

POSTERS

List of the scale insects (Hemiptera: Coccoidea) of Croatia

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Abstract: The last check list of Croatian scale insects was made in 1956. On the base of species that we found by browsing the literature and using data from our own faunistic investigation (performed from 2005-2007), we present a new list of Croatian scale insects. Our list contains 132 species of scales from 71 genera, belonging to 12 families. Scales from our list are recorded off 392 host plants in 106 plant families from 379 localities.

Key words: Hemiptera, Coccoidea, Croatia, host plants, distribution.

Introduction

In 1956, a total of 93 species were listed from Croatia (Schmidt, 1956). In the meantime, foreign authors have published short lists of species that they had found on Croatian territory. In the period 2005-2007, we intensively collected scale insects from all 21 counties in Croatia. In our investigation, we found 72 different species, 21 of which were first records for Croatia. Some of scale species that we recorded for the first time are already widespread on Croatian territory. There are two main reasons why these species were not recorded before. Firstly there was no intensive faunistic investigations of scale insects in Croatia for almost 50 years. In addition, faunistic investigations in Croatia were very often directed at agricultural plants, while wild flora, forest trees and shrubs were not investigated to the same extent.

Materials and methods

The list of scale insect in Croatia was based on data from the literature on faunistic investigations and on data from our own investigation that was carried out between 2005-2007 in all 21 counties of the Republic of Croatia. We have used the complete faunistic data relevant for Croatia available to us, namely: Balachowsky (1948, 1950, 1951, 1953, 1954), Fulmek (1943, cit. Schmidt, 1956), Kovačević, (1938, cit. Schmidt, 1956), Kozár (1983), Langhoffer (1899, 1912a, 1912b), Leonardi (1920, cit. Schmidt), Lindinger (1912), Masten & Seljak (2006), Masten (2007), Masten Milek *et al.* (2007a), Masten Milek *et al.* (2007b), Novak (1928a, 1928b, 1940), Pellizzari & Fontana (1999, 2001), Radosavljević (1923), Schmidt (1956, 1973), Velimirović (1985) and Žak-Ogaza (1967). In the species list, we have included data from the Card-file of the Plant Protection Institute and data from the collection of Prof. Pellizzari that was collected on Croatian territory.

Results and discussion

Our list contains 132 species from 71 genera that belong to 12 different families. Scales from our list were collected off 392 host plant species in 106 plant families and from 379 localities. During our investigation, we found 72 species, 21 of which were first records for Croatia. New species for Croatia are: Pseudococcidae: *Antonina crawi* Cockerell, *Chaetococcus phragmitis* (Marchal), *Dysmicoccus brevipes* (Cockerell), *Nipaecoccus delassusi* (Balachowsky),

Planococcus vovae (Nasanov), *Pseudococcus calceolariae* (Maskell), *P. viburni* (Signoret); Diaspididae: *Aulacaspis yasumatsui* Takagi, *Diaspis boisduvalii* Signoret, *Kuwanaspis pseudoleucaspis* (Kuwana), *Lepidosaphes flava* (Signoret), *L. juniperi* Lindinger, *L. newsteadi* (Šulc), *Pinnaspis aspidistrae* (Signoret), *P. strachani* (Cooley); Coccidae: *Ceroplastes japonicus* Green, *Neopulvinaria innumerabilis* (Rathvon), *Parthenolecanium fletcheri* (Cockerell), *P. pomeranicum* (Kawecki), *Pulvinaria hydrangeae* Steinweden and *Pulvinariella mesembryanthemi* (Vallot). The presence of *N. delassusi* on the Island of Mljet is the southernmost record for this species, whilst *A. yasumatsui*, *P. aspidistrae* and *P. strachani* were found only in greenhouses and *D. brevipes* and *D. boisduvalii* only on imported pineapple. Because part of Croatia coast is on the Mediterranean, where it is botanically very rich, we believe that Croatia has the potential to be a real "treasure-trove" for scale fauna investigations. We are continuing our studies and expect our check list will contain many more species from more genera and families in the future.

In Table 1 we present a list of species, authors, date of collection, host plants and distribution in 3 regions of Croatia: the Continental part, Istria and Dalmatia (Fig. 1). Where a species was found only in a greenhouse or in some other protected area, it is marked with an*.



Figure 1. Regions of Croatia: Continental part, Istria and Dalmatia.

Table 1.

Fam. ASTEROLECANIDAE	AUTHOR	YEAR	HOST / DISTRIBUTION
1. <i>Asterodiaspis ilicicola</i> (Targioni Tozzetti)	Schmidt; Masten Milek	1951; 1953; 1955; 2006; 2007	<i>Quercus coccifera</i> L.; <i>Quercus ilex</i> L.; <i>Quercus pubescens</i> Willd. /Istria, Dalmatia
2. <i>Asterodiaspis variolosa</i> (Ratzeburg)	Lindinger; Masten Milek; Schmidt	1912; 1954; 2006; 2007	<i>Quercus ilex</i> L.; <i>Quercus pedunculata</i> L.; <i>Quercus petraea</i> L.; <i>Quercus roboris</i> L.; <i>Quercus</i> L. sp. / Continental part, Istria, Dalmatia
3. <i>Planchonina fimbriata</i> (Boyer de Fonscolombe)	Lindinger; Balachowsky	1912; 1943	<i>Anthyllis albenii</i> L.; <i>Cistus salicifolius</i> L.; <i>Coronilla emerus</i> L.; <i>Coronilla glauca</i> L.; <i>Dorycnium herbaceum</i> Miller; <i>Dorycnium hirsutum</i> Miller; <i>Euphorbia fragifera</i> L.; <i>Hedera helix</i> L.; <i>Lotus corniculatus</i> L.; <i>Medicago orbicularis</i> L.; <i>Osyris alba</i> L.; <i>Prasium maus</i> L.; <i>Sanguisorbia minor</i> L.; <i>Trifolium procumbens</i> L.; <i>Trifolium subterraneum</i> L. /Istria; Dalmatia
4. <i>Pollinia pollini</i> (A. Costa)	Kovačević; Langhoffer; Lindinger; Novak; PPI Card-file; Schmidt	1912; 1923; 1929; 1935; 1946; 1947; 1952	<i>Olea europea</i> L. /Istria; Dalmatia
Fam. CEROCOCCIDAE	AUTHOR	YEAR	HOST / DISTRIBUTION
5. <i>Cerococcus cycliger</i> Goux	Kozár	1981	<i>Thymus pannonicus</i> L. / Istria
Fam. COCCIDAE	AUTHOR	YEAR	HOST / DISTRIBUTION
6. <i>Ceroplastes japonicus</i> Green	Masten Milek	2005; 2006; 2007	<i>Acer palmatum</i> Thunb.; <i>Actinidia chinensis</i> Planch.; <i>Citrus deliciosa</i> Ten.; <i>Diospyros kaki</i> L.; <i>Eriobotrya japonica</i> (Thunb) Lindl.; <i>Hedera helix</i> L.; <i>Laurus nobilis</i> L.; <i>Magnolia grandiflora</i> L.; <i>Malus domestica</i> Borkh.; <i>Nerium oleander</i> L.; <i>Pyrus communis</i> L. /Istria
7. <i>Ceroplastes ruscii</i> (Linnaeus)	Žak-Ogaza; Masten Milek	1965; 1966; 2005; 2006; 2007	<i>Citrus limonium</i> L.; <i>Citrus deliciosa</i> Ten.; <i>Econymus europaeus</i> L.; <i>Ficus carica</i> L.; <i>Myrtus communis</i> L.; <i>Pistacia lentiscus</i> L. /Istria; Dalmatia
8. <i>Ceroplastes sinensis</i> Del Guercio	Schmidt	1974	<i>Citrus</i> L. sp.; Dalmatia
9. <i>Coccus hesperidum hesperidum</i> Linnaeus	Kovačević; Langhoffer; Leonardi; Lindinger; Masten Milek;	1912; 1928; 1929; 1935; 1936; 1939; 1941; 1942; 1943; 1950; 1951; 1952; 1953; 1954; 1955;	<i>Aralia cordata</i> Thunb.; <i>Aralia japonica</i> Thunb.; <i>Arbutus unedo</i> L.; <i>Arbutus unedo</i> var. <i>Rubra</i> L.; <i>Aucuba japonica</i> Thunb.; <i>Begonia</i> L. sp.; <i>Cissus</i> L. sp.; <i>Citrus aurantium</i> L.; <i>Citrus limonium</i> L.; <i>Citrus deliciosa</i> Ten.; <i>Clematis vitalba</i> L.; <i>Dieffenbachia maculata</i> Lodd.; <i>Dracena</i> Vand ex L.sp.; <i>Eryngium amethystinum</i> L.; <i>Ficus benjamina</i> L.; <i>Ficus</i>

		Novak; PPI Card-file; Schmidt; Žak- Ogaza	1960; 1961; 1962; 1964; 1965; 2005; 2006; 2007	<i>carica</i> L.; <i>Fumaria officinalis</i> L.; <i>Hedera helix</i> L.; <i>Hibiscus syriacus</i> L.; <i>Hydrangea macrophylla</i> (Thunb) Ser.; <i>Laurus nobilis</i> L.; <i>Ligustrum vulgare</i> L.; <i>Nerium oleander</i> L.; <i>Polystichum falcatum</i> Diels; <i>Rosa spinosissima</i> L.; <i>Schefflera actinophylla</i> Endl.; <i>Solanum capsicastrum</i> Link ex Schauer; <i>Viburnum opulus</i> L.; <i>Vinca minor</i> L. / Continental part; Istria; Dalmatia
10. <i>Coccus pseudomagnoliarum</i> (Kuwana)		Masten Milek; Velimirović	1985; 2005; 2006; 2007	<i>Celtis australis</i> L.; <i>Citrus</i> L. sp.; <i>Citrus deliciosa</i> Ten. / Istria, Dalmatia
11. <i>Eriopeltis festucae</i> (Boyer de Fonscolombe)		Lindinger; Žak- Ogaza	1912; 1965	Graminae / Dalmatia
12. <i>Eulecanium emerici</i> (Planchon)		Lindinger; Schmidt	1912; 1946; 1963	<i>Acer campestre</i> L.; <i>Acer nebuloso</i> L.; <i>Acer platanoides</i> L.; <i>Acer pseudoplatanus</i> L.; <i>Mespilus</i> L. sp.; <i>Rubus Weihe</i> & Nees sp.; <i>Ulmus</i> L.sp. / Continental part; Istria; Dalmatia
13. <i>Eulecanium tiliae</i> (Linnaeus)		Fulmek; Masten Milek; Schmidt	1943; 1947; 1949; 1955; 2007	<i>Aesculus hippocastanum</i> L.; <i>Carpinus betulus</i> L.; <i>Corylus avellana</i> L.; <i>Crataegus monogina</i> L.; <i>Cydonia oblonga</i> Mill.; <i>Quercus pedunculata</i> L.; <i>Staphylea pinnata</i> L.; <i>Tilia cordata</i> L. / Continental part; Istria
14. <i>Filippia follicularis</i> (Targioni Tozzetti)		Masten Milek; Žak-Ogaza	1965; 1965; 2006; 2007	<i>Olea europaea</i> L.; <i>Phillyrea</i> L. sp.; <i>Pistacia terebinthus</i> L. / Istria; Dalmatia
15. <i>Lecanopsis clodienensis</i> (Pellizzari)		Pellizzari	2000	Gramineae / Istria; Dalmatia
16. <i>Lichtensia viburni</i> Signoret		Masten Milek; Novak; Žak- Ogaza	1926; 1965; 2005; 2006; 2007	<i>Hedera helix</i> L.; <i>Olea europaea</i> L.; <i>Pistacia lentiscus</i> L.; <i>Viburnum</i> L. sp.; <i>Viburnum tinus</i> L. / Continental part; Istria; Dalmatia
17. <i>Neopultenaria innumerabilis innumerabilis</i> (Rathvon)		Masten Milek	2006; 2007	<i>Ilex aquifolium</i> L.; <i>Parthenocissus quinquefolium</i> L.; <i>Vitis vinifera</i> L. / Istria; Dalmatia
18. <i>Palaeocanium bituberculatum</i> (Signoret)		Kovačević; Kozár; PPI Card-file; Schmidt	1936; 1948; 1981	<i>Crataegus</i> L. sp.; <i>Crataegus monogina</i> var. <i>Denudata</i> L.; <i>Malus domestica</i> Miller / Continental part
19. <i>Parthenolecanium corni corni</i> (Bouche)		Kozár; Masten Milek; Žak-Ogaza	1966; 1977; 2005; 2006; 2007	<i>Castanea sativa</i> Miller; <i>Celtis</i> L. sp.; <i>Corylus avellana</i> L.; <i>Lonicera caprifolium</i> L.; <i>Magnolia liliflora</i> Desoruss; <i>Platanus</i> L. sp.; <i>Prunus spinosa</i> L.; <i>Ribes nigrum</i> L.; <i>Ribes rubrum</i> L.; <i>Robinia pseudacacia</i> L.; <i>Sophora japonica</i> L.; <i>Tilia</i> L. sp.; <i>Viburnum tinus</i> L.; <i>Vitis vinifera</i> L. / Continental part; Istria; Dalmatia
20. <i>Parthenolecanium fletcheri</i> (Cockerell)		Masten Milek	2007	<i>Cupressus sempervirens</i> L.; <i>Thuja occidentalis</i> L. / Continental part

21. <i>Parthenolecanium persicae persicae</i> (Fabricius)	Masten Milek	2005; 2006; 2007	<i>Citrus aurantium</i> L.; <i>Citrus deliciosa</i> Ten.; <i>Vitis vinifera</i> L. / Istria; Dalmatia
22. <i>Parthenolecanium pomericum</i> (Kawecki)	Masten Milek	2006; 2007	<i>Taxus baccata</i> L. / Continental part; Istria
23. <i>Parthenolecanium rufulum</i> Cockerell	Kozár; Masten Milek	1981; 2006; 2007	<i>Acer rubrum</i> L.; <i>Corylus avellana</i> L.; <i>Quercus Michx.</i> sp.; <i>Quercus pubescens</i> L.; <i>Quercus roboris</i> L. / Continental part; Istria
24. <i>Phyllostroma myrtilli</i> (Kaltenbach)	Žak-Ogaza	1966	<i>Erica cornea</i> L.; Continental part
25. <i>Physokermes piceae</i> (Schränk)	Kovačević; PPI Card-file	1936	<i>Abies pectinata</i> Miller; <i>Picea excelsa</i> A. Dietrich / Continental part
26. <i>Pulvinaria floccifera</i> (Westwood)	Kozár; Masten Milek; Novak; PPI Card-file; Schmidt; Žak-Ogaza	1926; 1938; 1946; 1950; 1951; 1954; 1965; 1977; 2005; 2006; 2007	<i>Aralia japonica</i> Thunb.; <i>Aralia</i> L. sp.; <i>Aucuba japonica</i> Thunb.; <i>Euonymus japonicus</i> Thunb.; <i>Ilex aquifolium</i> L.; <i>Magnolia</i> L. sp.; <i>Olea europaea</i> L.; <i>Photinia serrulata</i> Lindl.; <i>Pittosporum tobira</i> Ait.; <i>Taxus baccata</i> L. / Continental part; Istria; Dalmatia
27. <i>Pulvinaria hydrangae</i> Steinweden	Masten Milek	2006; 2007	<i>Acer</i> L. sp.; <i>Acer campestre</i> L.; <i>Acer monspessulanum</i> L.; <i>Acer platanoides</i> L.; <i>Acer pseudoplatanus</i> L.; <i>Cornus mas</i> L.; <i>Hydrangea macrophylla</i> (Thunb) Ser; <i>Tilia cordata</i> L.; <i>Tilia</i> L. sp. / Continental part; Istria
28. <i>Pulvinaria sericea</i> (Fourcroy)	Lindinger	1929	<i>Quercus pubescens</i> L. / Dalmatia
29. <i>Pulvinaria vitis</i> (Linnaeus)	Kovačević; Kozár; Langhoffer; Lindinger; Masten Milek; PPI Card-file; Schmidt	1899; 1901; 1912; 1938; 1941; 1948; 1952; 1955; 1977; 2006; 2007	<i>Betula</i> L. sp.; <i>Crataegus</i> L. sp.; <i>Euonymus europea</i> L.; <i>Euonymus latifolia</i> L.; <i>Euonymus varrucosa</i> L.; <i>Prunus persica</i> L.; <i>Salix</i> L. sp.; <i>Ulmus</i> L. sp.; <i>Vitis vinifera</i> L. / Continental part; Istria; Dalmatia
30. <i>Pulvinariella mesembryanthemi</i> (Vallot)	Maten Milek	2007	<i>Mesembryanthemum</i> L. sp. / Dalmatia
31. <i>Saissetia coffeae</i> (Walker)	Kovačević; Lindinger; Masten Milek; Novak; Schmidt	1912; 1926; 1937; 1941; 1951; 1955; 2006; 2007	<i>Amaryllis</i> L. sp.; <i>Asparagus italicus</i> L.; <i>Asparagus spengeri</i> L.; <i>Aspidistra elatior</i> Blume; <i>Buxus sempervirens</i> L.; <i>Echeveria</i> DC sp.; <i>Erica arborea</i> L.; <i>Euonymus japonica</i> L.; <i>Hedera helix</i> L.; <i>Iusticia carnea</i> L.; <i>Laurus nobilis</i> L.; <i>Muhlenbergia platyclados</i> Schreber; <i>Nephtrolepis Schott</i> sp.; <i>Nerium oleander</i> L.; <i>Platycerium bifurcatum</i> (Cav) Chr.; <i>Pseudopanax pendactylis</i> K Koch; <i>Sansevieria</i> Thunb. sp.; <i>Solanum</i> L. sp.; <i>Yucca atlatifolia</i> L. / Continental part*; Istria; Dalmatia

32. <i>Saissetia oleae olene</i> (Olivier)	Kovačević; Kozár; Lindinger; Masten Milek; Novak; PPI Card-file; Radosavljević; Schmidt; Žak-Ogaza	1912; 1922; 1924; 1926; 1939; 1940; 1948; 1950; 1952; 1965; 1966; 1977; 2005; 2006; 2007	<i>Abutilon</i> Miller sp.; <i>Agave</i> Lsp.; <i>Arbutus unedo</i> var. <i>Rubra</i> L.; <i>Asparagus sprengeri</i> L.; <i>Citrus deliciosa</i> Ten.; <i>Cotonaster frigidus</i> "Aldhamensis" Medikus; <i>Cupressus sempervirens</i> L.; <i>Makrozamia pomuninis</i> ; <i>Nerium oleander</i> L.; <i>Olea europaea</i> L.; <i>Scheffera actinophylla</i> Endl.; <i>Yucca</i> L. sp. / Continental part*; Istria; Dalmatia
33. <i>Sphaerolecanium prunastri</i> (Boyer de Fonscolombe)	Kozár; Masten Milek; Novak; PPI Card-file; Schmidt	1926; 1927; 1935; 1937; 1939; 1941; 1946; 1947; 1955; 1977; 2006; 2007	<i>Cercnus vulgaris</i> L.; <i>Crataegus monogyna</i> Jacq.; <i>Prunus cerasifera</i> var. <i>Afropurpurea</i> L.; <i>Prunus domestica</i> L. / Continental part; Istria; Dalmatia
Fam. DACTYLOPIDAE	AUTHOR	YEAR	HOST / DISTRIBUTION
34. <i>Dactylopius coccus</i> Costa	Schmidt	1952; 1953	<i>Opuntia</i> Miller sp. / Dalmatia
Fam. DIASPIDIDAE	AUTHOR	YEAR	HOST / DISTRIBUTION
35. <i>Acutaspis paulista</i> (Hempel)	Schmidt	1947	<i>Billbergia</i> Thunb. sp. / Continental part*
36. <i>Aonidia lauri</i> (Bouché)	Masten Milek; Pellizzari; Schmidt; Žak-Ogaza	1951; 1955; 1960; 1961; 1965; 1981; 2005; 2006; 2007	<i>Hedera helix</i> L.; <i>Laurus nobilis</i> L. / Continental part*; Istria; Dalmatia
37. <i>Aonidiella aurantii</i> (Maskell)	Schmidt; Masten Milek	1949; 2007	<i>Citrus sinensis</i> L.; <i>Citrus limon</i> (L.) Burm. f.; <i>Citrus maxima</i> (Burm.) Merrill; <i>Vitis vinifera</i> L. / Continental part*
38. <i>Aspidiotus hedericola</i> Leonardi	Leonardi; Schmidt	1920; 1945	<i>Hedera helix</i> L. / Dalmatia
39. <i>Aspidiotus nerii</i> Bouché	Kozár; Masten Milek; Schmidt	1949; 1950; 1951; 1952; 1953; 1955; 1961; 1977; 2005; 2006; 2007	<i>Arbutus unedo</i> L.; <i>Asparagus</i> L. sp.; <i>Asplenium</i> L. sp.; <i>Capparis spinosa</i> L.; <i>Cerantonia siliqua</i> L.; <i>Chamaerops humilis</i> L.; <i>Chamaerops</i> L. sp.; <i>Citrus</i> L. sp.; <i>Clematis vitalba</i> L.; <i>Crataegus azarolus</i> "de carrier" L.; <i>Ficus</i> L. sp.; <i>Hakea oleifolia</i> Schrader; <i>Hedera helix</i> L.; <i>Laurus nobilis</i> L.; <i>Magnolia grandiflora</i> L.; <i>Magnolia</i> L. sp.; <i>Nerium oleander</i> L.; <i>Pittosporum tobira</i> Aiton; <i>Rosa spinosissima</i> L.; <i>Smilax aspera</i> L.; <i>Solanum tuberosum</i> L.; <i>Viburnum tinus</i> L.; <i>Yucca</i> L. sp. / ontinental part; Istria; Dalmatia

40. <i>Aulacaspis rosae</i> (Bouché)	Masten Milek; Schmidt; Žak- Ogaza	1950; 1951; 1956; 1965; 1966; 2006; 2007	<i>Myrtus communis</i> L.; <i>Rosa canina</i> L.; <i>Rosa</i> L. sp.; <i>Rubus discolor</i> Weihe&Nees; <i>Rubus ulmifolius</i> Weihe & Nees / Continental part; Istria; Dalmatia
41. <i>Aulacaspis yasumatsui</i> Takagi	Masten Milek	2006	<i>Cycas revoluta</i> Thunb. / Dalmatia*
42. <i>Carruluspin juniperi</i> (Bouché)	Kozár; Masten Milek	1977; 1981; 2005; 2006; 2007	<i>Cupressus L. sp.; Cupressus sempervirens</i> L.; <i>Juniperus sibirica</i> Burgsd.; <i>Juniperus communis</i> L.; <i>Juniperus oxycedrus</i> L.; <i>Juniperus</i> <i>scopulorum</i> L.; <i>Juniperus virginiana</i> L.; <i>Sequoiadendron giganteum</i> (Lindley) / Continental part; Istria; Dalmatia
43. <i>Carruluspin minima</i> (Signoret)	Masten Milek; Žak-Ogaza	1965; 2005; 2006; 2007	<i>Chamaecyparis lawsoniana</i> (Murr) Parl.; <i>Cryptomeria japonica</i> (Lf) D Don; <i>Cupressus goveniana</i> L.; <i>Cupressus lusitanica</i> L.; <i>Cupressus</i> <i>sempervirens</i> L.; <i>Juniperus excelsa</i> M Bieb; <i>Juniperus L. sp.; Juniperus</i> <i>oxycedrus</i> L.; <i>Juniperus scopulorum</i> L.; <i>Libocedrus</i> Endl. sp.; <i>Thuja</i> L. sp.; <i>Thuja occidentalis</i> L. / Continental part; Istria; Dalmatia
44. <i>Chionaspis salicis</i> (Linnaeus)	Kovačević; Kozár; PPI Card- file; Schmidt	1912; 1936; 1938; 1940; 1946; 1947; 1952; 1953; 1955; 1956; 1960; 1977	<i>Acer campestre</i> L.; <i>Acer pseudoplatanus</i> L.; <i>Cornus sanguinea</i> L.; <i>Euonymus europaeus</i> L.; <i>Euonymus</i> L. sp.; <i>Fagus siliatica</i> L.; <i>Ligustrum</i> <i>vulgare</i> L.; <i>Pyrus aria</i> L.; <i>Pyrus aucuparia</i> L.; <i>Quercus pedunculata</i> L.; <i>Quercus sessiliflora</i> L.; <i>Sophora japonica</i> L. / Continental part; Istria; Dalmatia
45. <i>Chortinaspis subterranea</i> (Lindinger)	Balachowsky	1948	<i>Agropyron repens</i> Gaertn. / Dalmatia
46. <i>Chrysonaphthalus nonidum</i> (Linnaeus)	Lindinger; Schmidt	1912; 1940; 1951; 1954	<i>Citrus aurantium</i> L.; <i>Citrus limonium</i> L.; <i>Ficus carica</i> L.; <i>Ficus</i> L. sp. /Istria; Dalmatia
47. <i>Chrysonaphthalus dictyospermi</i> (Morgan)	Masten Milek; Pellizzari; Schmidt	1951; 1952; 1954; 1958; 1960; 1962; 1981; 2005; 2006; 2007	<i>Acacia julibrissin</i> Willd; <i>Arbutus unedo</i> L.; <i>Aucuba japonica</i> Thunb.; <i>Euonymus europaeus</i> L.; <i>Ficus</i> L. sp.; <i>Laurocerasus officinalis</i> Roem.; <i>Laurus nobilis</i> L.; <i>Myrtus communis</i> L.; <i>Nerium oleander</i> L.; <i>Phoenix</i> <i>canariensis</i> Hort; <i>Podocarpus</i> L` Herit ex Pers sp.; <i>Poncirus trifoliata</i> (L) Raf; <i>Prunus laurocerasus</i> L.; <i>Taxus baccata</i> L. / Continental part; Istria; Dalmatia
48. <i>Diaspidiotus ceconii</i> (Leonardi)	Leonardi; Lindinger	1912; 1920	<i>Ephedra</i> L. sp.; <i>Osyris alba</i> L. / Dalmatia
49. <i>Diaspidiotus gigas</i> (Thiem & Gerneck)	Kozár	1977	<i>Salix</i> L. sp. / Continental part
50. <i>Diaspidiotus labiatarum</i> (Marchal)	Balachowsky	1950	<i>Prasium matius</i> L.; <i>Sedum</i> L. sp.; <i>Teucrium</i> L. sp. / Dalmatia
51. <i>Diaspidiotus lenticularis</i> (Lindinger)	Leonardi; Lindinger; Masten	1912; 1920; 2006; 2007	<i>Aesculus hippocastanum</i> L.; <i>Euphorbia wulfenii</i> L.; <i>Olea europaea</i> L.; <i>Pistacia lentiscus</i> L.; <i>Rhamnus cataracta</i> L. / Continental part;

52. <i>Diaspidiotus ostreaeformis</i> (Curtis)	Milek Kozár; Masten Milek	1981; 2006	Dalmatia	<i>Cydonia oblonga</i> Mill.; <i>Prunus domestica</i> L.; <i>Ulmus procera</i> L. / Continental part; Istria		
53. <i>Diaspidiotus perniciosus</i> (Comstock)	Kozár; Masten Milek	1977; 2006; 2007		<i>Cerasus avium</i> L.; <i>Crataegus</i> L. sp.; <i>Malus domestica</i> Miller; <i>Prunus armeniaca</i> L.; <i>Prunus</i> L. sp.; <i>Pyrus communis</i> L.; <i>Ribes nigrum</i> L. / Continental part; Istria; Dalmatia		
54. <i>Diaspidiotus pyri</i> (Lichtenstein)	Masten Milek	2006		<i>Pyrus pyrausta</i> Burgsd. / Continental part; Istria		
55. <i>Diaspidiotus zoniatus</i> (Frauenfeld)	Balachowsky; Schmidt	1946; 1950		<i>Quercus perniciosa</i> L.; <i>Quercus pubescens</i> L. / Continental part; Dalmatia		
56. <i>Diaspis boisduvalii</i> Signoret	Masten Milek	2006.		<i>Ananas sativus</i> Mill. / Continental part*		
57. <i>Diaspis echinocacti</i> (Bouche)	Schmidt	1946; 1948; 1950		Aizoaceae; <i>Mammillaria Schwantes</i> sp.; <i>Opuntia</i> Miller sp. / Continental part*; Istria; Dalmatia		
58. <i>Diaspis syriaca</i> Lindinger	Schmidt	1953		<i>Pistacia lentiscus</i> L. / Dalmatia		
59. <i>Duplacionaspis berlesii</i> (Leonardi)	Lindinger	1912		<i>Asparagus acutifolius</i> L.; <i>Asparagus umbellatus</i> L. / Dalmatia		
60. <i>Dynaspidiotus abietis</i> (Schrank)	Masten Milek; Schmidt	1946; 2006; 2007		<i>Picea abies</i> (L) Karsten; <i>Picea pungens</i> Engelm; <i>Pinus</i> L. sp.; <i>Pinus nigra</i> L. / Continental part		
61. <i>Dynaspidiotus britannicus</i> (Newstead)	Lindinger; Mast Milek; Schmidt	1912; 1951; 1955; 2007		<i>Hedera helix</i> L.; <i>Laurus nobilis</i> L.; <i>Smilax aspera</i> L.; <i>Viburnum tinus</i> L. / Istria; Dalmatia		
62. <i>Epidiaspis ficifoliae</i> Hall	Langhoffer; Novak	1924; 1929		<i>Ficus carica</i> L. / Dalmatia		
63. <i>Epidiaspis gemmadii</i> (Leonardi)	Lindinger; Masten Milek	1912; 2006		<i>Pistacia</i> L. sp.; <i>Pistacia vera</i> L. / Istria; Dalmatia		
64. <i>Epidiaspis leperii</i> (Signoret)	Masten Milek	2006; 2007		<i>Malus domestica</i> Borkh.; <i>Olea europea</i> L.; <i>Prunus avium</i> L.; <i>Prunus domestica</i> L.; <i>Pyrus communis</i> L. / Continental part; Istria; Dalmatia		
65. <i>Fiorinia fioriniae</i> (Targioni Tozzetti)	Schmidt	1950		<i>Cycas revoluta</i> L. / Dalmatia		
66. <i>Gouaspidiotus minimus</i> (Leonardi in: Berlese & Leonardi)	Lindinger; Masten Milek	1912; 2006; 2007		<i>Quercus borealis</i> Michx.; <i>Quercus ilex</i> L.; <i>Quercus pubescens</i> Willd. / Istria; Dalmatia		
67. <i>Hemiberlesia lataniae</i> (Signoret)	Schmidt	1940		<i>Ficus carica</i> L. / Dalmatia		
68. <i>Hemiberlesia rapax</i> (Comstock)	Kovačević; Lindinger; Novak; Schmidt	1911; 1912; 1928; 1936; 1951; 1952		<i>Asparagus sprengeri</i> L.; <i>Elaeagnus pungens</i> Thunb; <i>Euonymus japonica</i> L.; <i>Myrtus communis</i> L.; <i>Olea europea</i> L. Istria; Dalmatia		
69. <i>Kuwanaspis pseudoleucaspis</i> (Kuwana)	Masten Milek	2007		<i>Bambusa Schreb</i> sp. / Istria		

70. <i>Lepidosaphes beckii</i> (Newman)	Masten Milek; PPI Card-file; Schmidt	1938; 1947; 1953; 1955; 2005	<i>Citrus aurantium</i> L.; <i>Citrus</i> L. sp.; <i>Citrus limonium</i> L.; <i>Polystichum fulcatum</i> Diels. / Continental part*; Istria; Dalmatia
71. <i>Lepidosaphes conchiformis</i> (Gmelin)	Leonardi; Masten Milek; Schmidt	1912; 1920; 1952; 1955; 1960; 2005; 2006; 2007	<i>Celtis australis</i> L.; <i>Ficus carica</i> L.; <i>Ulmus</i> L.sp. / Istria; Dalmatia
72. <i>Lepidosaphes flava</i> (Signoret)	Masten Milek	2007	<i>Olea europea</i> L. / Dalmatia
73. <i>Lepidosaphes gloverii</i> (Packard)	Schmidt	1951	<i>Citrus aurantium</i> L. / Istria
74. <i>Lepidosaphes juniperi</i> Lindinger	Masten Milek	2007	<i>Cupressus sempervirens</i> L.; <i>Thuja occidentalis</i> L. / Continental part; Istria
75. <i>Lepidosaphes newsteadi</i> (Šulc)	Masten Milek	2007	<i>Pinus nigra</i> L. / Conetinental part
76. <i>Lepidosaphes ulmi</i> (Linnaeus)	Kozár; Lindinger; Masten Milek; Žak-Ogaza	1912; 1965; 1977; 2006, 2007	<i>Clematis</i> L. sp.; <i>Fagus silvatica</i> L.; <i>Malus domestica</i> Borkh.; <i>Parthenocissus quinquefolia</i> (L) Planchon (<i>Hedera quinquefolia</i> L.); <i>Pistacia lentiscus</i> L.; <i>Populus nigra</i> L.; <i>Prunus armeniaca</i> L.; <i>Salix alba</i> L.; <i>Spartium junceum</i> L. / Continental part; Istria; Dalmatia
77. <i>Leucaspis lowi</i> Colvée	Leonardi; Lindinger; Masten Milek; Schmidt; Žak-Ogaza	1912; 1920; 1946; 1951; 1953; 1954; 1965; 2007	<i>Pinus</i> L. sp.; <i>Pinus nigra</i> Arnold. / Continental part; Istria; Dalmatia
78. <i>Leucaspis pini</i> (Hartig)	Lindinger; Schmidt	1911; 1948; 1950; 1951; 1954; 1961	<i>Pinus pinaster</i> L.; <i>Pinus strobus</i> L.; <i>Pinus</i> L.sp.; <i>Pinus maritima</i> L.; <i>Pinus nigra</i> Arnold; <i>Pinus strobus</i> L. / Istria
79. <i>Leucaspis pusilla</i> Löw	Kozár; Lindinger; Masten Milek; PPI Card-file; Schmidt; Žak-Ogaza	1905; 1911; 1912; 1937; 1954; 1965; 1981; 1983; 2005; 2006; 2007	<i>Picea abies</i> (L) Karsten; <i>Pinus halepensis</i> Mill.; <i>Pinus</i> L. sp.; <i>Pinus mugo</i> Turra; <i>Pinus nigra</i> Arnold; <i>Pinus pinaster</i> L.; <i>Pinus pinea</i> L.; <i>Pinus radiata</i> L.; <i>Pinus sitvestris</i> L.; <i>Pinus walshoensis</i> L. / Continental part; Istria; Dalmatia
80. <i>Leucaspis riccae</i> Targioni Tozzetti	Leonardi; Lindinger; Schmidt	1912; 1920; 1953	<i>Ephedra</i> L. sp.; <i>Olea europea</i> L. / Dalmatia
81. <i>Odonaspis secreta</i> (Cockerell)	Lindinger	1912	<i>Bambusa Schreb</i> sp. / Istria; Dalmatia
82. <i>Parlatoria oleae</i> (Colvée)	Masten Milek	2006; 2007	<i>Cerastis vulgaris</i> L.; <i>Malus sylvestris</i> (L) Mill. / Dalmatia
83. <i>Parlatoria parlatoriae</i> (Šulc)	Kovačević	1937	<i>Picea pungens</i> A. Dietch. / Continental part
84. <i>Parlatoria ziziphii</i> (Lucas)	Masten Milek; Schmidt	1950; 2006	<i>Citrus aurantium</i> L.; <i>Citrus limonium</i> L. / Dalmatia

85. <i>Pinnaspis aspidistrae aspidistrae</i> (Signoret)	Masten Milek	2006	Aspidistra elatior Blume / Continental part*
86. <i>Pinnaspis strachani</i> (Cooley)	Masten Milek	2006	<i>Aspidistra elatior</i> Blume; <i>Dracaena</i> Vand ex L.sp.; <i>Rhapitis</i> Loursp. / Continental part*; Dalmatia*
87. <i>Prodaspis tamaricicola</i> (Malenotti)	Žak-Ogaza	1966	<i>Tamarix</i> L. sp. / Dalmatia
88. <i>Pseudaulacaspis pentagona</i> (Targioni Tozzetti)	Masten Milek; Schmidt; Žak-Ogaza	1951; 1955; 1956; 1966; 2005; 2006; 2007	<i>Actinidia chinensis</i> Planch.; <i>Catalpa bignonioides</i> Walter; <i>Jasminum officinale</i> L.; <i>Morus alba</i> L.; <i>Olea europaea</i> L.; <i>Persica vulgaris</i> L.; <i>Pinus strobus</i> L.; <i>Populus</i> L. sp.; <i>Robinia pseudoacacia</i> L.; <i>Siringa vulgaris</i> L.; <i>Sophora japonica</i> L. / Continental part; Istria; Dalmatia
89. <i>Rhizaspidiobius donacis</i> (Leonardi)	Balachowsky	1951	<i>Arundo donax</i> L. / Dalmatia
90. <i>Targionia nigra</i> (Signoret)	Balachowsky; Lindinger	1912; 1951	<i>Helichrisum italicum</i> Miller / Dalmatia
91. <i>Targionia vitis</i> (Signoret)	Kovačević; Masten Milek; Žak-Ogaza	1952; 1965; 2007	<i>Arbutus unedo</i> L.; <i>Quercus ilex</i> L.; <i>Quercus</i> L. sp.; <i>Quercus pubescens</i> Willard / Dalmatia
92. <i>Unaspis euonymi</i> (Comstock)	Kozár; Masten Milek; Schmidt	1949; 1951; 1955; 1956; 1963; 1970; 1971; 1977; 2005; 2006; 2007	<i>Cornus mas</i> L.; <i>Euonymus europaea</i> L.; <i>Euonymus japonicus</i> Lf; <i>Euonymus latifolia</i> L.; <i>Viscum album</i> L. / Continental part; Istria; Dalmatia

Fam. ERIOCOCCIDAE	AUTHOR	YEAR	HOST / DISTRIBUTION
93. <i>Cryptococcus fagisuga</i> Lindinger	Kozár; Schmidt	1945; 1981	<i>Fagus sylvatica</i> L. / Continental part
94. <i>Eriococcus aceris</i> (Signoret)	Kozár; Masten Milek	1977; 2007	<i>Acer campestre</i> L.; <i>Acer</i> L. sp. / Continental part; Istria
95. <i>Eriococcus araucarianae</i> Maskell	Schmidt	1948	<i>Araucaria excelsa</i> Aiton / Continental part*
96. <i>Eriococcus coccineus</i> Cockerell	Schmidt	1947	<i>Mammillaria</i> F Reichbsp.; <i>Opuntia</i> Miller sp. / Dalmatia
97. <i>Eriococcus cymodontis</i> Kiritchenko	Žak-Ogaza	1966	<i>Cymodon dactylon</i> L. / Dalmatia
98. <i>Eriococcus spurius</i> (Modeer)	Kozár; Masten Milek	1981; 2007	<i>Ulmus minor</i> Miller / Istria; Dalmatia
99. <i>Pseudochermes fraxini</i> (Kaltenbach)	Schmidt	1946; 1950	<i>Fraxinus</i> L. sp. / Continental part

Fam. KERMESIDAE	AUTHOR	YEAR	HOST / DISTRIBUTION
100. <i>Kermes roboris</i> (Fourcroy)	Langhoffer; Schmidt	1925; 1945	<i>Quercus robur</i> L. / Continental part
101. <i>Kermes quercus</i> (Linnaeus)	Langhoffer; Schmidt	1900; 1925; 1952; 1955	<i>Quercus robur</i> L. / Continental part

Fam. LECANODIASPIDIDAE	AUTHOR	YEAR	HOST / DISTRIBUTION
102. <i>Lecanodiaspis sardoni</i> Tagioni Tozzetti	Lindiger	1912	<i>Cistus</i> L. sp. / Dalmatia
Fam. MARGARODIDAE	AUTOR	YEAR	HOST / DISTRIBUTION
103. <i>Gueriniella serratulae</i> (Fabricius)	Schmidt	1951	<i>Citrus aurantium</i> L. / Istria
104. <i>Icerya purchasi purchasi</i> Maskell	Masten Milek; PPI Card file; Schmidt; Žak-Ogaza	1951; 1952; 1960; 1963; 1964; 1965; 1969; 2005; 2006; 2007	<i>Acacia dealbata</i> Link; <i>Citrus aurantium</i> L.; <i>Citrus limonium</i> L.; <i>Citrus paradisi</i> Macfad; <i>Citrus deliciosa</i> Ten.; <i>Nerium oleander</i> L.; <i>Pittosporum tobira</i> Ait; <i>Rosmarinus officinalis</i> L.; <i>Spartium junceum</i> L. / Continental part*; Istria; Dalmatia
Fam. MICROCOCCIDAE	AUTHOR	YEAR	HOST / DISTRIBUTION
105. <i>Micrococcus similis</i> Leonardti	PPI Card-file	1938	<i>Triticum vulgare</i> L. / Continental part
Fam. ORTHEZIDAE	AUTHOR	YEAR	HOST / DISTRIBUTION
106. <i>Arctorthesia cataphracta</i> (Olafsen)	Kozár	1981	<i>Musci</i> sp. / Istria
107. <i>Insignorthesia insignis</i> (Browne)	Kovačević; Schmidt; Masten Milek	1936; 1950; 2007	<i>Coleus</i> Lour. sp.; <i>Verbena</i> L. sp. / Continental part; Dalmatia*
108. <i>Newstendia floccosa</i> (De Geer)	Schmidt	1947	<i>Cyperus alternifolius</i> L. / Continental part*
109. <i>Orthezia urticae</i> (Linnaeus)	Kozár; Schmidt; Žak-Ogaza	1940; 1965; 1966; 1977	<i>Plantago</i> L. sp.; <i>Urtica dioica</i> L.; <i>Urtica</i> L. sp. / Continental part; Dalmatia
Fam. PSEUDOCOCCIDAE	AUTHOR	YEAR	HOST / DISTRIBUTION
110. <i>Antonina cravi</i> Cockerell	Masten Milek	2007	<i>Bambusa</i> Schreb sp. / Continental part
111. <i>Antonina purpurea</i> Sigmoret	Kozár; Pellizzari	1981; 1999	<i>Agropyron</i> Gearth sp.; Graminae / Istria; Dalmatia
112. <i>Chaetococcus phragmitis</i> (Marchal)	Masten Milek	2006	<i>Phragmites australis</i> (Cav) Steudel / Dalmatia
113. <i>Coccurea comari</i> (Kunow)	Kozár; Lindinger	1912; 1977	<i>Rubus</i> sp. L. / Dalmatia
114. <i>Dysnitococcus brevipes</i> (Cockereil)	Masten Milek	2006	<i>Ananas sativus</i> Miller / Continental part*
115. <i>Nipaeococcus delassusi</i> (Balachowsky)	Masten Milek	2006	<i>Erica arborea</i> L. / Dalmatia
116. <i>Nipaeococcus nipae</i> (Maskell)	PPI-Card file	1939; 1942	Areaceae; <i>Nathanium</i> sp. / Continental part*

117. <i>Phenacoccus aceris</i> (Signoret)	Kovačević; Masten Milek; Radosavljević; Schmidt	1922; 1952; 1954; 2006	<i>Acer</i> sp. L.; <i>Castanea vesca</i> Miller; <i>Hedera helix</i> L.; <i>Malius domestica</i> Borkh. / Continental part; Istria; Dalmatia
118. <i>Phenacoccus interruptus</i> Green	Žak-Ogaza	1965	Graminae / Dalmatia
119. <i>Phenacoccus parietariae</i> (Lichtenstein)	Lindinger	1912	<i>Parietaria officinalis</i> L. / Dalmatia
120. <i>Phenacoccus piceae</i> (Low)	Kozár; Masten Milek	1977; 2007	<i>Picea abies</i> L. (Karsten) / Continental part
121. <i>Planococcus citri</i> (Risso)	Masten Milek	2005; 2006	<i>Alocasia</i> (Schott) G Don f sp.; <i>Beaucarnea</i> L. sp.; <i>Brunfelsia americana</i> L.; <i>Codiaeum variegatum</i> (L) Blume; <i>Codiaeum variegatum pictum</i> (Lodd) Muell. Arg; <i>Ficus</i> L. sp.; <i>Ficus macrophylla</i> Desf Ex Pers; <i>Ficus microcarpa</i> Lf; <i>Ficus rubiginosa</i> Desf Ex Vent; <i>Fragaria vesca</i> L.; <i>Impatiens glandulifera</i> Royle; <i>Metrosideros</i> Banks ex Gaertner sp.; <i>Parthenocissus</i> Planchon sp.; <i>Pelargonium</i> L. Herit sp.; <i>Rhododendron</i> L. sp.; <i>Solanum tuberosum</i> L.; <i>Stephanotis floribunda</i> (RBr) Brongn (Stephanotis jasminoides hort) / Continental part*; Istria*; Dalmatia*
122. <i>Planococcus ficus</i> (Signoret)	Langhoffer; Masten Milek; Novak	1925; 1929; 2006	<i>Ficus carica</i> L.; <i>Vitis vinifera</i> L. / Continental part; Istria; Dalmatia
123. <i>Planococcus vovae</i> (Nasonov)	Masten Milek	2006; 2007	<i>Juniperus oxycedrus</i> L.; <i>Juniperus sabina</i> L. / Continental part; Dalmatia
124. <i>Pseudococcus calceolariae</i> (Maskell)	Masten Milek	2006; 2007	<i>Nerium oleander</i> L.; <i>Pittosporum tobira</i> Aiton / Istria; Dalmatia
125. <i>Pseudococcus comstocki</i> (Kuwana)	Žak-Ogaza	1965	<i>Pittosporum tobira</i> Aiton / Dalmatia
126. <i>Pseudococcus longispinus</i> (Targioni Tozzetti)	Masten Milek	2005; 2006; 2007	<i>Beaucarnea recurvata</i> Lem; <i>Callistemon</i> R Br sp.; <i>Carrissa</i> L. sp.; <i>Cissus</i> L. sp.; <i>Citrus aurantium</i> L.; <i>Citrus limonium</i> L.; <i>Citrus deliciosa</i> Ten.; <i>Cycas revoluta</i> Thunb.; <i>Dieffenbachia maculata</i> (Lodd) G Donf; <i>Dracaena</i> Vand ex L. sp.; <i>Ficus carica</i> L.; <i>Ficus elastica</i> Roxb; <i>Metrosideros</i> Banks ex Gaertner sp.; <i>Nerium oleander</i> L.; <i>Phalaenopsis</i> L. sp.; <i>Pittosporum tobira</i> Aiton / Continental part*; Istria;

127. <i>Pseudococcus viburni</i> (Signoret)	Masten Milek	2006; 2007	<i>Crassula</i> L. sp.; <i>Crassula argentea</i> L.; <i>Cycas revoluta</i> Thunb.; <i>Dieffenbachia maculata</i> Lodd; <i>Hoya carnososa</i> Lf; <i>Hoya</i> Lf sp.; <i>Kalanchoa</i> Adans sp.; <i>Kalanchoe crenata</i> (Andr) Haw (<i>Kalanchoe hirta</i> Haw); <i>Laurus nobilis</i> L. / Continental part*; Istria
128. <i>Puto pilosellae</i> (Šulc)	Kozár	1981	<i>Thymus pannonicum</i> L. / Istria
129. <i>Puto superbus</i> (Leonardi)	Žak-Ogaza	1965	Graminae / Dalmatia
130. <i>Trionymus aberrans</i> Goux	Žak-Ogaza	1965	<i>Agropyrum intermedium</i> Roemer & Schultes / Dalmatia
131. <i>Trionymus newsteadii</i> (Green)	Kozár	1977	<i>Fagus sylvatica</i> L. / Continental part
132. <i>Trionymus radicum</i> (Newstead)	Kozár	1981	<i>Heliotricha pratensis</i> / Istria

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References

- Balachowsky, A.S. 1948. Les cochenilles de France, d'Europe, du nord de l'Afrique et du bassin Méditerranéen. IV. Monographie des Coccoidea classification - Diaspidinae (première partie). Act. Sci. Indust. 1054:243-394.
- Balachowsky, A.S. 1950. Les cochenilles de France, d'Europe, du nord de l'Afrique et du bassin Méditerranéen. V. Monographie des Coccoidea classification - Diaspidinae (deuxième partie) Aspidiotini. Act. Sci. Indust. 1087:398-557.
- Balachowsky, A.S. 1951. Les cochenilles de France, d'Europe, du nord de l'Afrique et du bassin Méditerranéen. VI. Monographie des Coccoidea classification - Diaspidinae (troisième partie) Aspidiotini (fin). Act. Sci. Indust. 1127:560-720.
- Balachowsky, A.S. 1953. Les cochenilles de France, d'Europe, du nord de l'Afrique et du bassin méditerranéen VII. Monographie des Coccoidea Diaspidinae IV, Odonaspidini-Parlatorini. Actualités Sci. Indus. Ent. Appl. 1202:725-929.
- Balachowsky, A.S. 1954. Les cochenilles paléarctique de la tribu des Diaspidini. Mem. Inst. Pasteur Sci.: 450 pp.
- Kozár, F. 1983. New and little-known scale-insect species from Yugoslavia (Homoptera: Coccoidea). Acta Zool. Acad. Sci. Hungaricae 29:139-149.
- Langhoffer, A. 1899. U šumama štetni kukci Hrvatske i Slavonije - Šumarski list 5:225-240.
- Langhoffer, A. 1912a. Štetni kukci u gospodarstvu Hrvatske. Gospodarska smotra- Svezak 6:161-168.
- Langhoffer, A. 1912b. Štetni kukci u gospodarstvu Hrvatske. Gospodarska smotra- Svezak 9:257-268.
- Leonardi, G. 1920. Monografia delle cocciniglie Italiane, Della Torre, Portici: 555 pp.
- Lindinger, L. 1912. Die Schildläuse (Coccidae) Europas, Nordafrikas und Vorder-Asiens, einschliesslich der Azoren, der Kanaren und Madeiras. E. Ulmer, Stuttgart: 388 pp.
- Masten, T. & Seljak, G. 2006. *Neopulvinaria innumerabilis* (Rathvon) (Hemiptera): Coccoidea, Coccidae) nova štetna vrsta na vinovoj lozi u Hrvatskoj. Glasilo biljne zaštite 6:318-322.
- Masten, T. 2007. Štitaste uši na vinovoj lozi u 2006. i pojava druge generacije u nekih vrsta. Glasilo biljne zaštite 1:33-38.
- Masten Milek, T., Seljak, G. & Šimala, M. 2007.a *Ceroplastes japonicus* (Green, 1921) (Hemiptera: Coccoidea: Coccidae) as new pest in Croatia and its distribution. Zbornik predavanjin in referatov 8. slovenskega posvetovanja o varstvu rastlin, Radenci 6. - 7. Marec, 2007., Ljubljana, 2007:330-334.
- Masten Milek, T., Šimala, M., Koriæ, B. & Bjeliš, M. 2007.b Status of scale insects (Coccoidea), family Coccidae on grapes in 2006. in Croatia with emphasis on rarity of second generation of *Parthenolecanium corni* (Bouché) and *Parthenolecanium persicae* (Fabricius). Zbornik predavanjin in referatov 8. slovenskega posvetovanja o varstvu rastlin, Radenci 6. - 7. Marec, 2007., Ljubljana, 2007:326-329.
- Novak, P. 1928a. Štetni insekti u Dalmaciji. Glasnik Hrvatskog prirodoslovnog društva XXXIX i XL, Zagreb:109-134.
- Novak, P. 1928b. Štetnici masline. Drž. i poljoprivredna ogledna i kontrolna stanica u Splitu: 60 pp.

- Novak, P. 1940. Gli insetti dannosi in Dalmazia. Estratto dal bollettino della soc. Adriatica di scienze naturali Trieste. Volume XXXVIII: 38 pp.
- Pellizzari, G. & Fontana, P. 1999. A study on the life history of *Lecanopsis clodiensis* (Pellizzari) N. Comb. (Hemiptera: Coccoidea: Coccidae). Entomologica 33:323-333.
- Pellizzari, G. & Fontana, P. 2001. The genus *Lecanopsis* Targioni Tozzetti (Hemiptera, Coccidae): present status and remarks on species identification. Boll. Zool. agr. Bachic. Ser. II 33(3):179-187.
- Radosavljeviæ, D. 1923. Bolesti i štetoèine kulturnih biljaka u 1922 g. na teritoriju Kraljevine SHS. Glasnik Ministarstva poljoprivrede i voda Kraljevine Srba, Hrvata i Slovenaca. Sveska 1:93-117.
- Schmit, L. 1956. Štitaste uši Hrvatske. Zaštita bilja 36:5-11.
- Schmit, L. 1973. Štitaste i lisne uši na ukrasnom bilju Opatije i Rijeke. Poljoprivredna znanstvena smotra 30(40):439-453.
- Velimiroviæ, V.F. 1985. Štitaste uši (Coccoidea) na agrumima u južnom dijelu Crne Gore s posebnim osvrtom na *Coccus pseudomagnoliarum* Kuwana, 1914. Doktorska dizertacija. Fakultet poljoprivrednih znanosti-Zagreb:1-214.
- Žak-Ogaza, B. 1967. Materials to the knowledge of the scale insects fauna of Yugoslavia (Homoptera, Coccoidea). Acta Zool. Cracov. 9:211-218.