawsonia inermis*; Meliaceae: *Melia azadirachta*; Moraceae: *Ficus bengalensis*; *Morus alba*; Myrtaceae: *Myrtus communis*; Oleaceae: *Fraxinus excelsior*, *Olea europea*; Polygonaceae: *Calligonum comosum*; Rhamnaceae: *Ziziphus spina-christi*; Rosaceae: *Malus domestica*, *Pyrus communis*, *Rosa* sp.; Rutaceae: *Citrus limonia*.

**References.** Balachowsky (1953), Ben-Dov et al. (2013), Bodenheimer (1944), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1955, 1970), Kozár (1998), Matile-Ferrero (1984), Kozár et al. (1996), Moghaddam (2004) and Seghatoleslami (1977).

**Notes.** These are the first records of *P. crypta* from the plant families Asclepiadaceae, Asparagaceae, Boraginaceae, Convolvulaceae, Fabaceae, Lythraceae, Polygonaceae and Rhamnaceae.

***Parlatoria ephedrae* (Lindinger)**

*Parlatoarea ephedrae* Lindinger, 1911: 129. *Archangelskaia ephedrae* Bodenheimer, 1951.

**Iran localities.** Esfahan, Golestan, Kerman, Sistan & Balouchestan.

**Host plants.** Ephedraceae: *Ephedra* sp.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1955, 1970), Kozár (1998), Kozár et al. (1996), Moghaddam (2004) and Seghatoleslami (1977).

### ***Parlatoria oleae* (Colvée)**

*Diaspis oleae* Colvée, 1880: 40. *Syngenaspis oleae* MacGillivray, 1921.

**Iran localities.** Ardebil, Azarbaijan -e Garbi, Azarbaijan -e Sharghi, Elborz, Esfahan, Fars, Gilan, Golestan, Kerman, Kermanshah, Khorasan -e Razvi, Khorasan -e Shomali, Kohgiluyeh & Boyerahmad, Lorestan, Mazandaran, Sistan & Baluchestan, Tehran, Yazd.

**Host plants.** Anacardiaceae: *Pistacia mutica*, *Rhus coriaria*; Apiaceae: *Heracleum persicum*; Apocynaceae: *Nerium oleander*; Asparagaceae: *Asparagus plumosus*; Berberidaceae: *Berberis vulgaris*; Boraginaceae: *Cordia myxa*; Ebenaceae: *Diospyrus kaki*; Fabaceae: *Astragalus* sp., *Gleditsia* sp., *Robinia pseudo-acacia*; Fagaceae: *Quercus* sp.; Juglandaceae: *Juglans regia*; Lythraceae: *Punica granatum*; Malvaceae: *Hibiscus syriacus*; Oleaceae: *Fraxinus excelsior*, *Jasminum officinalis*, *Olea europea*; Rhamnaceae: *Rhamnus* sp.; Rosaceae: *Cotoneaster vulgaris*, *Crataegus ambigua*, *Cydonia vulgaris*, *Malus domestica*, *Mespilus germanica*, *Persica vulgaris*, *Prunus amygdalus*, *P. armenica*, *P. avium*, *P. caspica*, *Pyrus communis*, *P. persica*, *Rosa damascena*; Rutaceae: *Citrus* sp.; Salicaceae: *Populus tremula*; Ulmaceae: *Ulmus campestris*.

**References.** Afchar (1937), Ben-Dov et al. (2013), Bodenheimer (1944), Borchsenius (1966), Davatchi (1946), Farahbakhsh (1961), Kaussari (1946, 1955, 1970), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

**Notes.** These are the first records of *P. oleae* from the plant families Apiaceae and Fagaceae.

### ***Parlatoria pergandii* Comstock**

*Parlatoria pergandii* Comstock, 1881: 327–328. *Syngenaspis pergandii* MacGillivray, 1921.

**Iran localities.** Gilan, Mazandaran.

**Host plants.** Rosaceae: *Prunus laurocerasus*; Rutaceae: *Citrus bigaradia*, *C. sinensis*.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1946, 1955, 1970), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010) and Seghatoleslami (1977).

### ***Parlatoria proteus* (Curtis)**

*Aspidiotus Proteus* Curtis, 1843: 676.

**Iran localities.** Gilan, Mazandaran.

**Host plants.** Theaceae: *Camellia* sp.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1955, 1970) and Kozár et al. (1996).

***Parlatoria theae* Cockerell**

*Parlatoria theae* Cockerell, 1896: 21.

**Iran localities.** Gilan, Mazandaran.

**Host plants.** Rosaceae: *Prunus* sp., *Rosa* sp.; Theaceae: *Camellia sinensis*.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1955, 1970), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010) and Seghatoleslami (1977).

***Parlatoria ziziphi* (Lucas)**

*Coccus ziziphi* Lucas, 1853: xxix.

**Iran localities.** Gilan, Golestan, Mazandaran.

**Host plants.** Rutaceae: *Citrus* sp.

**References.** Afchar (1937), Ben-Dov et al. (2013), Bodenheimer (1944), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1946, 1955, 1970), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010) and Seghatoleslami (1977).

***Pinnaspis aspidistrae* (Signoret)**

*Chionaspis aspidistrae* Signoret, 1869b: 443.

**Iran localities.** Gilan, Sistan & Balouchestan.

**Host plants.** Arecaceae: *Chamaerops humilis*; Rhamnaceae: *Ziziphus spina-christi*.

**References.** Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1957), Seghatoleslami (1977), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010) and Seghatoleslami (1977).

***Pinnaspis strachani* (Cooley)**

*Hemichionaspis minor strachani* Cooley, 1899: 54–55.

**Iran localities.** Sistan & Balouchestan.

**Host plants.** Fabaceae: *Acacia* sp.; Malvaceae: *Gossypium arboreum*; Rhamnaceae: *Ziziphus spina-christi*.

**References.** Moghaddam (2000).

***Prodiaspis tamaricicola* (Malenotti)**

*Adiscodiaspis tamaricicola* Malenotti, 1916: 313–315. *Adiscodiaspis tamaricicola* Malenotti, 1916. *Rungaspidiotus tamaricicola* Balachowsky, 1953.

**Iran localities.** Azarbaijan -e Garbi, Bushehr, Esfahan, Fars, Khouzestan, Khorasan -e Razavi, Khorasan -e Shomali, Sistan & Balouchestan, Yazd.

**Host plants.** Tamaricaceae: *Tamarix* sp.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1955, 1970), Moghaddam (2004), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

***Pseudaonidia duplex* (Cockerell)**

*Aspidiotus duplex* Cockerell, 1896: 20.

**Iran localities.** Sistan & Balouchestan.

**Host plants.** Anacardiaceae: *Mangifera indica*.

**References.** Moghaddam (2002).

***Pseudaulacaspis pentagona* (Targioni Tozzetti)**

*Diaspis pentagona* Targioni Tozzetti, 1886: 1.

**Iran localities.** Ardabil, Gilan, Golestan, Mazandaran.

**Host plants.** Actinidiaceae: *Actinida chinensis*; Juglandaceae: *Juglans regia*; Moraceae: *Morus alba*; Pinaceae: *Pinus* sp.; Rosaceae: *Prunus persica*; Rutaceae: *Citrus bigaradia*; Salicaceae: *Salix* sp.

**References.** Ben-Dov et al. (2013), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010) and Seghatoleslami (1977).

**Notes.** This is the first record of *P. pentagona* from the plant family Pinaceae.

***Pseudotargionia glandulosa* (Newstead)**

*Aonidia glandulosa* Newstead, 1911: 103.

**Iran localities.** Sistan & Balouchestan.

**Host plants.** Fabaceae: *Acacia farnesiana*.

**References.** Ben-Dov et al. (2013), Moghaddam (2001, 2004), Kaussari (1970) and Kozár (1998).

**• *Pseudotargionia orientalis* Balachowsky & Kaussari**

*Pseudotargionia orientalis* Balachowsky & Kaussari, 1951: 3.

**Iran localities.** Sistan & Balouchestan.

**Host plants.** Bignoniaceae: *Catalpa speciosa*; Fabaceae: *Acacia farnesiana*; Sapindaceae: *Stocksia brahuica*.

**References.** Balachowsky and Kaussari (1951), Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1955, 1964), Kozár (1998), Kozár et al. (1996), Moghaddam (2004) and Seghatoleslami (1977).

**Notes.** These are the first records of *P. orientalis* from the plant families Bignoniaceae and Fabaceae.

***Rhizaspidotus canariensis* (Lindinger)**

*Aspidiotus canariensis* Lindinger, 1911a: 12.

**Iran localities.** Golestan.

**Host plants.** Asteraceae: *Achillea* sp.

**References.** Ben-Dov et al. (2013), Kozár (1998), Kozár et al. (1996) and Moghaddam (2004, 2010).

***Rhizaspidotus secretus* (Borchsenius)**

*Arundaspis secretus* Borchsenius, 1949b: 738.

**Iran localities.** Unknown

**Host plants.** Poaceae.

**References.** Kozár et al. (1996).

**• *Rungaspis avicenniae* Takagi & Moghaddam**

*Rungaspis avicenniae* Takagi & Moghaddam, 2005: 53.

**Iran localities.** Hormozgan, Sistan & Balouchestan.

**Host plants.** Acanthaceae: *Avicennia officinalis*.

**References.** Ben-Dov et al. (2013) and Takagi and Moghaddam (2005).

***Rungaspis capparidis* (Bodenheimer)**

*Diaspis capparidis* Bodenheimer, 1929: 108. *Rungaspis trabuti* Balachowsky, 1949.

**Iran localities.** Hormozgan.

**Host plants.** Acanthaceae: *Avicennia officinalis*.

**References.** Balachowsky (1958), Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1955), Kozár (1998), Kozár et al. (1996), Moghaddam (2004), Seghatoleslami (1977) and Takagi and Moghaddam (2005).

***Rungaspis macrolobis* Kaussari**

*Rungaspis macrolobis* Kaussari, 1958: 229.

**Iran localities.** Esfahan, Hormozgan, Kerman, Sistan & Balouchestan.

**Host plants.** Amaranthaceae: *Anabasis aphylla*; Asclepiadaceae: *Calotropis procera*; Fabaceae: *Robinia* sp.

**References.** Ben-Dov (1980), Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1958, 1964), Kaussari and Farahbakhsh (1968), Kozár (1998), Kozár et al. (1996), Moghaddam (2004) and Seghatoleslami (1977).

**Note.** These are the first records of *R. macrolobis* from the plant families Asclepiadaceae and Fabaceae.

***Salicicola archangelskyae* (Lindinger)**

*Leucaspis archangelskyae* Lindinger, 1929: 113. *Suturaspis archangelskyae* Borchsenius, 1937.

**Iran localities.** Azarbaijan -e Sharghi, Bushehr, Elborz, Esfahan, Fars, Gilan, Kerman, Kermanshah, Kohgiluyeh & Boyerahmad, Lorestan, Tehran.

**Host plants.** Aceraceae: *Acer cinerascens*; Oleaceae: *Fraxinus excelsior*, *Olea europea*; Rosaceae: *Prunus domestica*, *P. reuteri*, *Pyrus communis*; Thymelaeaceae: *Daphne angustifolia*; Ulmaceae: *Celtis australis*.

**References.** Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1946, 1955, 1970), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010) and Seghatoleslami (1977) and Takagi and Moghaddam (2005).

**Note.** These are the first records of *S. archangelskyae* from the plant families Aceraceae and Ulmaceae.

***Salicicola davatchii* Balachowsky & Kaussari**

*Salicicola davatchii* Balachowsky & Kaussari, 1951: 6–7. *Suturaspis davatchi* Borchsenius, 1966. (misspelling in Ben-Dov et al. 2013).

**Iran localities.** Azarbaijan -e Garbi, Fars, Hormozgan, Ilam, Kerman, Kermanshah, Kohgilouyeh & Boyerahmad, Lorestan, Sistan & Balouchestan.

**Hosts.** Anacardiaceae: *Pistacia khinjuk*; Moraceae: *Ficus carica*, *Pistacia mutica*; Rosaceae: *Prunus lycioides*.

**References.** Balachowsky and Kaussari (1951), Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1955, 1964, 1970), Kozár (1998), Kozár et al. (1996), Moghaddam (2004), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

**Note.** This is the first record of *S. davatchii* from the plant family Rosaceae.

***Salicicola kermanensis* (Lindinger)**

*Leucaspis (Salicicola) kermanensis* Lindinger, 1905: 253–254. *Leucaspis kermanensis* Lindinger, 1905.

**Iran localities.** Azarbaijan -e Garbi, Azarbaijan -e Sharghi, Chaharmahal-Bakhtiari, Elborz, Esfahan, Fars, Golestan, Kerman, Khorasan -e Shomali, Khouzestan, Kohgilouyeh & Boyerahmad, Kordestan, Lorestan, Markazi, Sistan & Balouchestan, Yazd.

**Host plants.** Salicaceae: *Populus alba*, *P. euphratica*, *P. nigra*, *Salix babylonica*.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Farahbakhsh (1961), Kaussari (1946, 1955, 1970), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010), Moghaddam and Tavakoli (2010) and Seghatoleslami (1977).

***Salicicola pistaciae* (Lindinger)**

*Leucaspis (Euleucaspis) pistaciae* Lindinger, 1906: 40.

**Iran localities.** Kerman, Kermanshah.

**Host plants.** Anacardiaceae: *Pistacia mutica*.

**References.** Afchar (1937), Ben-Dov et al. (2013), Bodenheimer (1944), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1955, 1970), Kozár (1998), Kozár et al. (1996), Moghaddam (2004) and Seghatoleslami (1977).



***Targionia anabasisidis* (Borchsenius)**

*Pseudomelanaspis minima* Borchsenius, 1952: 262. *Targaspidiotus anabsidis* Borchsenius, 1952.

**Iran localities.** Hormozgan.

**Host plants.** Amaranthaceae: *Anabasis aphylla*.

**References.** Ben-Dov et al. (2013), Borchsenius (1952), Danzig (1993), Farahbakhsh (1961), Kaussari (1955), Kozár (1998) and Kozár et al. (1996).

***Targionia arthrophyti* (Archangelskaya)**

*Aspidiotus (Aonidiella) arthrophyti* Archangelskaya, 1931: 83. *Schizotargionia arthrophyti* Balachowsky.

**Iran localities.** Yazd.

**Host plants.** Amaranthaceae: *Haloxylon* sp.

**References.** Bazarov and Shmelev (1971), Ben-Dov et al. (2013), Borchsenius (1966), Kozár (1998), Kozár et al. (1996) and Moghaddam (2004).

● ***Targionia balachowskyi* (Kaussari)**

*Schizotargionia balachowskyi* Kaussari, 1952: 182.

**Iran localities.** Esfahan, Sistan & Balouchestan.

**Host plants.** Moraceae: *Haloxylon* sp.; Tamaricaceae: *Tamarix* sp.

**References.** Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1952, 1955, 1970), Kozár (1998), Kozár et al. (1996), Moghaddam (2004) and Seghatoleslami (1977).

**Note.** This is the first record of *T. balachowskyi* from the plant family Amaranthaceae.

***Targionia haloxyloni* Hall**

*Targionia haloxyloni* Hall, 1926: 27.

**Iran localities.** Lorestan.

**Host plants.** Fabaceae: *Astragalus* sp.; Thymelaeaceae: *Daphne* sp.

**References.** Ben-Dov et al. (2013), Kaussari (1970), Kozár (1998), Kozár et al. (1996) and Moghaddam and Tavakoli (2010).

***Targionia nigra* Signoret**

*Targionia nigra* Signoret, 1870: 106.

**Iran localities.** Hormozgan, Sistan & Balouchestan.

**Host plants.** Amaranthaceae: *Anabasis* sp.; Resedaceae: *Ochradenus rostratus*, *O. socotrnus*.

**References.** Balachowsky (1951), Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari (1955, 1970), Kozár (1998), Kozár et al. (1996), Moghaddam (2004) and Seghatoleslami (1977).

***Targionia porifera* (Borchsenius)**

*Rhizaspidiotus porifera* Borchsenius, 1949a: 350. *Fisanotargionia quadrilobata* Kaussari & Balachowsky, 1953.

**Iran localities.** Esfahan, Fars, Hormozgan, Kerman, Yazd.

**Host plants.** Amaranthaceae: *Anabasis* sp., *Seidlitzia schweinfurthii*; Asteraceae: *Artemisia* sp.; Zygophyllaceae: *Zygophyllum eurypeterum*.

**References.** Ben-Dov et al. (2013), Borchsenius (1966), Farahbakhsh (1961), Kaussari and Balachowsky (1953), Kaussari (1957, 1964, 1970), Kozár (1998), Kozár et al. (1996), Moghaddam (2004) and Seghatoleslami (1977).

**Note.** These are the first records of *T. porifera* from the plant families Amaranthaceae and Asteraceae.

***Targionia vitis* (Signoret)**

*Aspidiotus vitis* Signoret, 1876: lii.

**Iran localities.** Gilan, Golestan.

**Host plants.** Fagaceae: *Quercus* sp.

**References.** Ben-Dov et al. (2013), Danzig (1993), Farahbakhsh (1961), Kaussari (1955, 1970), Kozár (1998), Kozár et al. (1996), Moghaddam (2004, 2010) and Seghatoleslami (1977).

***Torosapis cedricola* (Balachowsky & Alkan)**

*Acanthomytilus cedricola* Balachowsky & Alkan, 1956: 320.

**Iran localities.** Gilan, Kerman.

**Host plants.** Cupressaceae: *Cupressus* sp.

**References.** Moghaddam (2004, 2010).

● ***Torosapis farsianus* (Balachowsky & Kaussari)**

*Acanthomytilus farsianus* Balachowsky & Kaussari, 1955: 238.

**Iran localities.** Fars.

**Host plants.** Cupressaceae: *Cupressus* sp.

**References.** Balachowsky and Alkan (1956), Balachowsky and Kaussari (1955), Ben-Dov et al. (2013), Borchsenius (1966), Danzig and Pellizzari (1998), Farahbakhsh (1961), Kaussari (1964), Kozár (1998), Kozár et al. (1996), Kozár and Walter (1985), Moghaddam (2004, 2010), Takagi (1970) and Ülgentürk and Kozár (2011).

***Unaspis euonymi* (Comstock)**

*Chionaspis euonymi* Comstock, 1881: 313–314.

**Iran localities.** Gilan.

**Host plants.** Celastraceae: *Euonymus japonicus*.

**References.** Balachowsky (1954), Ben-Dov et al. (2013), Borchsenius (1966), Kozár et al. (1996) and Seghatoleslami (1977).

**Family ERIOCOCCIDAE**

***Acanthococcus araucariae* (Maskell)**

*Eriococcus araucariae* Maskell, 1879: 218.

**Iran localities.** Unknown.

**Host plants.** Araucariaceae: *Araucaria* sp.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961) and Kozár et al. (1996).

***Cryptococcus fagisuga* Lindinger**

*Kermes fagi*; Lindinger, 1936: 444.

**Iran localities.** Gilan, Mazandaran.

**Host plants.** Fagaceae: *Fagus orientalis*.

**References.** Ben-Dov et al. (2013), Kozár et al. (1996) and Moghaddam (2009, 2010).

**•*Eriococcus abaii* (Danzig)**

*Acanthococcus abaii* Danzig, 1990: 373–376.

**Iran localities.** Kerman, Sistan & Balouchestan.

**Host plants.** Amaranthaceae: *Haloxylon aphylla*.

**References.** Ben-Dov et al. (2013), Kozár et al. (1996), Miller and Gimpel (2000), Moghaddam (2009), Moghaddam and Tavakoli (2010) and Tang and Hao (1995).

**\**Eriococcus cingulatus* Kiritchenko**

*Eriococcus cingulatus* Kiritchenko, 1940: 131–133.

**Iran localities.** Azarbaijan -e Sharghi.

**Host plants.** Unknown Plant.

**Note.** This is the first record of *E. cingulatus* from Iran, identified by F. Kozár.

***Eriococcus costatus* (Danzig)**

*Acanthococcus costatus* Danzig, 1975: 43.

**Iran localities.** Kermanshah.

**Host plants.** Ulmaceae: *Ulmus* sp.

**References.** Ben-Dov et al. (2013) and Torabi et al. (2010).

***Eriococcus isacanthus* (Danzig)**

*Acanthococcus isacanthus* Danzig, 1975: 45.

**Iran localities.** Kermanshah.

**Host plants.** Ulmaceae: *Ulmus* sp.

**References.** Ben-Dov et al. (2013) and Torabi et al. (2010).

***Eriococcus kondarensis* (Borchsenius)**

*Rhizococcus kondarensis* Borchsenius, 1949: 353–354.

**Iran localities.** Golestan, Khorasan -e Shomali.

**Host plants.** Poaceae.

**References.** Moghaddam (2001, 2009, 2010)

\**Eriococcus pamiricus* (Bazarov)

*Acanthococcus pamiricus* Bazarov, 1968: 73.

**Iran localities.** Sistan & Balouchestan.

**Host plants.** Unknown plant.

**Note.** This is the first record of *E. pamiricus* in Iran, identified by M. Moghaddam.

\**Eriococcus reynei* Schmutterer

*Eriococcus reynei* Schmutterer, 1952: 414–417.

**Iran localities.** Ghazvin.

**Host plants.** Lamiaceae: *Thymus vulgaris*.

**Notes.** This is the first record of *E. reynei* in Iran, identified by F. Kozár.

\**Eriococcus sanguinairensis* Goux

*Eriococcus sanguinairensis* Goux, 1993: 68–69.

**Iran localities.** Ardabil.

**Host plants.** Unknown plant.

**Note.** This is the first record of *E. sanguinairensis* in Iran, identified by F. Kozár.

\**Eriococcus saxidesertus* (Borchsenius)

*Acanthococcus saxidesertus* Borchsenius, 1949: 343.

**Iran localities.** Ardabil.

**Host plants.** Unknown plant.

**Note.** This is the first record of *E. saxidesertus* in Iran, identified by F. Kozár.

*Eriococcus spurius* (Modeer)

*Coccus spurius* Modeer, 1778: 43. *Gossyparia spuria* Cockerell, 1899.

**Iran localities.** Esfahan, Fars, Golestan, Hamadan, Kerman, Markazi.

**Host plants.** Ulmaceae: *Ulmus carpenifolia*.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Farahbakhsh (1961), Hoy (1963), Kaussari (1946, 1957), Kozár (1998), Kozár et al. (1996), Moghaddam (2009, 2010) and Moghaddam and Tavakoli (2010).

### ***Neoacanthococcus tamaricicola* Borchsenius**

*Neoacanthococcus tamaricicola* Borchsenius, 1948: 502–503.

**Iran localities.** Khuzestan.

**Host plants.** Tamaricaceae: *Tamarix* sp.

**References.** Moghaddam (2009).

### ***Pseudochermes fraxini* (Kaltenbach)**

*Chermes fraxini* Kaltenbach, 1860: 259. *Fonscolombea fraxini* Cockerell, 1899.

**Iran localities.** Tehran.

**Host plants.** Oleaceae: *Fraxinus excelsior*.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Hoy (1963) and Kozár et al. (1996).

## **Family KERMESIDAE**

### ***Kermes quercus* (Linnaeus)**

*Coccus quercus* Linnaeus, 1758: 455. *Kermococcus quercus* Henriksen, 1921: 308.

**Iran localities.** Ilam, Kermanshah.

**Host plants.** Fagaceae: *Quercus* sp.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kozár et al. (1996), Moghaddam (2009) and Moghaddam and Tavakoli (2010).

### ***Nidularia balachowskii* Bodenheimer**

*Nidularia balachowskii* Bodenheimer, 1941: 78–80.

**Iran localities.** Kermanshah, Lorestan.

**Host plants.** Fagaceae: *Quercus* sp.

**References.** Ben-Dov et al. (2013) and Bodenheimer (1941, 1944).

**Family MARGARODIDAE**

● ***Porphyrophora chelodonta* Vahedi**

*Porphyrophora chelodonta* Vahedi in Vahedi and Hodgson 2007: 40.

**Iran localities.** Kermanshah.

**Host plants.** Unknown plant.

**References.** Ben-Dov et al. (2013) and Vahedi and Hodgson (2007).

***Porphyrophora cynodontis* (Archangelskaya)**

*Margarodes cynodontis* Archangelskaya, 1935: 15.

**Iran localities.** Azarbaijan -e Sharghi.

**Host plants.** Poaceae: *Cynodon dactylon*.

**References.** Ben-Dov et al. (2013), Kozár et al. (1996), Moghaddam (2009), Torabi et al. (2010), Vahedi (2002) and Vahedi and Hodgson (2007).

***Porphyrophora hamelii* Brandt**

*Porphyrophora hamelii* Brandt in Brandt and Ratzeburg 1833: 356.

**Iran localities.** Ardabil, Hamadan.

**Host plants.** Poaceae.

**References.** Ben-Dov et al. (2013), Kaussari (1957), Kozár et al. (1996), Vahedi (2002) and Vahedi and Hodgson (2007).

● ***Porphyrophora jashenkoi* Vahedi**

*Porphyrophora jashenkoi* Vahedi in Vahedi and Hodgson 2007: 68.

**Iran localities.** Kermanshah.

**Host plants.** Poaceae: *Triticum vulgare*.

**References.** Ben-Dov et al. (2013) and Vahedi and Hodgson (2007).

***Porphyrophora medicaginis* Jashenko**

*Porphyrophora medicaginis* Jashenko, 1994: 22.

**Iran localities.** Azarbaijan -e Sharghi, Kerman.

**Host plants.** Fabaceae: *Medicago sativa*.

**References.** Ben-Dov et al. (2013), Moghaddam (2009) and Vahedi and Hodgson (2007).

***Porphyrophora tritici* (Bodenheimer)**

*Margarodes tritici* Bodenheimer, 1941: 81.

**Iran localities.** Ardabil, Hamadan, Kermanshah, Kordestan, Zanjan.

**Host plants.** Poaceae: *Triticum aestivum*.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kozár et al. (1996), Moghaddam (2009), Moghaddam and Tavakoli (2010), Safar Alizadeh and Bahador (1987), Torabi et al. (2010), Vahedi (2001), Vahedi and Gholami Mahfar (2010) and Vahedi and Hodgson (2007).

**\**Porphyrophora victoriae* Jashenko**

*Porphyrophora victoriae* Jashenko, 1994: 36.

**Iran localities.** Markazi.

**Host plants.** Brassicaceae: *Cardaria draba*.

**Note.** This the first record of *P. victoriae* from Iran, identified by R. Jashenko.

**Family MONOPHLEBIDAE*****Drosicha turkestanica* Archangelskaya**

*Drosicha turkestanica* Archangelskaya, 1931: 69.

**Iran localities.** Khorasan -e Razvi.

**Host plants.** Oleaceae: *Fraxinus* sp.

**References.** Moghaddam (2009).



***Gueriniella serratulae* (Fabricius)**

*Coccus serratulae* Fabricius, 1775: 744.

**Iran localities.** Kermanshah, Lorestan.

**Host plants.** Unknown plant.

**References.** Moghaddam and Tavakoli (2010).

***Icerya purchasi* Maskell**

*Icerya purchasi* Maskell, 1879: 221.

**Iran localities.** Fars, Mazandaran, Tehran.

**Host plants.** Aceraceae: *Acer* sp.; Fabaceae: *Glycine max*; Rutaceae: *Citrus* sp.; Thymelaeaceae: *Daphne odora*.

**References.** Afchar (1937), Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1946, 1957), Kozár et al. (1996) and Moghaddam (2009).

***Pseudaspidopectus gramineus* Jashenko & Danzig**

*Pseudaspidopectus gramineus* Jashenko & Danzig, 1992: 89.

**Iran localities.** Unknown.

**Host plants.** Poaceae.

**References.** Kozár et al. (1996).

***Pseudaspidopectus hyphaeniacus* (Hall)**

*Aspidoproctus hyphaeniacus* Hall, 1925: 1.

**Iran localities.** Sistan & Balouchestan.

**Host plants.** Arecaceae: *Phoenix dactylifera*.

**References.** Moghaddam (2009).

**Family ORTHEZIIDAE*****Orthezia urticae* (Linnaeus)**

*Aphis urticae* Linnaeus, 1758: 453.

**Iran localities.** Ardebil, Azarbaijan -e Garbi, Azarbaijan -e Sharghi, Chaharmahal-Bakhtiari, Esfahan, Fars, Golestan, Hamadan, Ilam, Kerman, Kermanshah, Khorasan -e Jonoubi, Khorasan -e Shomali, Kohgilouyeh & Boyerahmad, Kordestan, Lorestan, Sistan & Balouchestan, Zanjan.

**Host plants.** Apiaceae: *Eryngium bungei*; Asteraceae: *Artemisia* sp., *Gundelia* sp., *Echinops ritro*, *E. persicae*; Fabaceae: *Astragalus* sp.; Thymelaeaceae: *Daphne angustifolia*.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Moghaddam (2009) and Moghaddam and Tavakoli (2010).

**Family PHOENICOCOCCIDAE*****Phoenicococcus marlatti* Cockerell**

*Phoenicococcus marlatti* Cockerell, 1899: 262.

**Iran localities.** Kerman, Kermanshah, Hormozgan, Sistan & Balouchestan, Yazd.

**Host plants.** Arecaceae: *Phoenix dactylifera*.

**References.** Afchar (1937), Ben-Dov et al. (2013), Farahbakhsh (1961), Kaussari (1946), Moghaddam (2004) and Seghatoleslami (1977).

**Family PSEUDOCOCCIDAE*****Adelosoma phragmitidis* Borchsenius**

*Adelosoma phragmitidis* Borchsenius, 1948a: 584.

**Iran localities.** Unknown.

**Host plants.** Poaceae.

**References.** Ben-Dov et al. (2013), Kozár et al. (1996) and Moghaddam (2013).

***Antonina crawi* Cockerell**

*Antonina crawi* Cockerell, 1900: 70.

**Iran localities.** Gilan.

**Host plants.** Poaceae: *Bambusa* sp.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kozár et al. (1996) and Moghaddam (2013).

### *Antonina graminis* (Maskell)

*Sphaerococcus graminis* Maskell, 1897: 244.

**Iran localities.** Bushehr, Khouzestan.

**Host plants.** Poaceae: *Poa* sp., *Saccharum officinarum*.

**References.** Ben-Dov (1994), Ben-Dov et al. (2013), Hendricks and Kosztarab M. (1999), Kozár et al. (1996), Moghaddam (2006, 2009, 2013) and Williams (1970).

### *Brevennia rehi* (Lindinger)

*Ripersia rehi* Lindinger, 1943: 152.

**Iran localities.** Khouzestan.

**Host plants.** Poaceae: *Echinochloa crus-galli*, *Oryza sativa*.

**References.** Asadeh and Mosaddegh (1991), Ben-Dov et al. (2013), Kozár et al. (1996) and Moghaddam (2006, 2009, 2013).

### *Ceroputo pilosellae* Šulc

*Ceroputo pilosellae* Šulc, 1898: 2. *Phenacoccus euphorbiaefolius* Bodenheimer, 1943.

**Iran localities.** Azarbaijan -e Garbi, Hamadan, Ilam, Kermanshah.

**Host plants.** Euphorbiaceae: *Euphorbia* sp.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Kaussari (1957), Kozár et al. (1996) and Moghaddam (2009, 2013).

### • *Chorizococcus viticola* Kaydan & Kozár

*Chorizococcus viticola* Kaydan & Kozár in Fallahzadeh et al. 2010: 158.

**Iran localities.** Fars.

**Host plants.** Vitaceae: *Vitis vinifera*.

**References.** Ben-Dov et al. (2013), Fallahzadeh et al. (2010) and Moghaddam (2013).

● ***Coccidobystrix burumandi* Moghaddam**

*Coccidobystrix burumandi* Moghaddam in Moghaddam and Alikhani 2009: 175.

**Iran localities.** Markazi.

**Host plants.** Euphorbiaceae: *Euphorbia* sp.

**References.** Ben-Dov et al. (2013), Moghaddam and Alikhani (2009) and Moghaddam (2013).

***Dysmicoccus boninsis* (Kuwana)**

*Dactylopius (Pseudococcus) boninsis* Kuwana, 1909: 161.

**Iran localities.** Khuzestan.

**Host plants.** Asteraceae: *Lactuca* sp.

**References.** Asadeh and Mosaddegh (1991), Ben-Dov et al. (2013), Kozár et al. (1996) and Moghaddam (2006, 2009, 2013).

**Note.** This is the first record of *D. boninsis* from the plant family Asteraceae.

***Dysmicoccus brevipes* (Cockerell)**

*Dactylopius brevipes* Cockerell, 1893: 267.

**Iran localities.** Sistan & Balouchestan.

**Host plants.** Fabaceae: *Medicago sativa*.

**References.** Ben-Dov et al. (2013) and Moghaddam (1999, 2004a, 2006, 2009, 2013).

***Eurycoccus tamariscus* Williams**

*Eurycoccus tamariscus* Williams, 1984: 538.

**Iran localities.** Sistan & Balouchestan.

**Host plants.** Tamaricaceae: *Tamarix* sp.

**References.** Ben-Dov et al. (2013), Moghaddam (2009, 2013) and Williams and Moghaddam (2007).

● ***Exallomochlus balouchestanensis* Moghaddam**

*Exallomochlus balouchestanensis* Moghaddam, 2013: 25.

**Iran localities.** Sistan & Balouchestan.

**Host plants.** Anacardiaceae: *Mangifera indica*.

**References.** Moghaddam (2013).

***Ferrisia virgata* (Cockerell)**

*Dactylopius virgatus* Cockerell, 1893: 178.

**Iran localities.** Sistan & Balouchestan.

**Host plants.** Boraginaceae: *Cordia myxa*; Moraceae: *Ficus carica*, *F. religiosa*; Myrtaceae: *Myrtus communis*, *Psidium guajava*.

**References.** Ben-Dov et al. (2013) and Moghaddam (2004a, 2006, 2009, 2013).

***Formicococcus robustus* (Ezzat & McConnell)**

*Planococcoides robustus* Ezzat & McConnell, 1956: 59.

**Iran localities.** Hormozgan.

**Host plants.** Fabaceae: *Prosopis spicigera*.

**References.** Ben-Dov et al. (2013) and Moghaddam (2004a, 2006, 2009, 2013).

***Kiritschenkella sacchari* (Green)**

*Ripersia sacchari* Green, 1900a: 37.

**Iran localities.** Khouzestan.

**Host plants.** Poaceae: *Saccharum officinarum*.

**References.** Ben-Dov et al. (2013), Kozár et al. (1996) and Moghaddam (2009, 2013).

***Maconellicoccus hirsutus* (Green)**

*Phenacoccus hirsutus* Green, 1908: 25.

**Iran localities.** Fars, Hormozgan, Sistan & Balouchestan.

**Host plants.** Anacardiaceae: *Mangifera indica*; Arecaceae: *Phoenix dactylifera*; Combretaceae: *Terminalia catappa*; Convolvulaceae: *Ipomoea* sp.; Fabaceae: *Acacia arabica*, *Albizzia* sp., *Prosopis* sp., *P. spicigera*; Lythraceae: *Lawsonia inermis*; Malvaceae: *Hibiscus rosa-sinensis*, *H. syriacus*; Moraceae: *Ficus riligiosa*, *Morus alba*; Myrtaceae:

*Psidium guajava*, *Syzygium aromaticum*; Rhamnaceae: *Ziziphus spina-christi*; Rutaceae: *Citrus sinensis*; Salicaceae: *Salix* sp.; Tamaricaceae: *Tamarix* sp.

**References.** Ben-Dov et al. (2013), Fallahzadeh et al. (2007) and Moghaddam (2006, 2009, 2013).

**Note.** This is the first record of *M. hirsutus* from the plant family Tamaricaceae.

### ***Nipaecoccus filamentosus* (Cockerell)**

*Dactylopius filamentosus* Cockerell, 1893a: 254.

**Iran localities.** Ghazvin.

**Host plants.** Moraceae: *Ficus* sp.

**References.** Kaussari (1957) and Kozár et al. (1996).

### ***Nipaecoccus viridis* (Newstead)**

*Dactylopius viridis* Newstead, 1894: 5.

**Iran localities.** Bushehr, Fars, Hormozgan, Khuzestan, Kerman, Sistan & Balouchestan.

**Host plants.** Acanthaceae: *Avicennia officinalis*; Apocynaceae: *Nerium oleander*; Fabaceae: *Prosopis spicigera*; Moraceae: *Morus alba*; Rhamnaceae: *Ziziphus spina-christi*; Rutaceae: *Citrus bigaradia*, *C. sinensis*; Tamaricaceae: *Tamarix* sp.; Ulmaceae: *Ulmus* sp.

**References.** Asadeh and Mosaddegh (1991), Ben-Dov (1994), Ben-Dov et al. (2013), Kozár et al. (1996) and Moghaddam (2006, 2009, 2013).

### ***Paracoccus burnerae* (Brain)**

*Pseudococcus burnerae* Brain, 1915: 111.

**Iran localities.** Sistan & Balouchestan.

**Host plants.** Acanthaceae: *Avicennia officinalis*.

**References.** Moghaddam (2013).

### ***Peliococcopsis priesneri* (Laing)**

*Phenacoccus priesneri* Laing, 1936: 80.

**Iran localities.** Fars.

**Host plants.** Poaceae: *Cynodon dactylon*.

**References.** Ben-Dov et al. (2013) and Moghaddam (2006, 2009, 2013).

● ***Peliococcus ilamicus* Moghaddam**

*Peliococcus ilamicus* Moghaddam, 2013: 39.

**Iran localities.** Ilam.

**Host plants.** Fabaceae: *Prosopis stephaniana*.

**References.** Moghaddam (2013).

● ***Peliococcus kimmericus* (Kiritshenko)**

*Phenacoccus kimmericus* Kiritchenko, 1940: 189.

**Iran localities.** Fars, Khuzestan.

**Host plants.** Amaranthaceae: *Noaea* sp.; Fabaceae: *Prosopis stephaniana*.

**References.** Ben-Dov et al. (2013), Kozár et al. (1996) and Moghaddam (2006, 2009, 2013).

**Note.** This is the first record of *P. kimmericus* from the plant family Amaranthaceae.

***Peliococcus talhouki* Matile-Ferrero**

*Peliococcus talhouki* Matile-Ferrero, 1984: 225.

**Iran localities.** Khuzestan, Yazd.

**Host plants.** Fabaceae: *Prosopis farcata*; Moraceae: *Morus alba*.

**References.** Ben-Dov et al. (2013), Kozár et al. (1996) and Moghaddam (2009, 2013).

***Peliococcus turanicus* (Kiritshenko)**

*Phenacoccus turanicus* Kiritshenko, 1932: 137.

**Iran localities.** Tehran.

**Host plants.** Brassicaceae: *Rhaphanus sativus*.

**References.** Moghaddam (2002, 2009).

***Phenacoccus aceris* (Signoret)**

*Pseudococcus aesculi* Signoret, 1875: 329.

**Iran localities.** Kermanshah, Tehran.

**Host plants.** Asteraceae: *Echinops ritro*; Moraceae: *Morus alba*; Rosaceae: *Crataegus azarollus*.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Farahbakhsh (1961), Kozár et al. (1996), Moghaddam (2009, 2010, 2013) and Moghaddam and Tavakoli (2010).

***Phenacoccus arthrophyti* Archangelskaya**

*Phenacoccus arthrophyti* Archangelskaya, 1930: 78.

**Iran localities.** Yazd.

**Host plants.** Amaranthaceae: *Haloxylon* sp.

**References.** Ben-Dov et al. (2013) and Moghaddam (2003, 2009, 2010, 2013).

**● *Phenacoccus betae* Moghaddam**

*Phenacoccus betae* Moghaddam, 2010a: 65–67.

**Iran localities.** Kermanshah, Markazi.

**Host plants.** Amaranthaceae: *Amaranthus blitoides*, *Beta vulgaris*.

**References.** Ben-Dov et al. (2013) and Moghaddam (2010a, 2013).

***Phenacoccus hordei* (Lindeman)**

*Westwoodia hordei* Lindeman, 1886: 367.

**Iran localities.** Tehran.

**Host plants.** Poaceae.

**References.** Moghaddam (2013).

**● *Phenacoccus karkasicus* Moghaddam**

*Phenacoccus karkasicus* Moghaddam, 2013: 52.



**Iran localities.** Esfahan.

**Host plants.** Berberidaceae: *Berberis vulgaris*.

**References.** Moghaddam (2013).

● ***Phenacoccus iranica* Moghaddam**

*Phenacoccus iranica* Moghaddam, 2013: 54.

**Iran localities.** Kerman.

**Host plants.** Aceraceae: *Acer cinerascens*.

**References.** Moghaddam (2013).

***Phenacoccus perillustris* Borchsenius**

*Phenacoccus perillustris* Borchsenius, 1949: 215.

**Iran localities.** Esfahan.

**Host plants.** Berberidaceae: *Berberis vulgaris*.

**References.** Ben-Dov et al. (2013) and Moghaddam (2010, 2013).

***Phenacoccus pumilus* Kiritchenko**

*Phenacoccus pumilus* Kiritchenko, 1931: 314.

**Iran localities.** Bushehr, Markazi, Sistan & Balouchestan, Yazd.

**Host plants.** Amaranthaceae: *Halocharis sulphurea*; Asteraceae: *Centaurea virgata*; Brassicaceae: *Descuriana sophia*, *Lepidium latifolium*; Fabaceae: *Alhagi cameorum*; Geraniaceae: *Erodium neuradifolium*; Lamiaceae: *Salvia bracteata*.

**References.** Moghaddam (2013).

● ***Phenacoccus salviacus* Moghaddam**

*Phenacoccus salviacus* Moghaddam in Moghaddam and Alikhani 2010: 14.

**Iran localities.** Markazi.

**Host plants.** Lamiaceae: *Salvia bracteata*.

**References.** Ben-Dov et al. (2013), Moghaddam (2010, 2013) and (Moghaddam and Alikhani (2010).

**● *Phenacoccus sherbinovskyi* Bodenheimer**

*Phenacoccus sherbinovskyi* Bodenheimer, 1943: 32.

**Iran localities.** Sistan & Balouchestan.

**Host plants.** Lamiaceae: *Rydingia persica*.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Kaussari (1957), Kozár et al. (1996) and Moghaddam (2013).

***Phenacoccus solani* Ferris**

*Phenacoccus solani* Ferris, 1918: 60.

**Iran localities.** Esfahan, Fars.

**Host plants.** Amaranthaceae: *Celosia cristata*; Asteraceae: *Chrysanthemum morifolium*; Poaceae: *Festuca arundinacea*.

**References.** Ben-Dov et al. (2013), Moghaddam (2006, 2009, 2010, 2013), Moghaddam and Alikhani (2010) and Moghaddam et al. (2004).

***Phenacoccus solenopsis* Tinsley**

*Phenacoccus solenopsis* Tinsley, 1898: 47.

**Iran localities.** Bushehr, Hormozgan.

**Host plants.** Malvaceae: *Hibiscus rosa-sinensis*.

**References.** Ben-Dov et al. (2013), Moghaddam (2013) and Moghaddam and Bagheri (2011).

***Phenacoccus turanicus* Kiritchenko, 1932: 137.**

**Iran localities.** Esfahan, Markazi, Tehran.

**Host plants.** Brassicaceae: *Descurainia sophia*, *Raphanus sativus*; Fabaceae: *Astragalus* sp.

**References.** Ben-Dov et al. (2013) and Moghaddam (2009, 2013).

***Planococcus citri* (Risso)**

*Dortheisia citri* Risso, 1813: 416. *Pseudococcus citri* Cockerell, 1902.

**Iran localities.** Fars, Gilan, Golestan, Khouzestan, Markazi, Mazandaran, Tehran.

**Host plants.** Apocynaceae: *Adenium obesum*, *Nerium oleander*; Arecaceae: *Chamycyparis lawsoniana*; Caryophyllaceae: *Dianthus barbatus*; Crassulaceae: *Crassula* sp.; Cupressaceae: *Cupressus* sp.; Ebenaceae: *Diospyros kaki*; Euphorbiaceae: *Codiaeum variegatum*, *Euphorbia pulcherrima*; Moraceae: *Ficus benjamina*, *F. carica*, *F. elastica*, *Morus alba*; Oleaceae: *Forsythia intermedia*, *Fraxinus excelsior*; Platanaceae: *Platanus orientalis*; Poaceae: *Oryza sativa*; Rutaceae: *Citrus bigaradia*, *C. sinensis*; Rosaceae: *Rosa* sp.; Strelitziaceae: *Strelitzia alba*.

**References.** Afchar (1937), Asadeh and Mosaddegh (1991), Ben-Dov et al. (2013), Bodenheimer (1944), Farahbakhsh (1961), Kozár et al. (1996), Moghaddam (2006, 2009, 2010, 2013), William and Moghaddam (1999).

**Note.** These are the first records of *P. citri* from the plant families Caryophyllaceae, Crassulaceae and Cupressaceae.

### ***Planococcus ficus* (Signoret)**

*Dactylopius ficus* Signoret, 1875: 315. *Pseudococcus vitis* Fernald, 1903.

**Iran localities.** Elborz, Fars, Ghom, Khorasan -e Razavi, Markazi, Tehran.

**Host plants.** Cucurbitaceae: *Citrullus vulgaris*; Lythraceae: *Punica granatum*; Moraceae: *Ficus carica*; Vitaceae: *Vitis persica*.

**References.** Asadeh and Mosaddegh (1991), Ben-Dov (1994), Ben-Dov et al. (2013), Cox (1989), Kaussari (1946), Kozár et al. (1996), Moghaddam (2006, 2009, 2013) and Williams and Moghaddam (1999).

**Note.** This is the first record of *P. ficus* from the plant family Cucurbitaceae.

### ***Planococcus vovae* (Nasonov)**

*Pseudococcus (Dactylopius) vovae* Nasonov, 1909: 484.

**Iran localities.** Esfahan, Fars, Gilan, Golestan, Kerman, Tehran.

**Host plants.** Cupressaceae: *Cupressus* sp.

**References.** Ben-Dov (1994), Ben-Dov et al. (2013), Cox (1989), Cox and Ben-Dov (1986), Kozár et al. (1996), Lotfalizadeh and Ahmadi (2000), Moghaddam (2006, 2009, 2010, 2013) and Williams and Moghaddam (1999).

### **• *Polystomophora arakensis* Moghaddam**

*Polystomophora arakensis* Moghaddam in Moghaddam and Alikhani 2010: 12.

**Iran localities.** Markazi.

**Host plants.** Polygonaceae: *Atraphaxis* sp.

**References.** Ben-Dov et al. (2013), Moghaddam (2010, 2013) and Moghaddam and Alikhani (2010).

***Pseudococcus comstocki* (Kuwana)**

*Dactylopius comstocki* Kuwana, 1902: 52.

**Iran localities.** Ghazvin, Gilan, Khorasan -e Shomali, Mazandaran, Tehran.

**Host plants.** Fabaceae: *Robinia pseudoacacia*; Moraceae: *Morus alba*, *M. nigra*.

**References.** Ben-Dov et al. (2013), Kozár et al. (1996) and Moghaddam (2009, 2010, 2013).

***Pseudococcus cryptus* Hempel**

*Pseudococcus cryptus* Hempel, 1918: 199.

**Iran localities.** Unknown.

**Host plants.** Unknown plant.

**References.** Ben-Dov et al. (2013), Kozár et al. (1996) and Moghaddam (2013).

***Pseudococcus longispinus* (Targioni Tozzetti)**

*Dactylopius longispinus* Targioni Tozzetti, 1867: 75. *Pseudococcus adonidum* Westwood, 1840.

**Iran localities.** Gilan, Mazandaran, Tehran.

**Host plants.** Buxaceae: *Buxus hyrcana*; Celastraceae: *Euonymus* sp.

**References.** Ben-Dov (1994), Ben-Dov et al. (2013), Farahbakhsh (1961), Kausari (1957), Kozár et al. (1996) and Moghaddam (2010, 2013).

**Note.** This is the first record of *P. longispinus* from the plant family Buxaceae.

***Pseudococcus viburni* (Signoret)**

*Dactylopius indicus* Signoret, 1875: 317. *Pseudococcus affinis* Fernald, 1903. *Pseudococcus fathyi* Bodenheimer, 1944.

**Iran localities.** Esfahan, Gilan, Tehran.

**Host plants.** Amaranthaceae: *Amaranthus blitum*; Araceae: *Dieffenbachia* sp., *Phoenix* sp.; Bignoniaceae: *Catalpa speciosa*; Buxaceae: *Buxus hyrcana*; Cupressaceae: *Cupressus* sp.; Euphorbiaceae: *Codiaeum variegatum*; Fabaceae: *Albizia* sp., *Cercis siliquastrum*; Ginkgoaceae: *Ginkgo biloba*; Lythraceae: *Punica granatum*; Moraceae: *Ficus carica*, *Morus alba*; Rosaceae: *Rosa* sp.; Solanaceae: *Solanum tuberosum*; Theaceae: *Camellia sinensis*; Vitaceae: *Vitis persica*.

**References.** Ben-Dov et al. (2013), Ben-Dov (1994), Bodenheimer (1944), Kozár et al. (1996) and Moghaddam (2006, 2009, 2010, 2013).

**Note.** These are the first records of *P. viburni* from the plant families Amaranthaceae and Ginkgoaceae.

### ● *Rhodania aeluropi* Williams & Moghaddam

*Rhodania aeluropi* Williams & Moghaddam, 2007: 38.

**Iran localities.** Khuzestan.

**Host plants.** Poaceae: *Aeluropus* sp.

**References.** Ben-Dov et al. (2013), Moghaddam (2009, 2013) and Williams and Moghaddam (2007).

### *Saccharicoccus sacchari* (Cockerell)

*Dactylopius sacchari* Cockerell, 1895: 195.

**Iran localities.** Khuzestan.

**Host plants.** Poaceae: *Saccharum officinalis*.

**References.** Moghaddam (2013).

### *Spilococcus alhagii* (Hall)

*Pseudococcus alhagii* Hall, 1926: 7.

**Iran localities.** Esfahan, Fars, Khuzestan.

**Host plants.** Lythraceae: *Punica granatum*; Rhamnaceae: *Ziziphus spina-christi*.

**References.** Ben-Dov et al. (2013), Kozár et al. (1996), Moghaddam (2009, 2013) and Williams and Moghaddam (2007).

***Spilococcus flavus* (Borchsenius)**

*Pseudococcus flavus* Borchsenius, 1949: 117.

**Iran localities.** Unknown.

**Host plants.** Poaceae.

**References.** Ben-Dov et al. (2013), Kozár et al. (1996) and Moghaddam (2013).

**•*Spilococcus mirzayansi* (Moghaddam)**

*Chorizococcus mirzayansi* Moghaddam, 2010: 64.

**Iran localities.** Tehran.

**Host plants.** Cactaceae: *Opuntia ficus-indica*.

**References.** Ben-Dov et al. (2013), Moghaddam (2010a, 2013) and Tsai and Wu (2011).

***Trabutina crassispinosa* Borchsenius**

*Trabutina elastica* Borchsenius, 1936: 111 [misidentification, according to Borchsenius 1941: 133]. *Trabutina crassispinosa* Borchsenius, 1941: 133.

**Iran localities.** Ardabil, Kermanshah.

**Host plants.** Tamaricaceae: *Tamarix* sp.

**References.** Ben-Dov et al. (2013), Kozár et al. (1996), Moghaddam (2013) and Torabi et al. (2010).

***Trabutina mannipara* (Hemprich & Ehrenberg)**

*Coccus manniparus* Hemprich & Ehrenberg in Ehrenberg 1829: 1.

**Iran localities.** Esfahan, Khorasan -e Shomali.

**Host plants.** Tamaricaceae: *Tamarix* sp.

**References.** Ben-Dov et al. (2013), Danzig and Miller (1996) and Moghaddam (2013).

***Trabutina serpentina* (Green)**

*Naiacoccus serpentinus* Green, 1919: 117. *Naiacoccus minor* Borchsenius, 1949. *Naiacoccus serpentinus* Green, 1919.

**Iran localities.** Ardabil, Azarbaijan -e Garbi, Azarbaijan -e Sharghi, Bushehr, Hormozgan, Gilan, Kerman, Khouzesan, Sistan & Balouchestan, Zanjan.

**Host plants.** Tamaricaceae: *Tamarix* sp.

**References.** Ben-Dov et al. (2013), Bodenheimer (1944), Farahbakhsh (1961), Kozár et al. (1996) and Moghaddam (2006, 2009, 2010, 2013).

***Trionymus multivorus* (Kiritchenko)**

*Pseudococcus multivorus* Kiritchenko, 1936: 151.

**Iran localities.** Ardabil, Esfahan, Fars, Hamadan, Kerman, Kermanshah, Khorasan -e Shomali, Lorestan, Markazi.

**Host plants.** Apiaceae: *Echinophora* sp.; Asteraceae: *Cirsium* sp., *Echinops ritro*, *Lactuca* sp., *Matricaria chamomilla*, *Klasea cerinthifolia*; Fabaceae: *Astragalus* sp.; Malvaceae: *Hibiscus* sp.

**References.** Ben-Dov et al. (2013) and Moghaddam (2006, 2009, 2013).

***Vryburgia amaryllidis* (Bouché)**

*Coccus amaryllidis* Bouché, 1837: 99. *Trionymus amaryllidis* Lindinger, 1934.

**Iran localities.** Fars.

**Host plants.** Amaryllidaceae: *Amaryllis* sp.

**References.** Ben-Dov et al. (2013), Farahbakhsh (1961), Kozár et al. (1996) and Moghaddam (2013).

**Family PUTOIDEAE**

***Puto superbus* (Leonardi)**

*Macrocrococcus superbus* Leonardi, 1907: 152.

**Iran localities.** Ardebil, Esfahan, Zanjan.

**Host plants.** Fabaceae: *Astragalus* sp.

**References.** Ben-Dov (1994), Ben-Dov et al. (2013), Borchsenius (1949), Danzig (1999), and Moghaddam (2009, 2013).

## Family RHIZOECIDAE

### *Rhizoecus albidus* Goux

*Rhizoecus* (*Pararhizoecus*) *albidus* Goux, 1942: 40.

**Iran localities.** Esfahan, Markazi, Tehran.

**Host plants.** Cactaceae: *Gymnocalycium baldianium*; Crassulaceae: *Echeveria* sp.; Poaceae: *Festuca arundinacea*.

**References.** Ben-Dov et al. (2013) and Moghaddam (2001, 2009, 2013).

**Note.** These are the first records of *R. albidus* from the plant families Cactaceae and Crassulaceae.

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## References

- Abai M (1995) The report of *Nuculaspis abietis* (Schrank) from Mazandaran, Iran. Applied Entomology and Phytopathology 62: 108–109.
- Afchar DJ (1937) Les Insectes Nuisibles aux Arbres Fruitières en Iran. Ministry of Agriculture, Iran, 112 pp.
- Ahmad R (1975) A note on *Saissetia oleae* and its natural enemies in Iran. Entomophaga 20: 221–223. doi: 10.1007/BF02371663
- Archangelskaya AD (1923) Contribution to the fauna of hard or soft scales (Coccidae) of Turkestan. Transactions of the Scientific Society of Turkestan 1: 259–266.
- Archangelskaya AD (1930) List of the scale insects of collected by the locust control Turkmenian expedition in 1926 and 1929 and by other collectors. Ashkabad. Report of the Plant Protection Station Turkmenistan 1926–1929: 87–96.
- Archangelskaya AD (1930a) List of the scale insects (Coccidae) of Turkmenistan. Report of the Plant Protection Station for 1926 to 1929, Ashkhabad, Turkmenia, 75–85.
- Archangelskaya AD (1931) New species of scale insects, Coccidae, from Central Asia. Zashchita Rastenii, Leningrad 7: 69–85.



- Archangelskaya AD (1935) The Carmine-Producing Coccids (*Margarodes*) of Middle Asia and Species of Allied Genus *Neomargarodes*. Tashkent Publishing Committee of Sciences in Uzbek, Tashkent, 38 pp.
- Archangelskaya AD (1937) The Coccidae of Middle Asia. Izdatelstvo Komiteta Nauk UZSSR, Tashkent, 158 pp.
- Asadeh Gh, Mosaddegh MS (1991) The mealybug fauna of Khuzestan province. The Scientific Journal of Agriculture 6(1, 2): 47–52.
- Balachowsky AS (1928) Contribution à l'étude des Coccides de l'Afrique mineure (4e note). Nouvelle liste de Coccides nord-africains avec description d'espèces nouvelles. Bulletin de la Société Entomologique de France 1928: 273–279.
- Balachowsky AS (1929) Contribution à l'étude des coccides de l'Afrique Mineure (6e note). Faune du Hoggar. Annales de la Société Entomologique de France 98: 301–322.
- Balachowsky AS (1948) Les cochenilles de France, d'Europe, du nord de l'Afrique et du bassin Méditerranéen. IV. Monographie des Coccoidea, classification - Diaspidinae (Première partie). Entomologie Appliquée Actualités Scientifiques et Industrielles 1054: 243–394.
- Balachowsky AS (1949) Sur un genre nouveau d'Aspidiotini [Hem. Coccoidea] du sud de l'Anti-Atlas. Bulletin de la Société Entomologique de France 54: 74–76.
- Balachowsky AS (1950) Sur un *Parlagena* (Hom. Coccoidea) nouveau du Beloutchistan Iranien. Revue de Pathologie Végétale et d'Entomologie Agricole de France 29: 17–20.
- Balachowsky AS (1950a) Les cochenilles de France, d'Europe, du Nord de l'Afrique et du Bassin Méditerranéen. V. Monographie des Coccoidea, Diaspidinae (deuxième partie) Aspidiotini. Entomologie Appliquée Actualités Sciences et Industrielles 1087: 397–557.
- Balachowsky AS (1951) Les cochenilles de France, d'Europe, du Nord de l'Afrique et du bassin Méditerranéen. VI. Monographie des Coccoidea, Diaspidinae (Troisième partie) Aspidiotini (fin). Entomologie Appliquée Actualités Scientifiques et Industrielles 1127: 561–720.
- Balachowsky AS (1953) Les cochenilles de France d'Europe, du Nord de l'Afrique, et du bassin Méditerranéen. VII. Monographie des Coccoidea, Diaspidinae–IV, Odonaspidini Parlatorini. Entomologie Appliquée Actualités Scientifiques et Industrielles 1202: 725–929.
- Balachowsky AS (1954) Les Cochenilles Palearctiques de la Tribu des Diaspidini. Mémoires Scientifiques de l'Institut Pasteur, Paris, 450 pp.
- Balachowsky AS (1958) Les cochenilles du continent Africain Noir. v. 2 Aspidiotini (2me partie), Odonaspidini and Parlatorini. Annales du Musée Royal du Congo Belge (Sciences Zoologiques). Tervuren 4: 149–356.
- Balachowsky AS (1959) Sur un nouvel Aspidiotini (Coccoidea) de l'Iran. Revue de Pathologie Végétale et d'Entomologie Agricole de France 38: 211–212.
- Balachowsky AS (1967) Une espèce nouvelle de *Fiorinia* (Coccoidea-Diaspidini) vivant sur palmier-dattier dans les oasis du sud de l'Iran. Annales de la Société Entomologique de France (n.s.) 3: 771–775.
- Balachowsky AS, Alkan B (1956) Sur un *Acanthomytilus* Borkh. (Coccoidea-Diaspidini) nouveau vivant sur cèdre dans les montagnes de Turquie. Bulletin et Annales de la Société Royale Entomologique de Belgique Bruxelles 92: 319–323.
- Balachowsky AS, Kaussari M (1951) Coccoidea-Diaspidinae nouveaux du sud-est. de l'Iran. Bulletin de la Société Found 1er d'Entomologie 35: 1–15.

- Balachowsky AS, Kaussari M (1953) Sur un *Melanaspis* Ckll. nouveau (Coccoidea-Diaspidinae) vivant sur chine en Iran. Revue de Pathologie Végétale et d'Entomologie Agricole de France 32: 28–31.
- Balachowsky AS, Kaussari M (1955) Sur un *Acanthomytilus* Bork., (Diaspidinae, Lepidosaphedina) nouveau du sud de l'Iran. Revue de Pathologie Végétale et d'Entomologie Agricole de France 34: 238–240.
- Balachowsky AS, Kaussari M (1955a) Contribution à l'étude de la faune primitive des arbres fruitiers dans leur biotope ancestral. Sur un Coccoidea-Diaspidini nouveau nuisible à l'abricotier cultivé en Iran. Bollettino del Laboratorio di Entomologia Agraria 'Filippo Silvestri' Portici 14: 298–305.
- Bazarov BB, Shmelev GP (1967) Two new species of scale insects (Homoptera, Coccoidea) from the E. Pamirs and Kugui-Tang Ridge. Doklady Akademii Nauk Tadjzhikskoi SSR. Dushanbe 10: 60–64.
- Bazarov BB (1968) New species of Coccidae from Pamir. Doklady Akademii Nauk Tadjzhikskoi SSR. Dushanbe 11: 73–74.
- Bazarov BB, Shmelev GP (1971) Scale Insects (Homoptera, Coccoidea) of Tadjhikistan and the Adjoining Regions of Middle Asia. Fauna of Tadjhikistan SSR. Akad. Nauk Tadjh. SSR Inst. Zool. Parazitol, Dushanbe, 238 pp.
- Ben-Dov Y (1969) A generic diagnosis of *Bodenheimeria* Bodenheimer (Homoptera: Coccidae) with redescription of *B. rachelae* (Bodenheimer). Proceedings of the Royal Entomological Society of London, (B) 38: 70–74.
- Ben-Dov Y (1980) Observations on scale insects (Homoptera: Coccoidea) of the Middle East. Bulletin of Entomological Research 70: 261–271. doi: 10.1017/S0007485300007537
- Ben-Dov Y (1988) A taxonomic analysis of the armored scale tribe Odonaspidini of the world (Homoptera: Coccoidea: Diaspididae). United States Department of Agriculture Technical Bulletin No. 1723: 142 pp.
- Ben-Dov Y (1993) A Systematic Catalogue of the Soft Scale Insects of the World (Homoptera: Coccoidea: Coccidae). Sandhill Crane Press, Gainesville, FL, 536 pp.
- Ben-Dov Y (1994) A Systematic Catalogue of the Mealybugs of the World (Insecta: Homoptera: Coccoidea: Pseudococcidae and Putoidae) with Data on Geographical Distribution, Host Plants, Biology and Economic Importance. Intercept Limited, Andover, UK, 686 pp.
- Ben-Dov Y (2011–2012) The scale insects (Hemiptera: Coccoidea) of Israel-checklist, host plants, zoogeographical considerations and annotations on species. Israel Journal of Entomology Vol. 41–42: 21–48.
- Ben-Dov Y, Miller DR, Gibson GAP (2013) ScaleNet. <http://www.sel.barc.usda.gov/scalenet/scalenet.htm> [accessed 12 August 2013]
- Bouché PF (1833) Naturgeschichte der Schädlichen und Nützlichen Garteninsekten und die bewährtesten Mittel. Nicolai, Berlin, 176 pp. doi: 10.5962/bhl.title.9692
- Bouché PF (1837) Beschreibung einer neuen Art Schildlaus *Coccus amaryllidis* Bouche nebst mitteilungen zur Vertilgung dieser und anderer Schildläuse allg. Gartenzeitung 5: 99–101.
- Bouché PF (1844) Contributions to the natural history of the “Scharlachläuse” (Coccina). Entomologische Zeitung, Stettin 5: 293–302.

- Bouché PF (1851) Neue Arten der Schildlaus-Familie. Entomologische Zeitung, Stettin 12: 110–112.
- Bodenheimer FS (1924) The Coccidae of Palestine. First report on this family. Zionist Organization Institute of Agriculture and Natural History, Agricultural Experiment Station Bulletin 1: 1–100.
- Bodenheimer FS (1926) Second note on the Coccidae of Palestine. Bulletin of Entomological Research 17: 189–192. doi: 10.1017/S0007485300019222
- Bodenheimer FS (1929) About the Pests of the Cultivated Plants in the Central Sinai. 34–39. In: Bodenheimer FS, Theodor O (Eds) Results of the Sinai expedition 1927 of Hebrew University, Jerusalem. Jerusalem. J.S. Hinrichs Buchhandlung, Leipzig, 143 pp.
- Bodenheimer FS (1941) Seven new species of Coccidae from Anatolia. Revue de la Faculté des Sciences de l'Université d'Istanbul (Ser. B) 6: 65–84.
- Bodenheimer FS (1943) A first survey of the Coccoidea of Iraq. Government of Iraq, Ministry of Economics. Directorate General of Agriculture, Bulletin 28: 1–33.
- Bodenheimer FS (1944) Note on the Coccoidea of Iran, with description of new species. Bulletin de la Société Fouad 1er d'Entomologie 28: 85–100.
- Bodenheimer FS (1944a) Additions to the Coccoidea of Iraq, with descriptions of two new species. Bulletin de la Société Fouad 1er d'Entomologie 28: 81–84.
- Bodenheimer FS (1951) Description of some new genera of Coccoidea. Entomologische Berichten. Amsterdam 13: 328–331.
- Boisduval JBA (1869) Note sur deux espèces nouvelles de coccides vivant sur les bambous cultivés au jardin du Hamma. L'Insectologie Agricole 3: 260–262.
- Borchsenius NS (1935) Five new species of scales (Coccidae) morphologically allied to San José scale (*Aspidiotus perniciosus* Comst.) Izvestiya Kursov Prikladnoi Zoologii i Fitopatologii. Leningrad 6: 127–133.
- Borchsenius NS (1936) On the fauna of scale insects (Coccidae) of the Caucasus. Trudy Krasnodarskogo sel'sko-Khozyaistvennogo Instituta. Krasnodar 4: 97–139.
- Borchsenius NS (1937) Coccidae of Quarantine Value for U.S.S.R. and their allied species. Plant Quar. Sta., Tbilisi, Georgia, 272 pp. + 72 pls.
- Borchsenius NS (1939) Systematic characteristics of second-instar larvae of the oysterlike Coccidae occurring in the USSR. Leningrad Quarantine Laboratory, 47 pp.
- Borchsenius NS (1941) Species of the manna-producing scale insects (*Trabutina*, Coccidae, Hemiptera) from Central Asia. Izvestiya Kursov Prikladnoi Zoologii i Fitopatologii. Leningrad 12: 123–135.
- Borchsenius NS (1947) Two new genera of mealybugs and a new species of armored scale (Homoptera: Coccoidea) from Armenia. Doklady Akademii Nauk Armyanoskoi SSSR 7: 141–143.
- Borchsenius NS (1948) On the revision of the genus *Eriococcus* Sign. (Insecta, Homoptera, Coccoidea). Doklady Akademii Nauk SSSR. Moscow (n.s.) 60: 501–503.
- Borchsenius NS (1948a) New mealybugs of the family Pseudococcidae from Central Asia. Doklady Akademii Nauk SSSR. Moscow (n.s.) 63: 581–584.
- Borchsenius NS (1949) Insects Homoptera. suborders mealybugs and scales (Coccoidea). Family mealybugs (Pseudococcidae). Vol. VII. Fauna SSSR. Zoologicheskii Institut Akademii Nauk SSSR. N.S. 38: 1–382.

- Borchsenius NS (1949a) A new genus and new species of hard and soft scales (Homoptera, Coccoidea) of USSR fauna. *Entomologicheskoe Obozrenye* 30: 334–353.
- Borchsenius NS (1949b) New genera of scale insects from the fauna of Central Asia (Insecta, Coccoidea, Diaspididae). *Doklady Akademii Nauk SSSR*. Moscow (n.s.) 64: 735–738.
- Borchsenius NS (1952) A new genus and new species of hard scales from Iran (Homoptera, Coccoidea). *Entomologicheskoe Obozrenye* 32: 261–263.
- Borchsenius NS (1955) New species of false-hard scales (Homoptera, Coccoidea, Coccidae) of the fauna of USSR and adjacent countries. *Trudy Zoologicheskogo Instituta Akademii Nauk SSSR* 18: 288–303.
- Borchsenius NS (1960) Fauna of USSR, Homoptera, Kermococcidae, Asterolecaniidae, Lecanodiaspididae, Acleridae. *Akademiia Nauk SSSR, Zoologicheskii Institut (Series)*, Leningrad, 282 pp.
- Borchsenius NS (1962) Descriptions of some new genera and species of Diaspididae (Homoptera, Coccoidea). *Entomologicheskoe Obozrenye* 41: 861–871.
- Borchsenius NS (1963) On the revision of the genus *Lepidosaphes* Shimer (Coccoidea, Homoptera, Insecta). *Zoologicheskii Zhurnal*. Moscow 42: 1161–1174.
- Borchsenius NS (1966) A Catalogue of the Armoured Scale Insects (Diaspidoidea) of the World. *Nauka*, Moscow & Leningrad, 449 pp.
- Borchsenius NS, Williams DJ (1963) A study of the types of some little-known genera of Diaspididae with descriptions of new genera (Hemiptera: Coccoidea). *British Museum (Natural History) Entomological Bulletin* 13: 353–394.
- Boyer de Fonscolombe ELJH (1834) Description des *Kermes* qu'on trouve aux environs d'Aix. *Annales de la Société Entomologique de France* 3: 201–218.
- Bouché PF (1833) *Naturgeschichte der Schädlichen und Nützlichen Garteninsekten und die bewährtesten Mittel*. Nicolai, Berlin, 176 pp. doi: 10.5962/bhl.title.9692
- Bouché PF (1844) Beiträge zur Naturgeschichte der Scharlachläuse (Coccina). *Entomologische Zeitung, Stettin* 5: 293–302.
- Bouché PF (1851) New species of scale insects. *Entomologische Zeitung, Stettin* 12: 110–112.
- Brain CK (1915) The Coccidae of South Africa. *Transactions of the Royal Society of South Africa*. Cape Town 5: 65–194.
- Brandt JF, Ratzeburg JTC (1833) *Medizinische Zoologie oder Getreue Darstellung und Beschreibung der Thiere, in systematischer Folge herausgegeben*. Zweiter Band. Gedruckt bei Trowitzsch und Sohn., Berlin. I–IV, 364 pp.
- CAB International (1986) *Quadraspidiotus perniciosus* (Comstock). *Distribution Maps of Pests, Series A, Agricultural Map no. 7 (rev.)*: 3 pp.
- CAB International (1997) *Aonidiella citrina* (Coquillett). *Distribution Maps of Pests, Series A, Agricultural Map no. 349 (1st rev.)*: 3 pp.
- Carpenter JB, Elmer HS (1978) *Pests and diseases of the date palm*. *Agriculture Handbook Agriculture Research Service, United States Department of Agriculture, No. 527*: 1–42.
- Cockerell TDA (1892) Coccidae of Jamaica. *Journal of the Institute of Jamaica* 1: 142–143.
- Cockerell TDA (1893) The West Indian species of *Dactylopius*. *The Entomologist* 26: 177–179.
- Cockerell TDA (1893a) A list of West Indian Coccidae. *Journal of the Institute of Jamaica* 1: 252–256.

- Cockerell TDA (1895) A new mealybug on sugar cane. Journal of the Trinidad Field Naturalists' Club 2: 195.
- Cockerell TDA (1896) Preliminary diagnoses of new Coccidae. Psyche, Supplement 7: 18–21. doi: 10.1155/1896/92937
- Cockerell TDA (1897) Notes on new Coccidae. 1. A new coccid pest of greenhouses. 2. A Japanese coccid quarantined at San Francisco. Psyche 8: 52–53. doi: 10.1155/1897/86590
- Cockerell TDA (1899) Some notes on Coccidae. Proceedings of the Academy of Natural Sciences of Philadelphia 1899: 259–275.
- Cockerell TDA (1900) Some Coccidae quarantined at San Francisco. Psyche 9: 70–72. doi: 10.1155/1900/47934
- Cockerell TDA (1901) Notes on some Coccidae of the earlier writers. The Entomologist 34: 90–93.
- Cockerell TDA (1902) A catalogue of the Coccidae of South America. Revista Chilena de Historia Natural 6: 250–257.
- Colvée P (1880) Essay on a new olive disease, produced by a new species of the genus *Aspidiotus*. Gaceta Agrícola del Ministerio de Fomento 14: 21–41.
- Colvée P (1882) New Studies on some Insects of the Coccidae Family. Valencia, 16 pp.
- Comstock JH (1881) Report of the Entomologist. Report of the Commissioner of Agriculture, United States Department of Agriculture 1880/1881: 276–349.
- Comstock JH (1883) Second report on scale insects, including a monograph of the sub-family Diaspinae of the family Coccidae and a list, with notes of the other species of scale insects found in North America. Department of Entomology Report, Cornell University Agricultural Experiment Station 2: 47–142.
- Cooley RA (1898) New species of *Chionaspis* and notes on previously known species. Canadian Entomologist 30: 85–90. doi: 10.4039/Ent3085-4
- Cooley RA (1899) The coccid genera *Chionaspis* and *Hemichionaspis*. Special Bulletin, Hatch Experiment Station of the Massachusetts Agricultural College 1899: 1–57.
- Coquillett DW (1891) Report on various methods for destroying scale insects. Letter of submittal. Bulletin (United States Department of Agriculture) 23: 19–26.
- Costa OG (1829) Fauna del Regno di Napoli, famiglia de coccinigliferi, o de' gallinsetti. Emitteri, Napoli, 23 pp. doi: 10.5962/bhl.title.61922
- Cox JM (1989) The mealybug genus *Planococcus* (Homoptera: Pseudococcidae). Bulletin British Museum (Natural History). Entomology 58(1): 1–78.
- Cox JM, Ben-Dov Y (1986) Planococcine mealybugs of economic importance from the Mediterranean Basin and their distinction from a new African genus (Hemiptera: Pseudococcidae). Bulletin of Entomological Research 76: 481–489. doi: 10.1017/S0007485300014966
- Curtis J (Ruricola) (1843) The small brown scale, *Aspidiotus proteus*, Nobis. Gardeners' Chronicle 39: 676.
- Curtis J (Ruricola) (1843a) *Aspidiotus ostreaeformis* (the pear-tree oysterscale). Gardeners' Chronicle 46: 805.
- Danzig EM (1975) New species of the genus *Acanthococcus* Sign. (Homoptera, Coccoidea, Eriococcidae) from the Far East of USSR. Entomologicheskoe Obozrenye 54: 62–81.

- Danzig EM (1990) New species of coccids (Homoptera, Coccinea) from Iran, Mongolia and Vietnam. *Entomologicheskoe Obozrenye* 69: 373–376.
- Danzig EM (1993) Fauna of Russia and Neighbouring Countries. Rhynchota, Volume X: Suborder Scale Insects (Coccinea): Families Phoenicococcidae and Diaspididae. 'Nauka' Publishing House, St. Petersburg, 452 pp.
- Danzig EM (1999) Mealybugs of the genus *Puto* Signoret (Homoptera, Pseudococcidae) of Russia and neighboring countries. *Entomologicheskoe Obozrenye* 78: 79–91.
- Danzig EM, Miller DR (1996) A systematic revision of the mealybug genus *Trabutina* (Homoptera: Coccoidea: Pseudococcidae). *Israel Journal of Entomology* 30: 7–46.
- Danzig EM, Pellizzari G (1998) Diaspididae. 172–370 In: Kozár F (Ed) Catalogue of Palearctic Coccoidea. Plant Protection Institute, Hungarian Academy of Sciences, Budapest, Hungary, 526 pp.
- Dastgheyb-Beheshti N, Behdad E, Barooti S (1988) Some biological studies on *Diaspidiotus prunorum* in Esfahan. *Entomologie et Phytopathologie Appliquées* 55(1/2): 31–32.
- Davatchi AG (1946) *Saissetia oleae* Bernard (Homoptera-Coccidae). Ministère de l'Agriculture, Entomologie et Phytopathologie Appliquées, Tehran 1: 1–7.
- Davatchi GA (1958) Etude biologique de la faune entomologique des Pistacia sauvage et cultivées. *Revue de Pathologie Vegetale et d'Entomologie Agricole de France* 37: 3–166.
- Davatchi GA, Balachowsky AS (1956) Contribution l'étude des insectes des pistachiers. 2. Sur un Diaspis Targ. (Coccoidea-Diaspidini) nouveau vivant sur *Pistacia khinjuk* dans le sud-est de l'Iran. *Revue de Pathologie Vegetale et d'Entomologie Agricole de France* 35: 105–109.
- Davoodi A, Talebi AA, Rajabi GR, Fathipour Y (2002) The first report of *Microterys hortulanus* (Hym.: Encyrtidae) from Iran. *Journal of Entomological Society of Iran* 22(1): 85–86.
- Del Guercio G (1900) Osservazioni intorno ad una nuova cocciniglia nociva agli agrumi in Italia ed al modo di immunizzare la parte legnosa delle piante contro la puntura delle cocciniglie in generale e di distruggerle. *Nuove Relazione della R. Stazione di Entomologia Agraria*. Firenze 3: 3–26.
- Ehrenberg CG (1829) *Coccus manniparus* Hemprich & Ehrenberg, *Symbolae Physicae seu icones et Descriptiones Insectorum quae ex Itinere per Africam Borealem et Asiam Occidentalem*. Officina Academica, Berlin.
- Ezzat YM, McConnell HS (1956) A classification of the mealybug tribe Planococcini (Pseudococcidae: Homoptera). *Bulletin of the Maryland Agriculture Experiment Station A-e84*: 1–108.
- Fabricius JC (1775) *Systema Entomologiae, Sistens Insectorum Classes, Ordines, Genera, Species Adiectis Synonymis, Locis, Descriptionibus, Observationibus*. Flensburgi et Lipsiae, Korte, 832 pp. doi: 10.5962/bhl.title.36510
- Fabricius JC (1776) *Genera Insectorum*. Chilonii, Bartschii, 310 pp.
- Fallahzadeh M, Kaydan MB, Kozár F (2010) Description of a new species of *Chorizococcus* (Hemiptera: Coccoidea: Pseudococcidae) infesting *Vitis vinifera* in Iran. *Türkiye Entomoloji Dergisi* 34(2): 157–163
- Fallahzadeh M, Shojaei M, Ostovan H, Kamali K (2007) Study of the parasitoids and hyperparasitoids of *Maconellicoccus hirsutus* (Hem., Pseudococcidae) in Fars province (Iran). *Journal of Agricultural Sciences, Islamic Azad University* 13(3): 593–609



- Farahbakhsh Gh (1961) A Checklist of Economically Important Insects and other Enemies of Plants and Agricultural Products in Iran. Department of Plant Protection Ministry of Agriculture Tehran, Iran, 151pp.
- Fernald ME (1903) A catalogue of the Coccidae of the world. Bulletin of the Hatch Experiment Station of the Massachusetts Agricultural College 88: 1–360.
- Ferris GF (1918) The California species of mealy bugs. Stanford University Publications, University Series. Palo Alto 1918: 1–78.
- Ferris GF (1941) Atlas of the Scale Insects of North America. Series 3. Stanford University Press, Palo Alto, California.
- Frauenfeld G (1868) Zoologische Miscellen XV. Verhandlungen der Zoologisch-Botanischen Gesellschaft in Wien 18: 885–899.
- Goux L (1937) Notes sur les coccides (Hem. Coccidae) de la France. (19<sup>e</sup> note). Étude d'un *Rhizaspidotus* et d'un *Aspidiotus* nouveaux. Bulletin de la Société Zoologique de France 62: 341–349.
- Goux L (1942) Notes sur les coccides (Hem. Coccoidea) de la France. (32<sup>me</sup> note). Description d'un *Phenacoccus* et d'un *Rhizoecus* nouveaux. Bulletin du Muséum d'Histoire Naturelle de Marseille 2: 33–45.
- Goux L (1993) Description of three new species of *Eriococcus* belonging to the French fauna (Homoptera, Coccoidea, Eriococcidae). Bulletin de la Societe Linnea de Provence 44: 65–69.
- Gmelin JF (1790) 1517–2224 Systema Naturae. Editio decima tertia. Acuta, reformata, cara., Lipsiae.
- Goux L (1993) Description of three new species of *Eriococcus* belonging to the French fauna (Homoptera, Coccoidea, Eriococcidae). Bulletin de la Societe Linnea de Provence 44: 65–69.
- Green EE (1900) Supplementary notes on the Coccidae of Ceylon. Journal of the Bombay Natural History Society 13: 66–76, 252–257.
- Green EE (1900a) Description of a new species of *Ripersia* destructive to sugar-cane. Indian Museum Notes 5: 37–38.
- Green EE (1905) Supplementary notes on the Coccidae of Ceylon. Journal of the Bombay Natural History Society 16: 340–357.
- Green EE (1908) Remarks on Indian scale insects (Coccidae), Part III. With a catalogue of all species hitherto recorded from the Indian continent. Memoirs of the Department of Agriculture in India, Entomology Series 2: 15–46.
- Green EE (1919) On a new genus and species of Coccidae from north-western India and eastern Persia. Records of the Indian Museum 18: 117–119.
- Green EE (1922) Supplementary notes on the Coccidae of Ceylon. Part IV. Journal of the Bombay Natural History Society 28: 1007–1037.
- Green EE (1923) On a new species of *Coccomytilus* from Egypt. Bulletin, Ministry of Agriculture, Egypt, Technical and Scientific Service 36: 63.
- Green EE (1934) On a remarkable new species of the genus *Leucaspis*. Bulletin de la Société Entomologique d'Égypte 18: 110–111.
- Green EE (1934a) On a new species of *Targionia* (Coccidae) from Russia. Stylops 3: 95–96.
- Gullan PJ, Cook LG (2007) Phylogeny and higher classification of the scale insects (Hemiptera: Sternorrhyncha: Coccoidea). Zootaxa 1668: 413–425.

- Hadzibejli ZK (1960) New species of coccids (Homoptera, Coccoidea) from Georgia. Trudy Akademii Nauk Gruzinskoy SSR Instituta Zashchitii Rastenii 13: 299–321.
- Hall WJ (1922) Observations on the Coccidae of Egypt. Bulletin, Ministry of Agriculture, Egypt, Technical and Scientific Service 22: 1–54.
- Hall WJ (1923) Further observations on the Coccidae of Egypt. Bulletin, Ministry of Agriculture, Egypt, Technical and Scientific Service 36: 1–61.
- Hall WJ (1924) Four new species of Coccidae from Egypt. Bulletin, Ministry of Agriculture, Egypt, Technical and Scientific Service 46: 1–8.
- Hall WJ (1925) Notes on Egyptian Coccidae with descriptions of new species. Bulletin, Ministry of Agriculture, Egypt, Technical and Scientific Service 64: 1–31.
- Hall WJ (1926) Contribution to the knowledge of the Coccidae of Egypt. Bulletin, Ministry of Agriculture, Egypt, Technical and Scientific Service 72: 1–41.
- Hall WJ (1927) A coccid new to science from Mecca and two records from Arabia. Bulletin de la Société Entomologique d’Egypte 1926: 263–266.
- Hall WJ (1946) On the Ethiopian Diaspidini (Coccoidea). Transactions of the Royal Entomological Society of London 97: 497–592. doi: 10.1111/j.1365-2311.1946.tb00275.x
- Hempel A (1918) Descriptions of seven new species of coccids. Revista do Museu Paulista. São Paulo 10: 193–208.
- Henriksen KL (1921) Oversigt over de danske Coccidae. Entomologiske Meddelelser 13: 305–317.
- Hendricks H, Koszarab M (1999) Revision of the Tribe Serrolecaniini (Homoptera: Pseudococcidae). de Gruyter, Berlin & New York, xiv + 213 pp.
- Hodgson C (2012) Comparison of the morphology of the adult males of the rhizoecine, phenacoccine and pseudococcine mealybugs (Homoptera: Sternorrhyncha: Coccoidea), with the recognition of the family Rhizoecidae Williams. Zootaxa 3291: 1–79.
- Hoy JM (1963) A catalogue of the Eriococcidae (Homoptera: Coccoidea) of the world. New Zealand Department of Scientific and Industrial Research Bulletin 150: 1–260.
- Jashenko RV (1994) New species of the genus *Porphyrophora* Brandt (Coccinea, Margarodidae) from Kazakhstan, Turkmenistan and Mongolia. Selevinia 2 (3): 22–38.
- Jashenko RV, Danzig EM (1992) A new genus and three new species of the subfamily Monophlebinae Maskell (Homoptera, Margarodidae) from Middle Asia, Afghanistan and Vietnam. Entomologicheskoe Obozrenie (Entomological Review) 71(1): 84–90.
- Kaltenbach JH (1860) German phytophages from the Insecta class. Verhandlungen des Naturhistorischen Vereins des Preussisches Rheinlandes 17: 203–260.
- Kaussari M (1946) Contribution à l’Etudedes Coccidae de L’Iran. Ministère de l’Agriculture, Departement General De la Protection Des Plantes Tehran, 43pp.
- Kaussari M (1946a) Insectes nuisibles aux aurantiacées, sur les côtes de la mer Caspienne. Entomologie et Phytopathologie Appliquées 1: 1–7.
- Kaussari M (1952) On a new scale from southeast Iran. Revue de Pathologie Végétale et d’Entomologie Agricole de France 31: 181–184.
- Kaussari M (1954) Sur un *Dynaspidiotus* Thiem et Gerneck (Hem. Coccidae) nouveau de l’ouest de l’Iran. Revue de Pathologie Végétale et d’Entomologie Agricole de France 33: 80–83.
- Kaussari M (1955) La première liste des cochenilles de l’Iran. Ministère de l’Agriculture, Entomologie et Phytopathologie Appliquées, Tehran 15: 14–20.



- Kaussari M (1955a) Sur trois Coccoidea Diaspidinae nouveaux de l'Iran. *Revue de Pathologie Végétale et d'Entomologie Agricole de France* 34: 229–237.
- Kaussari M (1956) Sur un *Dynaspidiotus* Thiem et Gerneck (Coccoidea-Aspidiotini) nouveau des environs de Chiraz (Iran). *Revue de Pathologie Végétale et d'Entomologie Agricole de France* 35: 102–103.
- Kaussari M (1957) The second list of scales from Iran. Ministère de l'Agriculture, Entomologie et Phytopathologie Appliquées, Tehran 16–17: 1–3.
- Kaussari M (1958) Sur deux Aspidiotini-Aspidiotina (Coccoidea) du sud de l'Iran. *Revue de Pathologie Végétale et d'Entomologie Agricole de France* 37: 229–234.
- Kaussari M (1959) Sur un *Contagaspis* McGill. (Coccoidea–Diaspidini) nouveau du centre de l'Iran. *Revue de Pathologie Végétale et d'Entomologie Agricole de France* 38: 131–134.
- Kaussari M (1964) Genre nouveaux et espèces nouvelles de Diaspididae de l'Iran. Ministère de l'Agriculture, Conseil Supérieur de Recherches Agronomiques Bulletin N 5: 85pp.
- Kaussari M (1970) Monographie des Coccoidea de l'Iran. Min. Agric. Recherche Agron. Bul. 72 + 12 pp.
- Kaussari M, Balachowsky A (1953) Sur un Diaspidiotus (Hom. Coccidea) nouveau vivant sur Tamarix dans le sud de l'Iran. *Revue de Pathologie Végétale et d'Entomologie Agricole de France* 32: 24–26.
- Kaussari M, Balachowsky A (1953a) Sur un nouveau genre d'Aspidiotini Targionina (Coccoidea-Diaspidinae) du centre de l'Iran. *Revue de Pathologie Végétale et d'Entomologie Agricole de France* 32: 276–280.
- Kaussari M, Balachowsky A (1953b) Sur un *Aspidaspis* Ferris (Coccoidea-Aspidiotini) nouveau du sud de l'Iran. *Revue de Pathologie Végétale et d'Entomologie Agricole de France* 32: 99–102.
- Kaussari M, Balachowsky A (1954) Sur un genre nouveau et une espèce nouvelle de Coccoidea-Diaspidini vivant sur Artemisia en Iran. *Bulletin de la Société Fouad 1er d'Entomologie* 38: 161–164.
- Kaussari M, Farahbakhsh G (1968) Monographie des coccoidea tribu Aspidiotini, sous-tribu Aspidiotina au rang de famille Diaspididae. Ministère de l'Agriculture, Conseil Supérieur de Recherches Agronomiques Bulletin, 10 pp.
- Kiritchenko AN (1931) Second contribution to the coccid fauna of Ukraine and Crimea. *Zashchita Rastenii. Leningrad* 7: 307–321.
- Kiritchenko AN (1932) Description of some new Coccidae (Hemiptera) from Turkestan and Ukraine. *Trudy Zoologicheskogo Instituta Akademii Nauk SSSR* 1932: 135–142.
- Kiritchenko AN (1936) Some new Pseudococcinae of the fauna of USSR (Hemiptera, Coccoidea). *Revue d'Entomologie de l'USSR* 26: 130–159.
- Kiritchenko AN (1940) Third report on the coccid fauna of USSR. *Trudy Zoologicheskogo Instituta Akademii Nauk SSSR* 1940: 115–137.
- Komosinska H (1969) Studies on the genus *Abgrallaspis* Balachowsky, 1948, (Homoptera, Coccoidea, Diaspididae). *Acta Zoologica Cracoviensia* 14: 43–85.
- Kondo T, Gullan PJ, Williams DJ (2008) Coccidology. The study of scale insects (Hemiptera: Sternorrhyncha: Coccoidea). *Revista Corpoica - Ciencia y Tecnología Agropecuaria* 9(2): 55–61.

- Koroneos J (1934) Les Coccidae de la Grèce surtout du Pélion (Thessalie). I. Diaspinae., Athens, 95 pp.
- Kuwana SI (1902) Coccidae (scale insects) of Japan. Proceedings of the California Academy of Sciences 3: 43–98.
- Kuwana SI (1909) Coccidae of Japan (IV). A list of Coccidae from the Bonin Islands (Ogasawarajima), Japan. Journal of the New York Entomological Society 17: 158–164.
- Kuwana SI (1914) Coccidae of Japan, V. Journal of Entomology and Zoology 6: 1–8.
- Kozár F (1998) Catalogue of Palaearctic Coccoidea. Plant Protection Institute, Hungarian Academy of Sciences, Budapest, Hungary, 526 pp.
- Kozár F, Drozdják J (1998) Aclerididae. In: Kozár F (Ed) Catalogue of Palaearctic Coccoidea. Plant Protection Institute, Hungarian Academy of Sciences, Budapest, Hungary, 11–14.
- Kozár F, Fowjhan MA, Zarrabi M (1996) Check-list of Coccoidea and Aleyrodoidea (Homoptera) of Afghanistan and Iran, with additional data to the scale insects of fruit trees in Iran. Acta Phytopathologica et Entomologica Hungarica 31: 61–74.
- Kozár F, Walter J (1985) Check-list of the Palaearctic Coccoidea (Homoptera). Folia Entomologica Hungarica 46: 63–110.
- Laing F (1931) A new coccid injurious to fruit trees in Baluchistan. Memoirs of the Department of Agriculture in India, Entomology Series 12: 99–100.
- Laing F (1936) Description of a new species of *Phenacoccus* (Coccidae) found in Egypt. Bulletin de la Société Entomologique d’Égypte 9: 80–82.
- Leonardi G (1897) Generi e specie diaspiti. Saggio di sistematica degli *Aspidiotus*. Rivista di Patologia Vegetale. Firenze 6: 102–134.
- Leonardi G (1898) Diagnosi di cocciniglie nuove. Rivista di Patologia Vegetale. Firenze 6: 115–125.
- Leonardi G (1907) Contribuzione alla conoscenza delle cocciniglie Italiane. Bollettino del Laboratorio di Zoologia Generale e Agraria della R. Scuola Superior Agricoltura. Portici 1: 135–169.
- Leonardi G (1908) Seconda contribuzione alla conoscenza della cocciniglie Italiane. Bollettino del R. Laboratorio di Entomologia Agraria di Portici 3: 150–191.
- Leonardi G (1913) Nuove specie di cocciniglie raccolte in Italia. Bollettino del Laboratorio di Zoologia Generale e Agraria della R. Scuola Superior Agricoltura. Portici 7: 59–65.
- Lichtenstein J (1881) *Aspidiotus pyri* Licht. Annales de la Société Entomologique de France 1: li–liiii.
- Lindeman K (1886) Barley louse (*Westwoodia hordei* Lindeman), an injurious insect of south Russia. No. 8 “Notes” Imp. Obsch. Sel. Khoz., 6 pp.
- Lindinger L (1905) Zwei neue Arten der Coccidengattung *Leucaspis*. Zoologischer Anzeiger 29: 252–254.
- Lindinger L (1906) Die Schildlausgattung *Leucaspis*. Jahrbuch der Hamburgischen Wissenschaftlichen Anstalten. Hamburg 3: 1–60.
- Lindinger L (1909) Beiträge zur Kenntnis der Schildläuse und ihrer Verbreitung. Zeitschrift für Wissenschaftliche Insektenbiologie 5: 105–110, 147–152, 220–226.
- Lindinger L (1911) Beiträge zur Kenntnis der Schildläuse und ihre Verbreitung II. Zeitschrift für Wissenschaftliche Insektenbiologie 7: 9–12, 86–90, 126–130, 172–177.

- Lindinger L (1911a) Afrikanische Schildläuse. IV. Kanarische Cocciden. Ein Beitrag zur Fauna der Kanarischen Inseln. Jahrbuch der Hamburgischen Wissenschaftlichen Anstalten 28: 1–38.
- Lindinger L (1912) Die Schildläuse (Coccidae) Europas, Nordafrikas und Vorder-Asiens, Einschliesslich der Azoren, der Kanaren und Madeiras. Ulmer, Stuttgart, 388 pp.
- Lindinger L (1923) Einführung in die Kenntnis der deutschen Schildläuse. Entomologisches Jahrbuch 32: 138–152.
- Lindinger L (1929) Bericht über die Tätigkeit der Abteilung f. Pflanzenschutz, gleichzeitig Hauptstelle für Pflanzenschutz für das Hamburgische Staatsgebiet. a. Überwachung der Ein- und Ausfuhr von Obst, Pflanzen und Pflanzenteilen (amtliche Pflanzenbeschau). Jahresberichte Institut für Angewandte Botanik, Hamburg, 104–114.
- Lindinger L (1931) Beiträge zur Kenntnis der Schildläuse III. Entomologische Rundschau. Stuttgart 48: 8–180.
- Lindinger L (1934) Eine vergessene Schildlaus-Beschreibung P. Bouchés. Zeitschrift für Pflanzenkrankheiten 44: 585–588.
- Lindinger L (1936) Neue Beiträge zur Kenntnis der Schildläuse (Coccidae). Entomologische Zeitschrift 49: 444.
- Lindinger L (1943) Die Schildlausnamen in Fulmeks Wirtindex 1943. Arbeiten über Morphologische und Taxonomische Entomologie aus Berlin-Dahlem 10: 145–152.
- Linnaeus C (1758) Systema Naturae, per Regna Tria Naturae, Secundum Classes, Ordines, Genera, Species cum Characteribus, Differentiis, Synonymis, Locis. Laurentii Salvii, Holmiae, [1–4] 824 pp.
- Lotfalizadeh H, Ahmadi AA (2000) Natural enemies of cypress tree mealybug, *Planococcus vovae* (Nasonov), and their parasitoids in Shiraz, Iran. Iran Agricultural Research 19(2): 145–154.
- Löw F (1872) About *Diaspis cisci* Schrank, a scale insect living on mistletoe. Verhandlungen der Zoologisch-Botanischen Gesellschaft in Wien 22: 273–278.
- Löw F (1883) About a new pine tree coccid and the dimorphism of the male Coccid. Wiener Entomologische Zeitung 2: 3–7.
- Lucas H (1853) *Coccus ziziphi*. Annales de la Société Entomologique de France 1: 28–29.
- Lupo V (1948) Revisione delle cocciniglie Italiane. VI. (*Aspidiotus*, *Quadraspidiotus*, *Diaspidiotus*, *Rhizaspidotus*, *Nuculaspis*). Bollettino del R. Laboratorio di Entomologia Agraria. Portici 8: 137–208.
- MacGillivray AD (1921) The Coccidae. Tables for the Identification of the Subfamilies and Some of the More Important Genera and Species, together with Discussions. Scarab, Urbana, Ill. 502 pp.
- Malenotti E (1916) Specie nuove e critiche di diaspiti. Redia 11: 309–321.
- Marlatt CL (1908) New species of diaspine scale insects. United States Department of Agriculture, Bureau of Entomology, Technical Series 16: 11–32.
- Maskell WM (1879) On some Coccidae in New Zealand. Transactions and Proceedings of the New Zealand Institute 11: 187–228.
- Maskell WM (1891) Further coccid notes: with descriptions of new species from New Zealand, Australia, and Fiji. Transactions and Proceedings of the New Zealand Institute 23: 1–36.

- Maskell WM (1895) Further coccid notes: with description of new species from New Zealand, Australia, Sandwich Islands, and elsewhere, and remarks upon many species already reported. Transactions and Proceedings of the New Zealand Institute 27: 36–75.
- Maskell WM (1896) Further coccid notes, with descriptions of new species and discussions of questions of interest. Transactions and Proceedings of the New Zealand Institute 28: 380–411.
- Maskell WM (1897) On a collection of Coccidae, principally from China and Japan. Entomologist's Monthly Magazine 33: 239–244.
- Matile-Ferrero D (1984) Insects of Saudi Arabia Homoptera: Subordo Coccoidea. Fauna of Saudi Arabia 6: 219–228.
- McKenzie HL (1943) Miscellaneous diaspid studies including notes on *Chrysomphalus* (Homoptera: Coccoidea; Diaspididae). Bulletin of the California Department of Agriculture 32: 148–162.
- Miller DR, Davidson JA (2005) Armored Scale Insect Pests of Trees and Shrubs. Cornell Univ. Press, Ithaca, NY, 442 pp.
- Miller DR, Gimpel ME (2000) A Systematic Catalogue of the Eriococcidae (Felt Scales) (Hemiptera: Coccoidea) of the World. Intercept Ltd., Andover, U.K., 589 pp.
- Modeer A (1778) Om fastflyet. *Coccus*. Handlingar Gotheborgska Wetenskaps och Witterhets Samhallets. Wetenskaps Afdelingen. Gotheborg (ser. 1) 1: 11–50.
- Moghaddam M (1999) The record of *Dysmicoccus brevipes* (Cockerell) (Coccoidea: Pseudococcidae). Journal of Entomological Society of Iran 18(1/2): 44.
- Moghaddam M (2000) The first record of *Pinnaspis strachani* (Cooley) (Coccoidea: Diaspididae) in Iran. Journal of Entomological Society of Iran 19(1/2): 105–106.
- Moghaddam M (2000a) The first record of *Dynaspidotus tener* (Bazarov & Schmelev) (Hom.: Diaspididae) in Iran. Plant Pests and Diseases Research Institute 20(1): 111–112.
- Moghaddam M (2001) The first report on five species of scale insects from Iran. Applied Entomology and Phytopathology 69(1): 42–43.
- Moghaddam M (2002) The first report of two scale insects for Iran. Proceeding of the 15<sup>th</sup> Iranian Plant Protection Congress, 184.
- Moghaddam M (2003) New record of three scale insects (Hem.: Coccoidea) from Iran. Applied Entomology and Phytopathology 71 (1): 37–38.
- Moghaddam M (2004) The list of Coccoidea in the Insect Museum of Hayk Mirzayans in Plant Pests and Diseases Research Institute (1). Plant Pests & Diseases Research Institute, Insect Taxonomy Research Dept. No. 11: 55 pp.
- Moghaddam M (2004a) New record on three mealybugs (three species and two genera) (Hem. Coccoidea: Pseudococcidae) in Iran. Applied Entomology and Phytopathology 72(1): 23.
- Moghaddam M (2006) The mealybugs of southern Iran (Hem.: Coccoidea: Pseudococcidae). Journal of Entomology Society of Iran 26(1): 1–11.
- Moghaddam M (2009) Insects of Iran: The List of Coccoidea in the Hayk Mirzayans insect Museum of Iranian Research Institute of Plant Protection (2). Hemiptera: Coccoidea. Plant Pests & Diseases Research Institute, Insect Taxonomy Research Department, No. 16: 1–45.
- Moghaddam M (2010) Scale insect (Hemiptera: Coccoidea) fauna of the southern coast of Caspian Sea (Golestan, Mazandaran and Gilan Provinces, Iran). Journal of Entomological Society of Iran 29(2): 65–98.

- Moghaddam M (2010a) Two new species and a new record of mealybugs (Hemiptera, Coccoidea, Pseudococcidae) from Iran. *Zootaxa* 2619: 63–68.
- Moghaddam M (2013) A review of the mealybugs (Hemiptera: Coccoidea: Pseudococcidae, Putoidae and Rhizoecidae) of Iran, with descriptions of four new species and three new records for the Iranian fauna. *Zootaxa* 3632 (1): 1–107. doi: 10.11646/zootaxa.3632.1.1
- Moghaddam M, Alikhani M (2009) A new species, *Coccidohystrix burumandi* sp. n. (Hemiptera, Coccoidea, Pseudococcidae) from Iran. *Bollettino di Zoologia Agraria e di Bachicoltura* 41(3): 175–179.
- Moghaddam M, Alikhani M (2010) Two new species of mealybugs (Hemiptera, Coccoidea, Pseudococcidae) from Iran. *Journal of Entomological and Acarological Research (Ser. II)* 42(1): 11–17.
- Moghaddam M, Azadbakht N (2006) The first report of the genus and species of the scale insect, *Exaeretopus tritici* (Hem.: Coccioidea: Coccidae), from Iran. *Journal of Entomology Society of Iran* 25(2): 89–90.
- Moghaddam M, Bagheri AN (2011) A new record of mealybug pest in the south of Iran, *Phenacoccus solenopsis* (Hemiptera: Coccoidea: Pseudococcidae). *Journal of Entomological Society of Iran* 30 (1): 67–69.
- Moghaddam M, Tavakoli M (2010) Scale insects of the central Zagros Region in Iran (Hemiptera: Coccoidea). *Applied Entomological and Phytopathological* Vol. 77 (2): 25–46.
- Morgan ACF (1889) Observations on Coccidae (No. 5). *Entomologist's Monthly Magazine* 25: 349–353.
- Nasonov NV (1909) Sur quelques nouvelles coccides. *Ezhegodnik Zoologicheskogo Muzeya Imperatorskoi Akademii Nauk, St. Petersburg* 13: 471–499.
- Newman E (1869) *Coccus beckii*, a new British hemipteron of the family Coccidae. *The Entomologist* 4: 217–218.
- Newstead R (1894) Scale insects in Madras. *Indian Museum Notes* 3: 21–32.
- Newstead R (1896) Observations on Coccidae (No. 15). *Entomologist's Monthly Magazine* 32: 132–134.
- Newstead R (1898) Observations on Coccidae (No. 17). *Entomologist's Monthly Magazine* 34: 92–99.
- Newstead R (1901) Observations on Coccidae (no. 19). *Entomologist's Monthly Magazine* 37: 81–86.
- Newstead R (1911) Observations on African scale insects (Coccidae). (No.3). *Bulletin of Entomological Research* 2: 85–104. doi: 10.1017/S0007485300001255
- Olivier GA (1791) Cochenille. *Coccus*. Genre d'insectes de la première section de l'ordre des Hemiptères. *Encyclopedie methodique*, Paris, 85–100.
- Packard AS (1869) *Guide to the Study of Insects, and a Treatise on those Injurious and Beneficial to Corps: for the use of Colleges, Farm-Schools, and Agriculturists*. Naturalist's Book Agency & Trubner & Co., Salem & London, 702 pp.
- Ramachandra Rao Y (1922) The pests of the date palm in the Iraq. *Mesopotamia Department of Agriculture Memoirs* 6: 1–12.

- Risso A (1813) Mémoire sur l'histoire naturelle des oranges, bigaradiers, limettiers, cédratiers limoniers ou citroniers, cultivés dans le département des alpes maritimes. Annales du Muséum National d'Histoire Naturelle. Paris 20: 169–212, 401–431.
- Rosen D, DeBach P (1979) Species of *Aphytis* of the World (Hymenoptera: Aphelinidae). (Series Entomologica: vol. 17). Dr. W. Junk, The Hague, Boston, London, 801 pp.
- Rübsaamen EH (1902) Message on the Zoocecidien collected by Mr. J. Bornmuellier in the orient. Zoologische Jahrbücher Abteilung für Systematik, Geog., und Biol. der Tiere 16: 243–336.
- Russell LM (1941) A classification of the scale insect genus *Asterolecanium*. United States Department of Agriculture, Miscellaneous Publications 424: 1–319.
- Safar Alizadeh MH, Bahador M (1987) Presentation of a pest of wheat (*Porphyrophora tritici* Bod.). Journal of the Entomological Society of Iran 9: 1–2, 7–8.
- Schmutterer H (1952) The ecology of the Cocciden (Homoptera, Coccoidea) Franconia. 2. paragraph. Zeitschrift für Angewandte Entomologie 33: 369–420, 544–584; 34: 65–100.
- Seghatoleslami H (1977) List of scale insects (Fam. Diaspididae) of Iran. Journal of the Entomological Society of Iran 4: 5–19.
- Schrank F (1781) Coccus, Gallinsect. Numeratio Insectorum Austriae Indigenorum. Augustae Vindelicorum, 552 pp.
- Signoret V (1869) Essay on the gall forming insects (Homoptera - Coccidae) - 2nd Part. Annales de la Société Entomologique de France 8: 829–876.
- Signoret V (1869a) Quelques observations sur les cochenilles connues sous le nom de Pou a poche blanche qui ravagent les plantations de cannes a sucre a l'île Maurice et a l'île de la Réunion. Annales de la Société Entomologique de France (serie 4) 9: 93–96.
- Signoret V (1869b) Essai sur les cochenilles ou gallinsectes (Homoptères - Coccides), 5e partie. Annales de la Société Entomologique de France 9: 431–452.
- Signoret V (1870) Essay on the gall forming insects (Homoptera - Coccidae) - 6th Part. Annales de la Société Entomologique de France (serie 4) 10: 91–110.
- Signoret V (1873) Essay on the gall forming insects (Homoptera - Coccidae) - 10th Part. Annales de la Société Entomologique de France (serie 5) 3: 27–48.
- Signoret V (1873a) Essay on the gall forming insects (Homoptera - Coccidae) - 11th Part. Annales de la Société Entomologique de France (serie 5) 3: 395–448.
- Signoret V (1875) Essay on the gall forming insects (Homoptera - Coccidae) - 15th Part. Annales de la Société Entomologique de France (serie 5) 5: 305–352.
- Signoret V (1876) Note on a new species of *Aspidiotus*. Annales de la Société Entomologique de France, Bulletin Entomologique (serie 5) 6: lii–liii.
- Stumpf CF, Lambdin PL (2006) Pit scales (Sternorrhyncha: Coccoidea) of North and South America. Tennessee Agricultural Experiment Station, University of Tennessee Institute of Agriculture, Knoxville, Tennessee, xix + 231 pp.
- Šulc K (1895) Studie o coccidech. I. Sitzungsberichte der Königlichen Böhmisches Gesellschaft der Wissenschaften in Prag 49: 1–27.
- Šulc K (1898) Studie o coccidech. -II. Sitzungsberichte der K. Bohmisch Gesellschaft der Wissenschaften (1897) 66: 1–19.



- Takagi S (1970) Diaspididae of Taiwan based on material collected in connection with the Japan-U.S. Cooperative Science Programme, 1965 (Homoptera: Coccoidea). Pt. II. Insecta Matsumurana 33: 1–146.
- Takagi S, Moghaddam M (2005) New or noteworthy armoured scale insects occurring in Iran (Homoptera: Coccoidea: Diaspididae). Insecta Matsumurana 61: 43–74.
- Takahashi R (1936) Some Coccidae from China (Hemiptera). Peking Natural History Bulletin 10: 217–222.
- Tang FT, Hao J (1995) The Margarodidae and others of China. Chinese Agricultural Science Technology Press, Beijing, P. R. China, 738 pp.
- Targioni Tozzetti A (1867) Studii sulle Cocciniglie. Memorie della Società Italiana di Scienze Naturali. Milano 3(3): 1–87.
- Targioni Tozzetti A (1881) Relazione intorno ai lavori della R. Stazione di Entomologia Agraria di Firenze per gli anni 1877–78. Parte scientifica. Fam. coccidi. Annali di Agricoltura. (Ministero di Agricoltura, Industria e Commercio). Firenze, Roma 1881: 134–161.
- Targioni Tozzetti A (1886) Sull'insetto che danneggia i gelsi. Rivista di Bachicoltura 18: 1–3.
- Targioni Tozzetti A (1892) *Aonidia blanchardi*, new species of the scale insect of date palm in the Sahara. Mémoires de la Société Zoologique de France 5: 69–82.
- Tinsley JD (1898) Notes on Coccidae, with descriptions of new species. Canadian Entomologist 30: 317–320. doi: 10.4039/Ent30317-12
- Torabi M, Vahedi HA, Hodgson CJ (2010) Preliminary survey of the scale insects fauna in Kermanshah, western Iran. Entomologia Hellenica 19: 153–162.
- Tsai MY, Wu WJ (2011) A new *Chorizococcus* species (Coccoidea, Pseudococcidae) from Taiwan with transferring of *Chorizococcus mirzayansi* Moghaddam to genus *Spilococcus* Ferris. ZooKeys 103: 27–40. doi: 10.3897/zookeys.103.1215
- Ülgen Türk S, Kozár F (2011) A new scale insect genus, *Torosaspis* (Hemiptera: Sternorrhyncha: Coccoidea: Diaspididae), with a new species, *Torosaspis turcica*, from Turkey. Zootaxa 2907: 63–68.
- Vahedi HA (2001) The biology of *Porphyrophora tritici* (Hemiptera: Coccoidea: Margarodidae) and the effect of some farming practices on its populations in Kermanshah, Iran. Entomologica 33(1999): 357–363.
- Vahedi HA (2002) A Revision of the Genus *Porphyrophora* (Hemiptera: Coccoidea: Margarodidae) with Particular Reference to the Middle East and with a Discussion on the Relationships of the Hypogaecic Margarodids. Department of Agricultural Sciences, Imperial College at Wye, Wye, Ashford, Kent, UK, 358 pp.
- Vahedi HA, Gholami Mahfar F (2010) Scanning electron microscope observations on the multilocular disc-pores and dermal projections of adult female *Porphyrophora tritici* and *P. cynodontis*. Entomologia Hellenica 19: 76–81.
- Vahedi HA, Hodgson CJ (2002) A study of a species of *Lithophyllus* (Coleoptera: Coccinellidae), a predator of *Porphyrophora* species (Hemiptera: Coccoidea: Margarodidae) from Iran. Bollettino di Zoologia Agraria e di Bachicoltura (Milano) 33(3): 515.
- Vahedi HA, Hodgson CJ (2002a) A brief review of the characters and character-states for separating species of *Porphyrophora* (Hemiptera: Coccoidea: Margarodidae). Bollettino di Zoologia Agraria e di Bachicoltura (Milano) 33(3): 516.

- Vahedi HA, Hodgson CJ (2007) Some species of the hypogeal scale insect *Porphyrophora* Brandt (Hemiptera: Sternorrhyncha: Coccoidea: Margarodidae) from Europe, the Middle East and North Africa. *Systematics and Biodiversity* 5(1): 23–122. doi: 10.1017/S1477200006002039
- Vahedi HA, Hodjat SH (1996) An outline of the morphology and bio-ecology of *Prophyrophora tritici* (BOD.) (Homoptera, Margarodidae). *The Scientific Journal of Agriculture Shahid Chamran Univ. Press (Iran Islamic Republic)* 18(1/2).
- Walker F (1852) List of the Specimens of Homopterous Insects in the Collection of the British Museum, Part IV. *British Museum (Natural History), London*, 1188 pp.
- Westwood JO (1840) *An Introduction to the Modern Classification of Insects; Founded on the Natural Habits and Corresponding Organization of Different Families. Vol. II.* Longman, Orme, Brown, Green and Longmans, London, 587 pp.
- Westwood JO (1870) The camellia coccus *Coccus flocciferus* Westw. *Gardeners' Chronicle and Agricultural Gazette* 10: 308.
- Williams DJ (1969) Correction: *Insulaspis pallidula* nom. n. (Hem., Coccoidea). *Entomologist's Monthly Magazine* 105: 114.
- Williams DJ (1970) The mealybugs (Homoptera, Coccoidea, Pseudococcidae) of sugarcane, rice and sorghum. *Bulletin of Entomological Research* 60: 109–188. doi: 10.1017/S0007485300034209
- Williams DJ (1977) A new species of *Exaeretopus* Newstead (Homoptera: Coccidae) attacking wheat in Iraq. *Bulletin of Entomological Research* 67: 281–284. doi: 10.1017/S0007485300011093
- Williams DJ (1984) Two new species of *Eurycoccus* (Hemiptera: Pseudococcidae) on tamarix from Pakistan. *Bulletin of Entomological Research* 74: 535–540. doi: 10.1017/S0007485300015807
- Williams DJ, Moghaddam M (1999) Mealybugs species of the genus *Planococcus* Ferris in Iran (Hom.: Coccoidea, Pseudococcidae) with discussion of *P. vovae* Nasonov. *Journal of Entomological Society of Iran* 18 (1, 2): 32–42.
- Williams DJ, Moghaddam M (2007) A new species of *Rhodania* Goux (Hemiptera, Coccoidea, Pseudococcidae) and new records of two other mealybug species from Iran. *Zootaxa* 1398: 37–44.