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## **An annotated catalog of the Iranian Pentatomoidea (Hemiptera: Heteroptera: Pentatomomorpha)**

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## Abstract

Seven families of Pentatomoidea including Acanthosomatidae, Dinidoridae, Pentatomidae, Plataspididae, Scutelleridae, Thaumastellidae, and Thyreocoridae are discussed in this catalog. The Iranian fauna of Pentatomoidea (excl. Cydnidae) is represented by 99 genera and 271 species and subspecies. *Elasmotherus interstinctus* (Linnaeus, 1758) (Acanthosomatidae) and *Derula flavoguttata* Mulsant & Rey, 1856 (Pentatomidae) are new records for Iran.

**Key words:** Hemiptera, Heteroptera, Pentatomomorpha, Pentatomoidea, catalog, Iran

## Introduction

The Pentatomomorpha comprise more than 14,000 species in 5 or 6 superfamilies (the Aradoidea, Coreoidea, Idiostoloidea, Lygaeoidea, Pentatomoidea, and Pyrrhocoroidea) and 40 families (Schuh & Slater 1995; Grazia *et al.* 2008; Weirauch & Schuh 2011). The Pentatomoidea is one of the most species-rich groups of terrestrial Heteroptera with 15 families, nearly 1250 genera and approximately 7200 species (Henry 2009) worldwide.

The size varies from 2 mm to more than 30 mm. The ground color is very variable ranging from unicolorous (brown to green) in species living on the ground or vegetation, respectively to bright colored (and often aposematic) species living on vegetation. Often the integument is matte (not shiny) but it also can be metallic shining (Scutelleridae) in some species. The pilosity varies according the group. The head is directed forwards, rarely somewhat downwards (Cydnidae and some species in the other families).

Antennae are usually 5-segmented (hence, the 'penta' in the name of the superfamily) but it may only be 4-segmented in some Dinidoridae and a few Pentatomidae, and in some exotic Pentatomidae and Scutelleridae it may even be 3-segmented. The rostrum is 4-segmented and slender in plant feeding groups but in Asopinae (predators) the rostrum, especially the first segment, is remarkably stout.

The pronotum is usually trapezoid with the lateral margins variously formed (dentate, blade shape, reflexed or bent). Always visible, the scutellum is usually triangular but sometimes it is enlarged and covers a great part (Thyreocoridae, Pentatomidae: Podopinae) or entirely (Plataspididae, Scutelleridae, and the neotropical families Canopidae and Megarididae) the hemelytra. The ostioles (i.e. external openings) of the metathoracic scent glands are situated more or less laterally arising between the middle and hind legs; they are usually accompanied by a peritreme of variable (often useful at tribal or generic state) shape, and the evaporatorium is usually large, covering large portions of meta- and mesopleuron, in Plataspididae also on propleuron (Kment & Vilímová 2010a,b).

The hemelytra are composed of the clavus (mesial, along the scutellum) and the corium, which is divided into three parts (i.e. endo-, meso- and exocorium); the membrane bears a variable number of veins (in Neotropical Megarididae there is one or no veins) which may be subparallel or reticulate. In the Podopinae (Pentatomidae) and the Plataspididae, the corium is more or less reduced due to the development of the scutellum.

The legs are typical heteropteran (except in Cydnidae); tarsi are 3-segmented except in Acanthosomatidae, Plataspididae, Megarididae, some Dinidoridae, Tessaratomidae, and a few exotic Pentatomidae with 2-segmented tarsi. The abdomen is composed of 7 visible tergites dorsally and only six sternites ventrally, sternite I being almost completely reduced; each sternite bears one lateral spiracle on each side, and in the Pentatomidae each abdominal segment bears a pair of trichobothria on each side near each spiracle.

In male specimens, the ninth segment forms a capsule-like pygophore containing the internal genitalia: phallus, parameres and the proctiger (i.e. modified urites X and XI). The parameres are nearly always symmetrical. The external female genitalia consist of several plate-like structures, that is, two pairs of gonapophyses and two pairs of gonocoxites which conceal the internal genitalia posteriorly. The spermathecae of Pentatomoidea are extremely variable and the distal tube is often differentiated into a bulb of variable size and form and of unknown function (Dupuis 1955; Pendergrast 1957; Scudder 1959; Gaffour-Bensebbane 1991, 1994; Kim & Lee 1993; Adams 2001; Pluot-Sigwalt & Lis 2008; Tsai *et al.* 2011).

The Pentatomoidea are phytophagous, except for the pentatomid subfamily Asopinae which are predacious. Some genera attack cereals (e.g. *Aelia* Fabricius, *Eurygaster* Laporte, *Mecidea* Dallas), others may destroy brassicaceous crops (eg. *Eurydema* Laporte), while others are pests of fruit trees (eg. *Mustha* Amyot & Serville, *Apodiphus* Spinola). Seventeen families including Acanthosomatidae, Canopidae, Cydnidae, Dinidoridae, Lestoniidae, Megarididae, Parastrachiidae, Pentatomidae, Phloeidae, Plataspididae, Saileriolidae, Scutelleridae,

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## References

- Adams, T.S. (2001) Morphology of the internal reproductive system of the male and female of two spotted stink bugs, *Perillus bioculatus* (F.) (Heteroptera, Pentatomidae) and the transfer of products during mating. *Invertebrate Reproductive Development*, 39, 45–53.  
<http://dx.doi.org/10.1080/07924259.2001.9652466>
- Askari, O., Farshbaf Pour-Abad, R. & Khaganinia, S. (2009) Faunistic study of Heteroptera of Zanjanroud region in Zanjan province of Iran. *Munis Entomology & Zoology*, 4 (2), 560–563.
- Aukema, B., Rieger, C. & Rabitsch, W. (2013) Catalogue of the Heteroptera of the Palaearctic Region. Volume 6. Supplement. The Netherlands Entomological Society, Amsterdam, xxiv + 629 pp.
- Babmorad, M. (1993) Preliminary study of poplar insects fauna in Alborz Research Centre in Karaj. *Proceedings of 11<sup>th</sup> Iranian Plant Protection Congress*, University of Guilan, pp. 238.
- Bagheri, M.R. & Nasr Isfahani, M. (2011) The fauna of harmful and beneficial arthropods of medicinal and range plants in Isfahan. *Journal of Entomological Research*, 3 (2), 119–132. [in Persian, English summary]
- Belousova, E.N. (1999) Revision of shield bugs of the genus *Agatharchus* Stål (Heteroptera, Pentatomidae). *Entomologicheskoe Obozrenie*, 78, 828–848.
- Belousova, E.N. (2007) revision of the Shield-bug Genera *Holcostethus* Fieber and *Peribalus* Mulsant & Rey (Heteroptera, Pentatomidae) of the Palaearctic Region. *Entomological Review*, 87, 701–739.  
<http://dx.doi.org/10.1134/s0013873807060085>
- Bergroth, E. (1919) Neue oder wenig gekannte Heteroptera. *Archiv für Naturgeschichte*, A., 83, 1–6.
- Brown, E.S. (1962) Notes on the systematics and distribution of some species of *Aelia* Fabr. (Hemiptera, Pentatomidae) in the Middle East with special reference to the rostrata group. *Annals and Magazine of Natural History*, Serial 13, vol. V, pp. 129–145.
- Brown, E.S. (1966) An account of the fauna associated with *Eurygaster integriceps* Put. and *Aelia* species (Hem. Pentatomoidea) in their overwintering areas in the Middle East. *Entomologist's Monthly Magazine*, 102, 29–46.
- Brown, E.S. & Eralp, M. (1962) The distribution of the species of *Eurygaster* Lap. (Hemiptera, Scutelleridae) in Middle East countries. *Annals and Magazine of Natural History*, Serial 13, vol. V, 65–81.
- Carapezza, A. (1997) Heteroptera of Tunisia. *II Naturalista siciliano*, 21, 1–331.
- Carapezza, A. (2009) On some Old World Scutelleridae (Heteroptera). *Nouvelle Revue d'Entomologie* (N.S.), 3, 197–212.
- China, W.E. (1927) Zur erforschung des Persischen Golfes. *Entomologische Mitteilungen* XVI, Nr. 8, 188–190.
- China, W.E. (1938) Hemiptera from Iraq, Iran, and Arabia. *Field Museum of Natural History, Zoology*, 20, 427–437.
- Davidová Vilimová, J. (2006) Family Plataspidae, pp. 150–165. *In*: Catalogue of the Heteroptera of the Palaearctic Region. Volume 5. Pentatomomorpha II. The Netherlands Entomological Society, Amsterdam, xiii + 550 pp.
- Davidová Vilimová, J. & Štys, P. (1980) Taxonomy and phylogeny of West Palaearctic Plataspidae (Heteroptera). *Studie ČSAV*, 4, 1–155.
- Derjanschi, V. & Péricart, J. (2005) Hémiptères Pentatomoidea euro-méditerranéens. Vol. 1: Généralités. Systématique. Première Partie. Faune de France, 90. F.F.S.S.N. éd., Paris. 494 pp.
- Derzhansky, V.V., Kerzhner I.M. & Danilovich L.P. (2002) Holotypes and lectotypes of Palaearctic Pentatomoidea in the collection of the Zoological Institute, St Petersburg (Heteroptera). *Zoosystematica Rossica*, 10, 361–371.
- Dolling, W.R. (1981) A rationalized classification of the burrower bugs (Cydnidae). *Systematic Entomologist*, 6, 61–76.  
<http://dx.doi.org/10.1111/j.1365-3113.1981.tb00016.x>
- Durai, P.S.S. (1987) A revision of the Dinidoridae of the world (Heteroptera, Pentatomoidea). *Oriental Insects*, 21, 163–360.
- Dupuis, C. (1955) Les génitalia des Hémiptères Hétéroptères (Génitalia externes des deux sexes; voies ectodermiques femelles). Revue de la morphologie. Lexique de la nomenclature. Index bibliographique analytique. *Mémoires du Museum national d'histoire naturelle*, 6, 183–278.
- Dusoulier, F. & Lupoli, R. (2006) Synopsis des Pentatomoidea Leach, 1815 de France métropolitaine (Hemiptera, Heteroptera). *Nouvelle Revue d'entomologie*, 23, 11–44.
- Eger, J.E., Ames, L.M., Suiter, D.R., Jenkins, T.M., Rider, D.A. & Halbert, S.E. (2010) Occurrence of the Old World bug

- Megacopta cribaria* (Fabricius) (Heteroptera, Plataspidae) in Georgia: a serious home invader and potential legume pest. *Insecta Mundi*, 121, 1–11.
- Farahbakhsh, Gh. (1961) Family Pentatomidae (Heteroptera), *In*: Farahbakhsh, Gh. (ed.). A checklist of economically important insects and other enemies of plants and agricultural products in Iran. Department of Plant Protection, Ministry of Agriculture, Tehran, Publication No. 1, pp. 25–28.
- Farshbaf Pour-Abad, R. (2000) Heteroptera fauna of alfalfa fields of Maragheh and nearby cities. *Proceedings of 14<sup>th</sup> Iranian Plant Protection Congress*; Isfahan University of Technology, pp. 232.
- Fent, M., Dursun, A., Karsavuran, Y., Tezcan, S. & Demirözer, O. (2010) A review of the tribe Halyini in Turkey (Hemiptera, Heteroptera, Pentatomidae) with two new records: *Apodiphus integriceps* and *Mustha vicina*. *Journal of the Entomological Research Society*, 12, 1–13.
- Ferrari, P.M. (1874) Hemiptera Agri Ligustici hucusque lecta enumerat. *Annali del Museo Civico di Storia Naturale di Genova*, 6, 116–208.
- Ferrari, A., Schwertner, C.F. & Grazia, J. (2010) Review, cladistic analysis and biogeography of *Nezara* Amyot & Serville (Hemiptera: Pentatomidae). *Zootaxa*, 2424, 1–41.
- Gaffour-Bensebbane, C. (1981) Les punaises des blés en Algérie. *Bulletin de l'Organisation Européenne et Méditerranéenne our la Protection des Plantes*, 11, 33–38.
- Gaffour Bensebbane, C. (1991) Morphologie des voies ectodermiques des femelles d'*Eurygaster austriaca* (Schrank, 1776). *Bulletin de la société Entomologique de France*, 95, 209–228.
- Gaffour Bensebbane, C. (1994) Les variations morphologiques de l'appareil génital ectodermique des femelles de Scutelleridae (Heteroptera, Pentatomoidea). I. Les pièces internes. *Nouvelle Revue d'Entomologie*, 11, 267–281.
- Galini, N., Sakenin Chelav, H. & Ghahari, H. (2013) Species diversity of Heteroptera (Insecta) in alfalfa fields of Garmsar and vicinity, Iran. *Calodema*, 282, 1–4.
- Gapon, D.A. (2007a) A new combination for *Sternodontus contestor* Kiritschenko, 1966 (Heteroptera, Pentatomidae). *Zoosystematica Rossica*, 16, 31–32.
- Gapon, D.A. (2007b) A taxonomic review of *Promecocoris* Puton, 1886 (Heteroptera, Scutelleridae), with a description of male and female genitalia. *Euroasian Entomological Journal*, 6, 57–66 [in Russian, English abstract].
- Gapon, D.A. (2007c) *Ventocoris martini* (Horv.) is a synonym of *V. modestus* (Jak.) (Heteroptera, Pentatomidae). *Zoosystematica Rossica*, 16, 66.
- Gapon, D.A. (2008) A revision of *Leprosoma* Baerensprung, 1859 (Heteroptera, Pentatomidae). *In*: Grozeva, S. & Simov, N. (eds), Advances in Heteroptera research. *Festschrift in Honour of 80<sup>th</sup> Anniversary of Michael Josifov*, Pensoft Publishers, Sofia-Moscow, pp. 105–120.
- Ghahari, H., Cherot, F., Ostovan, H. & Sakenin, H. (2008a) Heteroptera from rice fields and surrounding grasslands of northern Iran (Insecta), with special emphasis on predator species. *Journal of Entomological Research Society*, 10(1), 13–25.
- Ghahari, H., Ostovan, H., Kamali, K. & Tabari, M. (2008b) Arthropod predators of rice fields in central parts of Mazandaran. *J. Agricultural Science (Islamic Azad University)*, 14 (1), 63–74 (in Persian, English summary).
- Ghahari, H., Ostovan, H. & Tabari, M. (2009a) Species diversity and population fluctuation of Heteroptera predators in rice fields of Mazandaran province, northern Iran. *Journal of Plant Protection*, 1 (1), 27–41 (in Persian, English summary).
- Ghahari, H., Carpintero, D.L. & Ostovan, H. (2009b) An annotated catalogue of the Iranian Anthocoridae (Hemiptera: Heteroptera: Cimicomorpha). *Acta Entomologica Musei Nationalis Pragae*, 49, 43–58.
- Ghahari, H., Cherot, F., Linnavuori, R.E. & Ostovan, H. (2009c) Annotated catalogue of Iranian burrower bugs (Heteroptera, Pentatomoidea, Cydnidae). *ZooKeys*, 26, 1–31.  
<http://dx.doi.org/10.3897/zookeys.26.214>
- Ghahari, H., Wan-zhi, C., Chérot, F., Carpintero, D.L., Moulet, P., Ostovan, H., Montemayor, S.I., Havaskary, M. & Linnavuori, R.E. (2010a) A contribution to Heteroptera (Hemiptera) of Arasbaran and vicinity, Northwestern Iran. *Entomotaxonomia*, 32 (3), 186–194.
- Ghahari, H., Carpintero, D.L., Moulet, P., Linnavuori, R.E. & Ostovan, H. (2010b) Annotated catalogue of the Iranian broad-headed bugs (Hemiptera: Heteroptera: Alydidae). *Acta Entomologica Musei Nationalis Pragae*, 50(2), 425–436.
- Ghahari, H., Linnavuori, R.E., Moulet, P. & Ostovan, H. (2010c) An annotated catalogue of the Iranian Nabidae (Hemiptera: Heteroptera). *Acta Entomologica Musei Nationalis Pragae*, 50, 33–44.
- Ghahari, H., Cherot, F., Moulet, P., Carpintero, D.L., Linnavuori, R.E., Sakenin, H. & Ostovan, H. (2011a) Heteroptera (Insecta) fauna of Iranian cotton fields and surrounding grasslands. *Entomologie faunistique*, 64, 3–13.
- Ghahari, H., Buhl, P.N. & Kocak E. (2011b) Checklist of Iranian *Trissolcus* Ashmead (Hymenoptera: Platygastroidea: Scellionidae: Telenominae). *International Journal of Environmental Studies*, October 2011, 1–9.  
<http://dx.doi.org/10.1080/00207233.2011.617531>
- Ghahari, H., Montemayor, S.I., Moulet, P. & Linnavuori, R.E. (2012) An annotated catalogue of the Iranian Tingidae (Hemiptera: Heteroptera). *Zootaxa*, 3207, 22–39.
- Ghahari, H. & Moulet, P. (2012) An annotated catalog of the Iranian Lygaeoidea (excluding Berytidae and Piesmatidae) (Hemiptera: Heteroptera: Pentatomomorpha). *Zootaxa*, 3408, 1–33.
- Ghahari, H. & Heiss, E. (2012) Annotated catalog of Iranian Aradidae (Hemiptera: Heteroptera: Pentatomomorpha: Aradoidea). *Zootaxa*, 3571, 81–86.
- Ghahari, H. & Moulet, P. (2013) An annotated catalog of the Iranian Pyrrhocoridae (Hemiptera: Heteroptera:



- Pentatomomorpha: Pyrrhocoroidea). *Zootaxa*, 3609 (3), 335–342.  
<http://dx.doi.org/10.11646/zootaxa.3609.3.8>
- Ghahari, H., Moulet, P., Ostovan, H. & Linnavuori, R.E. (2013a) An annotated catalog of the Iranian Dipsocoromorpha, Enicocephalomorpha, Gerromorpha, Leptopodomorpha and Nepomorpha (Hemiptera: Heteroptera). *Zootaxa*, 3641 (4), 301–342.  
<http://dx.doi.org/10.11646/zootaxa.3641.4.1>
- Ghahari, H., Moulet, P., Cai, W. & Karimi, J. (2013b) An annotated catalog of the Iranian Reduvioidea (Hemiptera: Heteroptera: Cimicomorpha). *Zootaxa*, 3718 (3), 201–238.  
<http://dx.doi.org/10.11646/zootaxa.3718.3.1>
- Gharaat, M.A., Hassanzadeh, M., Safaralizadeh, M.H. & Fallahzadeh, M. (2009) Notes on the true bug (Heteroptera) fauna of Azarbaijan province, Iran. *Turkish Journal of Zoology*, 33, 421–431.
- Ghauri, M.S.K. (1977) A revision of *Apodiphus* Spinola (Heteroptera, Pentatomidae). *Bulletin of Entomological Research*, 67, 97–106  
<http://dx.doi.org/10.1017/s0007485300010920>
- Göllner-Scheiding, U. (1990) Revision der gattung *Odontotarsus* Laporte de Castelnau, 1832 (Heteroptera, Scutelleridae). *Mitteilungen der Zoologische Museum im Berlin*, 66, 333–370.  
<http://dx.doi.org/10.1002/mmnz.19900660209>
- Göllner-Scheiding, U. (2006a) Family Acanthosomatidae, pp. 166–181. *In: Catalogue of the Heteroptera of the Palaearctic Region. Volume 5. Pentatomomorpha II. The Netherlands Entomological Society, Amsterdam*, xiii + 550 pp.
- Göllner-Scheiding, U. (2006b) Family Scutelleridae, *In: Catalogue of the Heteroptera of the Palaearctic Region. Volume 5. Pentatomomorpha II. The Netherlands Entomological Society, Amsterdam*, pp. 190–227.
- Grazia, J., Schuh, R.T. & Wheeler, W.C. (2008) Phylogenetic relationships of family groups in Pentatomoidea based on morphology and DNA sequences (Insecta, Heteroptera). *Cladistics*, 24, 932–976.  
<http://dx.doi.org/10.1111/j.1096-0031.2008.00224.x>
- Grozeva, S. & Simov, N. (2008) Advances in Heteroptera Research Festschrift in Honor of 80th Anniversary of Michail Josifov. Pensoft Series Faunistica No 82, 47 pp.
- Habibi Nokhandan, M., Sarafrazi, A., Shamsipour, A.A. & Imani, S. (2012) Modelling and predicting the potential distribution of Pentatomidae in Golestan province of Iran. *Proceedings of 6<sup>th</sup> European Hemiptera Congress, 25–29 June 2012, Blagoevgrad, Bulgaria*, pp. 52.
- Halászfy, H. (1959) Heteroptera II. Poloskák II. *Fauna Hungariae*, 46, 1–87.
- Hashemi Rad, H., Soleyman Nejadian, E., Radjabi, Gh. & Iranipour, Sh. (2000) Introduction of egg-parasitoids of pentatomid pistachio bugs in Kerman province. *Proceedings of 14th Iranian Plant Protection Congress*, Isfahan University of Technology, p. 269.
- Hashemi Rad, H., Soleyman Nejadian, E. & Radjabi, Gh. (2002) Population fluctuation of the pistachio green stink bugs (*Brachynema* spp. & *Acrosternum* spp.) and their egg parasitoids in Rafsanjan. *Proceedings of 15<sup>th</sup> Iranian Plant Protection Congress*, Razi University of Kermanshah, pp. 107.
- Hassanzadeh, M., Farshbaf Pourabad, R. & Shayesteh, N. (2009a) An investigation on some Heteroptera in Marand region (Iran). *Munis Entomology & Zoology*, 4 (1), 19–24.
- Hassanzadeh, M., Farshbaf Pourabad, R., Gharaat, M.A. & Beykpor, A.R. (2009b) A study on the Heteroptera fauna of Shend Abad region and environ (Iran). *Munis Entomology & Zoology*, 4 (2), 527–530.
- Havaskary, M., Hossein Pour, F. & Modarres Awal, M. (2010) Cimicomorpha and Pentatomomorpha (Heteroptera) of alfalfa from Mashhad and vicinity, NE Iran. *Munis Entomology & Zoology*, 5 (1), 253–261.
- Havaskary, M., Farshbaf Pour-Abad, R., Kazemi, M. H. & Rafëi, A. (2012) A contribution to the stink bugs from Khodafarin, NW Iran (Heteroptera: Pentatomidae: Pentatominae). *Munis Entomology & Zoology*, 7 (1), 607–616.
- Heiss, E. (2002) Beitrag zur Kenntnis der Wanzenfauna (Heteroptera) Irans, I, *In: Gutleb, B. & Wieser, Ch. (eds), Ergebnisse einer zoologischen Exkursion in den Nordiran, 2001. Carinthia II*, 112, 33–140.
- Henry, T.J. (2009) Biodiversity of Heteroptera. *In: Insect biodiversity. Science and Society*, Footit R.G. & Adler P.H. ed., Wiley-Blackwell, Chichester and Hoboken. xxi + 632 pp. [Article: 233–263]
- Hérard, F., Mercadier, G. & Abai, M. (1979) Situation de *Lymantria dispar* (Lep.: Lymantridae) et de son complexe parasitaire en Iran, en 1976. *Entomophaga*, 24 (4), 371–384.  
<http://dx.doi.org/10.1007/bf02374176>
- Hoberlandt, L. (1939) Contribution to knowledge of Heteroptera. *Acta Societatis Entomologicae Bohememicae*, 39, 59–60.
- Hoberlandt, L. (1951) Some Hemiptera-Heteroptera collected in north and east Iraq. *Acta Entomologica Musei Nationalis Pragae*, 26(360) [1949], 1–9.
- Hoberlandt, L. (1955) Hemiptera – Heteroptera from Iran, I. *Acta Entomologica Musei Nationalis Pragae*, 29[1954], 121–148.
- Hoberlandt, L. (1959) Hemiptera – Heteroptera from Iran, II. *Acta Entomologica Musei Nationalis Pragae*, 33, 497–523.
- Hoberlandt, L. (1961) Ergebnisse der Deutschen Afghanistan-Expedition 1956 der Landessammlungen für naturkunde in Karlsruhe. *Beiträge zur Naturkundlichen Forschung in Südwestdeutschland*, 19, 197–222.
- Hoberlandt, L. (1983) Results of the Czechoslovak-Iranian entomological expedition to Iran. Introduction to the Third expedition 1977. *Acta Entomologica Musei Nationalis Pragae*, 41, 5–24.
- Hoberlandt, L. (1984) Heteroptera of Afghanistan. Acanthosomatidae, Cydnidae, Scutelleridae and Pentatomidae. *Acta*

- Hoberlandt, L. (1997) Results of the Czechoslovak-Iranian entomological expeditions to Iran 1970, 1973 and 1977; Heteroptera: Acanthosomatidae, Cydnidae, Scutelleridae, Pentatomidae. *Acta Entomologica Musei Nationalis Pragae*, 44 (1995), 181–293.
- Hoberlandt, L. & Safavi, M. (1981) Results of the Czechoslovak-Iranian entomological expeditions to Iran. Heteroptera: Pentatomidae. Phyllocephalinae. *Acta Entomologica Musei Nationalis Pragae*, 40, 33–43.
- Horváth, G. (1903) Conspectus specierum generis *Graphosoma*. *Annales Historico-Naturales Musei Nationalis Hungarici*, 1, 400–409.
- Horváth, G. (1906) Hémiptères du genre *Mustha*. *Bulletin du Museum d'Histoire naturelle de Paris*, pp. 514–516.
- Horváth, G. (1907) Hemiptera nova vel minus cognita e regione palaeartica. I. *Annales Historico-Naturales Musei Nationalis Hungarici*, 5, 289–323.
- Horváth, G. (1936) Monographia generis *Bagrada* Stål. *Annales Historico-Naturales Musei Nationalis Hungarici*, 30, 22–47.
- Iranipour, Sh. (1996) Study on the seasonal dynamism of parasitoids of *Eurygaster integriceps* Put. (Heteroptera: Scutelleridae) in Karaj, Kamal-Abd, Fashand. M.Sc thesis of Agriculture College, University of Tehran, 187 pp. (in Persian, English summary).
- Iranipour, Sh. & Johnson, N.F. (2010) *Trissolcus radjabii* n. sp. (Hymenoptera: Platygasteridae), an egg parasitoid of the shield bug, *Apodiphus amygdali* (Heteroptera: Pentatomidae) and the sunn pest, *Eurygaster integriceps* (Heteroptera: Scutelleridae). *Zootaxa*, 2515, 65–68.
- Jacobs, D.H. (1989) A new species of *Thaumastella* with notes on the morphology, biology and distribution of the two southern African species (Heteroptera, Thaumastellidae). *Journal of the Entomological Society of South Africa*, 52, 301–316.
- Jakovlev, V.E. (1877) Poluiestkokrylyja (Hemiptera, Heteroptera) sjevernoj Persii. *Trudy Russkago Entomologicheskago Obshchestva*, 10, 67–98.
- Jakovlev, V.E. (1880) Poluiestkokrylyja (Hemiptera, Heteroptera) fauny rossii i sosednich s nej strang. *Trudy Russkago Entomologicheskago Obshchestva*, 11, 200–220.
- Jakovlev, V.E. (1881) Materialy dlja fauny poluiestkokrylych Rossii i sosednich stran. *Bulletin de la Société des Naturalistes de Moscou*, 56, 194–214.
- Javahery, M., Schaefer, C.W. & Lattin, J.D. (2000) Shield bugs (Scutelleridae), pp. 475–503. In: Heteroptera of Economic importance. C.W. Schaefer & A.R. Panizzi ed. CRC Press, Boca Raton, London, New York, Washington DC., 828 pp.
- Josifov, M. (1971) Die Gattung *Elasmucha* Stål, 1864, im ostlichen Mittelmeerraum (Heteroptera, Acanthosomatidae). *Reichenbachia*, 13, 239–243.
- Kalarii, S., Sakenin Chelav, H. & Ghahari, H. (2013) A study on Heteroptera of cotton fields and surrounding areas of Garmsar and vicinity, Semnan province, Iran. *Calodema*, 283, 1–4.
- Karimian, Z. & Khormali, S. (2006) Identification the cotton damaging bugs and determining the abundance of major species in different microclimate of Golestan province. *Proceedings of 17<sup>th</sup> Iranian Plant Protection Congress*, Campus of Agriculture and Natural Resources, University of Tehran, Karaj, pp. 83.
- Kerzhner, I.M. (1966) Shield bugs of the family Urostylidae (Heteroptera, Pentatomidae) from the USSR. *Trudy Zoologicheskogo Instituta Akademiyi Nauk SSSR*, 37, 45–50 (in Russian).
- Kerzhner, I.M. (1976) New and little-known Heteroptera from Mongolia and from adjacent regions of the USSR, 111. *Insects of Mongolia*, 4, 30–86.
- Kerzhner, I.M. & Rieger, C.H. (1985) Wanzen aus Iran (Insecta: Heteroptera). *Senckenbergiana Biologica*, 66, 51–53.
- Khaghaninia, S., Farshbaf Pour-Abad, R., Askari, O. & Fent, M. (2010a) An introduction to true bugs fauna of Gunber valley including two new records for Iranian fauna Hemiptera: Heteroptera. *Munis Entomology & Zoology*, 5 (2), 354–360.
- Khaghaninia, S., Askari, O., Farshbaf Pour-Abad, R. & Shahim, K. (2010b) Some additional notes about Heteroptera fauna of Qaradag forests-Iran. *Munis Entomology & Zoology*, 5 (2), 513–518.
- Khaghaninia, S., Farshbaf Pour-Abad, R. & Askari, O. (2011) A contribution to the Heteroptera fauna of Zunuz region, northwest of Iran. *North-Western Journal of Zoology*, 7 (1), 35–38.
- Khaghaninia, S., Farshbaf Pour-Abad, R., Askari, O. & Havaskary, M. (2013) A faunistic study of true bugs (Heteroptera) from Horand grasslands, NW Iran. *Munis Entomology & Zoology*, 8 (1), 468–474
- Khalilzadeh, A. (2008) Identification of Heteroptera fauna of alfalfa fields in Azarshahr region of Azarbayejane-sharqi province, Iran. *Journal of New Agricultural Science*, 4 (9), 5.
- Khalilzadeh, A.R., Farshbaf Pour-Abad, R., Kazemi, M.H. & Ostovan, H. (2007) Fauna of Heteroptera in pasture of Azarshahr, East Azarbaijan. *Forest and Pasture*, 76 & 77, 77–83 (in Persian, English summary).
- Khanjani, M. (2006) Field crop pests in Iran. Bu-Ali Sina University of Hamadan Press, 719 pp. (in Persian).
- Kim, H.R. & Lee, C.E. (1993) The spermatheca of the Plataspidae from Korea (Heteroptera, Hemiptera). *Nature & Life (Korea)*, 23, 115–120.
- Kiritshenko, A.N. (1911) Neue und noch wenig bekannte Hemipteren der Russischen Fauna. *Revue Russe d'Entomologie*, 11, 374–379 (in Russian).
- Kiritshenko, A.N. (1938) Die echten Halbflügler (Hemiptera) der Nachitschewan ASSR. *Trudy Zoologicheskogo Instituta Akademiyi Nauk SSSR, Azerbaidzhanskii filial*, 8, 75–121.
- Kiritshenko, A.N. (1949) Nastojag Eije poluiestkokrylyje (Hemiptera-Heteroptera) sobrannye akad. E.N. Pavlovskim v 1942 g. v Irane. IFudy 2001. AN SSSR, 8, 879–887.

- Kiritshenko, A.N. (1952) New and little-known bugs (Hemiptera, Heteroptera) of Tadzhikistan. *Trudy Zoologicheskogo Instituta Akademii Nauk SSSR*, 10, 140–198 (in Russian).
- Kiritshenko, A.N. (1966) Hemiptera-Heteroptera collected by D.M. Steinberg in Iran in 1955. *Entomologicheskoe Obozrenie*, 45, 798–805.
- Kment, P. (2005) Revision of *Mahea* Distant, 1909, with a review of the Acanthosomatidae (Insecta, Heteroptera) of Madagascar and Seychelles. *Acta Entomologica Musei Nationalis Pragae*, 45, 21–50.
- Kment, P. & Jindra, Z. (2008) New records of *Eurydema fieberi* from the Czech Republic with corrections to some previously published records of Palearctic *Eurydema* species (Hemiptera: Heteroptera: Pentatomidae). *Acta Musei Moraviae, Scientiae biologicae (Brno)*, 93, 11–27
- Kment, P. & Vilímová, J. (2010a) Thoracic scent efferent system of Pentatomoidea (Hemiptera: Heteroptera): a review of terminology. *Zootaxa*, 2706, 1–77.
- Kment, P. & Vilímová, J. (2010b) Thoracic scent efferent system of the Tessaratomidae sensu lato (Hemiptera, Heteroptera, Pentatomoidea) with implication to the phylogeny of the family. *Zootaxa*, 2363, 1–59.
- Kment, P., Štys, P. & Vilímová, J. (2012) Thoracic scent efferent system and exonium of Aphyllidae (Hemiptera, Heteroptera, Pentatomoidea), its architecture and function. *European Journal of Entomology*, 109, 267–279.  
<http://dx.doi.org/10.14411/eje.2012.035>
- Kocorek, A. & Lis, J.A. (2000) A cladistic revision of the Megymeninae of the World (Hemiptera, Heteroptera, Dinidoridae). *Polish Journal of Entomology*, 69, 7–30
- Kumar, R. (1974) A revision of World Acanthosomatidae (Heteroptera, Pentatomidae): keys to and descriptions of subfamilies, tribes and genera with designation of types. *Australian Journal of Zoology* (suppl. Series), 34, 1–60.  
<http://dx.doi.org/10.1071/ajzs034>
- Larivière, M.C. & Larochele, A. (1989) *Picromerus bidens* (Heteroptera: Pentatomidae) in North America, with a world review of its distribution and bionomics. *Entomological News*, 100, 133–146.
- Lindberg, H. (1938) Einige Heteropterenfunde aus Nord-Persien. *Notulae Entomologicae*, 18, 88–91.
- Linnavuori, R.E. (1984) New species of Hemiptera Heteroptera from Iraq and the adjacent countries. *Acta Entomologica Fennica*, 44, 1–59.
- Linnavuori, R.E. (2004) Heteroptera of the Hormozgan province in Iran. III. Cimicomorpha (Anthocoridae, Canthacaderidae, Tingidae), Pentatomorpha. *Acta Universitatis Carolinae Biologica*, 48, 273–286.
- Linnavuori, R.E. (2007) Studies on the Piesmatidae, Berytidae, Pyrrhocoridae, Stenocephalidae, Coreidae, Rhopalidae, Alydidae, Cydnidae and Plataspidae (Heteroptera) of Gilan and the adjacent provinces in northern Iran. *Acta Entomologica Musei Nationalis Pragae*, 47, 77–91.
- Linnavuori, R.E. (2008) Studies on the Acanthosomatidae, Scutelleridae and Pentatomidae (Heteroptera) of Gilan and the adjacent provinces in northern Iran. *Acta Entomologica Musei Nationalis Pragae*, 48 (1), 1–21.
- Linnavuori, R.E. (2012) Studies on Pyrrhocoroidea, Coreoidea and Pentatomoidea of Khuzestan and the adjacent provinces in Iran (Hemiptera: Heteroptera). *Acta Entomologica Musei Nationalis Pragae*, 52 (1), 67–88.
- Linnavuori, R. & van Arden, A. (1997) Notes on Heteroptera (Insecta, Hemiptera) of Yemen. *Fauna of Saudi Arabia*, 16, 169–236.
- Lis, J.A. (1990) New genera, new species, new records and checklist of the Old World Dinidoridae (Heteroptera, Pentatomoidea). *Annals of the Upper Silesian Museum*, 1, 103–147.
- Lis, J.A. (2006a) Family Thyreocoridae, *In: Catalogue of the Heteroptera of the Palearctic Region. Volume 5. Pentatomomorpha II. The Netherlands Entomological Society, Amsterdam*, pp. 148–149.
- Lis, J.A. (2006b) Family Dinidoridae, *In: Catalogue of the Heteroptera of the Palearctic Region. Volume 5. Pentatomomorpha II. The Netherlands Entomological Society, Amsterdam*, pp. 228–232.
- Lis, J.A. (2006c) Family Cydnidae, *In: Catalogue of the Heteroptera of the Palearctic Region. Volume 5. Pentatomomorpha II. The Netherlands Entomological Society, Amsterdam*, pp. 119–147.
- Lis, J.A., Lis, P., Ziaja, D.J. & Kocorek, A. (2012) Systematic position of Dinidoridae within the superfamily Pentatomoidea (Hemiptera, Heteroptera) revealed by the Bayesian phylogenetic analysis of the mitochondrial 12S and 16S rDNA sequences. *Zootaxa*, 3423, 61–68.
- Lupoli, R., Dusoulier, F., Cruaud, A., Cros-Arteil, S. & Streito, J.C. (2013) Morphological, biogeographical and molecular evidence of *Carpocoris mediterraneus* as a valid species (Hemiptera, Pentatomidae). *Zootaxa*, 3609 (4), 392–410.  
<http://dx.doi.org/10.11646/zootaxa.3609.4.2>
- Martin, H., Javaheri, M. & Radjabi, Gh. (1969) Note la punaise des cereals, *Eurygaster intergriceps* Put. et de ses parasites du genre *Asolcus* en Iran. *Entomologie et Phytopathologie Appliquees*, 28, 56–65.
- Mehneh, A.H., Modarres Awal, M. & Rahimi, M. (2010) Introduction Pentatomids bugs (Pentatomidae: Pentatominae and Scutellerinae) from Mashhad region and urban (Khorasan Razavi province) and their distribution. *Munis Entomology & Zoology*, 5, supplement, 977–981.
- Memon, N., Ahmad, I. & Perveen, R. (2002) Redescription of the type species of *Halys fabricii* nomen novum for *Cimex dentatus* Fabricius (Hemiptera, Pentatomidae, Pentatominae, Halyini) a preoccupied name of the genus *Halys* Fabricius with a note on its independent status from *Halys serrigera* (Westwood). *Journal of Natural History and Wild Life*, 1, 50–54.
- Mirab-balou, M., Khanjani, M. & Zolfaghari, M. (2007) The preliminary study of true bugs (Hemiptera: Heteroptera) fauna in

- the alfalfa field of Hamadan province (Western Iran). *Pakistan Journal of Entomology*, 29 (1), 5–8.
- Miyamoto, S. (1963) Heteropterous insects from Iran and Afghanistan. Results of the Kyoto University Scientific Expedition to Karakorum and Hindukush, 1955, 4, 89–92.
- Modarres Awal, M. (1987) Collecting and determining of the fauna of Heteroptera in Ardabil area and research station of University of Tabriz in Moghan. *Journal of the Entomological Society of Iran*, 9 (1–2), 15–28 (in Persian, English summary).
- Modarres Awal, M. (1993) Faunistic studies on Pentatomomorpha (Het.) species of north of Khorasan province. *Proceedings of 12<sup>th</sup> Iranian Plant Protection Congress*, University of Tehran, pp. 306.
- Modarres Awal, M. (1996a) Studies on some Pentatomomorpha (Heteroptera) fauna in north of Khorasan province. *Journal of Agricultural Science & Technology*, University of Mashhad, 9 (2), 121–144. [in Persian, English summary]
- Modarres Awal, M. (1996b) Studies on some Cimicomorpha and Pentatomomorpha (Het.) fauna in Ardabil province. *Journal of Agricultural Science & Technology*, University of Mashhad, 10 (1), 102–112. [in Persian, English summary]
- Modarres Awal, M. (1997a) Determination of some fauna of Cimicomorpha and Pentatomomorpha (Het.) in Tabriz area. *Journal of Agricultural Sciences*, University of Tabriz, 7(3 & 4), 43–56. [in Persian, English summary]
- Modarres Awal, M. (1997b) Family Pentatomidae (Heteroptera), pp. 76–81. In: Modarres Awal, M. (ed.), List of agricultural pests and their natural enemies in Iran. Ferdowsi University Press, 429 pp.
- Modarres Awal, M. (1998) Fauna of Cimicomorpha and Pentatomomorpha (Het.) in Tabriz. *Proceedings of 13<sup>th</sup> Iranian Plant Protection Congress*, Campus of Agriculture and Natural Resources, University of Tehran, Karaj, p. 238.
- Modarres Awal, M. (2008) Contribution to Heteroptera fauna of Khorasan Razavi province of Iran. *Türkiye Entomoloji Derneği*, 32 (4), 243–253.
- Mohaghegh, J. (2006) The predatory stink bugs (Het.: Pentatomidae, Asopinae) from the south coast of the Caspian Sea. *Proceedings of 17<sup>th</sup> Iranian Plant Protection Congress*, Campus of Agriculture and Natural Resources, University of Tehran, Karaj, p. 82.
- Mohaghegh, J. (2008) New records of the predatory stinkbugs (Het.: Pentatomidae: Asopinae) from Iran. *Journal of Entomological Society of Iran*, 27 (2), Supplement, 1–4.
- Nateq Golestan, N. (2004) Faunistic and taxonomic study on Pentatomidae (Hemiptera: Heteroptera) in West Azarbaijan province. M. Sc thesis of Agricultural College, Urmieh University.
- Nateq Golestan, N., Safaralizadeh, M.H. & Sarafrazi, A. (2004) A taxonomic investigation on the pentatomid fauna (Hemiptera: Pentatomidae) of West Azarbaijan province (Iran). *Proceedings of 16<sup>th</sup> Iranian Plant Protection Congress*, University of Tabriz, pp. 118.
- Nateq Golestan, N., Safaralizadeh, M.H. & Sarafrazi, A. (2005) Report of *Trochiscocoris hemipterus* (Het.: Pentatomidae) from Iran. *Journal of Entomological Society of Iran*, 24 (2), 150.
- Nateq Golestan, N., Safaralizadeh, M.H. & Sarafrazi, A. (2010a) Preliminary study on Pentatomids in West Azerbaijan province of Iran (Heteroptera). *Munis Entomology & Zoology*, 5 (2), 686–691.
- Nateq Golestan, N., Safaralizadeh, M.H. & Sarafrazi, A. (2010b) Identification and differential distribution Pentatomidae family (Heteroptera) in West Azarbaijan province (Iran). *Journal of Plant Protection*, 24 (3), 363–365. [in Persian, English summary]
- Nateq Golestan, N., Safaralizadeh, M.H. & Sarafrazi, A. (2010c) Identification and differential distribution Pentatomidae family (Heteroptera) in West Azarbaijan province (Iran). *Journal of Plant Protection*, 24(3), 363–365 (in Persian, English summary).
- Nateq Golestan, M., Safaralizadeh, M.H. & Sarafrazi, A.M. (2011) Faunistic study on Pentatomid bugs (Hem., Heteroptera) in West Azarbaijan province, Iran. *Journal of Entomological Research*, 2(4), 319–328. [in Persian, English summary]
- Nateq Golestan, N. & Modarres Awal, M. (2012) Faunistic study on pentatomid and scutellerid bugs (Hem.: Heteroptera) from Birjand county and suburbs in South Khorasan province (Iran). *Munis Entomology & Zoology*, 7 (1), 462–466.
- Nikdel, M., Dordaei, A.A. & Matocq, A. (2011) Faunistic study on Hemiptera in Arasbaran area (East Azarbaijan province, Iran). *Munis Entomology & Zoology*, 6 (1), 389–395.
- Noorbakhsh, S.H. & Razavi, S. (1993) Distribution of sunn pest (*Eurygaster integriceps* Put.) and its natural enemies in Chaharmahal & Bakhtiary. *Proceedings of 12<sup>th</sup> Iranian Plant Protection Congress*, University of Tehran, p. 15.
- Oshanin, B. (1906) Verzeichnis der palaearktischen Hemipteren, 1. Heteroptera, St. Petersburg, 1087 pp.
- Oshanin, B. (1912) Katalog der palaarktischen Hemipteren, Berlin, 187 pp.
- Oshanin, B. (1922) Deux espèces nouvelles de Pentatomides appartenant à la faune de la Perse méridionale. *Ezhagodnik Zoologicheskago Muzeya Rossiiskoi Akademii Nauk*, 23, 149–156.
- Panizzi, A.R., McPherson, J.E., James, D.G., Javahery, M. & McPherson, R.M. (2000) Stink bugs (Pentatomidae), pp. 421–474. In: Schaefer, C.W. & Panizzi, A.R. (ed.), Heteroptera of economic importance. CRC Press, Boca Raton, London, New York, Washington DC., 828 pp.
- Pendergrast, J.G. (1957) studies on the reproductive organs of the Heteroptera with considerations on their bearing on classification. *Transactions of the Royal Entomological Society of London*, 109, 1–63.
- Péricart, J. (2010) Hémiptères Pentatomoidea euro-méditerranéens. Vol. 3: Podopinae et Asopinae. Faune de France, 93. F.F.S.S.N. éd., Paris, 290 pp.
- Pluot-Sigwalt, D. & Lis, J.A. (2008) Morphology of the spermatheca in the Cydnidae (Hemiptera, Heteroptera): bearing of its diversity on classification and phylogeny. *European Journal of Entomology*, 105, 279–312.

<http://dx.doi.org/10.14411/eje.2008.038>

- Putshkov, V.G. (1961) Pentatomoidea. Fauna Ukrainy, 21. 338 pp. [in Ukrainian]
- Putshkov, V.G. (1965) Stitniki Srednej Azii. Izdatelstvo [Pentatomidae of Central Asia], Ilim UF, Runze, 329 pp.
- Putshkov, P.V. (1981) On the study of the form building in *Elasmucha grisea* L. (Heteroptera, Acanthosomatidae). Ecological and morphological features of animals and their environment (Dolin, ed.), pp. 110–112. Naukova Dumka, Kiev [in Russian].
- Radjabi, G. (1998) Biological and ecological features of harmful species of *Aelia* in cereal growing area of Iran. *Applied entomology and phytopathology*, 66, 99–121. [not seen, according Derjanschi & Péricart 2005]
- Radjabi, G. (2001) *Trissolcus esmailii* sp. n. (Hym.: Scelionidae) an egg parasitoid of *Eurygaster integriceps* Put. and *Dolycoris baccarum* in Iran. *Journal of Agricultural Science*, 7 (2), 10–13. [in Persian, English summary]
- Razmjoo, M. (2004) Biodiversity of predaceous Hemiptera in biotype in alfalfa fields in Isfahan region and behavioral biology of dominant species. Ph. D thesis of Islamic Azad University, Tehran Science and Research Branch, 125 pp. [in Persian, English summary].
- Razmjoo, M., Mortezaei Nejhadi, F., Jalali Zand, A. & Jafarpour, M. (2011) Study on Heteroptera in biotope of alfalfa fields in Isfahan province. *International Conference on Life Science and Technology IPCBEE* Vol. 3, IACSIT Press, Singapore, pp. 150–152.
- Reuter, O.M. (1881) Analecta hemipterologica. Zur Artenkenntniss, Synonymie and geographischen Verbreitung palaearktischer Heteropteren. *Berliner Entomologische Zeitschrift*, 25, 155–196.  
<http://dx.doi.org/10.1002/mmnd.18810250205>
- Reuter, O.M. (1900) Heteroptera palaeartica nova vel minus cognita. I. *Öfversigt af Finska Vetenskaps-Societetens Förhandlingar*, 42, 209–239.
- Reuter, O.M. (1913) Ausführliche Beschreibungen einiger paläarktischen Hemipteren. *Öfversigt af Finska Vetenskaps-Societetens Förhandlingar*, 55, 1–111.
- Ribes, J. & Pagola-Carte, S. (2007) *Brachynema purpureomarginatum kerzhneri* n. ssp. from Iran (Hemiptera: Heteroptera: Pentatomidae) with a key to the “Rassenkreis”. *Heteropterus Revista de Entomologia*, 7 (1), 19–24.
- Ribes J., Pagola-Carte, S. & Valcárcel, P. (2006) Una sinonimia restituada en el género *Holcostethus* Fieber, 1860 (Hemiptera, Heteroptera, Pentatomidae). *Boletín de la Sociedad entomológica aragonesa*, 39, 407–408.
- Ribes, J., Pagola-Carte, S. & Zabalegui, I. (2008) On some Palaeartic Carporcorini (Hemiptera: Pentatomidae: Pentatomini). *Heteropterus Revista de Entomologia*, 8 (2), 155–169.
- Ribes, J. & Pagola-Carte, S. (2013) Hémiptères Pentatomoidea Euro-Méditerranéens. Vol. 2: Pentatominae (suite). Faune de France 96. F.F.S.S.N. éd., Paris, 423 pp.
- Rider, D.A. (2000) Stirotarsinae, new subfamily for *Stirotarsus abnormis* Bergroth (Heteroptera, Pentatomidae). *Annals of the Entomological Society of America*, 93, 802–806.  
[http://dx.doi.org/10.1603/0013-8746\(2000\)093\[0802:snsfsa\]2.0.co;2](http://dx.doi.org/10.1603/0013-8746(2000)093[0802:snsfsa]2.0.co;2)
- Rider, D.A. (2006) Family Pentatomidae. In *Catalogue of the Heteroptera of the Palaearctic Region. Volume 5. Pentatomomorpha II*. The Netherlands Entomological Society, Amsterdam, xiii + 550 pp. [Article: 233–402].
- Rider, D.A. (2011) Pentatomoidea Home Page. North Dakota State University, Fargo. <http://www.ndsu.nodak.edu/ndsu/rider/Pentatomoidea/index.htm> (Accessed 1 Jul. 2014)
- Rolston, L.H., Rider, D.A., Murray, M.J. & Aalbu, R.L. (1996) Catalog of the Dinidoridae of the World. *Papua New Guinea Journal of Agriculture, Forestry and Fisheries*, 39, 22–101.
- Sadaghian, B., Dordaei, A.A. & Nikdel, M. (2002) Faunistic study on Heteroptera order in Arasbaran forests. *Proceedings of 15<sup>th</sup> Iranian Plant Protection Congress*, Razi University of Kermanshah, pp. 180.
- Sadaghian, B., Dordaei, A.A. & Nikdel, M. (2004) An investigation on some Heteroptera in Arasbaran forests. *Proceedings of 16<sup>th</sup> Iranian plant protection congress*, University of Tabriz, pp. 128.
- Sadeghi, R., Farshbaf Pour-Abad, R., Kazemi, H. & Hassanzadeh, M. (2009) Introduction of some Heteroptera of Qurigol (Iran). *Munis Entomology & Zoology*, 4 (2), 498–500.
- Safavi, M. (1959) Monographie des Hémiptères Hétéroptères de l’Iran. *Entomologie et Phytologie Appliquées*, 18, 31–40.
- Safavi, M. (1974) Contribution à la connaissance des Hémiptères Hétéroptères de l’Iran (3). Clé de détermination des punaises de la famille des Pentatomidae. *Journal of Entomological Society of Iran*, 2 (1), 21–25. [in Persian, English summary]
- Safavi, M. (1976) Contribution à la connaissance des Hémiptères Hétéroptères de l’Iran (IV). *Journal of Entomological Society of Iran*, 3 (1 & 2), 89–91. [in Persian, English summary]
- Safavi, M. (1993) Contribution à la connaissance des Hémiptères Hétéroptères de l’Iran (16), family Acanthosomatidae Stål 1865. *Journal of Entomological Society of Iran*, 12 & 13, 105–107. [in Persian, English summary]
- Sakenin, H., Imani, S., Shirdel, F., Samin, N. & Havaskary, M. (2008) Identification of Pentatomidae (Heteroptera) and their host plants in central and eastern Mazandaran province and introducing of many dominant natural enemies. *Journal of Plant & Ecosystem*, 15, 37–51. [in Persian, English summary]
- Sakenin, H., Samin, N., Rastegar, J., Havaskary, M., Imani, S. & Linnavuori, R.E. (2010) A faunistic survey on Heteroptera (Insecta) of Western Iran. *Linzer Biologische Beiträge*, 42, 861–872.
- Samin, N. (2010) Scelionid wasps (Hymenoptera: Scelionidae) and dominant species in wheat fields of Varamin and vicinity. M. Sc thesis of Entomology, Islamic Azad University, Tehran Science and Research Branch, 161 pp.. [in Persian, English abstract]



- Samin, N., Shojai, M., Ghahari, H. & Kocak, E. (2010a) A contribution to the scelionid wasps (Hymenoptera: Platygastroidea: Scelionidae), egg parasitoids of Pentatomidae (Heteroptera) in Tehran province, Iran. *Efflatounia*, 10, 7–14.
- Samin, N., Kocak, E., Ghahari, H. & Shojai, M. (2010b) A checklist of Iranian *Telenomus* Haliday (Hymenoptera: Platygastroidea: Scelionidae: Telenominae). *Linzer biologische Beiträge*, 42/2, 1437–1444.
- Samin, N., Sakenin, H., Linnavuori, R., Havaskary, M. & Mohebbi, H.R. (2011a) A faunistic survey of Heteroptera (Insecta) from western Iran. *Calodema*, 146, 1–12.
- Samin, N., Ghahari, H., Kocak, E. & Radjabi, Gh.R. (2011b) A contribution to the scelionid wasps (Hymenoptera: Scelionidae) from some regions of Eastern Iran. *Zoosystematica Rossica*, 20 (2), 299–304.
- Samin, N., Shojai, M., Asgari, Sh., Ghahari, H. & Khoddam, H. (2011c) Population fluctuations of the sunn pest, *Eurygaster integriceps* (Hemiptera: Scutelleridae) in the wheat and barley fields, and introducing of its important parasitoids in aestivation and hibernation shelters in Varamin and Shahre Rey, Iran. *Journal of Daneshvar Agronomy Sciences*, A publication of Shahed University, 6, 79–91. [in Persian, English summary]
- Samin, N. & Asgari, Sh. (2012) A study on the fauna of scelionid wasps (Hymenoptera: Platygastroidea: Scelionidae) in the Isfahan province, Iran. *Archives of Biological Science Belgrade*, 64 (3), 1073–1077.
- Schaefer, C.W. (1987) Food plants of Dinidoridae (Hemiptera): a further note. *Phytophaga*, 1, 161–162.
- Schaefer, C.W., Panizzi, A.R. & James, D.G. (2000) Several small Pentatomoid families (Cyrtocoridae, Dinidoridae, Eurostylidae, Plataspidae and Tessaratomidae), In: Heteroptera of economic importance. Schaefer, C.W. & Panizzi, A.R. (ed.). CRC Press, Boca Raton, London, New York, Washington DC., pp. 505–512.
- Schuh, R.T. & Slater, J.A. (1995) True bugs of the world (Hemiptera: Heteroptera), classification and natural history. Cornell University Press, London, 336 pp.
- Scudder, G.G.E. (1959) The female genitalia of the Heteroptera: morphology and bearing on classification. *Transactions of the Royal Entomological Society of London*, 111, 405–467.  
<http://dx.doi.org/10.1111/j.1365-2311.1959.tb02873.x>
- Seidenstücker, G. (1957) Heteroptera aus Iran 1954. I. Teil Hemiptera-Heteroptera (ohne Fam. Miridae). *Jahresheft des Verein für Vaterländische Naturkunde in Württemberg*, 112, 66–73.
- Seidenstücker, G. (1958) Heteroptera aus Iran 1956, I., Hemiptera-Heteroptera (ohne Familie Miridae). *Stuttgarter Beiträge zur Naturkunde*, 11, 1–5.
- Seidenstücker, G. (1960) Heteropteren aus Iran 1956, III: *Thaumastella aradoides* Horv., eine Lygaeide ohne ovipositor. *Stuttgarter Beiträge zur Naturkunde*, 38, 1–4.
- Seidentücker, G. (1965) *Stagonomus devius* n. sp., eine neue Schildwanze aus der Türkei (Heteroptera, Pentatomidae). *Reichenbachia*, 5, 9–19.
- Servadei, A. (1968) Fauna d'Italia, vol. IX. Rhynchota (Heteroptera, Homoptera, Auchenorrhyncha). Catalogo topografico e sinonimico. Calderini éd., Bologna. X + 851 pp.
- Signoret, V. (1880) De quelques genres nouveaux et espèces nouvelles de l'ordre des Hémiptères faisant partie de la collection du Musée Civique de Gênes. *Annali del Museo Civico di Storia Naturale di Genova*, 15 (1879–1880), 531–545.
- Štys, P. (1964) Thaumastellidae – a new family of Pentatomoid Heteroptera. *Acta Societatis Entomologica Cechoslovaquiae*, 61, 238–253.
- Štys, P. & Davidová, J. (1979) Taxonomy of Thyreocoris (Heteroptera, Thyreocoridae). *Annotationes Zoologicae et Botanicae*, 134, 1–40.
- Sweet, M.H. & Schaefer, C.W. (2002) Parastrachiinae (Hemiptera, Cydnidae) raised to family level. *Annals of the Entomological Society of America*, 78, 526–536.  
[http://dx.doi.org/10.1603/0013-8746\(2002\)095\[0441:phcrtf\]2.0.co;2](http://dx.doi.org/10.1603/0013-8746(2002)095[0441:phcrtf]2.0.co;2)
- Taghizadeh, M., Javadzadeh, M., Rahim, H., Bagheri, M.R. & Modarres Najafabadi, S.S. (2010) The investigation on the incidence of panicle insect pest of sorghum in Iran. *Proceedings of 19<sup>th</sup> Iranian Plant Protection Congress*, Iranian Research Institute of Plant Protection, Tehran, pp. 140.
- Tallamy, D.W. & Schaefer, C.W. (1997) Maternal care in the Hemiptera: ancestry, alternatives and current adaptative value. In: *The evolution of social behaviour in Insects and Arachnids*. New York, 222 pp. [Paper: 22 pp]
- Tamanini, L. (1959) *Carpocoris* della regione Palearctica. *Memorie della Società Entomologica Italiana*, 38, Supplement, pp. 120–142.
- Thomas, D.B. (1994) Taxonomic synopsis of the old world asopine genera (Heteroptera: Pentatomidae). *Insecta Mundi*, 8(3), 145–212.
- Tsai, J.F., Redei, D., Yeh, G.F. & Yang, M.M. (2011) Jewel bugs of Taiwan (Heteroptera, Scutelleridae). National Chung Hsing University ed. Taiwan, 293 pp.
- Wagner, E. (1938) Die abarten von *Eurygaster maura* L. und *Eurygaster testudinaria* Geoffr. *Verhandlungen des Vereins für Naturwissenschaftliche Heimatforschung zu Hamburg*, 26, 21–24.
- Wagner, E. (1940) Neue Abarten von *Eurygaster maura* L. und *Eurygaster testudinaria* Geoffr. (Hem., Het.). *Bolletino della Società Entomologica Italiana*, 72, 141–143.
- Wagner, E. (1961) Beitrag zur Heteropteren-Fauna von Iran. Ergebnisse der österreichischen Iran-Expedition 1949/50 und 1956. *Anzeiger der Mathematischen-Naturwissen Klasse der Österreich Akademie Wissen*, 10, 156–164.
- Wagner, E. (1964) Die Gattung *Stagonomus* Gorski, 1852 (Hem., Het., Pentatomidae). *Deutsche Entomologische Zeitschrift*, N.F. 11, 1–10.

<http://dx.doi.org/10.1002/mmnd.4810110102>

- Wagner, E. (1965) Die taxonomische Bedeutung des Baues der Genitalien des Männchens bei der Gattung *Sciocoris* Fallén, 1829 (Hem., Het., Pentatomidae). *Acta Entomologica Musei Nationalis Pragae*, 36, 91–167.
- Wagner, E. (1966) Ergebnisse zoologische Sammelreisen in der Türkei: *Sciocoris ressl* nov. Spec., eine neue Pentatomidenart (Hem., Het.) aus der Türkei. *Annalen des Naturhistorischen Museums in Wien*, 69, 447–449.
- Wagner, E. (1968) Contribution à la Faune de l'Iran. 7. Hémiptères Hétéroptères (pro parte). *Annales de la Société Entomologique de France (Nouvelle série)*, 4, 437–453.
- Weirauch, C. & Schuh, R.T. (2011) Systematic and Evolution of Heteroptera: 25 years of progress. *Annual review of Entomology*, 56, 487–510.  
<http://dx.doi.org/10.1146/annurev-ento-120709-144833>
- Yarmand, H., Sadeghi, S.E., Mehrabi, A. & Matocq, A. (2002) Some Hemiptera associated with forests and rangelands of Iran. *Proceedings of 15<sup>th</sup> Iranian Plant Protection Congress*. Razi University of Kermanshah, pp. 177–178.
- Zeinoddini Memand, N., Modarres Awal, M., Karimi, J. & Linnavuori, R. (2012) Faunistic survey on the pistachio true bugs of Rafsanjan region. *Proceedings of 20<sup>th</sup> Iranian Plant Protection Congress*, University of Shiraz, p. 169.
- Zeinoddini Memand, N., Modarres Awal M. & Karimi J. (2013) Faunistic and molecular surveys on the pistachio Hemiptera of Rafsanjan region and vicinity, South East Iran. *Journal of entomological resaearch Society*, 15, 23–31.