

## Article

### A catalog of Iranian prostigmatic mites of superfamilies Raphignathoidea & Tetranychoida (Acari)

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#### Abstract

This catalog comprises 56 genera and 266 species of mite names of superfamilies Raphignathoidea and Tetranychoida recorded from Iran at the end of January, 2013. Data on the mite distributions and habitats based on the published information are included. Remarks about the incorrect reports and nomen nudum species are also presented.

**Key words:** Checklist, mite, habitat, distribution, Iran.

#### Introduction

Apparently the first checklist about mites of Iran was that of Farahbakhsh in 1961. Subsequently the following lists were published: “*The 20 years researches of Acarology in Iran, List of agricultural pests and their natural enemies in Iran, A catalog of mites and ticks (Acari) of Iran and Injurious mites of agricultural crops in Iran*” are four main works (Sepasgosarian 1977; Modarres Awal 1997; Kamali *et al.* 2001; Khanjani & Haddad Irani-Nejad 2006).

Prostigmatic mites consist of parasitic, plant feeding and beneficial predatory species and is the major group of Acari in the world. Until 2011, 26205 species were described in this suborder, of which 4728 species belong to the cohort Raphignathina and tetranychoid and raphignathoid mites include 2211 and 877 species respectively (Zhang *et al.* 2011), and among them, 266 species of these superfamilies were found in Iran.

The aim of this paper is to list all of the mites belonging to superfamilies Raphignathoidea and Tetranychoida till the end of January 2013 and clarifying some of the previous reports from Iran. Hopefully this will enhance the knowledge of this important group of mites for future research in Iran. All available published articles, checklists, books, congress proceedings and abstracts of congresses reporting Raphignathina fauna of Iran were considered.

During our literature review, we came across the following mistakes:

1. Using unpublished data in articles.
2. Wrongly synonymizing species.
3. Ignoring the reports of some species.
4. Some wrongly claimed species as first reports from Iran.

This catalog is arranged in this way: Under each species, synonyms, if available, distribution (provinces in Iran) with references, and the habitat(s) are given. Remarks to clarify or correct some of the information are also included. Names of superfamilies, families, genera and species are arranged alphabetically according to the Raphignathina higher classification by Walter *et al.* (2009). A map of provinces of Iran (Fig. 1), number of genera and species of raphignathoid and tetranychoid mites recorded from Iran (Table 1) and scientific names of host plants (Table 2) are presented.

**Order Trombidiformes**  
**Suborder Prostigmata**  
**Supercohort Eleutherengonides**  
**Cohort Rhaphignathina**

**Superfamily Rhaphignathoidea**

**Family Barbutiidae Robaux, 1975**  
**Genus *Barbutia* Oudemans, 1927**

**1. *Barbutia australia* Fan, Walter & Proctor, 2003**

Distribution in Iran: East Azarbaijan (Navaei-Bonab *et al.* 2010).

Habitat in Iran: Fields and orchards.

**2. *Barbutia iranensis* Bagheri, Navaei-Bonab & Ueckermann, 2010**

Distribution in Iran: East Azarbaijan (Bagheri *et al.* 2010c; Navaei-Bonab *et al.* 2012).

Habitat in Iran: Soil samples, soil of apple orchards.

**Family Caligonellidae Grandjean, 1944**  
**Genus *Caligonella* Berlese, 1910**

**1. *Caligonella afroensis* Meyer & Ueckermann, 1989**

Distribution in Iran: Ardabil (Haddad Irani-Nejad *et al.* 1999).

Habitat in Iran: Cotton litter samples.

**2. *Caligonella humilis* (Koch, 1838)**

*Stigmaeus humilis* Koch, 1838 (Original designation)

Distribution in Iran: Hamedan (Ueckermann & Khanjani 2003; Rostami *et al.* 2010d, e, 2012), Razavi Khorasan (Rahmdeli *et al.* 2011), Kerman (Changizi *et al.* 2011a, b), East Azarbaijan (Bagheri *et al.* 2011e; Gheblealivand *et al.* 2011a; Bagheri & Ahani-Azad 2012; Navaei-Bonab *et al.* 2012).

Habitat in Iran: Weeds, soil of plum and apple orchards, soil of alfalfa fields; leaf litter, soil under liquorice, soil under Sainfoins.

**Genus *Coptocheles* Summers & Schlinger, 1955**

**1. *Coptocheles farsiensis* Ueckermann, Khademi & Saboori, 2010**

Distribution in Iran: Fars (Ueckermann *et al.* 2010).

Habitat in Iran: Soil of citrus orchards.

### **Genus *Molothrognathus* Summers & Schlinger, 1955**

#### **1. *Molothrognathus azizi* Ueckermann & Khanjani, 2003**

Distribution in Iran: East Azarbaijan (Bagheri *et al.* 2006a, 2011e; Gheblealivand *et al.* 2011a; Bagheri & Ahani-Azad 2012), Kermanshah (Baharloo *et al.* 2006; Babakfard *et al.* 2008), Hamedan (Ueckermann & Khanjani 2003; Rostami *et al.* 2010d, e), Fars (Khademi *et al.* 2006; Majidi & Akrami 2011), Kerman (Changizi *et al.* 2011a, b), West Azarbaijan (Zarei *et al.* 2011).

Habitat in Iran: Weeds, fruit tree, citrus orchards, soil covered with grass, alfalfa, chickpea, lentil plant, common bean, camelthorn, pagoda tree, liquorice, black locust, leaves, fruits and trunk fiber of date palms.

#### **2. *Molothrognathus bahariensis* Ueckermann & Khanjani, 2003**

Distribution in Iran: East Azarbaijan (Bagheri *et al.* 2006a, 2007, 2011e; Lotfollahi *et al.* 2010; Bagheri & Ahani-Azad 2012; Navaei-Bonab *et al.* 2012), Kermanshah (Babakfard *et al.* 2008), Hamedan (Ueckermann & Khanjani 2003), Razavi Khorasan (Rahmdeli *et al.* 2011), Kerman (Changizi *et al.* 2011a, b).

Habitat in Iran: Field and also trees, weeds, clover, soil sample, common bean, black locust, grass, alfalfa fields, camelthorn, soil of apple and pear orchards, soil of squash fields.

#### **3. *Molothrognathus fulgidus* Summers & Schlinger, 1955**

Distribution in Iran: Hamedan (Khanjani & Kamali 1993, 2000b; Ueckermann & Khanjani 2003; Khanjani & Mirab-Balou 2004), Khuzestan (Kamali *et al.* 2001).

Habitat in Iran: Fabaceae plants, bean plant, locoweed, camelthorn, *Sorghum* sp., date palm, pagoda tree, sophore.

#### **4. *Molothrognathus mehrnejadi* Liang & Zhang, 1997**

Distribution in Iran: Kerman (Liang & Zhang 1997; Changizi *et al.* 2011a, b), Isfahan (Jalaeian *et al.* 2005a), Hamedan (Ueckermann & Khanjani 2003), Razavi Khorasan (Rahmdeli *et al.* 2011), Sistan and Baluchestan (Savadi *et al.* 2011), Fars (Majidi & Akrami 2011; Yazdanpanah *et al.* 2012a, b), East Azarbaijan (Gheblealivand *et al.* 2011a; Bagheri *et al.* 2011e; Navaei-Bonab *et al.* 2012; Bagheri & Ahani-Azad 2012), West Azarbaijan (Zarei *et al.* 2011).

Habitat in Iran: Fruit tree foliage, weeds, soil of plum orchards, grass, pagoda tree, camelthorn, common bean, clover, pistachio collar soil, pistachio bark stem, soil of fruit orchards, soil of alfalfa fields, leaves, fruits and trunk fiber of date palms, orchards and crop fields, soil under oak trees.

#### **5. *Molothrognathus mikaeli* Bagheri & Ahani-Azad, 2012**

Distribution in Iran: East Azarbaijan (Ahani-Azad & Bagheri 2012).

Habitat in Iran: Soil from black cherry and pear orchards.

#### **6. *Molothrognathus minutus* Soliman, 1971**

Distribution in Iran: Hamedan (Khanjani & Kamali 1993).

Habitat in Iran: Fabaceae plants, leaf litter.

#### **7. *Molothrognathus phytocolus* Meyer & Ueckermann, 1989**

Distribution in Iran: Markazi (Soroosh & Kamali 2002b).

Habitat in Iran: Pomegranate orchard.

**8. *Molothrognathus terrulentus* Meyer & Ueckermann, 1989**

Distribution in Iran: Hamedan (Khanjani & Kamali 2000b), Khuzestan (Barimani-Varandi & Kamali 2000), West Azarbaijan (Haddad Irani-Nejad *et al.* 2005).

Habitat in Iran: Bean plant, cypress trees, camelthorn, pagoda tree, locust tree, locoweed, chick pea, liquorice, soil and leaf litter samples, sugar beet.

**9. *Molothrognathus tumipalpus* Meyer & Ueckermann, 1989**

Distribution in Iran: Kerman (Changizi *et al.* 2011a, b).

Habitat in Iran: Soil samples.

*Remarks:* Ahani-Azad & Bagheri (2012) reported four species of this genus from Iran including one new species. As far as we know, nine species of this genus have been reported from Iran to date.

**Genus *Neognathus* Willmann, 1952**

**1. *Neognathus eupalopus* Meyer & Ueckermann, 1989**

Distribution in Iran: Kerman (Changizi *et al.* 2011b), West Azarbaijan (Zarei *et al.* 2011), East Azarbaijan (Bagheri & Ahani-Azad 2012).

Habitat in Iran: Orchards and crop fields; Weeds.

**2. *Neognathus spectabilis* (Summers & Schlinger, 1955)**

*Stigmagnathus spectabilis* Summers & Schlinger, 1955 (Original designation).

Distribution in Iran: Razavi Khorasan (Rahmdeli *et al.* 2011), West Azarbaijan (Zarei *et al.* 2011).

Habitat in Iran: Soil of fruit orchards, weeds.

**3. *Neognathus terrestris* (Summers & Schlinger, 1955)**

*Stigmagnathus terrestris* Summers & Schlinger, 1955 (Original designation).

Distribution in Iran: Hamedan (Ueckermann & Khanjani 2003; Rostami *et al.* 2010d, e, 2012), West Azarbaijan (Haddad Irani-Nejad *et al.* 2005; Zarei *et al.* 2011), Razavi Khorasan (Rahmdeli *et al.* 2011), Kerman (Changizi *et al.* a, b), East Azarbaijan (Gheblealivand *et al.* 2011a; Bagheri *et al.* 2011e; Navaei-Bonab *et al.* 2012; Bagheri & Ahani-Azad 2012), Golestan (Shirinbeik-Mohajer *et al.* 2012).

Habitat in Iran: Crops, weeds, pear orchards, soil of alfalfa fields, sugar beet, soil under pagoda tree, soil samples from plum orchards.

**4. *Neognathus ueckermanni* Bagheri, Doğan & Haddad Irani-Nejad, 2010**

Distribution in Iran: East Azarbaijan (Bagheri *et al.* 2010a, e).

Habitat in Iran: Soil of alfalfa fields.

**Genus *Paraneognathus* Fan, 2000**

**1. *Paraneognathus oblongus* (Soliman, 1971)**

*Neognathus oblongus* Soliman, 1971 (Original designation).

Distribution in Iran: Guilan (Noei *et al.* 2008).

Habitat in Iran: Stored rice.

**2- *Paraneognathus wangae* (Fan & Li, 1995)**

*Sinognathus wangae* Fan & Li, 1995 (Original designation).

Distribution in Iran: Markazi (Ardeshir & Bagheri 2012).

Habitat in Iran: Stored wheat in flour mills.

*Remarks:* Ardeshir & Bagheri (2012) mentioned this genus as new record for Iran and ignored the earlier work by Noei *et al.* (2008) from northern part of Iran.

**Family Camerobiidae Southcott, 1957**

**Genus *Neophyllobius* Berlese, 1886**

**1. *Neophyllobius asalii* Khanjani & Ueckermann, 2006**

Distribution in Iran: Lorestan (Khanjani & Ueckermann 2006).

Habitat in Iran: Samples of grass litter.

**2. *Neophyllobius astragalusi* Khanjani & Ueckermann, 2002**

Distribution in Iran: Hamedan (Khanjani & Ueckermann 2002a; Khanjani & Mirab-Balou 2004), Fars (Yazdanpanah *et al.* 2012a, b).

Habitat in Iran: Samples of soil under astragal plant, soil under oak trees.

**3. *Neophyllobius bamiensis* Khanjani, Asadabadi, Izadi & Doğan, 2012**

Distribution in Iran: Kerman (Khanjani *et al.* 2012b).

Habitat in Iran: Bark of date trees.

**4. *Neophyllobius camelli* Khanjani & Ueckermann, 2002**

Distribution in Iran: Guilan (Khanjani & Ueckermann 2002a).

Habitat in Iran: Litter of tea.

**5. *Neophyllobius combreticola* Bolland, 1991**

Distribution in Iran: Markazi (Soroosh & Kamali 2002b).

Habitat in Iran: Pomegranate orchards.

**6. *Neophyllobius kamalii* Khanjani, Asali-Fayaz & Ghanbalani, 2010**

Distribution in Iran: Kermanshah (Khanjani *et al.* 2010a).

Habitat in Iran: Pomegranate leaves infested by *Cenopalpus irani* Dosse, 1971.

**7. *Neophyllobius mitrae* Khanjani, Molavi & Ueckermann, 2011**

Distribution in Iran: Khuzestan (Khanjani *et al.* 2011d).

Habitat in Iran: Soil under date trees.

**8. *Neophyllobius niloticus* Bolland, 1991**

Distribution in Iran: Kerman (Dehghan-Dolati *et al.* 2011).

Habitat in Iran: Leaves, trunk and soil under palm trees.

**9. *Neophyllobius persiaensis* Khanjani & Ueckermann, 2002**

Distribution in Iran: Hamedan (Khanjani & Ueckermann 2002a), Kerman (Changizi *et al.* 2011a, b), East Azarbaijan (Gheblealivand *et al.* 2011a; Bagheri *et al.* 2011e; Navaei-Bonab *et al.* 2012), West Azarbaijan (Zarei *et al.* 2011).

Habitat in Iran: Samples of litter near road and litter under sophore plant, orchards and crop fields, weeds, soil of apple orchards, soil of alfalfa fields.

*Remarks:* Navaei-Bonab *et al.* (2012) claimed recording this species for the first time from East Azarbaijan province, but this species was reported before, as mentioned above.

**10. *Neophyllobius pistaciae* Bolland & Mehrnejad, 2001**

Distribution in Iran: Fars (Khademi *et al.* 2006), Kerman (Bolland & Mehrnejad 2001; Mehrnejad & Ueckermann 2001), Hamedan (Khanjani & Ueckermann 2002a).

Habitat in Iran: Citrus orchards, bark of trees, leaves and twigs of Mt. atlas mastic tree,

pistachio orchards infested with scale insect colonies, astragal, soil covered with clover, alfalfa fields.

**11. *Neophyllobius zolfigolii* Khanjani, Asali-Fayaz & Ghanbalani, 2010**

Distribution in Iran: Hamedan (Khanjani *et al.* 2010a), Razavi Khorasan (Salarzahi *et al.* 2012).

Habitat in Iran: Soil under wild rose bush, soil of vineyards.

**Genus: *Tycherobius* Bolland, 1986**

**1. *Tycherobius farsiensis* Khanjani, Yazdanpanah, Ostovan & Asali-Fayaz, 2012**

Distribution in Iran: Fars (Khanjani *et al.* 2012e).

Habitat in Iran: Soil and rotten leaves under oak trees.

**2. *Tycherobius iranensis* Khanjani, Yazdanpanah, Ostovan & Asali-Fayaz, 2012**

Distribution in Iran: Fars (Khanjani *et al.* 2012e).

Habitat in Iran: Soil and rotten leaves under oak trees.

**3. *Tycherobius ueckermanni* Khanjani, Yazdanpanah, Ostovan & Asali-Fayaz, 2012**

Distribution in Iran: Fars (Khanjani *et al.* 2012e).

Habitat in Iran: Soil and rotten leaves under oak trees.

*Remarks:* Jalaieian & Nourbakhsh (2005) and then Nejadqanbar *et al.* (2011) reported two unidentified species of *Tycherobius* from Iran. Therefore, the work by Khanjani *et al.* (2011) was not the first report of the genus from Iran.

**Family Cryptognathidae Oudemans, 1902**

**Genus *Favognathus* Luxton, 1973**

**1. *Favognathus mirazii* Khanjani & Ueckermann, 2008**

Distribution in Iran: East Azarbaijan (Bagheri *et al.* 2006a, 2011e), Kurdistan (Khanjani & Ueckermann 2008b), Fars (Beyzavi & Ostovan 2012).

Habitat in Iran: Soil of orchards, field crops, weeds, soil under pear tree, soil in strawberry fields, soil and humus under oak trees.

*Remarks:* This species was described by Khanjani & Ueckermann in 2008, based on same material collected by Mohammad Bagheri, Bagheri *et al.* (2006a) used this name in an abstract two years before valid publication.

**2. *Favognathus luxtoni* Koc & Ayyildiz, 1999**

Distribution in Iran: East Azarbaijan (Gheblealivand *et al.* 2011a).

Habitat in Iran: Orchards and field crops.

**Family Eupalopsellidae Willmann, 1952**

**Genus *Eupalopsellus* Sellnick, 1949**

**1. *Eupalopsellus crotovallaris* Van-Dis & Ueckermann, 1993**

Distribution in Iran: East Azarbaijan (Bagheri *et al.* 2006a).

Habitat in Iran: Soil of orchards, field and also trees, crops, weeds.

**2. *Eupalopsellus hamedaniensis* Khanjani, Eghbalian, Ueckermann & Pourmirza, 2007**

Distribution in Iran: Hamedan (Khanjani *et al.* 2007, 2011f; Eghbalian *et al.* 2007; Khanjani & Eghbalian 2008b; Rostami *et al.* 2010a, b, c, d, e, 2011, 2012).

Habitat in Iran: Cherry and plum leaves infested with *Bryobia rubrioculus* (Scheuten, 1857), fruit trees, crop fields, soil samples of plum orchards, weeds, yarrow.

### **3. *Eupalopsellus olandicus* Sellnick, 1949**

Distribution in Iran: East Azarbaijan (Bagheri *et al.* 2006a), Razavi Khorasan (Sadeghi-Nameghi 2010).

Habitat in Iran: Soil of orchards, field and also trees, crop fields, weeds.

### **4. *Eupalopsellus prasadi* Bagheri & Khanjani, 2009**

Distribution in Iran: Zanjan (Bagheri & Khanjani 2009), East Azarbaijan (Bagheri *et al.* 2011e).

Habitat in Iran: Soil under apple tree.

### **5. *Eupalopsellus ueckermanni* Khanjani, Masoudian & Asali-Fayaz, 2011**

Distribution in Iran: Hamedan (Khanjani *et al.* 2011c).

Habitat in Iran: Yarrow plant foliage infested with *Tetranychus urticae* Koch, 1836.

## **Family Raphignathidae Kramer, 1877**

### **Genus *Raphignathus* Dugès, 1834**

#### **1. *Raphignathus aciculatus* Fan, 2000**

Distribution in Iran: East Azarbaijan (Ghorbani *et al.* 2010, 2013).

Habitat in Iran: Soil of apricot orchards.

#### **2. *Raphignathus aethiopicus* Meyer & Ryke, 1960**

Distribution in Iran: Golestan (Shirinbeik-Mohajer *et al.* 2012).

Habitat in Iran: Soil samples.

#### **3. *Raphignathus africanus* Smith-Meyer & Ueckermann, 1989**

Distribution in Iran: Razavi Khorasan (Doğan *et al.* 2012).

Habitat in Iran: Soil of orchards.

#### **4. *Raphignathus atyeoi* Smith-Meyer & Ueckermann, 1989**

Distribution in Iran: Kerman (Dehghan-Dolati *et al.* 2011).

Habitat in Iran: Leaves, trunk and soil under palm trees.

#### **5. *Raphignathus azarshahriensis* Ahani-Azad, Bagheri, Gharakhani & Zarei, 2012**

Distribution in Iran: East Azarbaijan (Ahani-Azad *et al.* 2012b).

Habitat in Iran: Soil of black cherry, walnut and almond orchards.

#### **6. *Raphignathus bakeri* Zaher & Gomaa, 1980**

Distribution in Iran: West Azarbaijan (Mosavi *et al.* 2004), Fars (Sahraeian *et al.* 2006), Zanjan (Rahmani *et al.* 2011).

Habitat in Iran: Potato fields, date palm, weeds, crop fields.

#### **7. *Raphignathus collegiatus* Atyeo, Baker & Crossley, 1961**

Distribution in Iran: Ardabil (Haddad Irani-Nejad *et al.* 1999), Isfahan (Jalaeian *et al.* 2005a), Hamedan (Khanjani & Ueckermann 2003; Rostami *et al.* 2010d, 2012), Kerman (Changizi *et al.* 2011a, b), East Azarbaijan (Gheblealivand *et al.* 2011a), West Azarbaijan (Zarei *et al.* 2011), Fars (Arabzadeh *et al.* 2012).

Habitat in Iran: Cotton field soil samples, fruit tree foliage, weeds, soil sample of plum orchards, soil underneath liquorice, orchards and crop fields, bark of apple trees

damaged by scolytids.

*Remarks:* This species was reported first by Haddad Irani-Nejad *et al.* (1999) and not by Khanjani & Ueckermann (2003).

#### **8. *Raphignathus ehari* Zaher & Gomaa, 1980**

Distribution in Iran: Ardabil (Haddad Irani-Nejad *et al.* 1999).

Habitat in Iran: Cotton field soil samples.

#### **9. *Raphignathus giselae* Smith-Meyer & Ueckermann, 1989**

Distribution in Iran: Guilan (Noei *et al.* 2008), East Azarbaijan (Ghorbani *et al.* 2010, 2013; Gheblealivand *et al.* 2011a; Bagheri *et al.* 2011e; Navaei-Bonab *et al.* 2012; Ahani-Azad *et al.* 2012a), Ardabil (Haddad Irani-Nejad *et al.* 1999), Isfahan (Jalaeian *et al.* 2005a), Kerman (Changizi *et al.* 2011), Fars (Majidi & Akrami 2011) (Changizi *et al.* 2011b), West Azarbaijan (Zarei *et al.* 2011), Razavi Khorasan (Paktinat-Saeed *et al.* 2012a).

Habitat in Iran: Stored rice, soil of pomegranate orchards, soil of crop fields like cotton and sunflower, weeds, fruit tree foliage, leaves, fruits and trunk fiber of date palms, soil of apple orchards, soil under apricot trees.

*Remarks:* Ghorbani *et al.* (2013) inadvertently claimed to record this species from East Azarbaijan.

#### **10. *Raphignathus gracilis* (Rack, 1962)**

*Acheles gracilis* Rack, 1962 (Original designation).

Distribution in Iran: East Azarbaijan (Bagheri *et al.* 2006a, 2011e; Ghorbani *et al.* 2010, 2013; Gheblealivand *et al.* 2011a; Navaei-Bonab *et al.* 2012; Ahani-Azad *et al.* 2012a), West Azarbaijan (Haddad Irani-Nejad *et al.* 2005; Zarei *et al.* 2011), Khuzestan (Darvish-Zadeh & Kamali 2009), Kerman (Mehrnejad & Ueckermann 2001), Ardabil (Haddad Irani-Nejad *et al.* 1999).

Habitat in Iran: Soil of orchards, field crops, weeds, cotton field soil samples, sugar beet, grapevine, pistachio orchards, soil of apple orchards, soil of alfalfa and wheat fields.

*Remarks:* Ghorbani *et al.* (2013) claimed to record this species for the first time from East Azarbaijan ignoring some earlier works.

#### **11. *Raphignathus hecmatanaensis* Khanjani & Ueckermann, 2003**

Distribution in Iran: Fars (Sahraeian *et al.* 2006; Khademi *et al.* 2006; Majidi & Akrami 2011; Beyzavi & Ostovan 2012), Guilan (Noei *et al.* 2008), Hamedan (Khanjani & Ueckermann 2003; Rostami *et al.* 2010d, e, 2012), East Azarbaijan (Ghorbani *et al.* 2010, 2013; Gheblealivand *et al.* 2011a; Bagheri *et al.* 2011e; Navaei-Bonab *et al.* 2012; Ahani-Azad *et al.* 2012a), Tehran (Kamali *et al.* 2006), Kermanshah (Khanjani & Ueckermann 2003), Kerman (Changizi *et al.* 2011a, b; Dehghan-Dolati *et al.* 2011), West Azarbaijan (Zarei *et al.* 2011).

Habitat in Iran: Date palm, stored rice, crop fields, soil samples, weeds, fruit orchards, citrus orchards, sample of grasses, soil covered with wheat, sample of tragacanth, pagoda tree and liquorice plants, leaves, fruits and trunk fiber of date palms, soil of apple orchards, soil of alfalfa fields, soil of plum orchards, soil and humus under oak trees.

*Remarks:* According to our data, this species is the most diverse *Raphignathus* in Iran. Not aware of previous works, Ghorbani *et al.* (2013) claimed that their record was the

first for East Azarbaijan province. They also overlooked the records of this species from other parts of Iran.

**12. *Raphignathus hexeris* Chaudhri, 1979**

Distribution in Iran: Hamedan (Khanjani & Kamali 1993).

Habitat in Iran: Fabaceae plants, soil sample.

**13. *Raphignathus larestanensis* Bagheri, Akrami & Majidi, 2012**

Distribution in Iran: Fars (Bagheri *et al.* 2012a).

Habitat in Iran: Fibers of date palms.

**14. *Raphignathus protaspus* Khanjani & Ueckermann, 2003**

Distribution in Iran: Hamedan (Khanjani & Ueckermann 2003; Rostami *et al.* 2010d, e), East Azarbaijan (Ghorbani *et al.* 2010; Bagheri *et al.* 2011e; Navaei-Bonab *et al.* 2012), Fars (Beyzavi & Ostovan 2012).

Habitat in Iran: Crop fields, weeds, fruit orchards, soil of alfalfa fields, pagoda tree, soil of barely fields, black locust, wheat, grass, soil and humus under oak trees.

**15. *Raphignathus saboorii* Ghorbani & Bagheri, 2011**

Distribution in Iran: East Azarbaijan (Ghorbani *et al.* 2011).

Habitat in Iran: Soil of apple orchards.

**16. *Raphignathus sceptrum* Chaudhri, 1979**

Distribution in Iran: East Azarbaijan (Ghorbani *et al.* 2010; Bagheri *et al.* 2011e).

Habitat in Iran: Soil of orchards.

**17. *Raphignathus zhaoui* Hu, Jing & Liang, 1995**

Distribution in Iran: East Azarbaijan (Ghorbani *et al.* 2010, 2013; Gheblealivand *et al.* 2011a; Bagheri *et al.* 2011e; Ahani-Azad *et al.* 2012a), Fars (Khademi *et al.* 2006; Beyzavi & Ostovan 2012), Kerman (Changizi *et al.* 2011a, b; Mahdavi & Asadi 2011), West Azarbaijan (Zarei *et al.* 2011), Golestan (Shirinbeik-Mohajer *et al.* 2012), Razavi Khorasan (Paktinat-Saej *et al.* 2012a), Sistan and Baluchestan (Sayadi *et al.* 2012).  
Habitat in Iran: Soil of pomegranate orchards, citrus and apple trees, crop fields, weeds, soil and humus under oak trees, stored product.

*Remarks:* In the abstract book of the 12<sup>th</sup> International Congress of Acarology, Khademi *et al.* (2006) mentioned to a new species name of *Raphignathus*. Since there has not been any description of *R. farsiensis* published yet, we consider that name as nomen nudum.

**Family Stigmaeidae Oudemans, 1931**

**Genus *Agistemus* Summers, 1960**

**1. *Agistemus bakeri* Gonzalez-Rodriguez, 1965**

Distribution in Iran: Khuzestan (Kamali 1989; Shishehbor & Kamali 1990a).

Habitat in Iran: Fig trees.

**2. *Agistemus collyerae* Gonzalez-Rodriguez, 1963**

Distribution in Iran: Ardabil (Rahmani *et al.* 2010b), Golestan (Shirinbeik-Mohajer *et al.* 2012).

Habitat in Iran: leaves of olive trees infested with eriophyid mites, fig trees, soil samples.

*Remarks:* This species was reported for the first time by Rahmani *et al.* (2011) and not

by Shirinbeik-Mohajer *et al.* (2012).

**3. *Agistemus industani* Gonzalez-Rodriguez, 1965**

Distribution in Iran: East Azarbaijan (Bagheri *et al.* 2011e; Navaei-Bonab *et al.* 2012), Golestan (Shirinbeik-Mohajer *et al.* 2012), Razavi Khorasan (Paktinat-Saeed *et al.* 2012a).

Habitat in Iran: Soil samples of pomegranate orchards; leaves of squash plant and apple trees.

**4. *Agistemus macrommatus* Gonzalez-Rodriguez, 1965**

Distribution in Iran: Golestan (Sepasgozarian 1976, 1977) (Khanjani & Ueckermann 2002b).

Habitat in Iran: Citrus trees, apple trees.

**Genus *Cheylostigmaeus* Willmann, 1951**

**1. *Cheylostigmaeus ferdowsii* Khanjani, Raisii, Izadi & Ueckermann, 2010**

Distribution in Iran: South Khorasan (Khanjani *et al.* 2010b), Kerman (Izadi *et al.* 2010b).

Habitat in Iran: Soil samples under pomegranate trees, soil under palms and citrus trees.

**2. *Cheylostigmaeus gharakhanii* Navaei-Bonab & Bagheri, 2011**

Distribution in Iran: West Azarbaijan (Bagheri *et al.* 2011b), East Azarbaijan (Navaei-Bonab *et al.* 2011; Gheblealivand *et al.* 2011a).

Habitat in Iran: Soil and leaves of orchards and field crops, orchards and weeds, soil of apple orchards.

**3. *Cheylostigmaeus hassanpouri* Bagheri, 2011**

Distribution in Iran: East Azarbaijan (Bagheri *et al.* 2011a).

Habitat in Iran: Soil samples of apple orchards.

**4. *Cheylostigmaeus iranensis* Khanjani & Ueckermann, 2002**

Distribution in Iran: Isfahan (Jalaeian *et al.* 2005a), Hamedan (Khanjani & Ueckermann 2002b), East Azarbaijan (Bagheri *et al.* 2007, 2011e; Lotfollahi *et al.* 2010; Navaei-Bonab *et al.* 2012).

Habitat in Iran: Fruit tree foliage, weeds, soil sample, soil covered with alfalfa, soil under european pear, alfalfa fields, soil of apple orchards.

**Genus *Eryngiopus* Summers, 1964**

**1. *Eryngiopus gracilis* Summers, 1964**

Distribution in Iran: Mazandaran (Faraji & Kamali 1993).

Habitat in Iran: Citrus orchards.

**2. *Eryngiopus harteni* Van-Dis & Ueckermann, 1993**

Distribution in Iran: Kerman (Dehghan-Dolati *et al.* 2011).

Habitat in Iran: Leaves; Trunk and soil under palm trees.

**Genus *Eustigmaeus* Berlese, 1910**

**1. *Eustigmaeus anauniensis* (Canestrini, 1889)**

*Raphignathus anauniensis* Canestrini, 1889 (Original designation).

*Raphignathus pectinatus* Ewing, 1917; *Ledermuelleria pectinatus*.– Oudemans, 1923

(Synonymized by Wood, 1973).

*Eustigmaeus granulatus* Willmann, 1951 (Synonymized by Summers, 1957).

Distribution in Iran: Razavi Khorasan (Doğan *et al.* 2012; Paktinat-Saeed *et al.* 2012a, b).

Habitat in Iran: Soil of apple, pomegranate, pear and quince orchards.

**2. *Eustigmaeus azerbaijanensis* Haddad Irani-Nejad, Lotfollahi & Akbari, 2011**

Distribution in Iran: East Azarbaijan (Haddad Irani-Nejad *et al.* 2011; Gheblealivand *et al.* 2011a, b).

Habitat in Iran: Soil samples of apple orchards and field crops.

**3. *Eustigmaeus dogani* Khanjani, Asali-Fayaz, Mirmoayedi & Ghaedi, 2011**

Distribution in Iran: Kurdistan (Khanjani *et al.* 2011e), Kermanshah (Khanjani *et al.* 2011e).

Habitat in Iran: Soil samples of alfalfa, samples of lichen and soil under wild walnut trees.

**4. *Eustigmaeus ioanninensis* Kapaxidi & Papadoulis 1999**

Distribution in Iran: East Azarbaijan (Bagheri *et al.* 2011e; Navaei-Bonab *et al.* 2012).

Habitat in Iran: Soil of apple orchards, soil of sunflower fields, soil of alfalfa fields, soil of barely fields.

**5. *Eustigmaeus jiangxiensis* Hu, Chen & Huang, 1996**

Distribution in Iran: Mazandaran (Kheradmand *et al.* 2007).

Habitat in Iran: Soil sample.

**6. *Eustigmaeus nahidae* Gheblealivand & Bagheri, 2012**

Distribution in Iran: East Azarbaijan (Gheblealivand *et al.* 2012).

Habitat in Iran: Soil of apple orchards.

**7. *Eustigmaeus nasrinae* Khanjani & Ueckermann, 2002**

Distribution in Iran: Hamedan (Khanjani & Ueckermann 2002b), West Azarbaijan (Bagheri *et al.* 2011b), East Azarbaijan (Lotfollahi *et al.* 2010; Gheblealivand *et al.* 2011a, b; Navaei-Bonab *et al.* 2012), Golestan (Shirinbeik-Mohajer *et al.* 2012), Fars (Beyzavi & Ostovan 2012).

Habitat in Iran: Soil under european pear, orchards and weeds, soil samples of orchards, alfalfa fields, soil of wheat and sunflower fields, soil of apple orchards, soil and humus under oak trees.

**8. *Eustigmaeus ornatus* Ueckermann & Smith-Meyer, 1987**

Distribution in Iran: Tehran (Kamali *et al.* 2006).

Habitat in Iran: Soil sample.

**9. *Eustigmaeus plumifer* (Halbert, 1923)**

*Raphignathus plumifer* Halbert, 1923 (Original designation).

Distribution in Iran: West Azarbaijan (Bagheri *et al.* 2011b).

Habitat in Iran: Soil and leaves of crops; orchards and weeds.

**10. *Eustigmaeus sculptus* Doğan, Ayyildiz & Fan, 2003**

Distribution in Iran: East Azarbaijan (Bagheri *et al.* 2006a, b, 2011e; Akbari *et al.* 2010; Lotfollahi *et al.* 2010).

Habitat in Iran: Crop foliage, weed, soil samples, alfalfa fields.

**11. *Eustigmaeus segnis* (Koch, 1836)**

*Caligonus segnis* Koch, 1836 (Original designation).

Distribution in Iran: East Azarbaijan (Bagheri *et al.* 2006b, e; Akbari *et al.* 2010; Gheblealivand *et al.* 2011a, b; Navaei-Bonab *et al.* 2012), Hamedan (Khanjani & Ueckermann 2002), West Azarbaijan (Bagheri *et al.* 2011b; Zarei *et al.* 2011), Zanjan (Rahmani *et al.* 2011), Kerman (Izadi *et al.* 2010b), Kermanshah (Darb-Emamieh *et al.* 2008b), Golestan (Shirinbeik-Mohajer *et al.* 2012), Fars (Beyzavi & Ostovan 2012). Habitat in Iran: Crop foliages, weed, soil samples of orchards and field crops, soil under sainfoins, soil and leaves of crops, soil of citrus, palm and pomegranate orchards, soil of fig orchards, soil of wheat fields, soil of alfalfa fields, soil of barely fields, soil and humus under oak trees.

**12. *Eustigmaeus setiferus* Bagheri, Saber, Ueckermann, Ghorbani & Navaei-Bonab, 2011.**

Distribution in Iran: West Azarbaijan (Bagheri *et al.* 2011b), East Azarbaijan (Bagheri *et al.* 2011c; Gheblealivand *et al.*, 2011a, b).

Habitat in Iran: Soil and leaves of plants, orchards and weeds, soil of apple orchards.

**13. *Eustigmaeus spathatus* Ueckermann & Smith-Meyer, 1987**

Distribution in Iran: Khuzestan (Darvish-Zadeh & Kamali 2009), Tehran (Kamali *et al.* 2006).

Habitat in Iran: Grapevine, soil sample.

**Genus *Ledermuelleriopsis* Willmann, 1953**

**1. *Ledermuelleriopsis ariyai* Khanjani, Mohammadi, Ghiasi, Izadi & Mirmoayedi, 2012**

Distribution in Iran: Hamedan (Khanjani *et al.* 2012f).

Habitat in Iran: Cherry leaves infested by *Bryobia rubrioculus* (Scheuten, 1857).

**2. *Ledermuelleriopsis dogani* Khanjani, Pakdelan, Ostovan & Khanjani, 2012**

Distribution in Iran: Fars (Khanjani *et al.* 2012c).

Habitat in Iran: Soil under japanese spindle and stone pine plants.

**3. *Ledermuelleriopsis medicae* Khanjani & Ueckermann, 2002**

Distribution in Iran: Hamedan (Khanjani & Ueckermann 2002b).

Habitat in Iran: Soil under alfalfa.

**4. *Ledermuelleriopsis plumosa* Willmann, 1951**

Distribution in Iran: Hamedan (Khanjani & Ueckermann 2002b), West Azarbaijan (Bagheri *et al.* 2011b; Zarei *et al.* 2011), Kerman (Changizi *et al.* 2011a, b), East Azarbaijan (Bagheri *et al.* 2006b, 2011e; Lotfollahi *et al.* 2010; Gheblealivand *et al.* 2011a, b; Navaei-Bonab *et al.* 2012), Kermanshah (Darb-Emamieh *et al.* 2008b). Habitat in Iran: Crop foliage, weed, soil under common bean, soil covered with grass, soil and leaves of crops, alfalfa fields, grapevines soil, soil of wheat, barely fields.

**5. *Ledermuelleriopsis punicae* Khanjani, Mohammadi, Ghiasi, Izadi & Mirmoayedi, 2012**

Distribution in Iran: Kerman (Khanjani *et al.* 2012f).

Habitat in Iran: Soil under pomegranate trees.

**6. *Ledermuelleriopsis terrulenta* Ueckermann & Smith-Meyer, 1987**

Distribution in Iran: Hamedan (Khanjani & Kamali 2000b).

Habitat in Iran: Bean plant.

**7. *Ledermuelleriopsis zahiri* Khanjani & Ueckermann, 2002**

Distribution in Iran: Kermanshah (Babakfard *et al.* 2008), East Azarbaijan (Bagheri *et al.* 2006b, 2011e; Akbari *et al.* 2010; Lotfollahi *et al.* 2010; Gheblealivand *et al.* 2011a, b; Navaei-Bonab *et al.* 2012), Hamedan (Khanjani & Ueckermann 2002b; Rostami *et al.* 2010d, e, 2012) Fars (Khademi *et al.* 2006), West Azarbaijan (Bagheri *et al.* 2011b; Zarei *et al.* 2011), Razavi Khorasan (Paktinat-Saej *et al.* 2012a).

Habitat in Iran: Fruit orchards, soil samples of plum orchards, weeds, crop foliages, citrus orchards, soil under european pear, soil underneath tragacanth plant, soil under liquorice, soil and leaves of crops, alfalfa fields, soil of wheat fields, soil of apple and pomegranate orchards.

**Genus *Mediolata* Canestrini, 1889**

**1. *Mediolata belfieldi* Momen, 1987**

Distribution in Iran: West Azarbaijan (Bagheri *et al.* 2011b).

Habitat in Iran: Soil and leaves of crops; Orchards and weeds.

**Genus *Parastigmaeus* Kuznetzov, 1984**

**1. *Parastigmaeus andreae* Khanjani & Ueckermann, 2002**

Distribution in Iran: Hamedan (Khanjani & Ueckermann 2002b).

Habitat in Iran: Soil underneath sophore plant.

**Genus *Prostigmaeus* Kuznetzov, 1984**

**1. *Prostigmaeus khanjanii* Bagheri & Ghorbani, 2010**

Distribution in Iran: East Azarbaijan (Bagheri *et al.* 2010b, e).

Habitat in Iran: Soil samples.

**2. *Prostigmaeus molaviae* Khanjani, Asali-Fayaz & Doğan, 2012**

Distribution in Iran: Hamedan (Khanjani *et al.* 2012a).

Habitat in Iran: Soil under gum bushes.

**Genus *Stigmaeus* Koch, 1836**

**1. *Stigmaeus alvandis* Khanjani & Ueckermann, 2002**

Distribution in Iran: East Azarbaijan (Bagheri *et al.* 2006b, 2011e), Hamedan (Khanjani & Ueckermann 2002b).

Habitat in Iran: Crop foliages, weeds, soil under camelthorn plant.

**2. *Stigmaeus boshroyehensis* Khanjani, Izadi, Asali-Fayaz, Raisi, Rostami & Doğan, 2010**

Distribution in Iran: South Khorasan (Khanjani *et al.* 2010c), Kerman (Changizi *et al.* 2011), East Azarbaijan (Gheblealivand *et al.* 2011a).

Habitat in Iran: Soil under pistachio trees, soil samples of orchards and field crops.

**3. *Stigmaeus candidus* Fan & Li, 1993**

*Stigmaeus mazandaranicus* Faraji & Ueckermann, 2006 (Synonymized by Noei *et al.* 2007).

Distribution in Iran: Guilan (Noei *et al.* 2007), Mazandaran (Faraji & Ueckermann 2006).

Habitat in Iran: Samples of stored rice and decayed rice bran.

**4. *Stigmaeus cariae* Khanjani, Pishehvar, Mirmoayedi & Khanjani, 2012**

Distribution in Iran: Hamedan (Khanjani *et al.* 2012a).

Habitat in Iran: Samples of soil under walnut tree.

**5. *Stigmaeus elongatus* Berlese, 1886**

*Stigmaeus luteus* Summers, 1962 (Synonymized by Wood, 1973).

Distribution in Iran: Fars (Sahraeian *et al.* 2006; Khademi *et al.* 2006), Guilan (Noei *et al.* 2007), East Azarbaijan (Bagheri *et al.* 2006b, 2011e; Akbari *et al.* 2010; Lotfollahi *et al.* 2010; Gheblealivand *et al.* 2011a, b; Navaei-Bonab *et al.*, 2012), Hamedan (Khanjani & Ueckermann 2002b; Rostami *et al.* 2010d, e, 2012), West Azarbaijan (Bagheri *et al.* 2011b; Zarei *et al.* 2011), Kerman (Izadi *et al.* 2010b; Changizi *et al.* 2011), Zanjan (Rahmani *et al.* 2011), Razavi Khorasan (Paktinat-Saej *et al.* 2012a, b).

Habitat in Iran: Date palm, stored rice, crops, soil samples of plum orchards, weeds, fruit orchards, crop foliages, citrus orchards, pomegranate and palms, alfalfa fields, soil under camelthorn plant, decayed rice bran, soil and leaves of crops, rice bran, soil of apple orchards, soil of pear and quince orchards.

**6. *Stigmaeus fissicomus* Ueckermann & Smith-Meyer, 1987**

Distribution in Iran: Ardabil (Haddad Irani-Nejad *et al.* 1999), Tehran (Kamali, M. *et al.* 2006).

Habitat in Iran: Cotton fields, soil sample.

**7. *Stigmaeus haddadi* Bagheri & Zarei, 2012**

Distribution in Iran: West Azarbaijan (Zarei & Bagheri 2012).

Habitat in Iran: Soil of apple orchards.

**8. *Stigmaeus iranensis* Bagheri & Gheblealivand, 2012**

Distribution in Iran: East Azarbaijan (Bagheri *et al.* 2012b).

Habitat in Iran: Soil of apple orchards.

**9. *Stigmaeus kermanshahiensis* Khanjani, Pishehvar, Mirmoayedi & Khanjani, 2012.**

Distribution in Iran: Kermanshah (Khanjani *et al.* 2012d).

Habitat in Iran: Samples of soil under walnut tree.

**10. *Stigmaeus kermaniensis* Changizi & Bagheri, 2012**

Distribution in Iran: Kerman (Changizi *et al.* 2012d).

Habitat in Iran: Soil of pistachio orchards.

**11. *Stigmaeus ladanae* Nazari, Khanjani & Kamali, 2012**

Distribution in Iran: Hamedan (Nazari *et al.* 2012).

Habitat in Iran: Soil under apple trees.

**12. *Stigmaeus longipilis* (Canestrini, 1889)**

*Stigmaeodes longipilis* Canestrini, 1889 (Original designation).

Distribution in Iran: Ardabil (Pahlavan-Yali *et al.* 2011).

Habitat in Iran: Soil under common hazel trees.

**13. *Stigmaeus luteus* Summers, 1962**

Distribution in Iran: West Azarbaijan (Haddad Irani-Nejad *et al.* 2005).

Habitat in Iran: Soil of sugar beet fields.

**14. *Stigmaeus malekii* Haddad Irani-Nejad, Bagheri & Khanjani, 2006**

Distribution in Iran: East Azarbaijan (Haddad Irani-Nejad *et al.* 2006; Lotfollahi *et al.* 2010; Bagheri *et al.* 2011e), Hamedan (Rostami *et al.* 2012), Fars (Beyzavi & Ostovan 2012).

Habitat in Iran: Apple litter samples, alfalfa fields, soil samples of plum orchards, soil and humus under oak trees.

**15. *Stigmaeus maraghehiensis* Bagheri & Ueckermann, 2012**

Distribution in Iran: East Azarbaijan (Bagheri *et al.* 2012d).

Habitat in Iran: Soil of apple orchards.

**16. *Stigmaeus marandiensis* Bagheri & Ueckermann, 2011.**

Distribution in Iran: East Azarbaijan (Bagheri *et al.* 2011f; Navaei-Bonab *et al.* 2012).

Habitat in Iran: Soil of apple orchards.

**17. *Stigmaeus miandoabiensis* Bagheri & Zarei, 2012**

Distribution in Iran: West Azarbaijan (Bagheri & Zarei 2012), East Azarbaijan (Bagheri & Zarei 2012).

Habitat in Iran: Soil of apple orchards.

**18. *Stigmaeus nasrinae* Nazari, Khanjani & Kamali, 2012**

Distribution in Iran: Hamedan (Nazari *et al.* 2012)

Habitat in Iran: Soil under common windgrass.

**19. *Stigmaeus pilatus* Kuznetzov, 1978**

Distribution in Iran: Hamedan (Rostami *et al.* 2010d, e, 2012; Khanjani *et al.* 2010c, 2012d), Kerman (Changizi *et al.* 2011), East Azarbaijan (Bagheri *et al.* 2011e; Navaei-Bonab *et al.* 2012).

Habitat in Iran: Crops, soil under camelthorn, weeds, fruit orchards, soil under plum and apple trees, soil of alfalfa fields, soil of wheat fields, soil under sour cherry trees.

**20. *Stigmaeus planus* Kuznetzov, 1978**

Distribution in Iran: Razavi Khorasan (Doğan *et al.* 2012).

Habitat in Iran: Soil of orchards.

**21. *Stigmaeus pulchellus* Kuznetzov, 1978**

Distribution in Iran: West Azarbaijan (Bagheri *et al.* 2011b; Zarei & Bagheri 2012).

Habitat in Iran: Soil and leaves of crops, orchards and weeds, soil of apple orchards.

**22. *Stigmaeus shabestariensis* Haddad Irani-Nejad, Lotfollahi & Akbari, 2010**

Distribution in Iran: East Azarbaijan (Haddad Irani-Nejad *et al.* 2010b; Navaei-Bonab *et al.* 2012), West Azarbaijan (Bagheri *et al.* 2011b; Zarei *et al.* 2011).

Habitat in Iran: Soil samples of apple orchards, soil and leaves of crops, orchards and weeds, soil of alfalfa fields.

**23. *Stigmaeus shendabadiensis* Haddad Irani-Nejad, Akbari & Lotfollahi, 2010**

Distribution in Iran: East Azarbaijan (Haddad Irani-Nejad *et al.* 2010a; Bagheri *et al.* 2011e).

Habitat in Iran: Soil samples of apple orchards.

**24. *Stigmaeus siculus* (Berlese, 1883)**

*Calignus siculus* Berlese 1883 (Original designation), *Raphignatus siculus*.– Berlese, 1885.

*Stigmaeus antrodes* Berlese, 1910 (Synonymized by Wood, 1973).

Distribution in Iran: West Azarbaijan (Bagheri *et al.* 2011b; Bagheri & Zarei 2012), East Azarbaijan (Bagheri & Zarei 2012).

Habitat in Iran: Soil and leaves of crops, orchards and weeds, soil of apple orchards.

**25. *Stigmaeus sphagneti* (Hull, 1918)**

*Raphignathus sphagneti* Hull, 1918 (Original designation).

Distribution in Iran: East Azarbaijan (Akbari *et al.* 2010).

Habitat in Iran: Soil samples.

**26. *Stigmaeus ueckermanni* Pahlavan-Yali, Khanjani & Razmjou, 2011**

Distribution in Iran: Ardabil (Pahlavan-Yali *et al.* 2011).

Habitat in Iran: Soil under common hazel tree.

**27. *Stigmaeus unicus* Kuznetsov 1977**

Distribution in Iran: East Azarbaijan (Akbari *et al.* 2010; Bagheri *et al.* 2011e), Hamedan (Khanjani & Ueckermann 2002b).

Habitat in Iran: Soil samples of plum orchards, soil under camelthorn plant.

**Genus *Storchia* Oudemans, 1923**

**1. *Storchia ardabiliensis* Safasadati, Khanjani, Razmjou & Doğan, 2010**

Distribution in Iran: Ardabil (Safasadati *et al.* 2010).

Habitat in Iran: Covered grass soil under common hazel.

**2. *Storchia mehrvari* Bagheri & Gheblealivand, 2012**

Distribution in Iran: East Azarbaijan (Bagheri *et al.* 2012c).

Habitat in Iran: Soil of apple orchards and sugar beet fields.

**3. *Storchia pacificus* (Summers, 1964)**

*Apostigmaeus pacificus* Summers, 1964 (Original designation).

Distribution in Iran: Guilan (Noei *et al.* 2007).

Habitat in Iran: Samples of stored rice and decayed rice bran.

**4. *Storchia robustus* (Berlese, 1885)**

*Caligonus robustus* Berlese, 1885 (Original designation); *Stigmaeus robustus*.– Berlese, 1910; *Storchia robustus*.– Oudemans, 1923.

*Apostigmaeus navicella* Grandjean, 1944 (Synonymized by Wood, 1973).

Distribution in Iran: East Azarbaijan (Akbari *et al.* 2010; Gheblealivand *et al.* 2011a, b; Bagheri *et al.* 2011e; Navaei-Bonab *et al.* 2012), Hamedan (Khanjani & Ueckermann 2002b), Guilan (Noei *et al.* 2007), West Azarbaijan (Bagheri *et al.* 2011b; Zarei *et al.* 2011), Kerman (Izadi *et al.* 2010b; Changizi *et al.* 2011a, b), Ardabil (Haddad Irani-Nejad *et al.* 1999).

Habitat in Iran: Cotton leaves and soil samples, samples of stored rice and decayed rice bran, soil samples from orchards and field crops, soil under chickpea, soil and leaves of crops, orchards and weeds, soil of citrus, pomegranate and palm, soil of apple orchards, soil of wheat and sunflower fields.

**5. *Storchia yazdani* Bagheri, 2011**

Distribution in Iran: Golestan (Bagheri *et al.* 2011d; Shirinbeik-Mohajer *et al.* 2012).

Habitat in Iran: Sample of soil and moss.

**Genus *Zetzellia* Oudemans, 1927**

**1. *Zetzellia kamalii* Kheradmand, Ueckermann & Fathipour, 2007**

Distribution in Iran: Tehran (Kheradmand *et al.* 2007).

Habitat in Iran: Soil samples.

## **2. *Zetzellia mali* (Ewing, 1917)**

*Caligonus mali* Ewing, 1917 (Original designation).

Distribution in Iran: West Azarbaijan (Daneshvar 1979; Mostaan 1986, 1993; Khanjani & Ueckermann 2002b; Atamehr *et al.* 2007; Zarei *et al.* 2011), Alborz (Jamali *et al.* 2001; Rashki *et al.* 2004c; Zahedi-Golpayegani *et al.* 2007, 2010), Razavi Khorasan (Daneshvar 1979; Sadeghi 1995), Zanjan (Rahmani *et al.* 2008c, 2010, 2011), Kermanshah (Daneshvar 1979; Darb-Emamieh *et al.* 2008b, 2009; Babakfard *et al.* 2008), East Azarbaijan (Sepasgozarian 1977; Daneshvar 1978; Bagheri *et al.* 2006b, 2011e; Khodayari *et al.* 2007b, 2008b, c, 2009, 2010; Gheblealivand *et al.* 2011a, b; Navaei-Bonab *et al.* 2012), Tehran (Khalil-Manesh 1972; Sepasgozarian 1972, 1976, 1977; Daneshvar 1979), Isfahan (Jalaeian *et al.* 2005a), Kerman (Changizi *et al.* 2011a, b), Qom (Sepasgozarian 1977), Hamedan (Eghbalian *et al.* 2007).

Habitat in Iran: On the leaves of apple trees, fruit trees, pear, plum, quince, peach and sour cherry trees, crop foliages, weeds, soil under apple trees, soil samples from orchards and field crops, apricot, black cherry.

## **3. *Zetzellia pourmirzai* Khanjani & Ueckermann, 2008**

Distribution in Iran: Kermanshah (Babakfard *et al.* 2008; Khanjani & Ueckermann 2008a; Darb-Emamieh *et al.* 2011b), Hamedan (Khanjani & Eghbalian 2008b; Rostami *et al.* 2012).

Habitat in Iran: Fruit trees, plum leaves infested by phytophagous mite *Eutetranychus orientalis* (Klein, 1836), apple orchards, soil samples of plum orchards.

## **Superfamily Tetranychoidae**

### **Family Linotetranychidae Baker & Pritchard, 1953**

#### **Genus *Linotetranychus* Berlese, 1910**

##### **1. *Linotetranychus anatolicus* Doğan & Dönel, 2010**

Distribution in Iran: East Azarbaijan (Ghorbani *et al.* 2012).

Habitat in Iran: Soil of wheat dry lands.

##### **2. *Linotetranychus astragalusi* Khanjani, Asali-Fayaz & Khanjani, 2011**

Distribution in Iran: Hamedan (Khanjani *et al.* 2011b).

Habitat in Iran: Soil under gum bushes.

##### **3. *Linotetranychus eghbaliani* Khanjani, Mohammadi, Izadi & Khanjani, 2012**

Distribution in Iran: Kerman (Khanjani *et al.* 2012e).

Habitat in Iran: Soil beneath apricot and almond trees.

##### **4. *Linotetranychus iraniensis* Khanjani, Asali-Fayaz & Khanjani, 2011**

Distribution in Iran: Hamedan (Khanjani *et al.* 2011b).

Habitat in Iran: Soil under gum bushes.

##### **5. *Linotetranychus nikhani* Bagheri & Haddad Irani-Nejad, 2008**

Distribution in Iran: East Azarbaijan (Bagheri *et al.* 2008; Lotfollahi *et al.* 2010).

Habitat in Iran: Soil of wheat and alfalfa fields.

*Remarks:* The oldest report of the family is *Linotetranychus* sp. near. *cylindricus* Berlese, 1910 from Hamedan by Khanjani and Kamali (1998).

## Family Tenuipalpidae Berlese, 1913

### Genus *Aegyptobia* Sayed, 1950

#### 1. *Aegyptobia beglarovi* Livshitz & Mitrofanov, 1967

*Aegyptobia* (*Aegyptobia*) *beglarovi*.– Mitrofanov, Bosenko & Bitchevskis, 1975.

*Aegyptobia meyeræ* Khosrowshahi & Arbabi, 1997 (Name changed to *Aegyptobia Kharazii* by Mesa & Moraes in Mesa *et al.* 2009).

*Aegyptobia Kharazii* Mesa & Moraes in Mesa *et al.* 2009 (Synonymized by Khanjani Ma. *et al.* 2012b).

Distribution in Iran: Tehran (Khosrowshahi & Arbabi 1997; Abaii 2000), Razavi Khorasan (Sadeghi-Namaghi 2009, 2010), Khuzestan (Kamali 1989), Kurdistan (Khanjani *et al.* 2012b), Kerman (Mahdavi & Asadi 2011; Farzan & Asadi 2011, 2012). Habitat in Iran: Common Juniper, leaves of cypress trees, thuja tree, arizona cypress, norway spruce, barberry plant.

#### 2. *Aegyptobia bromi* Khanjani, Khanjani & Seeman, 2012

Distribution in Iran: Hamedan (Khanjani *et al.* 2012b; Khanjani Ma. *et al.* 2012a).

Habitat in Iran: Leaves of drooping brome under gum bushes.

#### 3. *Aegyptobia glyptus* Pritchard & Baker, 1958

*Aegyptobia* (*Aegyptobiosys*) *glyptus*.–Mitrofanov & Strunkova, 1979.

Distribution in Iran: Tehran (Khalil-Manesh 1972; Sepasgozarian 1977; Behdad 1984, 1988).

Habitat in Iran: Conifer trees.

#### 4. *Aegyptobia hormozgani* Farzan, Asadi & Ueckermann, 2012

Distribution in Iran: Hormozgan (Farzan & Asadi 2012; Farzan *et al.* 2012b).

Habitat in Iran: Wormwood plant.

#### 5. *Aegyptobia iranensis* Khanjani, Gotoh & Barimani-Varandi, 2008

Distribution in Iran: Mazandaran (Khanjani *et al.* 2008b).

Habitat in Iran: Leaves of common juniper.

#### 6. *Aegyptobia jiroftiensis* Farzan, Asadi & Ueckermann, 2012

Distribution in Iran: Kerman (Farzan & Asadi 2012; Farzan *et al.* 2012b).

Habitat in Iran: Black bindweed.

#### 7. *Aegyptobia nazarii* Khanjani, Khanjani & Seeman, 2012

Distribution in Iran: Hamedan (Khanjani *et al.* 2012b; Khanjani Ma. *et al.* 2012a).

Habitat in Iran: On the leaves of bulbous bluegrass.

#### 8. *Aegyptobia nomus* (Pritchard & Baker, 1953)

*Pentamerismus nomus* Pritchard & Baker, 1953 (Original designation); *Aegyptobia* (*Aegyptobiosis*) *nomus*.– Mitrofanov & Strunkova 1979.

Distribution in Iran: Razavi Khorasan (Khoshnevis *et al.* 2011).

Habitat in Iran: Orchards.

#### 9. *Aegyptobia pavlovskii* (Reck, 1951)

*Brevipalpoides pavlovskii* Reck, 1951 (Original designation); *Aegyptobia* (*Aegyptobia*) *pavlovskii*.– Mitrofanov & Strunkova, 1979.

Distribution in Iran: Kerman (Farzan & Asadi 2011; Farzan *et al.* 2012a; Farzan & Asadi 2012).

Habitat in Iran: Joint pine plants, azarole, almond, hawthorn, stone fruit plants.

**10. *Aegyptobia persica* Khosrowshahi & Arbabi, 1997**

Distribution in Iran: Tehran (Khosrowshahi & Arbabi 1997), Kerman (Khanjani Ma. *et al.* 2012b; Mohammadi *et al.* 2012).

Habitat in Iran: Ribwort plantain, soil beneath ribwort plantain beneath almond trees, fruit trees.

**11. *Aegyptobia pirii* Khanjani, Zahiri & Khanjani, 2013**

Distribution in Iran: Hamedan (Khanjani *et al.* 2013).

Habitat in Iran: On the leaves of drooping brome.

**12. *Aegyptobia tragardhi* Sayed, 1950**

*Pentamerismus tragardhi*.– Baker & Pritchard, 1953; *Aegyptobia (Aegyptobia) tragardhi*.–Mitrofanov, Bosenko & Bitchevskis, 1975.

*Aegyptobia ueckermanni* Khosrowshahi & Arbabi, 1997 (Synonymized by Khanjani Ma. *et al.* 2012).

Distribution in Iran: Mazandaran (Barimani-Varandi & Kamali 1998a), Tehran (Khosrowshahi & Arbabi 1997; Abaii 2000), Razavi Khorasan (Sadeghi-Namaghi 2009, 2010), Markazi (Baradaran *et al.* 2008b), Zanzan (Rahmani *et al.* 2011), Fars (Sahraeian *et al.* 2006), Khuzestan (Kamali 1989), Hamedan (Khanjani *et al.* 2012b; Khanjani Ma. *et al.* 2012a), Kerman (Mahdavi & Asadi 2011; Farzan & Asadi 2011, 2012).

Habitat in Iran: Conifer trees, leaves of cypress trees, thuja tree, mediterranean cypress, orchards, crop fields, weeds, date palm, apple trees, norway spruce, common juniper, walnut tree, plum tree, pine trees.

**13. *Aegyptobia wainsteini* (Bagdasarian, 1962)**

*Pentamerismus wainstaini* Bagdasarian, 1962 (Original designation); *Aegyptobia wainsteini*.– Livschitz & Mitrofanov, 1967; *Aegyptobia (Aegyptobia) wainsteini*.– Mitrofanov & Strunkova, 1979.

Distribution in Iran: Khuzestan (Barimani-Varandi & Kamali 2000).

Habitat in Iran: Cypress trees.

**Genus *Brevipalpus* Donnadieu, 1875**

**1. *Brevipalpus lewisi* McGregor, 1949**

*Hystripalpus lewisi*.– Mitrofanov & Strunkova, 1979.

Distribution in Iran: Guilan (Khalil-Manesh 1972; Sepasgozarian 1976, 1977; Behdad 1984), Mazandaran (Khalil-Manesh 1972; Sepasgozarian 1976, 1977; Behdad 1984), Lorestan (Khosrowshahi & Arbabi 1997), Tehran (Khosrowshahi & Arbabi 1997), Fars (Khademi *et al.* 2006), Razavi Khorasan (Sadeghi-Namaghi 2009, 2010), Golestan (Khalil-Manesh 1972; Sepasgozarian 1977; Behdad 1984), Sistan and Baluchestan (Arbabi *et al.* 2002), Kerman (Mahdavi & Asadi 2011; Farzan & Asadi 2011, 2012).

Habitat in Iran: Ornamental plants, eggplant, citrus orchards, apple trees, pear trees, liliac, grapevine, guava, papaya, alfalfa.

*Remarks:* Arbabi *et al.* (2002) claimed *B. lewisi* as the first record for Iran ignoring some earlier studies.

**2. *Brevipalpus mcgregori* Baker, 1949**

Distribution in Iran: Golestan (Dosse 1971; Khalil-Manesh 1972; Sepasgozarian 1977; Behdad 1988; Khosrowshahi & Arbabi 1997).

Habitat in Iran: Poplar trees.

### **3. *Brevipalpus obovatus* Donnadieu, 1875**

*Brevipalpus pereger* Donnadieu, 1875 (Synonymized by Pritchard & Baker, 1958).  
*Tenuipalpus inornatus* Banks, 1912; *Brevipalpus inornatus*.– Baker, 1945  
(Synonymized by Pritchard & Baker, 1958).

*Tenuipalpus bioculatus* McGregor, 1914; *Brevipalpus bioculatus*.– McGregor, 1916  
(Synonymized by McGregor, 1949).

*Tenuipalpus pseudocuneatus* Blanchard, 1940; *Brevipalpus pseudocuneatus*.– Baker  
1949 (Synonymized by Pritchard & Baker, 1952).

*Brevipalpus amicus* Chaudhri, 1972 (Synonymized by Mesa *et al.* 2009).

*Brevipalpus origanum* Baker, Tuttle & Abbatiello, 1975 (Synonymized by Welbourn *et al.* 2003).

*Brevipalpus assamensis* Sadana & Gupta, 1983 (Synonymized by Mesa *et al.* 2009).

Distribution in Iran: Mazandaran (Farahbakhsh 1961; Khalil-Manesh 1969, 1972; Sepasgozarian 1971b, 1972, 1976, 1977; Esmaeili 1983; Behdad 1988; Habibian 1989; Zomorodi 1991; Khosrowshahi & Arbabi 1997; Taghavi *et al.* 1998a, b; Barimani-Varandi & Kamali 1998a; Mehran 1998; Barimani-Varandi *et al.* 2004; Abbasipour *et al.* 2006), Guilan (Khalil-Manesh 1969; Sepasgozarian 1971b, 1976, 1977; Khalil-Manesh 1972; Behdad 1988; Habibian 1989; Khosrowshahi & Arbabi 1997; Ramroodi *et al.* 2006; Nejadqanbar *et al.* 2010), Tehran (Sepasgozarian 1977; Behdad 1988), Isfahan (Khalil-Manesh 1969; Baradaran *et al.* 2008b), Markazi (Baradaran *et al.* 2008b), Razavi Khorasan (Khoshnevis *et al.* 2011), Golestan (Khalil-Manesh 1969, 1972; Sepasgozarian 1971b, 1972, 1977; Behdad 1988; Habibian 1989; Khosrowshahi & Arbabi 1997), Hamedan (Khanjani Ma. *et al.* 2012a), Khuzestan (Khalil-Manesh 1969), Bushehr (Khalil-Manesh 1969), Fars (Khalil-Manesh 1969), Alborz (Khalil-Manesh 1969).

Habitat in Iran: Tea plant, paper flower, winter creeper, aluminium plant, persian ironwood trees, bellbind, sorrel plant, ivy plant, conifer trees, broad leaf trees, mulberry, soil samples, privet plant, orchards, scented geraniums, wild privet, strawberry, privet, geranium, raspberry, citrus, leaves of grape, pomegranate, apple, cherry, weeds; burdock.

### **4. *Brevipalpus oleae* Baker, 1949**

*Hystripalpus oleae*.– Castagnoli & Pegazzano, 1979; *Brevipalpus (H.) oleae*.– Hatzinikolis, 1986.

Distribution in Iran: Razavi Khorasan (Khoshnevis *et al.* 2011).

Habitat in Iran: Fruit orchards.

### **5. *Brevipalpus olearius* Sayed, 1950**

*Hystripalpus olearius*.– Castagnoli & Pegazzano, 1979; *Brevipalpus (H.) olearius*.– Hatzinikolis, 1986.

Distribution in Iran: Guilan (Dosse 1971; Khalil-Manesh 1972; Sepasgozarian 1977; Behdad 1988; Khosrowshahi & Arbabi 1997).

Habitat in Iran: Olive trees.

### **6. *Brevipalpus oncidii* Baker, 1949**

*Hystripalpus oncidii*.– Mitrofanov & Strunkova, 1979.

Distribution in Iran: Razavi Khorasan (Khoshnevis *et al.* 2011).

Habitat in Iran: Orchards.

## **7. *Brevipalpus phoenicis* (Geijskes, 1939)**

*Tenuipalpus phoenicis* Geijskes, 1939 (Original designation); *Brevipalpus phoenicis*.– Sayed, 1946; *Brevipalpus phoenisis* [sic].– Düzgünes, 1965.

*Brevipalpus mcbridei* Baker, 1949 (Synonymized by Pritchard & Baker, 1952).

*Brevipalpus papayensis* Baker, 1949 (Synonymized by Pritchard & Baker, 1952).

*Brevipalpus yothersi* Baker, 1949 (Synonymized by Pritchard & Baker, 1952).

*Brevipalpus deleoni* Pritchard & Baker, 1958; *Brevipalpus delconi* [sic].– Gupta, 1992 (Synonymized by De-Leon, 1961).

*Brevipalpus phoenicoides* Gonzalez, 1975 (Synonymized by Evanse, Cromroy & Ochoa 1993).

Distribution in Iran: Golestan (Dosse 1971; Khalil-Manesh 1972; Sepasgozarian 1977; Behdad 1988; Khosrowshahi & Arbabi 1997), Tehran (Baradaran *et al.* 2008b); Sistan and Baluchestan (Arbabi *et al.* 2002).

Habitat in Iran: Cyclamen; Mint; Citrus; Oleander; Banana; Eggplant.

## **Genus *Cenopalpus* Pritchard & Baker, 1958**

### **1. *Cenopalpus abaii* Khosrowshahi & Arbabi, 1997**

Distribution in Iran: Fars (Khosrowshahi & Arbabi 1997; Abaii 2000; Khanjani Ma. *et al.* 2012d).

Habitat in Iran: Leaves of oak trees.

### **2. *Cenopalpus bakeri* Düzgünes, 1966**

*Brevipalpus bakeri*.– Smith-Meyer, 1979.

*Brevipalpus bakeriana* Ghai & Shenhmar, 1984 (Suggested name for *C. bakeri* by Ghai & Shenhmar, 1984).

Distribution in Iran: Tehran (Dosse 1971; Khalil-Manesh 1972; Sepasgozarian 1977; Behdad 1984; Nowzari & Kamali 1995), Hamedan (Rostami *et al.* 2010e; Khanjani Ma. *et al.* 2012a, d), Mazandaran (Sepasgozarian 1977; Khosrowshahi & Arbabi 1997), Razavi Khorasan (Sadeghi 1995), Ardabil (Khanjani Ma. *et al.* 2012d).

Habitat in Iran: Fields, soil, weeds, fruit orchards, plum leaf, walnut tree, prune tree, mirabelle plum, quince tree, pear tree, plane tree, apple trees, grape leaves, hawthorn leaves.

### **3. *Cenopalpus crataegi* Dosse, 1971**

*Brevipalpus crataegi*.– Smith-Meyer, 1979.

Distribution in Iran: Tehran (Abaii 2000), Alborz (Dosse 1971; Khalil-Manesh 1972; Sepasgozarian 1977; Behdad 1984, 1988; Khosrowshahi & Arbabi 1997), Hamedan (Khanjani Ma. *et al.* 2012a, d).

Habitat in Iran: Hawthorn leaf, quince leaf.

### **4. *Cenopalpus evini* Khosrowshahi, 1991**

Distribution in Iran: Markazi (Khosrowshahi 1991; Khosrowshahi & Arbabi 1997), Tehran (Abaii 2000).

Habitat in Iran: Poplar trees.

### **5. *Cenopalpus irani* Dosse, 1971**

*Brevipalpus irani*.– Smith-Meyer, 1979.

Distribution in Iran: Alborz (Dosse 1971; Khalil-Manesh 1972; Sepasgozarian 1977; Behdad 1984, 1988; Khosrowshahi & Arbabi 1997; Arbabi & Baradaran 2000; Rashki *et al.* 2004c, d; Rashki & Saboori 2004a), Hamedan (Khanjani & Kamali 1998; Rostami *et al.* 2010e; Khanjani Ma. *et al.* 2012a, d), Kermanshah (Darb-Emamieh *et al.* 2009,

2011b; Khanjani Ma. *et al.* 2012d), Razavi Khorasan (Shakhsi-Zare *et al.* 2008a), Tehran (Dosse 1971; Khalil-Manesh 1972; Sepasgozarian 1977; Nowzari & Kamali 1995; Arbabi & Baradaran 2000), Khuzestan (Kamali 1989), Fars (Dosse 1971; Khalil-Manesh 1972; Sepasgozarian 1977), Zanzan (Rahmani *et al.* 2011), Kerman (Mehrnejad & Ueckermann 2001; Farzan & Asadi 2012); Kurdistan (Khanjani Ma. *et al.* 2012d). Habitat in Iran: Fruit tree, crops, soil, weeds, olive, ornamental plants, pear tree, flowering quince, soil samples, walnut tree, prune tree, mirabelle plum, quince tree, plane tree, apple trees, crop fields, range plants, european black pine trees, pistachio trees, grapevine, sour cherry tree, plum tree, poplar tree, peach tree, fig tree.

#### **6. *Cenopalpus khosrowshahi* Khanjani, Khanjani, Saboori & Seeman, 2012**

Distribution in Iran: Hamedan (Khanjani Ma. *et al.* 2012a, d).

Habitat in Iran: Pagoda tree.

#### **7. *Cenopalpus lanceolatiseta* (Attiah, 1956)**

*Brevipalpus lanceolatiseta* Attiah, 1956 (Original designation); *Cenopalpus* (*Cenopalpus*) *lanceolatiseta*.– Mitrofanov & Strunkova, 1979.

Distribution in Iran: Tehran (Dosse 1971; Sepasgozarian 1977; Behdad 1984; Nowzari & Kamali 1995), Isfahan (Dosse 1971; Khalil-Manesh 1972; Sepasgozarian 1977; Behdad 1984, 1988), Fars (Dosse 1971; Khalil-Manesh 1972; Sepasgozarian 1977; Khosrowshahi & Arbabi 1997), Razavi Khorasan (Khoshnevis *et al.* 2011), Golestan (Sepasgozarian 1977), Khuzestan (Kamali 1989), Alborz (Rashki & Saboori 2004b), Zanzan (Rahmani *et al.* 2011), Kermanshah (Khanjani Ma. *et al.* 2012d), Chaharmahal and Bakhtiari (Khanjani Ma. *et al.* 2012d).

Habitat in Iran: Mistletoe, egyptian willow, walnut tree, prune tree, mirabelle plum, quince tree, pear tree, plane tree, apple trees, orchards, crop fields, weeds, pomegranate, plum leaves, japanese medlar, apricot leaves, sweet cherry leaves, almond tree.

#### **8. *Cenopalpus lineola* (Canestrini & Fanzago, 1876)**

*Tetranychus lineola* Canestrini & Fanzago, 1876 (Original designation); *Caligonus lineola*.– Canestrini & Fanzago, 1877; *Tenuipalpus lineola*.– Berlese, 1886; *Brevipalpus lineola*.– Livschitz & Mitrofanov, 1967; *Cenopalpus* (*Cenopalpoides*) *lineola*.– Mitrofanov, 1973.

*Brevipalpus kalandadzei* Reck, 1951 (Synonymized by Pritchard & Baker, 1958).

*Brevipalpus asyntactus* Baker & Pritchard, 1952 (Synonymized by Pritchard & Baker, 1958).

Distribution in Iran: Mazandaran (Barimani-Varandi & Kamali 1998a), Razavi Khorasan (Khoshnevis *et al.* 2011).

Habitat in Iran: Conifer trees, orchards.

#### **9. *Cenopalpus meyeri* Khosrowshahi, 1991**

Distribution in Iran: Tehran (Khosrowshahi 1991; Khosrowshahi & Arbabi 1997), Razavi Khorasan (Khosrowshahi & Arbabi 1997; Sadeghi-Namaghi 2009, 2010).

Habitat in Iran: Plane tree.

#### **10. *Cenopalpus pennatisetis* (Wainstein, 1958)**

*Brevipalpus pennatisetis* Wainstein, 1958 (Original designation); *Cenopalpus pennatisetis*.– Wainstein, 1960; *Cenopalpus* (*Cenopalpus*) *pennatisetis*.– Mitrofanov & Strunkova, 1979.

Distribution in Iran: Isfahan (Khalil-Manesh 1972; Sepasgozarian 1977; Behdad 1988;

Khosrowshahi & Arbabi 1997).  
Habitat in Iran: Egyptian willow.

**11. *Cenopalpus pritchardi* Düzgünes, 1967**

*Brevipalpus pritchardi*.– Smith-Meyer, 1979.

Distribution in Iran: Isfahan (Khalil-Manesh 1972; Sepasgozarian 1977; Behdad 1984, 1988; Khosrowshahi & Arbabi 1997; Abaii 2000), Tehran (Abaii 2000).

Habitat in Iran: Egyptian willow trees, deciduous trees.

**12. *Cenopalpus prunusi* Khanjani, Khanjani, Saboori & Seeman, 2012**

Distribution in Iran: Hamedan (Khanjani Ma. *et al.* 2012a, d).

Habitat in Iran: Plum leaf.

**13. *Cenopalpus pulcher* (Canestrini & Fanzago, 1876)**

*Caligonus pulcher* Canestrini & Fanzago, 1876 (Original designation); *Tenuipalpus pulcher*.– Berlese, 1887; *Brevipalpus pulcher*.– Baker, 1949; *Brevipalpus pulchur* [sic].– Gupta & Chatterjee, 1997; *Cenopalpus (Cenopalpus) pulcher*.– Mitrofanov & Strunkova, 1979.

*Brevipalpus ciferrii* Lombardini, 1951 (Synonymized by Pritchard & Baker, 1958).

*Brevipalpus pyri* Sayed, 1946 (Synonymized by Pritchard & Baker, 1958).

*Tenuipalpus bodenheimeri* Berlese, 1930 (Synonymized by Pritchard & Baker, 1958).

*Tenuipalpus oudemansi* Geijskes, 1939; *Brevipalpus soudemansi*.– Sayed, 1946 (Synonymized by Pritchard & Baker, 1958).

Distribution in Iran: Tehran (Farahbakhsh 1961; Nowzari & Kamali 1995), Mazandaran (Barimani-Varandi *et al.* 2004), Razavi Khorasan (Shahrokhi 1988; Sadeghi 1995; Sheikholeslam-Zadeh *et al.* 2010), North Khorasan (Shahrokhi 1988), Isfahan (Dastgheib-Beheshti 1980; Jalaeian *et al.* 2004, 2005a), West Azarbaijan (Daneshvar 1979), Zanzan (Rahmani *et al.* 2008a, 2011), East Azarbaijan (Daneshvar 1978), Alborz (Sepasgozarian 1968, 1970, 1972, 1976; Esmaili & Oloumi-Sadeghi 1980; Behdad 1984; Zomorodi 1991; Mehran 1998; Jamali *et al.* 2001; Rashki & Saboori 2004b), Lorestan (Khosrowshahi & Arbabi 1997), Qom (Sepasgozarian 1977), Golestan (Dosse 1971; Sepasgozarian 1977), Kerman (Sepasgozarian 1977).

Habitat in Iran: Apple trees, broad leaf trees, horn beam trees, pear tree, quince tree, mirabelle plum, prune tree, walnut tree, peach, plane tree, common fig, foliage, weeds, soil sample, cherry, pomegranat, orchards, crop fields, nectarine tree.

**14. *Cenopalpus quercusi* Khanjani, Khanjani, Saboori & Seeman, 2012**

Distribution in Iran: Lorestan (Khanjani Ma. *et al.* 2012d).

Habitat in Iran: Oak trees.

**15. *Cenopalpus ruber* Wainstein, 1960**

*Brevipalpus ruber*.– Livschitz & Mitrofanov, 1967; *Cenopalpus ruber*.– Hatzinikolis & Emmanouel, 1987; *Cenopalpus (Cenopalpus) ruber*.– Mitrofanov & Strunkova, 1979.

Distribution in Iran: Zanzan (Rahmani *et al.* 2008a, 2011).

Habitat in Iran: Apple trees, orchards, crop fields, weeds.

**16. *Cenopalpus rubusi* Khanjani, Khanjani, Saboori & Seeman, 2012**

Distribution in Iran: Kurdistan (Khanjani Ma. *et al.* 2012d).

Habitat in Iran: Dewberry.

**17. *Cenopalpus saryabiensis* Akbar & Chaudhri, 1985**

Distribution in Iran: Razavi Khorasan (Sadeghi-Namaghi 2009, 2010), Alborz

(Khosrowshahi & Arbabi 1997; Abaii 2000; Rashki & Saboori 2004b; Khanjani Ma. *et al.* 2012d), Tehran (Kamali *et al.* 2006).

Habitat in Iran: Soil sample, leaves of conifer trees, pine tree leaves, kaki persimmon.

### **18. *Cenopalpus spinosus* (Donnadieu, 1875)**

*Tenuipalpus spinosus* Donnadieu, 1875 (Original designation); *Cenopalpus spinosus*.– Pritchard & Baker, 1958; *Cenopalpus (Cenopalpus) spinosus*.– Mitrofanov & Strunkova, 1979; *Brevipalpus spinosus*.– Baker, 1949.

*Trombidium glabrum* Dugès, 1834; *Flexipalpus donnadieui* Oudemans, 1938; *Brevipalpus donndieui*.– Baker, 1949; *Tenuipalpus glaber* Donnadieu, 1875 (Synonymized by Pritchard & Baker, 1958).

*Tenuipalpus geisenheyneri* Rübsaamen, 1910; *Brevipalpus geisenheyneri* [sic].– Baker, 1949; *Tenuipalpus geisenheineri* [sic].– Wainstein, 1960 (Synonymized by Pritchard & Baker, 1958).

Distribution in Iran: Mazandaran (Khalil-Manesh 1972; Sepasgozarian 1977; Behdad 1988; Khosrowshahi & Arbabi 1997), Razavi Khorasan (Khoshnevis *et al.* 2011), East Azarbaijan (Bagheri *et al.* 2007; Lotfollahi *et al.* 2010).

Habitat in Iran: Red raspberry, orchards, alfalfa fields, black berry, strawberry.

### **Genus *Dolichotetranychus* Sayed, 1938**

#### **1. *Dolichotetranychus australianus* (Womersley, 1943)**

*Trichadenus australianus* Womersley, 1943 (Original designation); *Dolichotetranychus (Dolichotetranychus) australianus*.– Mitrofanov & Strunkova, 1979.

Distribution in Iran: Khuzestan (Baharloo *et al.* 2006).

Habitat in Iran: Soil samples.

#### **2. *Dolichotetranychus cymosum* Meyer, 1979**

Distribution in Iran: Khuzestan (Baharloo *et al.* 2006).

Habitat in Iran: Soil samples.

#### **3. *Dolichotetranychus kermanicus* Khanjani, Asadababi & Izadi, 2011**

Distribution in Iran: Kerman (Khanjani *et al.* 2011a).

Habitat in Iran: Soil covered by grass under orange tree.

### **Genus: *Obdulia* Pritchard & Baker, 1958**

#### **1. *Obdulia daadi* AlGboory, 1987**

Distribution in Iran: Kerman (Farzan & Asadi 2011, 2012).

Habitat in Iran: Manna trees.

#### **2. *Obdulia tamaricis* Pritchard & Baker, 1958.**

Distribution in Iran: Tehran (Behdad 1988), Qom (Sepasgozarian 1976, 1977; Barkhordari *et al.* 1981; Khosrowshahi & Arbabi 1997; Abaii 2000).

Habitat in Iran: Tamarisk, manna tree.

### **Genus *Pentamerismus* McGregor, 1949**

#### **1. *Pentamerismus behshahricus* Khanjani & Gotoh, 2008**

Distribution in Iran: Mazandaran (Khanjani & Gotoh 2008).

Habitat in Iran: Persian juniper.

#### **2. *Pentamerismus canadensis* McGregor, 1949**

*Oligomerismus canadensis*.– Mitrofanov, Bosenko & Bitchevskis, 1975.

Distribution in Iran: Tehran (Abaii 2000), Alborz (Sepasgozarian 1976, 1977; Behdad 1988; Khosrowshahi & Arbabi 1997; Khanjani & Gotoh 2008).

Habitat in Iran: Oriental arborvitae, leaves and branches of cypress trees, pacific red cedar.

**3. *Pentamerismus foliisetis* Livschitz & Mitrofanov, 1967**

Distribution in Iran: Mazandaran (Barimani-Varandi & Kamali 1998a; Khanjani & Gotoh 2008).

Habitat in Iran: Conifer trees, persian juniper.

**4. *Pentamerismus judiciarius* De-Leon, 1961**

*Oligomerismus judiciarius*.– Mitrofanov, Bosenko & Bitchevskis, 1975.

Distribution in Iran: Mazandaran (Barimani-Varandi & Kamali 1998a; Khanjani & Gotoh 2008).

Habitat in Iran: Conifer trees, persian juniper.

**5. *Pentamerismus oregonensis* McGregor, 1949**

*Oligomerismus oregonensis*.– Gutierrez, Kreiter, Bolland & Cotton, 1989.

Distribution in Iran: Mazandaran (Barimani-Varandi & Kamali 1998a; Khanjani & Gotoh 2008).

Habitat in Iran: Conifer trees, persian juniper.

**6. *Pentamerismus ueckermanni* Khanjani & Gotoh, 2008**

Distribution in Iran: Mazandaran (Khanjani & Gotoh 2008).

Habitat in Iran: Common juniper.

*Remarks*: Barimani-Varandi et Kamali (1998) mentioned to a new species name *Pentamerismus kamali* collected from conifer trees. Since no description provided, we consider it as nomen nudum.

**Genus *Phyllotetranychus* Sayed, 1938**

**1. *Phyllotetranychus aegyptium* Sayed, 1938**

*Phyllotetranychus aegyptiacus* [sic].– Sayed, 1940.

Distribution in Iran: Bushehr (Khalil-Manesh 1972; Sepasgozarian 1977; Behdad 1984; Khosrowshahi & Arbabi 1997), Kerman (Farzan & Asadi 2011, 2012).

Habitat in Iran: Date palm.

*Remarks*: Kamali *et al.* (2001) placed this species in the family Tetranychidae while should be considered as a tenuipalpid mite.

**Genus *Phytoptipalpus* Trägårdh, 1904**

**1. *Phytoptipalpus kurdistaniensis* Khanjani, Khanjani & Seeman, 2012.**

Distribution in Iran: Kurdistan (Khanjani Ma. *et al.* 2012b).

Habitat in Iran: Woods' rose.

**2. *Phytoptipalpus rosae* (Mitrofanov & Strunkova, 1978)**

*Zaheria rosae* Mitrofanov & Strunkova, 1978 (Original designation); *Phytoptipalpus rosae*.– Smith-Meyer, 1979.

Distribution in Iran: Kerman (Farzan & Asadi 2011, 2012).

Habitat in Iran: Woods' rose.

**3. *Phytoptipalpus salicicola* (Al Gboory, 1987)**

*Aegyptobia salicicola* Al-Gboory, 1987 (Original designation).

*Aegyptobia daneshvari* Parsi & Khosrowshahi, 1990 (Synonymized by Khanjani Ma. *et al.* 2012b).

Distribution in Iran: Tehran (Parsi & Khosrowshahi 1990; Khosrowshahi & Arbabi 1997), Hamedan (Khanjani *et al.* 2012; Khanjani Ma. *et al.*, 2012a; Masoudian *et al.*, 2012).

Habitat in Iran: Poplar tree, upper soil surface under pussy willow tree.

### **Genus *Pseudoleptus* Bruyant, 1911**

#### **1. *Pseudoleptus hamedaniensis* Khanjani, Khanjani, Saboori & Seeman, 2012**

Distribution in Iran: Hamedan (Khanjani Ma. *et al.* 2012a, c).

Habitat in Iran: On the leaves of drooping brome beneath gum bushes.

#### **2. *Pseudoleptus iraniensis* Khanjani, Khanjani, Saboori & Seeman, 2012**

Distribution in Iran: Hamedan (Khanjani Ma. *et al.* 2012a, c).

Habitat in Iran: On the leaves of brome chess under spiny hawthorn trees.

#### **3. *Pseudoleptus kermanshahiensis* Khanjani, Khanjani, Saboori & Seeman, 2012**

Distribution in Iran: Hamedan (Khanjani Ma. *et al.* 2012c).

Habitat in Iran: On the leaves of slender meadow foxtail under apple trees.

*Remarks:* Baharloo *et al.* (2006) reported an unidentified species of this genus for the first time from Iran.

### **Genus *Raoiella* Hirst, 1924**

#### **1. *Raoiella indica* Hirst, 1924**

*Rarosiella cocosae* Rimando, 1996 (Synonymized by Mesa *et al.* 2009).

Distribution in Iran: Fars (Sahraeian *et al.* 2006; Khademi *et al.* 2006; Majidi & Akrami 2011), Bushehr (Khalil-Manesh 1972; Sepasgozarian 1977; Behdad 1984, 1988; Kamali 1986; Khosrowshahi & Arbabi 1997; Abaie 2000), Khuzestan (Kamali 1989), Hormozgan (Arbabi *et al.* 2002; Farzan & Asadi 2011, 2012), Sistan and Baluchestan (Arbabi *et al.* 2002).

Habitat in Iran: Date palm, grapevine, citrus orchards, leaves, fruits and trunk fiber of date palms.

### **Genus *Tenuipalpus* Donnadieu 1875**

#### **1. *Tenuipalpus daneshvari* Khosrowshahi & Arbabi, 1997**

Distribution in Iran: Sistan and Baluchestan (Khosrowshahi & Arbabi 1997; Arbabi *et al.* 2002), Zanzan (Rahmani *et al.* 2011), Hormozgan (Arbabi *et al.* 2002).

Habitat in Iran: Eggplant, orchards, crop fields, weeds.

#### **2. *Tenuipalpus eriophyoides* Baker, 1948**

*Colopalpus eriophyoides*.– Baker & Tuttle, 1972.

*Tenuipalpus lapidosus* Siddiqui & Chaudhri, 1972 (Synonymized by Chaudhri *et al.*, 1974).

Distribution in Iran: Fars (Sepasgozarian 1971b, 1972; Behdad 1984, 1988; Khosrowshahi & Arbabi 1997; Sahraeian *et al.* 2006; Khademi *et al.* 2006), Khuzestan (Dosse 1971; Sepasgozarian 1971b, 1972; Khalil-Manesh 1972; Behdad 1984, 1988; Kamali 1989; Khosrowshahi & Arbabi 1997), Kerman (Farzan & Asadi 2011, 2012), Hormozgan (Farzan & Asadi 2011, 2012).

Habitat in Iran: Date palm, goosefoots.

### **3. *Tenuipalpus euonymi* Khosrowshahi, 1991**

Distribution in Iran: Tehran (Khosrowshahi 1991; Khosrowshahi & Arbabi 1997), Hamedan (Khanjani Ma. *et al.* 2012a).

Habitat in Iran: Spindle, leaves of plants.

### **4. *Tenuipalpus granati* Sayed, 1946**

*Aegytopalpus granati*.– Mitrofanov, 1973.

*Brevipalpus orchidarum* Parfitt, 1859; *Tenuipalpus orchidarum*.– Sayed, 1942 (Synonymized by Wainstein, 1960).

Distribution in Iran: Hamedan (Khanjani & Kamali 1998, 2000b; Khanjani Ma. *et al.* 2012a), South Khorasan (Moodi 2002; Darmiani *et al.* 2011), Kermanshah (Babakfard *et al.* 2008), Khuzestan (Farahbakhsh 1961; Sepasgozarian 1972; Behdad 1984; Kamali 1989; Kamali & Shishehbor 1989; Mirkarimi 1999; Darvish-Zadeh & Kamali 2009), Tehran (Sepasgozarian 1971; Khalil-Manesh 1972; Zahedi 1992), Razavi Khorasan (Sadeghi-Namaghi & Zare 2006; Shakhshi-Zare *et al.* 2008a; Boutimar & Sadeghi-Namaghi 2010; Bagheri, Mohs. *et al.* 2011; Salarzahi *et al.* 2012), Fars (Kamali & Shishehbor 1989; Abaii 2000), Kerman (Khalil-Manesh 1972; Sepasgozarian 1972, 1976; Abaii 2000; Mehrnejad & Ueckermann 2001; Mehrnejad 2001; Mohammdai *et al.* 2012), Alborz (Dosse 1971; Sepasgozarian 1977; Behdad 1988; Rashki & Saboori 2004b), Zanzan (Rahmani *et al.* 2011), Bushehr (Kamali & Shishehbor 1989).

Habitat in Iran: Bean plant, chinese date, pistachio orchards, fruit trees, grapevines, pomegranate, fig, european barberry, crop fields, fruit plants, range plants, crop fields, weeds, wild pistachio tree, cyclamen, soil of vineyards.

### **5. *Tenuipalpus kamalii* Khosrowshahi & Arbabi, 1997**

Distribution in Iran: Tehran (Khosrowshahi & Arbabi 1997; Abaii 2000), Hamedan (Khanjani Ma. *et al.* 2012a).

Habitat in Iran: European ash, leaves of plants.

### **6. *Tenuipalpus parsii* Khosrowshahi & Arbabi, 1997**

Distribution in Iran: Kurdistan (Mansour-Ghazi *et al.* 2006), Tehran (Khosrowshahi & Arbabi, 1997).

Habitat in Iran: Strawberry fields, ribwort plantain.

### **7. *Tenuipalpus portulacae* Parsi, Khosrowshahi & Farid, 1990**

Distribution in Iran: Kerman (Parsi *et al.* 1990; Khosrowshahi & Arbabi 1997).

Habitat in Iran: Common purslane.

### **8. *Tenuipalpus punicae* Pritchard & Baker, 1958**

*Tenuipalpus punicae* [sic].– Sadana & Chhabra, 1980.

Distribution in Iran: Qum (Khosrowshahi 1984), Fars (Khosrowshahi 1984; Khosrowshahi & Arbabi 1997; Behdad 2002), Markazi (Khalil-Manesh 1973; Sepasgozarian 1976; Behdad 1984, 1988, 2002; Zomorodi 1991; Soroosh 1995; Khosrowshahi & Arbabi 1997; Soroosh & Kamali 2002a, b; Arbabi *et al.* 2006a, b), Kermanshah (Babakfard *et al.* 2008), Khuzestan (Sepasgozarian 1977; Kamali 1989; Mirkarimi 1999), Alborz (Rashki & Saboori 2004b), South Khorasan (Darmiani *et al.* 2011), Kerman (Izadi *et al.* 2010a; Farzan & Asadi 2011, 2012; Mohammdai *et al.* 2012), Bushehr (Kamali 1989), Tehran (Sepasgozarian 1977), Hamedan (Khanjani Ma. *et al.* 2012a), Razavi Khorasan (Salarzahi *et al.* 2012).

Habitat in Iran: Pomegranate trees, fruit trees, common fig tree, citrus, palm, grapevine,

soil of vineyards.

*Remarks 1:* *Tenuipalpus pistaciae* and *Tenuipalpus jahromensis* were mentioned by Sepasgozarian (1972) and Khademi *et al.* (2006) respectively from Iran. These names are considered here as nomen nudum since no descriptions are published.

*Remarks 2:* Unidentified species representing the genera *Afronychus* Meyer, 1979 and *Priscapalpus* De-Leon, 1961 by Farzan & Asadi (2011) were also collected from Iran.

## **Family Tetranychidae Donnadieu, 1875**

### **Genus *Amphitetranychus* Oudemans, 1931**

#### **1. *Amphitetranychus viennensis* (Zacher, 1920)**

*Tetranychus* (*Epitetranychus*) *viennensis* Zacher, 1920 (Original designation); *Amphitetranychus viennensis*.–Oudemans, 1931; *Tetranychus viennensis*.– Reck, 1950; *Amphitetranychus viennensis*.– Navajas, Gutierrez & Gotoh, 1997; *Amphitetranychus viennensis*.– Ehara, 1956; *Tetranychus* (*Amphitetranychus*) *viennensis*.– Wainstein, 1960; *Tetranychus* (*Armenychus*) *viennensis*.– Tseng, 1990.

*Tetranychus crataegi* Hirst, 1920 (Synonymized by Zacher, 1921).

*Apotetranychus longipenis* Ugarov & Nikolskii, 1937 (Synonymized by Ugarov & Nikolskii, 1937).

*Apotetranychus virginis* Ugarov, 1937 (Synonymized by Wainstein, 1960).

Distribution in Iran: Isfahan (Khalil-Manesh 1972; Sepasgozarian & Schruft 1975; Sepasgozarian 1977; Behdad 1984; Zomorodi 1991), Alborz (Khalil-Manesh 1972; Sepasgozarian & Schruft 1975; Sepasgozarian 1976, 1977; Behdad 1984; Zomorodi 1991; Jamali *et al.* 2001; Zahedi-Golpayegani *et al.* 2004, 2007, 2010; Kafil *et al.* 2007), West Azarbaijan (Sepasgozarian & Schruft 1975; Sepasgozarian 1977; Behdad 1984), East Azarbaijan (Khodayari *et al.* 2008b, 2011), Mazandaran (Faraji 1993), Golestan (Sepasgozarian & Schruft 1975; Sepasgozarian 1976; Behdad 1984).

Habitat in Iran: Apple trees, pear, quince, apricot, cherry, sour cherry, black cherry trees, peach trees, plum.

### **Genus *Aplonobia* Womersley, 1940**

#### **1. *Aplonobia karadagi* (Mitrofanov, 1975)**

*Georgiobia karadagi* Mitrofanov, 1975 (Original designation).

Sistribution in Iran: Mazandaran (Khanjani & Ueckermann 2005).

Habitat in Iran: Oriental beech, pine tree.

### **Genus *Bryobia* Koch, 1835**

#### **1. *Bryobia karoensis* Meyer, 1974.**

Distribution in Iran: Hamedan (Khanjani & Kamali 1993).

Habitat in Iran: Camelthorn.

#### **2. *Bryobia mirmoayedii* Khanjani, Gotoh & Kitashima, 2008**

Distribution in Iran: Kermanshah (Khanjani *et al.* 2008a), Hamedan (Masoudian *et al.* 2012).

Habitat in Iran: Bulbous bluegrass, medicinal plants.

#### **3. *Bryobia neopraetiosa* Meyer, 1974**

Distribution in Iran: Zanjan (Rahmani *et al.* 2011).

Habitat in Iran: Orchards, crop fields, weeds in apple orchards.

#### 4. *Bryobia praetiosa* Koch, 1836

*Bryobia praetiosa*.– Mathys, 1956; *Bryobia (Bryobia) praetiosa*.– Livshits & Mitrifanov, 1971.

*Bryobia humeralis* Halbert, 1923 (Synonymized by Pritchard & Baker, 1955).

*Bryobia latitans* Livshits & Mitrifanov, 1966 (Synonymized by Livshitz & Mitrofanov, 1971).

*Bryobia pseudopraetiosa* Wainstein, 1956 (Synonymized by Wainstein, 1960).

Distribution in Iran: Hamedan (Khanjani & Kamali 1993, 1998, 2000; Masoudian *et al.* 2012), Chahar Mahal and Bakhtiari (Noorbakhsh & Kamali 1995), Kerman (Jalilani & Arbabi 2000a; Mehrnejad & Ueckermann 2001; Izadi *et al.* 2010a), South Khorasan (Rahimi *et al.* 2004), Kermanshah (Babakfard *et al.* 2008), Tehran (Farahbakhsh 1961; Khalil-Manesh 1972; Sepasgozarian 1977; Mehran 1998; Kamali *et al.* 2006; Ahadiyat *et al.* 2004), Alborz (Ahadiyat *et al.* 2004), Khuzestan (Kamali 1989; Sadeghi-Namaghi & Kamali 1991, 1993a), Guilan (Khalil-Manesh 1972), Golestan (Khalil-Manesh 1972), Mazandaran (Gardenhire 1959; Khalil-Manesh 1972), Zanzan (Rahmani *et al.* 2011), Kerman (Mahdavi & Asadi 2011).

Habitat in Iran: Russian knapweed, gramineous plant, clover fields, saffron fields, fruit trees, soil samples, crop fields, range plant, walnut trees, in the galleries of bark beetles (*Scolytus amygdali*), wild cherry trees, barley fields, wild rye, weeds, orchards, citrus, pomegranate, plums, wheat, pistachio trees, apple, pear, cherry, some medicinal plants, prune trees.

#### 5. *Bryobia rubrioculus* (Scheuten, 1857)

*Sannio rubrioculus* Scheuten, 1857 (Original designation); *Bryobia rubrioculus*.–Van Eyndhoven, 1956.

*Bryobia bioculus* Amerlind, 1862 (Synonymized by Livshitz & Mitrofanov, 1971).

*Acarus pyri* Boisduval, 1867; *Bryobia pyri* (Boisduval, 1867) (Synonymized by Livshits & Mitrofanov, 1971).

*Bryobia goriensis* Reck, 1947 (Synonymized by Wainstein, 1960).

*Bryobia redikorzevi* Reck, 1947 (Synonymized by Frommer & Jorgensen, 1972).

*Bryobia arborea* Morgan & Anderson, 1957 (Synonymized by Baker & Pritchard, 1960).

Distribution in Iran: Hamedan (Khanjani & Kamali 1998, 2000a; Eghbalian *et al.* 2007a, b, 2008; Khanjani & Eghbalian 2008a, b; Rostami *et al.* 2010a, c, e, 2011; Honarparvar *et al.* 2011), Mazandaran (Barimani-Varandi *et al.* 2004), Tehran (Khalil-Manesh 1972; Sepasgozarian 1972, 1976, 1977; Behdad 1984; Zomorodi 1991; Baradaran *et al.* 2006), West Azarbaijan (Baradaran *et al.* 2006; Atamehr *et al.* 2007), East Azarbaijan (Sepasgozarian 1977; Daneshvar 1978; Esmaeili & Oloumi-Sadeghi 1980; Behdad 1984; Baradaran *et al.* 2006, 2008b), Kermanshah (Darb-Emamieh *et al.* 2009, 2011b; Babakfard *et al.* 2008; Honarparvar *et al.* 2011), Razavi Khorasan (Shakhsi-Zare *et al.* 2008a), Alborz (Khalil-Manesh 1972; Sepasgozarian 1977; Keshavarz-Jamshidian *et al.* 2004; Arbabi *et al.* 2006c), Isfahan (Jalaeian *et al.* 2005a), Fars (Majidi & Akrami 2011), South Khorasan (Darmiani *et al.* 2011), Zanzan (Rahmani *et al.* 2011).

Habitat in Iran: Broad leaf trees, weeds, apple trees, plum trees, cherry trees, fruit trees, soil, sweet cherry, peach, pear, sour cherry, walnut, clover, grape, apricot, wild almond, broom grass, crop fields, foliage, range plant, almond, fruits and trunk fiber of date palms, orchards and field crops, weeds in pome fruit orchards, clover, blackthorn, quince, black cherry, bindweed.

## 6. *Bryobia tuttlei* Smiley & Baker, 1995

Distribution in Iran: Hamedan (Khanjani & Kamali 1998).

Habitat in Iran: Crop fields, sruit trees, range plant.

## Genus *Eotetranychus* Oudemans, 1931

### 1. *Eotetranychus carpini* (Oudemans, 1905)

*Tetranychus carpini* Oudemans, 1905 (Original designation); *Eotetranychus carpini*.– Oudemans, 1931; *Schizotetranychus (Eotetranychus) carpini*.– Reck, 1948. *Tetranychus borealis* Ewing, 1913; *Eotetranychus carpini borealis*.– Pritchard & Baker, 1952 (Synonymized by Pritchard & Baker, 1955).

*Tetranychus flavus* Ewing, 1913 (Synonymized by Pritchard & Baker, 1952).

*Tetranychus oregonensis* McGregor, 1917 (Synonymized by Pritchard & Baker, 1952).

*Tetranychus monticolus* McGregor, 1917 (Synonymized by Pritchard & Baker, 1952).

*Schizotetranychus (Eotetranychus) carpinula* Reck, 1950; *Schizotetranychus carpinula*.– Bagdasarian, 1957 (Synonymized by Pritchard & Baker, 1955).

*Schizotetranychus (Eotetranychus) pterocaryae* Reck, 1950; *Schizotetranychus pterocaryae*.– Bagdasarian, 1957 (Synonymized by Pritchard & Baker, 1955).

Distribution in Iran: East Azarbaijan (Daneshvar 1978; Khodayari *et al.* 2011), Razavi Khorasan (Khoshnevis *et al.* 2011).

Habitat in Iran: Oak, apple, pear, cherry.

### 2. *Eotetranychus fagi* (Zacher, 1922)

*Epitetranychus fagi* Zacher, 1922 (Original designation); *Schizotetranychus (Eotetranychus) fagi*.– Reck, 1948; *Schizotetranychus fagi*.– Bagdasarian, 1957; *Eotetranychus fagi*.– Pritchard & Baker, 1955; *Eotetranychus fagi*.– Bolland, Gutierrez & Flechtmann, 1998.

Distribution in Iran: Khuzestan (Barimani-Varandi & Kamali 2000; Barimani-Varandi *et al.* 2004).

Habitat in Iran: Beech trees, broad leaf trees.

### 3. *Eotetranychus frosti* (McGregor, 1952)

*Tetranychus frosti* McGregor, 1952 (Original designation). *Eotetranychus frosti*.– Pritchard & Baker, 1955.

Distribution in Iran: East Azarbaijan (Khodayari *et al.* 2008b, c, 2010), Razavi Khorasan (Sadeghi 1995), South Khorasan (Darmiani *et al.* 2011), Kermanshah (Darb-Emamieh *et al.* 2011a, 2012).

Habitat in Iran: Apple trees; Fruit trees.

### 4. *Eotetranychus hirsti* Pritchard & Baker, 1955

*Tetranychus fici* Hirst, 1926.

Distribution in Iran: Fars (Kamali & Shishehbor 1989; Shishehbor & Kamali 1989a, b, 1991; Said-Pour & Daneshvar 1993, 1995; Faghieh & Mobayen 1993; Faghieh & Naem 1998; Abaii 2000; Arbabi *et al.* 2012; Daneshnia *et al.* 2012), Tehran (Daneshvar 1987; Said-Pour & Daneshvar 1993, 1995), Sistan and Baluchestan (Arbabi 1995; Arbabi *et al.* 2002), Khuzestan (Kamali & Shishehbor 1989; Shishehbor & Kamali 1989a, b, 1990a, b, 1991; Kamali 1989; Afshari *et al.* 2000b; Haghghat-Khah & Azimi 1995), Markazi (Baradaran *et al.* 2002; Baradaran & Arbabi 2006), Guilan (Hajizadeh 2006; Baradaran & Arbabi 2008), Kermanshah (Babakfard *et al.* 2008), Bushehr (Kamali & Shishehbor 1989; Shishehbor & Kamali 1989a, b), Kohgiluyeh and Boyer-Ahmad

(Shishehbor & Kamali 1989a, b, 1991), Semnan (Daneshvar 1987), Hormozgan (Arbabi *et al.* 2002).

Habitat in Iran: Fig orchards, fruit trees, citrus trees.

#### **5. *Eotetranychus lewisi* McGregor, 1943**

*Tetranychus lewisi* McGregor, 1943 (Original designation).

Distribution in Iran: Khuzestan (Kamali 1988).

Habitat in Iran: Common fig.

#### **6. *Eotetranychus populi* (Koch, 1838)**

*Tetranychus populi* Koch, 1838 (Original designation); *Schizotetranychus populi*.– Reck, 1959; *Eotetranychus populi*.– Pritchard & Baker, 1955.

*Tetranychus salicicola* Zacher, 1920; *Eotetranychus salicicola*.– Zacher, 1933; *Amphitetranychus salicicola*.– Geijskes, 1939; *Schizotetranychus (Eotetranychus) salicicola*.– Reck, 1948 (Synonymized by McGregor, 1950).

Distribution in Iran: East Azarbaijan (Daneshvar 1978; Abaii 2000; Khodayari *et al.* 2011), Isfahan (Khalil-Manesh 1972; Sepasgozarian 1977; Abaii 2000), West Azarbaijan (Abaii 2000; Atamehr *et al.* 2007), Zanjan (Rahmani *et al.* 2011), Alborz (Babmorad & Sadeghi 2004), Tehran (Khodayari *et al.* 2011).

Habitat in Iran: Poplar trees, crop fields, orchards and weeds, willow.

#### **7. *Eotetranychus potentillae* Tuttle & Baker, 1964**

Distribution in Iran: Mazandaran (Khodayari *et al.* 2011), Tehran (Khodayari *et al.* 2011).

Habitat in Iran: Raspberry.

#### **8. *Eotetranychus pruni* (Oudemans, 1931)**

*Tetranychus pruni* Oudemans, 1931 (Original designation); *Eotetranychus pruni*.– Geijskes, 1939; *Schizotetranychus (Eotetranychus) pruni*.– Reck, 1950; *Eotetranychus pruni*.– Pritchard & Baker, 1955; *Eotetranychus pruni*.– Bagdasarian, 1957; *Eotetranychus pruni*.– Bolland, Gutierrez & Flechtmann, 1998.

*Schizotetranychus (Eotetranychus) viticola* Reck, 1948; *Eotetranychus viticola*.– Pritchard & Baker, 1955; *Schizotetranychus viticola*.– Bagdasarian, 1957; *Eotetranychus viticola*.– Reck, 1959 (Synonymized by Reck, 1959).

*Schizotetranychus (Eotetranychus) aesculi* Reck, 1950; *Eotetranychus aesculi*.– Pritchard & Baker, 1955 (Synonymized by Reck, 1959).

*Schizotetranychus (Eotetranychus) kargalensis* Wainstein, 1956 (Synonymized by Reck, 1959).

*Eotetranychus pomi* Sepasgozarian, 1956 (Synonymized by Reck, 1959).

Distribution in Iran: Khuzestan (Afshari *et al.* 2000b), Razavi Khorasan (Shahrokhi *et al.* 1986; Shahrokhi 1988; Sadeghi 1995; Shakhshi-Zare *et al.* 2008a), North Khorasan (Shahrokhi *et al.* 1986; Shahrokhi 1988; Shahrokhi & Nikkhoo 1990), Tehran (Sepasgozarian 1977; Esmaeili & Oloumi-Sadeghi 1980; Esameili 1983; Behdad 1984), Isfahan (Sepasgozarian 1972, 1976, 1977; Khalil-Manesh 1973; Behdad 1984; Mehran 1998), Fars (Sepasgozarian 1977; Behdad 1984), East Azarbaijan (Daneshvar 1978).

Habitat in Iran: Apple, pear, ornamental plant.

#### **9. *Eotetranychus uncatus* Garman, 1952**

*Schizotetranychus exiguous* Wainstein, 1956 (Synonymized by Wainstein, 1960).

Distribution in Iran: East Azarbaijan (Khodayari *et al.* 2011).

Habitat in Iran: Plum trees.

**10. *Eotetranychus weldoni* (Ewing, 1913)**

*Tetranychus weldoni* Ewing, 1913 (Original designation); *Eotetranychus weldoni*.– Pritchard & Baker, 1955.

*Tetranychus californicus* McGregor, 1928 (Synonymized by Pritchard & Baker, 1955).

Distribution in Iran: Tehran (Sepasgozarian 1977; Behdad 1988).

Habitat in Iran: Bay Willow.

**11. *Eotetranychus willamettei* (McGregor, 1917)**

*Tetranychus willamettei* McGregor, 1917 (Original designation); *Eotetranychus willamettei*.– Pritchard & Baker, 1952.

Distribution in Iran: Razavi Khorasan (Sadeghi-Namaghi 2009, 2010; Sheikholeslam-Zadeh *et al.* 2010).

Habitat in Iran: Broad leaf tree, elm tree, plane tree, white mulberry.

**Genus *Eurytetranychus* Oudemans, 1931**

**1. *Eurytetranychus admes* Pritchard & Baker, 1955**

Distribution in Iran: Mazandaran (Barimani-Varandi & Kamali 1998a).

Habitat in Iran: Conifer trees.

**2. *Eurytetranychus buxi* (Garman, 1935)**

*Neotetranychus buxi* Garman, 1935; *Simplinychus buxi*.– McGregor, 1950; *Eurytetranychus buxi*.– Geijskes, 1939.

*Tetranychus latus* Canestrini & Fanzago, 1876 (Original designation); *Eurytetranychus latus*.– Oudemans, 1931 (Synonymized by Pritchard & Baker, 1955).

Distribution in Iran: Guilan (Khalil-Manesh 1972; Sepasgozarian 1976, 1977; Behdad 1988), Mazandaran (Khalil-Manesh 1972; Sepasgozarian 1977; Behdad 1988).

Habitat in Iran: Common box.

**Genus *Eutetranychus* Banks, 1917**

**1. *Eutetranychus africanus* (Tucker, 1926)**

*Anychus africanus* Tucker, 1926 (Original designation); *Eutetranychus africanus*.– Baker & Pritchard, 1960.

*Eutetranychus sambiranensis* Gutierrez & Helle, 1971 (Synonymized by Gutierrez & Etienne, 1986).

Distribution in Iran: Razavi Khorasan (Sheikholeslam-Zadeh & Sadeghi 2010a, b), Tehran (Ghasemi-Moghadam *et al.* 2012).

Habitat in Iran: Broad leaf tree, ornamental shrubs, plane tree.

**2. *Eutetranychus banksi* (McGregor, 1914)**

*Tetranychus banksi* McGregor, 1914 (Original designation); *Neotetranychus (Eutetranychus) banksi*.– Banks, 1917; *Anychus banksi*.– McGregor, 1919.

*Anychus clarki* McGregor, 1935; *Eutetranychus clarki*.– McGregor, 1950 (Synonymized by Pritchard & Baker, 1955).

*Eutetranychus mexicanus* McGregor, 1950 (Synonymized by Pritchard & Baker, 1955).

*Tetranychus rusti* McGregor, 1917; *Anychus rusti*.– McGregor, 1919; *Eutetranychus rusti*.– McGregor, 1950 (Synonymized by Pritchard & Baker, 1955).

*Anychus verganii* Blanchard, 1940 (Synonymized by Pritchard & Baker, 1955).

Distribution in Iran: Southern part of country (Gardenhire 1959).

Habitat in Iran: Citrus trees.

### **3. *Eutetranychus fici* Meyer, 1987**

Distribution in Iran: Fars (Kamali & Shishehbor 1989; Abaii, 2000), Khuzestan (Kamali 1989; Kamali & Shishehbor 1989; Shishehbor & Kamali, 1990a), Bushehr (Kamali & Shishehbor 1989).

Habitat in Iran: Common Fig.

### **4. *Eutetranychus orientalis* (Klein, 1936)**

*Anychus orientalis* Klein, 1936 (Original designation); *Eutetranychus orientalis*.– Baker & Pritchard, 1960.

*Anychus ricini* Rahman & Sapra, 1940 (Synonymized by Baker & Pritchard, 1960).

*Eutetranychus monodi* André, 1954 (Synonymized by Baker & Pritchard, 1960).

*Eutetranychus sudanicus* Elbadry, 1970 (Synonymized by Meyer, 1987).

*Eutetranychus anneckeii* Meyer, 1974 (Synonymized by Meyer, 1987).

Distribution in Iran: Fars (Farahbakhsh 1972; Farid & Parsi 1984; Monsef 1986; Kamali & Shishehbor 1989; Khalaf 1993; Faghih & Mobayen 1995; Abaii 2000; Sahraeian *et al.* 2006; Khademi *et al.* 2006; Arbabi *et al.* 2006d; Ebrahimi *et al.* 2010; Majidi & Akrami 2011; Arabzadeh *et al.* 2012; Foroughifard *et al.* 2012), Khuzestan (Farahbakhsh, 1961, 1972; Khalilmanesh 1972; Farid & Parsi 1984; Kamali 1989; Kamali & Shishehbor 1989; Shishehbor & Kamali 1990a; Daneshvar 1990; Haghghat-Khah & Azimi 1995; Seraj & Arbabtafti 1998; Mirkarimi 1999; Afshar *et al.* 2000a, b; Malekzadeh *et al.* 2000; Arbabi *et al.* 2002; Baharloo *et al.* 2006; Darvishzadeh & Kamali 2009; Imani & Shishehbor 2009), Sistan and Baluchestan (Farid & Parsi 1984; Arbabi 1995; Arbabi *et al.* 2002), Kerman (Farahbakhsh 1961, 1972; Khalilmanesh 1972; Sepasgozarian 1977; Farid & Parsi 1984; Assari *et al.* 2004a, b; Izadi *et al.* 2010a; Mahdavi & Asad 2011; Mohammadi *et al.* 2012), Kohgiluyeh and Boyer Ahmad (Monsef 1986; Saeedi 2006), South Khorasan (Moodi 2002), Razavi Khorasan (Sheikholeslam-Zadeh *et al.* 2010), Hormozgan (Khalil-Manesh 1972; Sepasgozarian 1976, 1977; Farid & Parsi 1984; Arbabi *et al.* 2002), Bushehr (Kamali & Shishehbor 1989), Hamedan (Khanjani & Eghbalian 2008a; Masoudian *et al.* 2012).

Habitat in Iran: Citrus trees, grape fruit, lime tree, orange tree, mandarin orange trees, sweet lemon trees, apple orchards, broad leaf tree, wheat, common fig, pomegranate, cotton, bean, nabk tree, lilac, castor bean, ornamental plants, peach trees, jujube trees, alfalfa, clover, mung, sugarcane fields, chinese date, soil samples, apricot, okra, cucumber, mulberry, pear, oleander, olive, willow, black locust, leaves, fruits and trunk fiber of date palms, almond, grapevine, plum, cherry, persian silk tree, lebbek tree, jujuba, papaya, neem trees, bark of apple trees damaged by scolytids.

### **5. *Eutetranychus palmatus* Attiah, 1967**

Distribution in Iran: Khuzestan (Kamali 1989).

Habitat in Iran: Date palm.

### **Genus *Meyernychus* Mitrofanov, 1977**

#### **1. *Meyernychus emeticae* (Meyer, 1974)**

*Eutetranychus emeticae* Meyer, 1974 (Original designation); *Meyernychus emeticae*.– Mitrofanov, 1977.

Distribution in Iran: Razavi Khorasan (Shakhsi-Zare *et al.* 2008a, b).

Habitat in Iran: White mulberry.

### **Genus *Oligonychus* Berlese, 1886**

### **1. *Oligonychus afrasiaticus* (McGregor, 1939)**

*Paratetranychus afrasiaticus* McGregor, 1939 (Original designation); *Oligonychus* (*Reckiella*) *afrasiaticus*.– Pritchard & Baker, 1968.

*Oligonychus simplex* Hirst, 1920 (Synonymized by Pritchard & Baker, 1955).

Distribution in Iran: Khuzestan (Davachi 1949; Gardenhire 1959; Farahbakhsh 1961; Gharib 1967; Sepasgozarian 1971b, 1972, 1977; Khalil-Manesh 1972; Esmaeili 1983; Behdad 1984, 1988; Kamali 1989; Kajbaf-Vala & Kamali 1991, 1993; Sadeghi-Namaghi & Kamali 1993a; Mehran 1998; Kadjbaf-Vala 2000, 2004; Afshari *et al.* 2000b; Behdad 2002; Latifian *et al.* 2007, 2008; Khajeh-Zadeh & Latifian 2010; Arbabi *et al.* 2010), Bushehr (Gharib 1967, 1973; Sepasgozarian 1971b, 1972; Esmaeili 1983; Behdad 1984, 1988; Fassihi *et al.* 2008; Arbabi *et al.* 2010), Hormozgan (Gharib 1967, 1973; Sepasgozarian 1971b; Esmaeili 1983; Behdad 1988; Arbabi *et al.* 2002, 2010; Fassihi *et al.* 2008), Sistan and Baluchestan (Farahbakhsh 1961; Gharib 1967; Sepasgozarian 1971b, 1972; Esmaeili 1983; Behdad 1988; Arbabi *et al.* 2002, 2010; Fassihi *et al.* 2008; Motamedinia 2012), Kerman (Farahbakhsh 1961; Sepasgozarian 1971b; Esmaeili 1983; Behdad 1988; Fassihi *et al.* 2008; Arbabi *et al.* 2010; Izadi *et al.* 2010a), Fars (Farahbakhsh 1961; Gharib 1967, 1973; Sepasgozarian 1971b, 1972, 1976, 1977; Khalil-Manesh 1972; Esmaeili 1983; Behdad 1988; Ebrahimi *et al.* 2010; Majidi & Akrami 2011; Majidi *et al.* 2012), Isfahan (Gharib 1967; Behdad 1988).

Habitat in Iran: Wheat, *Sorghum* sp., cereals, date palm, fan palm, alfalfa, fruits and trunk fiber of date palms, citrus, pomegranate, sugarcane, corn, bermuda grass.

*Remarks:* This species was reported for the first time from Iran by Abbas Davachi in 1949 (Behdad 1988; Gharib 1967).

### **2. *Oligonychus bicolor* (Banks, 1894)**

*Tetranychus bicolor* Banks, 1894 (Original designation); *Paratetranychus bicolor*.– Banks, 1917; *Oligonychus bicolor*.– Pritchard & Baker, 1955; *Oligonychus* (*Oligonychus*) *bicolor*.– Tseng, 1990.

Distribution in Iran: Guilan (Behdad 1988; Hajizadeh 2006; Ramroodi *et al.* 2006), Razavi Khorasan (Shakhsi-Zare *et al.* 2008a), Tehran (Khalil-Manesh 1972; Sepasgozarian 1972, 1976, 1977; Behdad 1984; Baradaran *et al.* 2008b), Alborz (Khalil-Manesh 1972; Sepasgozarian 1977; Behdad 1984).

Habitat in Iran: Cherry, sour cherry, quince, white mulberry, black mulberry, oak trees, plane tree, rubber fig, norway Spruce, strawberry.

### **3. *Oligonychus coffeae* (Nietner, 1861)**

*Acarus coffeae* Nietner, 1861 (Original designation); *Oligonychus* (*Oligonychus*) *coffeae*.– Tseng, 1990.

*Tetranychus bioculatus* Wood Mason, 1884; *Paratetranychus bioculatus*.– Baker & Pritchard, 1953 (Synonymized by Wainstein, 1956).

*Oligonychus merwei* Tucker, 1926 (Synonymized by Pritchard & Baker, 1955).

Distribution in Iran: Mazandaran (Barimani-Varandi *et al.* 2004), Razavi Khorasan (Sadeghi 1995; Sadeghi-Namaghi 2009, 2010).

Habitat in Iran: Broad leaf trees, apple, quince, oak tree.

### **4. *Oligonychus coniferarum* (McGregor, 1950)**

*Paratetranychus caniferarum* McGregor, 1950 (Original designation); *Oligonychus* (*Oligonychus*) *coniferarum*.– Tuttle & Baker, 1968.

Distribution in Iran: Khuzestan (Barimani-Varandi & Kamali 2000; Abaii 2000), Zanjan

(Rahmani *et al.* 2011).

Habitat in Iran: Leaves and branches of cypress trees, orchards, crop fields, weeds.

**5. *Oligonychus gutierrezii* Parsi, 1979**

Distribution in Iran: Isfahan (Parsi 1979; Behdad 1988; Abaii 2000).

Habitat in Iran: Plane tree.

**6. *Oligonychus ilicis* (McGregor, 1917)**

*Tetranychus ilicis* McGregor, 1917 (Original designation); *Paratetranychus ilicis*.– McGregor, 1919; *Oligonychus ilicis*.– Pritchard & Baker, 1955.

Distribution in Iran: Razavi Khorasan (Sadeghi-Namaghi 2009, 2010).

Habitat in Iran: Thuja tree, arizona cypress.

**7. *Oligonychus judithae* Meyer, 1974**

Distribution in Iran: Isfahan (Behdad 1988 Senu Naeem 1984), Razavi Khorasan (Sadeghi-Namaghi 2009, 2010).

Habitat in Iran: Thuja tree, prostrata juniper, mediterranean cypress.

**8. *Oligonychus mangiferus* (Rahman & Sapra, 1940)**

*Paratetranychus mangiferus* Rahman & Sapra, 1940 (Original designation); *Oligonychus mangiferus*.– Pritchard & Baker, 1955.

*Paratetranychus insularis* McGregor, 1950 (Synonymized by Pritchard & Baker, 1955).

*Paratetranychus terminalis* Sayed, 1946; *Oligonychus terminalis*.– Pritchard & Baker, 1955 (Synonymized by Zaher *et al.* 1984).

Distribution in Iran: Razavi Khorasan (Arbabi *et al.* 2002; Sheikholeslam-Zadeh & Sadeghi 2010a, b).

Habitat in Iran: Broad leaf tree, white willow, silver poplar, black locust, mango.

*Remarks:* Sheikholeslam-Zadeh & Sadeghi (2010) mistakenly reported this species as new for Iranian mite fauna.

**9. *Oligonychus platani* (McGregor, 1950)**

*Paratetranychus platani* McGregor, 1950 (Original designation); *Oligonychus platani*.– Pritchard & Baker, 1955; *Oligonychus (Homonychus) platani*.– Tuttle & Baker, 1968.

Distribution in Iran: Isfahan (Khalil-Manesh 1972; Parsi 1979; Abaii 2000), Hormozgan (Khalil-Manesh 1972; Sepasgozarian 1977; Behdad 1988).

Habitat in Iran: Plane tree; Pine tree; Sunflower.

**10. *Oligonychus sacchari* (McGregor, 1942)**

*Paratetranychus sacchari* McGregor, 1942 (Original designation); *Oligonychus sacchari*.– Pritchard & Baker, 1955.

Distribution in Iran: Khuzestan (Khalil-Manesh 1972; Sepasgozarian 1976; Kamali 1989; Sadeghi-Namaghi & Kamali 1991, 1992, 1993a, b; Afshari *et al.* 2000a, b, 2007; Taherkhani *et al.* 2002), Khuzestan (Khanjani 2004), Isfahan (Behdad 1988 Senu Abaii 1983).

Habitat in Iran: Sugarcane fields, cereals, plane tree.

*Remarks:* Instead of *Oligonychus sacchari*, Khanjani (2004) mistakenly cited *O. saccharinus* Baker & Pritchard, 1960 which is not distributed in Iran. He also mentioned *O. saccharinusi* Meyer (Year was not mentioned) as a synonym of *O. saccharinus*. Such a species does not exist.

**11. *Oligonychus ununguis* (Jacobi, 1905)**

*Tetranychus ununguis* Jacobi, 1905 (Original designation); *Paratetranychus ununguis*.– Zacher, 1913; *Oligonychus ununguis*.– Hirst, 1920; *Oligonychus (Oligonychus) ununguis*.– Tuttle & Baker, 1968; *Oligonychus (Paratetranychus) ununguis*.– Wainstein, 1960.

*Tetranychus uniunguis* Ewing, 1917; *Neotetranychus uniunguis*.– McGregor, 1919; *Paratetranychus uniunguis*.– McGregor, 1950 (Synonymized by Pritchard & Baker, 1955).

*Oligonychus americanus* Ewing, 1921; *Paratetranychus americanus*.– McGregor, 1950 (Synonymized by Pritchard & Baker, 1955).

*Paratetranychus pini* Hirst, 1924 (Synonymized by Pritchard & Baker, 1955).

*Oligonychus biotae*, Reck, 1953 (Synonymized by Mitrofanov, Bosenko & Bichevskis, 1975).

*Paratetranychus inouei* Ehara, 1954; *Oligonychus inouei*.– Pritchard & Baker, 1955 (Synonymized by Ehara, 1962).

*Oligonychus rollowi* Reck, 1956 (Synonymized by Mitrofanov, Bosenko & Bichevskis, 1975).

Distribution in Iran: Mazandaran (Daneshvar 1990; Barimani-Varandi & Kamali 1998a, b; Abaii 2000; Barimani-Varandi *et al.* 2005), Guilan (Daneshvar 1990; Abaii 2000), Tehran (Abaii 2000), Razavi Khorasan (Sadeghi-Nameghi 2009, 2010), Zanjan (Rahmani *et al.* 2011), Golestan (Daneshvar 1990), Kerman (Mahdavi & Asadi 2011).

Habitat in Iran: Leaves and branches of pine trees, spruce trees, norway spruce, turkish fir tree, persian juniper tree, thuja tree, crop fields, orchards, weeds, cypress tree, prostrata juniper, pine tree, arizona Cypress.

### **12. *Oligonychus yothersi* (McGregor, 1914)**

*Tetranychus yothersi* McGregor, 1914 (Original designation); *Paratetranychus yothersi*.– Banks, 1915; *Oligonychus (Oligonychus) yothersi*.– Tuttle, Baker & Sales, 1977.

*Oligonychus major* Ewing, 1921; *Paratetranychus major*.– McGregor, 1950 (Synonymized by Pritchard & Baker, 1955).

Distribution in Iran: Razavi Khorasan (Sheikholeslam-Zadeh & Sadeghi 2010a, b).  
Habitat in Iran: Broad leaf tree, plane tree, black mulberry, white mulberry.

### **13. *Oligonychus zae* (McGregor, 1955)**

*Paratetranychus zae* McGregor, 1955 (Original designation); *Oligonychus zae*.– Baker & Pritchard, 1962; *Oligonychus (Reckiella) zae*.– Tuttle, Baker & Abbatiello, 1976.

*Oligonychus mellinis* Flechtmann, 1971 (Synonymized by Flechtmann & Santana, 1997).

*Oligonychus (Reckiella) mellinni* Flechtmann, 1971 (Synonymized by Flechtmann, 1971).

Distribution in Iran: Khuzestan (Kamali 1989)

Habitat in Iran: Corn, sugarcane.

## **Genus *Panonychus* Yokoyama, 1929**

### **1. *Panonychus citri* (McGregor, 1916)**

*Tetranychus citri* McGregor, 1916 (Original description); *Paratetranychus citri*.– McGregor, 1919; *Metatetranychus citri*.– Reck, 1941; *Panonychus citri* (McGregor) Ehara, 1956.

*Tetranychus mytilaspidis* Banks, 1900; *Panonychus mytilaspidis*.– Banks, 1915 (Synonymized by Pritchard & Baker, 1955).

Distribution in Iran: Mazandaran (Davachi & Taghizadeh 1954; Gardenhire 1959; Farahbakhsh 1961, 1972; Sepasgozarian 1971b, 1972, 1977; Khalil-Manesh 1972, 1979; Daneshvar 1979, 1990; Jafari & Parsi 1989; Faraji & Kamali 1993; Taghavi *et al.* 1998a; Jafari & Khosrowshahi 1995; Jafari *et al.* 1998; Barimani-Varandi *et al.* 2004; Hashemi & Damavandian 2006; Abbasipour *et al.* 2006), Guilan (Davachi & Taghizadeh 1953, 1954b; Farahbakhsh 1961, 1972; Sepasgozarian 1971b, 1972; Khalil-Manesh 1972, 1979; Daneshvar, 1990; Hajizadeh 2006; Ramroodi *et al.* 2006), Kerman (Izadi *et al.* 2010a), Golestan (Davachi & Taghizadeh 1953, 1954b; Farahbakhsh 1961, 1972; Sepasgozarian 1971b, 1972; Khalil-Manesh 1972, 1979; Behdad 1988; Daneshvar 1990).

Habitat in Iran: Citrus trees, alder trees, tea plant, broad leaf trees, mulberry, palm, pomegranate.

## **2. *Panonychus mori* Yokoyama, 1929**

*Oligonychus mori*.– Pritchard & Baker, 1955.

Distribution in Iran: Provinces were not mentioned (Sepasgozarian 1971).

Habitat in Iran: Mulberry trees.

## **3. *Panonychus ulmi* (Koch, 1836)**

*Tetranychus ulmi* Koch, 1836 (Original designation); *Oligonychus ulmi*.– Hirst, 1920; *Metatetranychus ulmi*.– Oudemans, 1931; *Paratetranychus ulmi*.– Andre, 1937; *Panonychus ulmi*.– Ehara, 1956.

*Tetranychus pilosus* Canestrini & Fanzago, 1876; *Paratetranychus pilosus*.– Zacher, 1913; *Metatetranychus pilosus*.– Oudemans, 1931 (Synonymized by Pritchard & Baker, 1955).

*Panonychus pilosus alboguttatus* Zacher, 1913 (Synonymized by Pritchard & Baker, 1955).

*Tetranychus alboguttatus* Zacher, 1913; *Metatetranychus alboguttatus*.– Oudemans, 1931 (Synonymized by Pritchard & Baker, 1955).

*Panonychus pilosus occidentalis* McGregor & Newcomer, 1928 (Synonymized by Pritchard & Baker, 1955).

*Oligonychus alni* Oudemans, 1929; *Metatetranychus alni*.– Oudemans, 1931 (Synonymized by Pritchard & Baker, 1955).

*Oligonychus muscorum* Oudemans, 1929; *Metatetranychus muscorum*.– Oudemans, 1931 (Synonymized by Pritchard & Baker, 1955).

*Oligonychus potentillae* Oudemans, 1929; *Metatetranychus potentillae*.– Oudemans, 1931 (Synonymized by Pritchard & Baker, 1955).

*Metatetranychus mali* Oudemans, 1931 (Synonymized by Pritchard & Baker, 1955).

*Metatetranychus canestrinii* Oudemans, 1939 (Synonymized by Pritchard & Baker, 1955).

Distribution in Iran: West Azarbaijan (Bayatassadi & Parsi 1978; Mostaan 1986; Eslami-Zadeh & Pourmirza 1998; Mostaan & Shockat 1998; Akbarzadeh-Shoukat & Arbabi 2000, 2012; Behdad 2002; Hoseini-Nia *et al.* 2002; Arbabi *et al.* 2002; Baradaran *et al.* 2006; Mimoayedi 2006; Atamehr *et al.* 2007; Arbabi *et al.* 2009; Shemshadian *et al.* 2012), Semnan (Dezianian & Nadali 2000), Tehran (Farahbakhsh 1961; Sepasgozarian 1977; Esmaeili & Oloumi-Sadeghi 1980; Behdad 1984, 1988; Mehran 1998; Abaii 2000; Arbabi *et al.* 2002; Baradaran *et al.* 2006; Mirmoayedi,

2006), Razavi Khorasan (Sadeghi 1995; Arbabi *et al.* 2002, 2003, 2009; Mirmoayedi 2006; Shakhshi-Zare *et al.* 2008a; Sadeghi-Namaghi 2009, 2010; Sheikholeslam-Zadeh *et al.* 2010), Guilan (Behdad 1988; Hajizadeh 2006; Shakhshi-Zare 2008), Zanjan (Rahmani *et al.* 2008c, 2010, 2011), Kermanshah (Babakfard *et al.* 2008), Golestan (Sepasgozarian & Schruft 1975; Sepasgozarian 1977; Bayatassadi & Parsi 1978, 1980; Behdad 1988, 2002), Mazandaran (Bayatassadi & Parsi 1978; Behdad 1988, 2002), Ardabil (Arbabi *et al.* 2009; Taghi-Zadeh *et al.* 2011), Isfahan (Emami & Arbabi 2005), East Azarbaijan (Bayatassadi & Parsi 1978; Behdad 2002; Khodayari *et al.* 2008b), Kurdistan (Bayatassadi & Parsi 1978; Behdad 2002), South Khorasan (Darmiani *et al.* 2011), Alborz (Behdad 1988; Hajizadeh *et al.* 1994; Davoudi & Farzaneh 1994; Arbabi *et al.* 2006c).

Habitat in Iran: Apple trees, fruit trees, crop fields, weeds, maple tree, wild cherry trees, persian ironwood trees, blackthorn, pear trees, oak trees, false acacia tree, dog rose shrub, willow trees, lilac shrubs, linden, elm tree, peach tree, quince tree, plums tree, christ's thorn, liquorice, white mulberry, orchards, weeds in pome fruit orchards, almond, cherry, hawthorn, rose, slender amaranth, bindweed, prickly lettuce, common mallow, pagoda tree.

### **Genus *Petrobia* Murray, 1877**

#### **1. *Petrobia (Mesotetranychus) tunisiae* Manson, 1964**

*Petrobia tunisiae* Manson, 1964.

Distribution in Iran: Khuzestan (Kamali 1989; Sadeghi-Namaghi & Kamali 1991, 1993a).

Habitat in Iran: Barley, wheat.

#### **2. *Petrobia (Petrobia) brevipes* Rack & Bagdasarian, 1949**

Distribution in Iran: Hamedan (Khanjani & Kamali 1998).

Habitat in Iran: Crop fields, fruit plants, range plants.

#### **3. *Petrobia (Petrobia) latens* (Müller, 1776)**

*Acarus latens* Müller, 1776 (Original designation); *Petrobia latens*.– Oudemans, 1915; *Petrobia (Petrobia) latens*.– Wainstein, 1960.

*Acarus praegnans* Schrank, 1781 (Synonymized by Pritchard & Baker, 1955).

*Acarus petrarum* Fourcroy, 1785 (Synonymized by Pritchard & Baker, 1955).

*Trombidium lapidum* Hammer, 1804; *Petrobia lapidum*.– Murray, 1877 (Synonymized by Pritchard & Baker, 1955).

*Tetranychus anauniensis* Canestrini, 1889 (Synonymized by Pritchard & Baker, 1955).

*Tetranychopsis simplex* Trägårdh, 1904 (Synonymized by Pritchard & Baker, 1955).

*Tetranychopsis paupera* Berlese, 1910 (Synonymized by Pritchard & Baker, 1955).

*Tetranychus longipes* Banks, 1912; *Tetranobia longipes*.– Banks, 1917 (Synonymized by Pritchard & Baker, 1955).

*Tetranobia decepta*, Banks, 1917 (Synonymized by Pritchard & Baker, 1955).

*Tetranychina tritici* Ewing, 1921 (Synonymized by Pritchard & Baker, 1955).

*Petrobia cepae* Sayed, 1946 (Synonymized by Pritchard & Baker, 1955).

*Petrobia erevanica* Reck & Bagdasarian, 1949 (Synonymized by Reck, 1959).

Distribution in Iran: Chahar Mahal and Bakhtiari (Noorbakhsh & Kamali 1993; Noorbakhsh & Kamali 1995a, b), Hamedan (Khanjani & Kamali 1993, 1998; Babolhavaeji 2008), South Khorasan (Rahimi *et al.* 2004), Isfahan (Khalil-Manesh 1972; Sepasgozarian 1977), West Azarbaijan (Atamehr *et al.* 2007), Alborz (Khalil-

Manesh 1972; Sepasgozarian 1977), Khuzestan (Sadeghi-Namaghi & Kamali 1991, 1993a), Razavi Khorasan (Khanjani 2004 sensu Rahimi), Hamedan (Babolhavaeji *et al.* 2004), Kermanshah (Babolhavaeji *et al.* 2004), Sistan and Baluchestan (Arbabi *et al.* 2002), Kerman (Mahdavi & Asadi 2011), Fars (Yazdanpanah *et al.* 2012b). Habitat in Iran: Barley, alfalfa, corn, some pasture plants, pepper weed, morning glories, fumitory, centaury, mulberry shoots, saffron fields, wheat fields, camelthorn, russian knapweed, crop fields, fruit plants, range plants, common knotgrass, field bind weed, hoary cress, yarrow, sugar cane, weeds, soil under oak trees.

#### **4. *Petrobia (Tetranychina) harti* (Ewing, 1909)**

*Neophyllobius harti* Ewing, 1909 (Original designation); *Tetranychina harti*.– Banks, 1917; *Petrobia harti*.– Pritchard & Baker, 1955; *Petrobia (Tetranychina) harti*.– Wainstein, 1960.

*Tetranychina macdonoughi* McGregor, 1917 (Synonymized by Pritchard & Baker, 1955).

*Tetranychina tuberculata* Kishida, 1921 (Synonymized by Pritchard & Baker, 1955).

*Tenuicrus errabundus* Womersley, 1940 (Synonymized by Pritchard & Baker, 1955).

*Neobryobia spectabilis* Reck, 1941; *Tetranychina spectabilis*.– Reck, 1950 (Synonymized by Pritchard & Baker, 1955).

*Tetranychina agerati* Sayed, 1946 (Synonymized by Pritchard & Baker, 1955).

Distribution in Iran: Mazandaran (Faraji 1995; Taghavi *et al.* 1998a; Barimani & Akbarzadeh 2002; Khanjani 2004; Abbasipour *et al.* 2006), Tehran (Kamali *et al.* 2006).

Habitat in Iran: Tea plant, soil sample, baby's-breath, rice field.

### **Genus *Schizotetranychus* Trägårdh, 1915**

#### **1. *Schizotetranychus garmani* Pritchard & Baker, 1955.**

Distribution in Iran: Fars (Khalil-Manesh 1972; Sepasgozarian 1977), Zanjan (Rahmani *et al.* 2011).

Habitat in Iran: Willow, orchards, crop fields, weeds, poplar tree.

#### **2. *Schizotetranychus hindustanicus* (Hirst, 1924)**

*Tetranychus (Schizotetranychus) hindustanicus* Hirst, 1924 (Original designation).

Distribution in Iran: Razavi Khorasan (Sheikholeslam-Zadeh & Sadeghi 2010a, b).

Habitat in Iran: Broad leaf tree, white mulberry, black locust.

#### **3. *Schizotetranychus sayedi* Attiah, 1967**

Distribution in Iran: South Khorasan (Darmiani *et al.* 2011; Darmiani & Sadeghi 2012).

Habitat in Iran: Fruit trees, fig tree, almond trees, grapevine, apple and apricot trees.

#### **4. *Schizotetranychus schizopus* (Zacher, 1913)**

*Tetranychus schizopus* Zacher, 1913 (Original designation); *Schizotetranychus schizopus*.– Trägårdh, 1915.

Distribution in Iran: Razavi Khorasan (Khoshnevis *et al.* 2011).

Habitat in Iran: Orchards.

#### **5. *Schizotetranychus smirnovi* Wainstein, 1954**

Distribution in Iran: Chahar Mahal and Bakhtiari (Saeidi *et al.* 2010), East Azarbaijan (Khodayari *et al.* 2011).

Habitat in Iran: Almond trees.

## **Genus *Sonotetranychus* Tuttle, Baker & Abbatiello, 1976**

### **1. *Sonotetranychus kermanensis* Khodayari, Kamali & Fathipour, 2008**

Distribution in Iran: Kerman (Khodayari *et al.* 2008a).

Habitat in Iran: Common fig tree.

## **Genus *Stigmaeopsis* Banks, 1917**

### **1. *Stigmaeopsis celarius* Banks 1917**

*Schizotetranychus celarius*.– McGregor, 1950.

*Schizotetranychus latitarsus* Ewing, 1917 (Synonymized by McGregor, 1950).

Distribution in Iran: Tehran (Arbabi *et al.* 2008b).

Habitat in Iran: Ribbon dracaena, chinese willow.

*Remarks:* Host plant of this species need a reidentification because this species is specified to Poaceae.

## **Genus *Tetranychus* Dufour, 1832**

### **1. *Tetranychus cinnabarinus* (Boisdoval, 1867)**

*Acarus cinnabarinus* Boisdoval, 1867 (Original designation).

Distribution in Iran: Tehran (Khalil-Manesh 1972; Sepasgozarian 1972; Baradaran *et al.* 2000, 2007, 2008b; Arbabi *et al.* 2006d), Sistan and Baluchestan (Sarani & Arbabi 2004; Arbabi *et al.* 2012), Kurdistan (Mansour-Ghazi *et al.* 2008), Markazi (Hosseini-Nia & Arbabi 2008; Baradaran *et al.* 2008b), Golestan (Davachi & Taghi-Zadeh 1953, 1954b; Bayat-Asadi & Abaii 1970; Sepasgozarian 1971a, 1972, 1976, 1977; Khalil-Manesh 1972), Mazandran (Bayat-Asadi & Abaii 1970; Khalil-Manesh 1972; Sepasgozarian 1977), Guilan (Bayat-Asadi & Abaii 1970; Khalil-Manesh 1972; Sepasgozarian 1977), Alborz (Baradaran *et al.* 2008b), Isfahan (Baradaran *et al.* 2008b), Razavi Khorasan (Sadeghi 1995).

Habitat in Iran: Rose plant, common sowthistle plant, rough cocklebur, ornamental plants, watermelon plant, strawberry; weeds, fruit trees, hibiscus, rhododendron, marshmallow, mexican orange, bishops children, clove pink, teasel, rubber fig, barberton daisy, canarian ivy, garden balsam, morning glories, common evening primrose, petunias, firethorn, mexican marigold, common verbena, cramp bark, pear, cotton, eggplant, apple, citrus, lady's finger, greengram, pumpkin, cucumber, Sunflower.

### **2. *Tetranychus frater* Wainstein, 1960**

Distribution in Iran: Kurdistan (Mansour-Ghazi *et al.* 2006, 2008).

Habitat in Iran: Strawberry fields.

### **3. *Tetranychus kanzawai* Kishida, 1927**

*Tetranychus (Tetranychus) kanzawai*.– Tseng, 1990.

*Tetranychus hydrangeae* Pritchard & Baker, 1955: *Tetranychus (Tetranychus) hydrangeae*.– Tuttle, Baker & Abbatiello, 1974 (Synonymized by Navajas, Gutierrez & Williams, 2001).

*Tetranychus japonicus* Hotta, 1928 (Synonymized by Wainstein, 1960).

Distribution in Iran: Mazandaran (Faraji 1993), West Azarbaijan (Atamehr *et al.* 2007), Razavi Khorasan (Khoshnevis *et al.* 2011).

Habitat in Iran: Bean plant, *Crosophora* sp., mexican marigold, ornamental plants, apple, prune, marigolds, orchards.

#### **4. *Tetranychus lambi* Pritchard & Baker, 1955**

*Tetranychus (Tetranychus) lambi*.– Tseng, 1990.

*Tetranychus cordylinicolus* Lo, 1969 (Synonymized by Tseng, 1990).

Distribution in Iran: Mazandaran (Khalil-Manesh 1972; Sepasgozarian 1977), Guilan (Khalil-Manesh 1972), Tehran (Khalil-Manesh 1972).

Habitat in Iran: Peach, clover.

#### **5. *Tetranychus ludeni* Zacher, 1913**

*Tetranychus (Epitetanychus) ludeni*.– Zacher, 1921; *Tetranychus ludeni*.– Pritchard & Baker, 1955; *Tetranychus (Tetranychus) ludeni* Oudemans, 1931.

*Tetranychus salviae* Oudemans, 1931 (Synonymized by Pritchard & Baker, 1955).

*Septanychus deviatarsus* McGregor, 1950 (Synonymized by Pritchard & Baker, 1955).

Distribution in Iran: Razavi Khorasan (Khoshnevis *et al.* 2011), Tehran (Ghasemi-Moghadam *et al.* 2012).

Habitat in Iran: Orchards, ornamental plants in parks.

#### **6. *Tetranychus neocaledonicus* (André, 1933)**

*Eotetranychus neocaledonicus* André, 1933 (Original designation); *Tetranychus (Tetranychus) neocaledonicus*.– Tuttle, Baker & Sales, 1977.

*Tetranychus cucurbitae* Rahman & Sapra, 1940 (Synonymized by André, 1959).

*Tetranychus equatorius* McGregor, 1950 (Synonymized by Pritchard & Baker, 1955).

Distribution in Iran: Guilan (Khalil-Manesh 1972; Sepasgozarian 1977; Behdad 1988), Tehran (Khalil-Manesh 1972; Sepasgozarian 1977; Behdad 1988).

Habitat in Iran: Rhododendron.

#### **7. *Tetranychus schoenei* McGregor, 1941**

*Septanychus schoenei*.– McGregor, 1950; *Tetranychus schoenei*.– Pritchard & Baker, 1955; *Tetranychus (Polynychus) schoenei*.– Flechtmann & Hunter, 1971.

Distribution in Iran: South Khorasan (Darmiani *et al.* 2011; Darmiani & Sadeghi 2012).

Habitat in Iran: Fruit trees include almond, grape, apricot, pear and apple.

#### **8. *Tetranychus truncatus* Ehara, 1956**

Distribution in Iran: Razavi Khorasan (Sadeghi-Namaghi 2009, 2010).

Habitat in Iran: Peppermint.

#### **9. *Tetranychus tumidellus* Pritchard & Baker, 1955**

*Tetranychus (Tetranychus) tumidellus*.– Tseng, 1990.

Distribution in Iran: Razavi Khorasan (Sadeghi-Namaghi 2010).

Habitat in Iran: Coastal aster.

#### **10. *Tetranychus turkestanii* (Ugarov & Nikolski, 1937)**

*Eotetranychus turkestanii* Ugarov & Nikolski, 1937 (Original designation); *Tetranychus turkestanii*.– Wainstein, 1959; *Tetranychus (Tetranychus) turkestanii*.– Tuttle, Baker & Abbatiello, 1976.

*Tetranychus atlanticus* McGregor, 1941; *Tetranychus (Tetranychus) atlanticus*.– Tuttle & Baker, 1968 (Synonymized by Wainstein, 1961).

Distribution in Iran: Hamedan (Khanjani & Kamali 1993; Khosrowshahi & Nikkhoo 1994; Nikkhoo & Khosrowshahi 1995; Malmir 1998; Khanjani & Kamali 1998; Khanjani & Eghbalian 2008a; Rostami *et al.* 2010e; Masoudian *et al.* 2012), Mazandaran (Daneshvar 1990; Baradaran *et al.* 2008b; Khodayari *et al.* 2011), Chahar Mahal and Bakhtiari (Noorbakhsh & Kamali 1995), Khuzestan (Kamali 1989; Kamali & Shishehbor 1989; Shishehbor & Kamali 1990; Sadeghi-Namaghi & Kamali 1991,

1993a; Shishehbor 1991; Afshar *et al.* 2000; Nemati *et al.* 2008, 2010a, b; Sohrabi & Shishehbor 2008; Darvishzadeh & Kamali 2009; Karami-Jamour & Shishehbor 2012), Guilan (Daneshvar 1990; Hajizadeh 2006; Khodayari *et al.* 2011), Golestan (Daneshvar 1990, Daneshvar & Abaii 1994; Bayat-Asadi *et al.* 2006; Forghani *et al.* 2011; Khodayari *et al.* 2011), Razavi Khorasan (Sadeghi 1995; Sadeghi-Nameghi 2009, 2010; Sheikholeslam-Zadeh *et al.* 2010; Khodayari *et al.* 2011; Seeman & Beard 2011), Ardabil (Arbabi *et al.* 2006d; Khodayari *et al.* 2011), Isfahan (Dastheib-Beheshti 1980; Fatemi 1981; Jalaeian *et al.* 2004), Kerman (Farid & Daneshvar 1995), East Azarbaijan (Khodayari *et al.* 2007a, b, 2008b, 2009, 2011), West Azarbaijan (Atamehr *et al.* 2007), Tehran (Khalil-Manesh 1972; Sepasgozarian 1977; Daneshvar & Abaii 1994; Mehran 1998; Khodayari *et al.* 2011), Alborz (Kheyri 1989; Khosrowshahi & Nikkhoo 1994), South Khorasan (Darmiani *et al.* 2011), Zanzan (Rahmani *et al.* 2011), North Khorasan (Arbabi 2006b; Khodayari *et al.* 2011), Bushehr (Kamali & Shishehbor 1989), Fars (Kamali & Shishehbor 1989).

Habitat in Iran: Potato plant, cotton plant, crops, apple trees, soil, weeds, fruit orchards, broad leaf tree, bean, castor, eggplant, soybean, sugar beet, cucumber, mung, mesquite trees, manna trees, milkweed, crop fields, fruit trees, range plant, sugarcane fields, common fig, alfalfa, mulberry, tomato, corn, okra, olive, apricot, grapevine, radish, banana, peach, lettuce, pine, jeweled distaff thistle, walnut, water melon, strawberry, clover, dahlia plant, tree of heaven, rose plant, ash tree, elm tree, northern catalpa, liliac, black locust, white mulberry, black mulberry, maple tree; quince, sugar beet, european ash, hollyhock, four O'clock plant, marshmallow, pumpkin, almond, pagoda tree, dog rose, willow, burdock, elderberry, sour cherry.

#### **11. *Tetranychus urticae* Koch, 1836**

*Tetranychus (Tetranychus) urticae*.– Tuttle & Baker, 1968.

*Acarus telarius* Linnaeus, 1758; *Tetranychus telarius*.– Dugès, 1834 (Synonymized by Smith & Baker, 1968).

*Acarus sambuci* Schrank, 1781; *Tetranychus sambuci*.– Koch, 1842; *Epitetranychus sambuci*.– Oudemans, 1931 (Synonymized by Pritchard & Baker, 1955).

*Tetranychus dugesii* Cano & Alcacio, 1886 (Synonymized by Estebanes-Gonzalez & Baker, 1968).

*Acarus textor* Fourcroy, 1785; *Tetranychus textor*.– Oudemans, 1929 (Synonymized by Pritchard & Baker, 1955).

*Tetranychus russeolus* Koch, 1838 (Synonymized by Pritchard & Baker, 1955).

*Tetranychus viburni* Koch, 1838; *Schizotetranychus viburni*.– Oudemans, 1937 (Synonymized by Pritchard & Baker, 1955).

*Tetranychus fervidus* Koch, 1841 (Synonymized by Pritchard & Baker, 1955).

*Acarus cucumeris* Boisduval, 1867; *Tetranychus cucumeris*.– Murray, 1877 (Synonymized by Pritchard & Baker, 1955).

*Acarus rosarum* Boisduval, 1867; *Tetranychus rosarum*.– Murray, 1877 (Synonymized by Pritchard & Baker, 1955).

*Acarus haematodes* Boisduval, 1867; *Tetranychus telarius haematodes*.– Murray, 1877 (Synonymized by Pritchard & Baker, 1955).

*Acarus ferrugineus* Boisduval, 1867; *Tetranychus ferrugineus*.– Murray, 1877 (Synonymized by Pritchard & Baker, 1955).

*Acarus vitis* Boisduval, 1867; *Tetranychus vitis*.– Murray, 1877 (Synonymized by Pritchard & Baker, 1955).

*Distigmatus pilosus* Donnadieu, 1875 (Synonymized by Pritchard & Baker, 1955).

*Tetranychus major* Donnadieu, 1875 (Synonymized by Pritchard & Baker, 1955).  
*Tetranychus piger* Donnadieu, 1875 (Synonymized by Pritchard & Baker, 1955).  
*Tetranychus minor* Donnadieu, 1875 (Synonymized by Pritchard & Baker, 1955).  
*Tetranychus longitarsis* Donnadieu, 1875 (Synonymized by Pritchard & Baker, 1955).  
*Tetranychus plumistoma* Donnadieu, 1875 (Synonymized by Pritchard & Baker, 1955).  
*Tetranychus fici* Murray, 1877 (Synonymized by Pritchard & Baker, 1955).  
*Tetranychus fragariae* Oudemans, 1931 (Synonymized by Pritchard & Baker, 1955).  
*Tetranychus eriostemi* Murray, 1877 (Synonymized by Pritchard & Baker, 1955).  
*Tetranychus inaequalis* Targioni & Tozzetti, 1878 (Synonymized by Pritchard & Baker, 1955).  
*Tetranychus bimaculatus* Harvey, 1892 (Synonymized by Pritchard & Baker, 1955).  
*Tetranychus altheae* Von Hanstein, 1901; *Epitetranychus altheae*.– Zacher, 1916 (Synonymized by Reck, 1950).  
*Tetranychus aratica* Basu, 1963 (Synonymized by Gupta & Gupta, 1994).  
*Epitetranychus hamatus* Zacher, 1916 (Synonymized by Pritchard & Baker, 1955).  
*Epitetranychus aequans* Zacher, 1916 (Synonymized by Pritchard & Baker, 1955).  
*Epitetranychus alceae* Oudemans, 1928 (Synonymized by Pritchard & Baker, 1955).  
*Tetranychus reinwardtiae* Oudemans, 1930; *Epitetranychus reinwardtiae*.– Oudemans, 1931 (Synonymized by Pritchard & Baker, 1955).  
*Epitetranychus caldari* Oudemans, 1931; *Tetranychus (Epitetranychus) caldari*.– Geijskes, 1939 (Synonymized by Pritchard & Baker, 1955).  
*Tetranychus fransseni* Oudemans, 1931 (Synonymized by Pritchard & Baker, 1955).  
*Tetranychus aspidistrae* Oudemans, 1931 (Synonymized by Pritchard & Baker, 1955).  
*Tetranychus choisyae* Oudemans, 1931 (Synonymized by Pritchard & Baker, 1955).  
*Tetranychus stellariae* Oudemans, 1931 (Synonymized by Pritchard & Baker, 1955).  
*Tetranychus violae* Oudemans, 1931 (Synonymized by Pritchard & Baker, 1955).  
*Tetranychus manihotis* Oudemans, 1931 (Synonymized by Pritchard & Baker, 1955).  
*Eotetranychus inexpectatus* André, 1933 (Synonymized by Pritchard & Baker, 1955).  
*Tetranychus dahliae* Oudemans, 1937 (Synonymized by Pritchard & Baker, 1955).  
*Eotetranychus cucurbitacearum* Sayed, 1946; *Tetranychus cucurbitacearum*.– Attiah, 1967 (Synonymized by Pritchard & Baker, 1955).  
*Tetranychus multisetis* McGregor, 1950 (Synonymized by Pritchard & Baker, 1955).  
*Tetranychus arabicus* Attiah, 1967 (Synonymized by Meyer, 1987).  
*Tetranychus aduncus* Flechtmann & Baker, 1967 (Synonymized by Flechtmann & Baker, 1970).  
*Tetranychus reetalius* Basu, 1963 (Synonymized by Gupta & Gupta, 1994).  
*Tetranychus ricinus* Saba, 1973 (Synonymized by Meyer, 1987).  
*Eotetranychus scabrisetus* Ugarov & Nikolskii, 1937 (Synonymized by Pritchard & Baker, 1955).  
*Tetranychus urticae dianthica* Dosse, 1952 (Synonymized by Pritchard & Baker 1955).  
 Distribution in Iran: Mazandaran (Afshar 1936, 1938; Davachi & Taghizadeh 1954; Faraji & Kamali 1993; Faraji 1993; Taghavi *et al.* 1998a; Barimani-Varandi *et al.* 2004; Abbasipour *et al.* 2006; Saei-Dehghan *et al.* 2009; Khodayari *et al.* 2011), Hamedan (Khanjani & Kamali 1993, 1998; Khanjani & Eghbalian 2003, 2008a; Khanjani *et al.* 2003; Malmir 2003; Khanjani 2004; Khanjani & Mirab-Balou 2005a, b, c, 2006; Khanjani & Haddad Irani-Nejad 2006; Rostami *et al.* 2010e), Sistan and Baluchestan (Arbabi *et al.* 2002; Khanjani 2004; Masoudian *et al.* 2012), West Azarbaijan (Afshar 1936, 1938; Davachi & Taghizadeh 1954; Kheyri 1989; Akbarzadeh-Shoukat & Arbabi

2000; Hajiqanbar *et al.* 2002; Mosavi *et al.* 2004; Haddad Irani-Nejad *et al.* 2005; Baradaran *et al.* 2006; Khanjani 2006; Atamehr *et al.* 2007), Semnan (Dezianian & Nadali 2000), Chahar Mahal and Bakhtiari (Saeidi & Nourbakhsh 2002; Saeidi & Salehi 2004; Saeidi & Nemati 2012), Guilan (Hajizadeh 2006a, b; Ramroodi *et al.* 2006; Noei *et al.* 2008; Nejadqanbar *et al.* 2010; Khodayari *et al.* 2011), Kermanshah (Afshar 1936, 1938; Davachi & Taghizadeh 1954; Khanjani & Haddad Irani-Nejad 2006; Darb-Emamieh *et al.* 2008a; Babakfard *et al.* 2008), Kordistan (Mansour-Ghazi *et al.* 2008; Khanjani & Haddad Irani-Nejad 2006), Khuzestan (Parsi 1976; Shishehbor & Kamali 1990a; Mirkarimi 1999; Nemati *et al.* 2010), Markazi (Afshar 1936, 1938; Davachi & Taghizadeh 1954; Hosseini-Nia & Arbabi 2008; Baradaran *et al.* 2008b; Modarres & Vafai 2010; Modarres & Heidari 2010), Loristan (Azadbakht 2003; Moridi *et al.* 2003; Jafari & Akbarzadeh 2003; Mohiseni *et al.* 2006; Mohiseni & Ghaed-Rahmati 2010; Hojjati *et al.* 2010; Abolfathi *et al.* 2010; Jafari, sh. *et al.* 2010, 2011a, b, 2012), Tehran (Afshar 1936, 1938; Davachi & Taghizadeh 1954c; Farahbakhsh 1961; Sepasgozarian 1972, 1976; Esmaeili & Oloumi-Sadeghi 1980; Behdad 1988, 1989; Zomorodi 1991; Arbabi & Baradaran 2000; Baradaran *et al.* 2004, 2006, 2007, 2008b; Ahmadi *et al.* 2005; Mohammadi & Yarmand 2005; Arbabi *et al.* 2006d, 2008a, 2009; Mehrkhou & Fathipour 2006; Kianpour *et al.* 2006; Khanjani & Haddad Irani-Nejad 2006; Sedartian *et al.* 2008; Ardeshir 2010; Khodayari *et al.* 2011; Ghasemi-Moghadam *et al.*, 2012), Golestan (Sepasgozarian 1971a, 1972, 1976; Khalil-Manesh 1972; Sepasgozarian & Schruft 1975; Parsi 1976; Faraji 1993; Mehran 1998; Ahmadi *et al.* 2004; Forghani *et al.* 2006; Arbabi *et al.* 2006d; Khanjani 2006; Ardeshir 2010; Forghani *et al.* 2011; Khodayari *et al.* 2011), East Azarbaijan (Afshar 1936, 1938; Davachi & Taghizadeh 1954; Shirdel *et al.* 2000; Khodayari *et al.* 2007b, 2011; Lotfollahi *et al.* 2010), Alborz (Behdad 1988; Kheyri 1989; Arbabi & Baradaran 2000; Jamali *et al.* 2001; Babmorad & Sadeghi 2004; Khanjani & Haddad Irani-Nejad 2006; Kianpour *et al.* 2006; Arbabi *et al.* 2006c; Baradaran *et al.* 2008b), Razavi Khorasan (Afshar 1936, 1938; Davachi & Taghizadeh 1954; Jafarpour *et al.* 1985; Shahrokhi 1988; Sadeghi 1995; Sirjani & Arbabi 2004; Sadeghi-Namaghi 2009, 2010; Sheikholeslam-Zadeh *et al.* 2010; Shakhsi-Zare 2008a; Khodayari *et al.* 2011), North Khorasan (Jafarpour *et al.* 1985; Shahrokhi 1988; Sadeghi-Namaghi 2010; Khodayari *et al.* 2011), Isfahan (Parsi 1976; Dastgheib-Beheshti 1980; Behdad 1988, 2002 *Sensu Davachi*, 1949; Baradaran *et al.* 2008b; Arbabi *et al.* 2009; Bagheri & Nasr-Isfahani 2011), South Khorasan (Darmiani *et al.* 2011), Zanzan (Rahmani *et al.* 2011), Kerman (Izadi *et al.* 2010a), Ardabil (Razmjou *et al.* 2009a, b; Khodayari *et al.* 2011), Fars (Afshar 1936, 1938; Davachi & Taghizadeh 1954; Parsi 1976; Khanjani 2004), Hormozgan (Arbabi *et al.* 2002).

Habitat in Iran: Citrus orchards, tea plant, field crops, sugar beet, apple trees, egg plant fields, potato fields, broad leaf trees, poplar trees, cotton plant, pepper, corn plant, cucumber plant, strawberry fields, soybean plant, tomato plant, stored rice, nests of house sparrow and crested lark, weed, soil, mulberry, clover, alfalfa, bitter vetch, liquorice, pagoda tree, russian knapweed, camelthorn, kiwi, crop fields, fruit trees, range plant, european black pine trees, pinto bean, chitty bean plant, colorado bean plant, navy bean plant, kidney bean plant, black eye bean plant, common mallow, marsh mallow, black nightshade, bean plants, leaves and young branches of broad leaf trees, maple tree, oak trees, alder trees, japanese camellia tree, common hornbeam trees, northern catalpa trees, bladder senna, red berried cotoneaster, european ash trees, wild jasmine shrub, walnut trees, sweet bay, persian ironwood tree, chinese photinia trees, pistachio trees, plane tree, fales acacia tree, dog rose shrub, linden tree, elm tree, ash tree, black

locust, eastern cottonwood, tree of heaven, marshmallow, blood amaranth, paper flower, summer lilac, mexican orange, umbrella papyrus, clove pink, teasel, noche buena, rubber fig, freesias, canarian ivy, sunflower, holly, garden balsam, morning glories, banana, common evening primrose, petunias, firethorn, mexican marigolds, common verbena, cramp bark, lamb's quarters, slender amaranth, johnsongrass, field mustard, shepherd's-purse, hairy fleabane, sharp-fringed sow thistle, willow leaf lettuce, london rocket, common knotgrass, field bindweed, rough cocklebur, heliotrope, african mustard, pomegranate, palm, citrus, weeds in pome fruit orchards, european black nightshade, pennyroyal, dewberry, gourd, fennel, common lavender, rosemary, lemon balm, garden sage, common fig, peppermint, tobacco, sugar beet, melon, castor bean, kenaf, sesame, lavender, canola, garlic, raspberry, plum, elderberry, grape, cowpea, alfalfa, common lambsquarter, creeping thistle, prickly lettuce, common mallow, spiny cocklebur.

### **Genus *Tetranychopsis* Canestrini, 1889**

#### **1. *Tetranychopsis horridus* (Canestrini & Fanzago, 1876)**

*Tetranychus horridus* Canestrini & Fanzago, 1876 (Original designation); *Neophyllobius horridus*.– Berlese, 1886; *Tetranychopsis horrida*.– Canestrini, 1889; *Tetranychopsis horrida*.– Berlese, 1894; *Tetranychopsis horridus*.– Geijskes, 1939. *Tetranychopsis hostilis* Reck, 1956 (Synonymized by Wainstein, 1960).  
Distribution in Iran: Ardabil (Rahmani *et al.* 2008a; Pahlavan-Yali *et al.* 2012).  
Habitat in Iran: Common hazel, egyptian willow.

*Remarks 1:* Majidi & Akrami (2012) reported the genus, *Schizonobiella* Beer & Lang, 1957 from the leaves of date trees in Fars province. In addition, three unidentified species of *Bryobiella* Tuttle & Baker, 1968, *Paraplombia* Wainstein, 1960 and *Pseudobryobia* McGregor, 1950 are also reported by Khanjani & Kamali (1998) from the pagoda tree, alfalfa fields, fruit trees and range plants. Furthermore an unidentified species of *Neotetranychus* Trägårdh was reported from Iran by Sepasgozarian (1971).

*Remarks 2:* The two species listed hereunder are considered as nomen nudum species.

#### **1. *Eotetranychus evivi***

Distribution in Iran: Fars (Khalil-Manesh 1972; Behdad 1984), Tehran (Khalil-Manesh 1972; Behdad 1984), Alborz (Khalil-Manesh 1972; Behdad 1984).  
Habitat in Iran: Apple trees.

#### **2. *Tetranychus asia***

Distribution in Iran: Caspian sea area (Abaii 2000).  
Habitat in Iran: Common camellia, Leaves and young branches of japanese camellia tree.

### **Family Tuckerellidae Baker & Pritchard, 1953**

#### **Genus *Tuckerella* Womersley, 1940**

##### **1. *Tuckerella flabellifera* Miller, 1964**

Distribution in Iran: Mazandaran (Taghavi *et al.* 1998a; Abbasipour *et al.* 2006).  
Habitat in Iran: Tea plant.

##### **2. *Tuckerella hypoterra* McDaniel & Morihara, 1975**

Distribution in Iran: Guilan (Nejadqanbar *et al.* 2010).

Habitat in Iran: Tea plant; Soil sample.

### 3. *Tuckerella japonica* Ehara, 1975

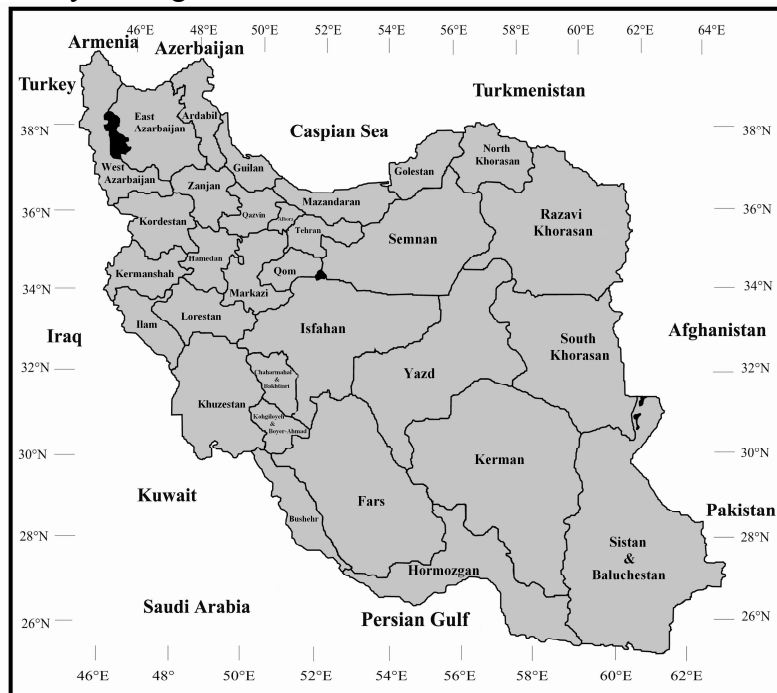
Distribution in Iran: Mazandaran (Barimani-Varandi & Kamali 1998a).

Habitat in Iran: Conifer trees.

*Remarks:* The first report of tuckerellid mites is that of Kamali (1989) by mentioning *Tuckerella* sp. near. *knorri* Baker & Tuttle, 1975 from cypress trees in Khuzestan.

## Discussion

Along with our study, Khanjani *et al.* (2013) also prepared a checklist on Iranian flat mite of family Tenuipalpidae. Because of ignoring a wide range of the publications we included this family here again.



**Figure 1.** Map of Iran with the provinces according to latest divisions.

**Table 1.** Number of genera and species of raphignathoid and tetranychoid mites recorded from Iran.

| Family          | Number of genera | Number of species |
|-----------------|------------------|-------------------|
| Barbutiidae     | 1                | 2                 |
| Caligonellidae  | 5                | 18                |
| Camerobiidae    | 2                | 14                |
| Cryptognathidae | 1                | 2                 |
| Eupalopsellidae | 1                | 5                 |
| Raphignathidae  | 1                | 17                |
| Stigmaeidae     | 11               | 69                |
| Linotetranaidae | 1                | 5                 |
| Tenuipalpidae   | 13               | 65                |
| Tetranychidae   | 19               | 66                |
| Tuckerellidae   | 1                | 3                 |
| SUM             | 56               | 266               |

**Table 2.** Information of host plants.

| Common name       | Specific name                 | Family          |
|-------------------|-------------------------------|-----------------|
| African mustard   | <i>Malcolmia africana</i>     | Brassicaceae    |
| Alder             | <i>Alnus</i> sp.              | Betulaceae      |
| Alfalfa           | <i>Medicago sativa</i>        | Fabaceae        |
| Aluminium plant   | <i>Pilea cadierei</i>         | Urticaceae      |
| Almond            | <i>Prunus amygdalus</i>       | Rosaceae        |
| Apple             | <i>Malus domestica</i>        | Rosaceae        |
| Apricot           | <i>Prunus armeniaca</i>       | Rosaceae        |
| Azarole           | <i>Crataegus azarolus</i>     | Rosaceae        |
| Arizona cypress   | <i>Cupressus arizonica</i>    | Cupressaceae    |
| Ash               | <i>Fraxinus excelsior</i>     | Oleaceae        |
| Astragal          | <i>Astragalus</i> sp.         | Fabaceae        |
| Baby's-breath     | <i>Gypsophila paniculata</i>  | Caryophyllaceae |
| Banana            | <i>Musa</i> sp.               | Musaceae        |
| Barberson daisy   | <i>Gerbera jamesonii</i>      | Asteraceae      |
| Bay willow        | <i>Salix pentandra</i>        | Salicaceae      |
| Bead tree         | <i>Melia azedarach</i>        | Meliaceae       |
| Bellbind          | <i>Calystegia sepium</i>      | Convolvulaceae  |
| Bermuda grass     | <i>Cynodon dactylon</i>       | Poaceae         |
| Bishops children  | <i>Dahlia</i> sp.             | Asteraceae      |
| Bitter vetch      | <i>Vicia ervilia</i>          | Fabaceae        |
| Black bindweed    | <i>Polygonum convolvulus</i>  | Polygonaceae    |
| Black cherry      | <i>Prunus cerasus</i>         | Fabaceae        |
| Black eye bean    | <i>Vigna unguiculata</i>      | Fabaceae        |
| Black locust      | <i>Robinia pseudoacacia</i>   | Fabaceae        |
| Black mulberry    | <i>Morus nigra</i>            | Moraceae        |
| Black nightshade  | <i>Solanum nigrum</i>         | Solanaceae      |
| Blackthorn        | <i>Prunus spinosa</i>         | Rosaceae        |
| Bladder senna     | <i>Colutea arborescens</i>    | Fabaceae        |
| Blood amaranth    | <i>Amaranthus cruentus</i>    | Amaranthaceae   |
| Brome chess       | <i>Bromus danthoniae</i>      | Poaceae         |
| Bulbous bluegrass | <i>Poa bulbosa</i>            | Poaceae         |
| Burdock           | <i>Arctium lappa</i>          | Asteraceae      |
| Button mushroom   | <i>Agaricus bisporus</i>      | Agaricaceae     |
| Camelthorn        | <i>Alhagi maurorum</i>        | Fabaceae        |
| Camelthorn        | <i>Alhagi camelorum</i>       | Fabaceae        |
| Canarian Ivy      | <i>Hedera canariensis</i>     | Araliaceae      |
| Canola            | <i>Brassica</i> sp.           | Brassicaceae    |
| Castor bean       | <i>Ricinus communis</i>       | Euphorbiaceae   |
| Centaury          | <i>Centaurea</i> sp.          | Asteraceae      |
| Chickpea          | <i>Cicer arietinum</i>        | Fabaceae        |
| Chinese date      | <i>Ziziphus jujuba</i>        | Rhamnaceae      |
| Chinese photinia  | <i>Photinia serratifolia</i>  | Rosaceae        |
| Chinese willow    | <i>Salix matsudana</i>        | Salicaceae      |
| Christ's thorn    | <i>Paliurus spina-christi</i> | Rhamnaceae      |
| Clove pink        | <i>Dianthus caryophyllus</i>  | Caryophyllaceae |
| Clover            | <i>Trifolium</i> sp.          | Fabaceae        |

**Table 2.** Continued.

| Common name               | Specific name               | Family         |
|---------------------------|-----------------------------|----------------|
| Coastal aster             | <i>Aster</i> sp.            | Asteraceae     |
| Common bean               | <i>Phaseolus vulgaris</i>   | Fabaceae       |
| Common box                | <i>Buxus sempervirens</i>   | Buxaceae       |
| Common evening primrose   | <i>Oenothera biennis</i>    | Onagraceae     |
| Common hawthorn           | <i>Crataegus monogyna</i>   | Rosaceae       |
| Common hazel              | <i>Corylus avellana</i>     | Corylaceae     |
| Common hornbeam           | <i>Carpinus betulus</i>     | Betulaceae     |
| Common juniper            | <i>Juniperus communis</i>   | Cupressaceae   |
| Common knotgrass          | <i>Polygonum aviculare</i>  | Polygonaceae   |
| Common lambsquarter       | <i>Chenopodium album</i>    | Amaranthaceae  |
| Common mallow             | <i>Malva neglecta</i>       | Malvaceae      |
| Common purslane           | <i>Portulaca oleracea</i>   | Portulacaceae  |
| Common rhododendron       | <i>Rhododendron</i> sp.     | Ericaceae      |
| Common sowthistle         | <i>Sonchus oleraceus</i>    | Asteraceae     |
| Common verbena            | <i>Verbena officinalis</i>  | Verbenaceae    |
| Common windgrass          | <i>Apera spica-venti</i>    | Poaceae        |
| Corn                      | <i>Zea mays</i>             | Poaceae        |
| Cotton                    | <i>Gossypium hirsutum</i>   | Malvaceae      |
| Cowpea                    | <i>Vigna unguiculata</i>    | Fabaceae       |
| Cramp bark                | <i>Viburnum</i> sp.         | Adoxaceae      |
| Creeping thistle          | <i>Cirsium arvense</i>      | Asteraceae     |
| Cucumber                  | <i>Cucumis sativus</i>      | Cucurbitaceae  |
| Cyclamen                  | <i>Cyclamen persicum</i>    | Myrsinaceae    |
| Cypress trees             | <i>Cupressus</i> sp.        | Cupressaceae   |
| Dahlia plant              | <i>Dahlia</i> sp.           | Compositae     |
| Date                      | <i>Phoenix dactylifera</i>  | Arecaceae      |
| Dewberry                  | <i>Rubus caesius</i>        | Rosaceae       |
| Dog rose                  | <i>Rosa canina</i>          | Rosaceae       |
| Drooping brome            | <i>Bromus tectorum</i>      | Poaceae        |
| Eastern cottonwood        | <i>Populus deltoides</i>    | Salicaceae     |
| Eggplant                  | <i>Solanum melongena</i>    | Solanaceae     |
| Egyptian willow           | <i>Salix avellana</i>       | Salicaceae     |
| Elderberry                | <i>Sambucus nigra</i>       | Adoxaceae      |
| Elm tree                  | <i>Ulmus</i> sp.            | Ulmaceae       |
| European ash              | <i>Fraxinus excelsior</i>   | Oleaceae       |
| European black nightshade | <i>Solanum nigrum</i>       | Solanaceae     |
| European black pine       | <i>Pinus nigra</i>          | Pinaceae       |
| European pear             | <i>Pyrus communis</i>       | Rosaceae       |
| False acacia              | <i>Robinia pseudoacacia</i> | Fabaceae       |
| Fennel                    | <i>Foeniculum vulgare</i>   | Apiaceae       |
| Field bindweed            | <i>Convolvulus arvensis</i> | Convolvulaceae |
| Field mustard             | <i>Sinapis arvensis</i>     | Brassicaceae   |
| Fig tree                  | <i>ficus carica</i>         | Moraceae       |
| Firethorn                 | <i>Pyracantha</i> sp.       | Rosaceae       |

**Table 2.** Continued.

| Common name             | Specific name                   | Family         |
|-------------------------|---------------------------------|----------------|
| Flowering quince        | <i>Chaenomeles</i> sp.          | Rosaceae       |
| Four O'clock plant      | <i>Mirabilis jalapa</i>         | Nyctaginaceae  |
| Freesias                | <i>Freesia</i> sp.              | Iridaceae      |
| French tamarisk         | <i>Tamarix gallica</i>          | Tamaricaceae   |
| Fumitory                | <i>Fumaria</i> sp.              | Papaveraceae   |
| Garden balsam           | <i>Impatiens balsamina</i>      | Balsaminaceae  |
| Garden sage             | <i>Salvia officinalis</i>       | Lamiaceae      |
| Garlic                  | <i>Allium sativum</i>           | Amaryllidaceae |
| Geranium                | <i>Pelargonium zonale</i>       | Geraniaceae    |
| Goosefoot               | <i>Chenopodium</i> sp.          | Amaranthaceae  |
| Gourd                   | <i>Cucurbita</i> sp.            | Cucurbitaceae  |
| Grape                   | <i>Vitis vinifera</i>           | Vitaceae       |
| Greengram               | <i>Vigna radiata</i>            | Fabaceae       |
| Guava                   | <i>Psidium</i> sp.              | Myrtaceae      |
| Gum bushes              | <i>Astragalus gossypinus</i>    | Fabaceae       |
| Hairy fleabane          | <i>Conyza bonariensis</i>       | Asteraceae     |
| Hawthorn                | <i>Crataegus azarolus</i>       | Rosaceae       |
| Heaven tree             | <i>Ailanthus altissima</i>      | Simaroubaceae  |
| Heliotrope              | <i>Heliotropium lasiocarpum</i> | Boraginaceae   |
| Hibiscus                | <i>Hibiscus</i> sp.             | Malvaceae      |
| Hoary cress             | <i>Lepidium draba</i>           | Brassicaceae   |
| Holly                   | <i>Ilex aquifolium</i>          | Aquifoliaceae  |
| Hollyhock               | <i>Alcea</i> sp.                | Malvaceae      |
| Ivy plant               | <i>Hedera</i> sp.               | Araliaceae     |
| Japanese camellia       | <i>Camellia japonica</i>        | Theaceae       |
| Japanese medlar         | <i>Eriobotrya japonica</i>      | Rosaceae       |
| Japanese quince         | <i>Chaenomeles japonica</i>     | Rosaceae       |
| Japanese spindle        | <i>Euonymus japonicus</i>       | Celastraceae   |
| Jeweled distaff thistle | <i>Carthamus oxyacanthus</i>    | Asteraceae     |
| Johnsongrass            | <i>Sorghum halepense</i>        | Poaceae        |
| Joint-pine              | <i>Ephedra procera</i>          | Ephedraceae    |
| Jujube                  | <i>Ziziphus jujuba</i>          | Rhamnaceae     |
| Kaki persimmon          | <i>Diospyros kaki</i>           | Ebenaceae      |
| Kanaf                   | <i>Hibiscus cannabinus</i>      | Malvaceae      |
| Kidney bean             | <i>Phaseolus vulgaris</i>       | Fabaceae       |
| Kiwi fruit              | <i>Actinidia deliciosa</i>      | Actinidiaceae  |
| Lady's finger           | <i>Abelmoschus esculentus</i>   | Malvaceae      |
| Lamb's quarters         | <i>Chenopodium album</i>        | Amaranthaceae  |
| Lavander                | <i>Lavandula angustifolia</i>   | Lamiaceae      |
| Lebbek                  | <i>Albizia lebeck</i>           | Fabaceae       |
| Lemon balm              | <i>Melissa officinalis</i>      | Lamiaceae      |
| Lentil                  | <i>Lens culinaris</i>           | Fabaceae       |
| Lilic                   | <i>Syringa vulgaris</i>         | Oleaceae       |
| Lime tree               | <i>Tilia</i> sp.                | Malvaceae      |

**Table 2.** Continued.

| Common name           | Specific name                 | Family         |
|-----------------------|-------------------------------|----------------|
| Linden                | <i>Tilia</i> sp.              | Malvaceae      |
| Liquorice             | <i>Glycyrrhiza glabra</i>     | Fabaceae       |
| Locoweed              | <i>Astragalus</i> sp.         | Fabaceae       |
| Locust tree           | <i>Robinia</i> sp.            | Fabaceae       |
| London rocket         | <i>Sisymbrium irio</i>        | Brassicaceae   |
| Mango                 | <i>Mangifera indica</i>       | Anacardiaceae  |
| Manna trees           | <i>Tamarix</i> sp.            | Tamaricaceae   |
| Maple tree            | <i>Acer</i> sp.               | Sapindaceae    |
| Marshmallow           | <i>Althaea officinalis</i>    | Malvaceae      |
| Mediterranean cypress | <i>Cupressus sempervirens</i> | Cupressaceae   |
| Mexican marigold      | <i>Tagetes erecta</i>         | Asteraceae     |
| Mexican orange        | <i>Choisya ternata</i>        | Rutaceae       |
| Mesquite trees        | <i>Prosopis</i> sp.           | Fabaceae       |
| Milkweed              | <i>Calotropis</i> sp.         | Rutaceae       |
| Mint                  | <i>Mentha</i> sp.             | Lamiaceae      |
| Mirabelle plum        | <i>Prunus domestica</i>       | Rosaceae       |
| Mistletoe             | <i>Viscum</i> sp.             | Santalaceae    |
| Morning glories       | <i>Ipomoea</i> sp.            | Convolvulaceae |
| Mt. Atlas mastic tree | <i>Pistacia atlantica</i>     | Anacardiaceae  |
| Mulberry              | <i>Morus</i> sp.              | Moraceae       |
| Mung                  | <i>Vigna radiata</i>          | Fabaceae       |
| Musquite trees        | <i>Prosopis</i> sp.           | Fabaceae       |
| Nabk tree             | <i>Cedrus</i> sp.             | Pinaceae       |
| Navy bean             | <i>Phaseolus vulgaris</i>     | Fabaceae       |
| Neem trees            | <i>Azadirachta indica</i>     | Meliaceae      |
| Noche buena           | <i>Euphorbia pulcherrima</i>  | Euphorbiaceae  |
| Northern catalpa      | <i>Catalpa speciosa</i>       | Bignoniaceae   |
| Norway spruce         | <i>Picea abies</i>            | Pinaceae       |
| Oak                   | <i>Quercus</i> sp.            | Fagaceae       |
| Okra                  | <i>Abelmoschus esculentus</i> | Malvaceae      |
| Oleander              | <i>Nerium oleander</i>        | Apocynaceae    |
| Olive                 | <i>Olea europaea</i>          | Oleaceae       |
| Orange tree           | <i>Citrus sinensis</i>        | Rutaceae       |
| Oriental arborvitae   | <i>Thuja</i> sp.              | Cupressaceae   |
| Oriental beech        | <i>Fagus orientalis</i>       | Fagaceae       |
| Pacific red redcedar  | <i>Thuja plicata</i>          | Cupressaceae   |
| Pagoda tree           | <i>Sophora alopecuroides</i>  | Fabaceae       |
| Papaya                | <i>Carica papaya</i>          | Caricaceae     |
| Paper flower          | <i>Bougainvillea glabra</i>   | Nyctaginaceae  |
| Peach                 | <i>Prunus persica</i>         | Rosaceae       |
| Pear                  | <i>Pyrus communis</i>         | Rosaceae       |
| Pennyroyal            | <i>Mentha pulegium</i>        | Lamiaceae      |
| Peppermint            | <i>Mentha piperita</i>        | Lamiaceae      |
| Pepper weed           | <i>Lepidium latifolium</i>    | Brassicaceae   |

**Table 2.** Continued.

| Common name               | Specific name                  | Family         |
|---------------------------|--------------------------------|----------------|
| Persian ironwood trees    | <i>Parrotia persica</i>        | Hamamelidaceae |
| Persian juniper           | <i>Juniperus polycarpus</i>    | Cupressaceae   |
| Persian silk tree         | <i>Albizia julibrissin</i>     | Fabaceae       |
| Petunias                  | <i>Petunia hybrida</i>         | Solanaceae     |
| Pine trees                | <i>Pinus</i> sp.               | Pinaceae       |
| Pinto bean                | <i>Phaseolus vulgaris</i>      | Fabaceae       |
| Pistachio                 | <i>Pistacia vera</i>           | Anacardiaceae  |
| Plane tree                | <i>Platanus orientalis</i>     | Platanaceae    |
| Plum tree                 | <i>Prunus</i> sp.              | Rosaceae       |
| Poplar tree               | <i>Populus alba</i>            | Salicaceae     |
| Potato                    | <i>Solanum tuberosum</i>       | Solanaceae     |
| Prickly lettuce           | <i>Lactuca serriola</i>        | Asteraceae     |
| Primrose                  | <i>Primula</i> sp.             | Primulaceae    |
| Privet                    | <i>Ligustrum</i> sp.           | Oleaceae       |
| Pomegranate               | <i>Punica granatum</i>         | Lythraceae     |
| Prostrata juniper         | <i>Juniperus horizontalis</i>  | Cupressaceae   |
| Pumpkin                   | <i>Cucurbita</i> sp.           | Cucurbitaceae  |
| Pussy willow              | <i>Salix aegyptiaca</i>        | Salicaceae     |
| Quince tree               | <i>Cydonia oblonga</i>         | Rosaceae       |
| Radish                    | <i>Raphanus sativus</i>        | Brassicaceae   |
| Red berried cotoneaster   | <i>Cotoneaster cornubia</i>    | Rosaceae       |
| Red raspberry             | <i>Rubus idaeus</i>            | Rosaceae       |
| Ribbon dracaena           | <i>Dracaena sandariana</i>     | Asparagaceae   |
| Rice                      | <i>Oryza</i> sp.               | Poaceae        |
| Ribwort plantain          | <i>Plantago lanceolata</i>     | Plantaginaceae |
| Rosemary                  | <i>Rosmarinus officinalis</i>  | Lamiaceae      |
| Rough cocklebur           | <i>Xanthium strumarium</i>     | Asteraceae     |
| Rubber fig                | <i>Ficus elastica</i>          | Moraceae       |
| Russian knapweed          | <i>Acroptilon repens</i>       | Asteraceae     |
| Saffron                   | <i>Crocus sativus</i>          | Iridaceae      |
| Sainfoins                 | <i>Onobrychis cornuta</i>      | Fabaceae       |
| Scented geraniums         | <i>Pelargonium zonale</i>      | Geraniaceae    |
| Sesame                    | <i>Sesamum indicum</i>         | Pedaliaceae    |
| Sharp-fringed sow thistle | <i>Sonchus asper</i>           | Asteraceae     |
| Shepherd's-purse          | <i>Capsella bursa-pastoris</i> | Brassicaceae   |
| Silver poplar             | <i>Populus alba</i>            | Salicaceae     |
| Slender amaranth          | <i>Amaranthus viridis</i>      | Amaranthaceae  |
| Slender meadow foxtail    | <i>Alopecurus myosuroides</i>  | Poaceae        |
| Sophore                   | <i>Sophora pachycarpa</i>      | Fabaceae       |
| Sorrel plant              | <i>Rumex</i> sp.               | Polygonaceae   |
| Sour cherry               | <i>Prunus cerasus</i>          | Rosaceae       |
| Soybean                   | <i>Glycine max</i>             | Fabaceae       |
| Spindle                   | <i>Euonymus</i> sp.            | Celastraceae   |
| Spiny cocklebur           | <i>Xanthium spinosum</i>       | Asteraceae     |

**Table 2.** Continued.

| Common name          | Specific name                | Family           |
|----------------------|------------------------------|------------------|
| Spiny hawthorn trees | <i>Crataegus aronia</i>      | Rosaceae         |
| Spruce trees         | <i>Picea</i> sp.             | Pinaceae         |
| Squash               | <i>Cucurbita</i> sp.         | Cucurbitaceae    |
| Stone pine           | <i>Pinus pinea</i>           | Pinaceae         |
| Strawberry           | <i>Rubus idaeus</i>          | Rosaceae         |
| Sugar beet           | <i>Beta vulgaris</i>         | Amaranthaceae    |
| Sugarcane            | <i>Saccharum officinarum</i> | Poaceae          |
| Summer lilac         | <i>Buddleja davidii</i>      | Scrophulariaceae |
| Sunflower            | <i>Helianthus annuus</i>     | Asteraceae       |
| Sweet bay            | <i>Laurus nobilis</i>        | Lauraceae        |
| Sweet cherry         | <i>Prunus avium</i>          | Rosaceae         |
| Sweet lemon trees    | <i>Citrus limetta</i>        | Rutaceae         |
| Tamarisk             | <i>Tamarix</i> sp.           | Tamaricaceae     |
| Tea                  | <i>Camellia sinensis</i>     | Theaceae         |
| Teasel               | <i>Dipsacus</i> sp.          | Dipsacaceae      |
| Thuja tree           | <i>Thuja orientalis</i>      | Cupressaceae     |
| Tobacco              | <i>Nicotinia</i> sp.         | Solanaceae       |
| Tomato               | <i>Solanum lycopersicum</i>  | Solanaceae       |
| Tragacanth           | <i>Astragalus</i> sp.        | Fabaceae         |
| Tree of heaven       | <i>Ailanthus altissima</i>   | Simaroubaceae    |
| Turkish fir tree     | <i>Abies bornmuelleriana</i> | Pinaceae         |
| Umbrella papyrus     | <i>Cyperus alternifolius</i> | Cyperaceae       |
| Walnut               | <i>Juglans regia</i>         | Juglandaceae     |
| Watermelon           | <i>Citrullus lanatus</i>     | Cucurbitaceae    |
| Western redcedar     | <i>Thuja plicata</i>         | Cupressaceae     |
| White mulberry       | <i>Morus alba</i>            | Moraceae         |
| White willow         | <i>Salix alba</i>            | Salicaceae       |
| Wild almond          | <i>Amygdalus scoparia</i>    | Rosaceae         |
| Wild cherry          | <i>Prunus avium</i>          | Rosaceae         |
| Wild jasmine         | <i>Jasminum fruticans</i>    | Oleaceae         |
| Wild privet          | <i>Ligustrum vulgare</i>     | Oleaceae         |
| Wild rye             | <i>Leymus</i> sp.            | Poaceae          |
| Willow               | <i>Salix</i> sp.             | Salicaceae       |
| Willow leaf lettuce  | <i>Lactuca</i> sp.           | Asteraceae       |
| Wintercreeper        | <i>Euonymus fortunei</i>     | Celastraceae     |
| Woods' rose          | <i>Rosa woodsii</i>          | Rosaceae         |
| Wormwood             | <i>Artemisia scoparia</i>    | Asteraceae       |
| Yarrow               | <i>Achillea millefolium</i>  | Asteraceae       |

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کاتالوگ کنه‌های پیش‌استیگمای بالاخانواده‌های **Raphignathoidea** و **Tetranychoida (Acari)** ایران

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چکیده

کاتالوگ تهیه شده مشتمل بر ۵۶ جنس و ۲۶۶ گونه از کنه‌های گزارش شده از ایران، متعلق به دو بالاخانواده **Raphignathoidea** و **Tetranychoida** تا پایان ماه ژانویه سال ۲۰۱۳ میلادی است که اطلاعاتی را در مورد پراکندگی گونه‌ها و زیستگاه‌های آنها که در منابع نگاشته شده بود، در بر می‌گیرد. در پاره‌ای از موارد نیز توضیحاتی در رابطه با گزارش‌های نادرست و همچنین گونه‌های بی‌هویت ارائه شده است.

واژگان کلیدی: فهرست، کنه، زیستگاه، پراکندگی، ایران.

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