

Checklist of the Bulgarian Bruchinae (Coleoptera: Chrysomelidae)

ANELIA STOJANOVA¹, ZOLTÁN GYÖRGY²

¹Department of Zoology, University of Plovdiv, 24 Tsar Asen Str., 4000 Plovdiv, Bulgaria, stanelia@uni-plovdiv.bg

²Department of Zoology, Hungarian Natural History Museum, Baross utca 13, H-1088 Budapest, Hungary, gyorgy@nhmus.hu

Abstract. Checklist of Bulgarian Bruchinae (Coleoptera: Chrysomelidae) based on published data till 2011 is presented. Eighty-five species belonging to nine genera are listed.

Key words: Bruchinae, Coleoptera, Bulgaria, checklist.

Introduction

The seed-beetles (subfamily Bruchinae) are recently placed in the family Chrysomelidae (Coleoptera), though they have been treated as a separate family for a long time.

The subfamily has a worldwide distribution, with the highest species diversity in tropical and subtropical zones (Borowiec 1987a). Bruchines are of a great economic importance, because several species are serious agricultural and stored products pests. A great majority of the known species feed in their larval stage on pods and seeds of Fabaceae; only about 15% of seed-beetles develop in fruits of plants of other 32 families (Lukjanovitch & Ter-Minassian 1957; Borowiec 1987a; Delobel & Delobel 2007).

The first data on Bulgarian Bruchinae, mostly agricultural pests, could be found in entomological journals, annual reports and bulletins from the beginning of the 20th century, most of which are cited by Buresh & Lazarov (1956). More intensive investigations on taxonomy and biology of Bulgarian seed-beetles were carried out in the recent 50 years (Popov 1968; Borowiec 1980, 1983, 1984, 1986, 1987b; Wendt 1984; Decelle & Lodos 1989; Borowiec & Anton 1993; Delobel & Delobel 2007). Staneva (1982), Chochev (1988), Chochev & Chochev (1991), Stojanova (2007, 2010), Tomov *et al.* (2007), Guéorguiev (2001), Guéorguiev & Ljubomirov (2009) also contributed to this knowledge with some regional studies.

Material and Methods

The published information on Bruchinae of Bulgarian fauna till 2011 is summarized. The checklist comprises the following data: valid taxa name, published records, synonyms in records. Valid names are given according to Anton (2010) and Fauna Europaea (Audisio 2004).

Checklist of Bulgarian Bruchinae

The checklist presents 85 species belonging to nine genera.

Chrysomelidae Latreille, 1802

Subfamily **Bruchinae** Latreille, 1802

Tribe **Amblycerini** Bridwell, 1932

Subtribe **Spermophagina** Borowiec, 1987

Spermophagus Schönherr, 1833

- S. calystegiae** (Lukjanovitsh et Ter-Minassian, 1957): Borowiec (1983, 1987b), Decelle (1983), Delobel & Delobel (2007), Anton (2010)
- S. confusus** Borowiec, 1986: Borowiec (1986, 1987b), Decelle & Lodos (1989), Delobel & Delobel (2007), Anton (2010)
- S. kuesteri** (Schilsky, 1905): Popov (1968), Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Chochev & Chochev (1991), Borowiec & Anton (1993), Delobel & Delobel (2007), Gueorguiev & Ljubomirov (2009), Anton (2010)
- S. sericeus** (Geoffroy, 1785): Popov (1968), Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Chochev & Chochev (1991), Guéorguiev (2001), Delobel & Delobel (2007), Anton (2010)
- S. variolosopunctatus** Gyllenhal, 1833: Borowiec (1983, 1986), Decelle (1983), Wendt (1984)

Zabrotes Horn, 1885

- Z. subfasciatus** (Boheman, 1833): Anton (2010)

Tribe **Bruchini** Latreille, 1802

Subtribe **Acanthoscelidina** Bridwell, 1946

Acanthoscelides Schilsky, 1905

- A. obtectus** (Say, 1831): Stanev (1958), Popov (1968), Wendt (1984), Borowiec (1983, 1987b), Tomov *et al.* (2007), Delobel & Delobel (2007), Anton (2010)
- A. pallidipennis** (Motschoulski, 1874): Decelle (1979), Borowiec (1980, 1983, 1987b), Wendt (1981, 1984), Borowiec & Anton (1993), Delobel & Delobel (2007), Anton (2010)

Bruchidius Schilsky, 1905

- Br. annulicornis** Allard, 1868: Anton (2010)
- Br. astragali** (Boheman, 1829): Delobel & Delobel (2007), Anton (2010)
- Br. biguttatus** (Olivier, 1795): Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Delobel & Delobel (2007), Anton (2010)
- Br. bimaculatus** (Olivier, 1795): Markovitch (1909: as *Bruchus variegates*), Popov (1968), Borowiec (1983, 1987b), Wendt (1984), Chochev & Chochev (1991), Borowiec & Anton (1993), Guéorguiev (2001), Delobel & Delobel (2007), Anton (2010)
- Br. borowieci** (Anton, 1998): Delobel & Delobel (2007), Anton (2010)
- Br. calabrensis** Blanchard, 1844: Anton (2010)
- Br. canescens** Motschulsky, 1874: Anton (2010)
- Br. caninus** (Kraatz, 1869): Wendt (1984), Borowiec (1987b), Delobel & Delobel (2007), Anton (2010)
- Br. canus** (Germar, 1824): Borowiec (1987b), Borowiec & Anton (1993)
- Br. cinerascens** (Gyllenhal, 1833): Borowiec (1983, 1987b), Wendt (1984), Delobel & Delobel (2007), Anton (2010)
- Br. cisti** (Fabricius, 1775): Wendt (1984), Borowiec (1987b), Chochev (1988), Chochev & Chochev (1991), Borowiec & Anton (1993), Delobel & Delobel (2007), Anton (2010)

- Br. corsicus** Baudi di Selve, 1890: Anton (2010)
- Br. dispar** (Gyllenhal, 1833): Popov (1968), Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Chochev & Chochev (1991), Guéorguiev (2001), Delobel & Delobel (2007), Anton (2010)
- Br. foveolatus** (Gyllenhal, 1833): Joakimov (1904), Borowiec (1983: as *Bruchidius grandicornis*; 1987b), Wendt (1984), Chochev (1988), Chochev & Chochev (1991), Borowiec & Anton (1993), Guéorguiev (2001), Delobel & Delobel (2007), Anton (2010)
- Br. holosericeus** (Schönherr, 1832): Popov (1968), Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Chochev & Chochev (1991), Delobel & Delobel (2007), Anton (2010)
- Br. imbricornis** (Panzer, 1795): Popov (1968), Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Delobel & Delobel (2007), Anton (2010)
- Br. lineatus** (Allard, 1868): Wendt (1984), Borowiec (1983, 1984, 1987b), Borowiec & Anton (1993), Delobel & Delobel (2007), Anton (2010)
- Br. lividimanus** Gyllenhal, 1833: Anton (2010)
- Br. lutescens** (Blanchard, 1844): Borowiec (1984, 1987b), Decelle & Lodos (1989), Borowiec & Anton (1993), Delobel & Delobel (2007), Anton (2010)
- Br. marginalis** (Fabricius, 1776): Delobel & Delobel (2007), Anton (2010)
- Br. martinezi** (Allard, 1868): Borowiec (1983, 1987b), Borowiec & Anton (1993)
- Br. mordelloides** (Baudi, 1886): Wendt (1984), Borowiec (1987b), Borowiec & Anton (1993), Delobel & Delobel (2007), Anton (2010)
- Br. mulsanti** (Brisout, 1863): Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Borowiec & Anton (1993), Delobel & Delobel (2007), Anton (2010)
- Br. murinus** (Boheman, 1829): Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Chochev & Chochev (1991), Borowiec & Anton (1993), Delobel & Delobel (2007), Anton (2010)
- Br. nanus** (Germar, 1824): Joakimov (1904), Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Delobel & Delobel (2007), Anton (2010)
- Br. nudus** (Allard, 1868): Borowiec (1983, 1987b), Wendt (1984), Delobel & Delobel (2007)
- Br. obscuripes** (Gyllenhal, 1839): Wendt (1984), Borowiec (1987b), Delobel & Delobel (2007), Anton (2010)
- Br. olivaceus** Germar, 1824: Anton (2010)
- Br. pauper** (Boheman, 1829): Wendt (1984), Borowiec (1987b), Delobel & Delobel (2007)
- Br. perparvulus** (Boheman, 1839): Wendt (1984), Guéorguiev (2001)
- Br. picipes** (Germar, 1824): Delobel & Delobel (2007), Anton (2010), Borowiec (1983: as *Bruchidius tarsalis*; 1987b)
- Br. poecilus** (Germar, 1824): Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Delobel & Delobel (2007), Anton (2010)
- Br. poupillieri** (Allard, 1868): Delobel & Delobel (2007), Anton (2010)
- Br. pusillus** (Germar, 1824): Borowiec (1987b), Borowiec & Anton (1993), Delobel & Delobel (2007), Anton (2010)
- Br. pygmaeus** (Boheman, 1833): Borowiec (1983, 1987b), Delobel & Delobel (2007), Anton (2010)
- Br. quinqueguttatus** (Olivier, 1795): Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Decelle & Lodos (1989), Borowiec & Anton (1993), Guéorguiev (2001), Delobel & Delobel (2007), Anton (2010)
- Br. seminarius** (Linnaeus, 1767): Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Chochev & Chochev (1991), Delobel & Delobel (2007), Anton (2010)
- Br. sericatus** (Germar, 1824): Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Delobel & Delobel (2007), Anton (2010)
- Br. siliquastris** Delobel, 2007: Stojanova *et al.* (2011)
- Br. stylophorus** (Daniel, 1904): Borowiec (1983), Wendt (1984), Chochev (1988)

- Br. terrenus** (Sharp, 1886): Stojanova (2010)
Br. trifollii (Motschulsky, 1874): Anton (2010)
Br. tuberculatus (Hochhut, 1847): Hoffmann (1945), Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Decelle & Lodos (1989), Borowiec & Anton (1993), Delobel & Delobel (2007), Anton (2010)
Br. unicolor Olivier, 1795: Delobel & Delobel (2007), Anton (2010)
Br. varipes (Boheman, 1839): Delobel & Delobel (2007), Anton (2010)
Br. varipictus Motschulsky, 1874: Borowiec (1987b), Anton (2010)
Br. varius (Olivier, 1795): Joakimov (1904), Wendt (1984), Borowiec (1983: as *Br. fulvicornis*; 1987b, also as *Br. fulvicornis*), Chochev (1988), Borowiec & Anton (1993), Delobel & Delobel (2007), Anton (2010)
Br. villosus (Fabricius, 1792): Popov (1968), Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Chochev & Chochev (1991), Borowiec & Anton (1993), Delobel & Delobel (2007), Anton (2010)
Br. virescens (Boheman, 1839): Popov (1968), Borowiec (1983)

Callosobruchus Pic, 1902

- C. chinensis** (Linnaeus, 1758): Tomov *et al.* (2007)
C. maculatus (Fabricius, 1775): Stanev (1958: as *Callosobruchus quadrimaculatus*), Staneva (1982), Egorov & Ter-Minassian (1983), Tomov *et al.* (2007)

Megabruchidius Borowiec, 1984

- M. tonkineus** (Pic, 1904): Stojanova (2007), Yus Ramos (2009)

Paleoacanthoscelides Borowiec, 1984

- P. gilvus** (Gyllenhal, 1839): Borowiec (1983: as *Acanthoscelides gilvus*; 1987b), Wendt (1984: as *Bruchidius gilvus*), Borowiec & Anton (1993), Delobel & Delobel (2007), Anton (2010)

Subtribe **Bruchina** Latreille, 1802

Bruchus Linnaeus, 1767

- B. affinis** Frölich, 1799: Wendt (1984), Borowiec (1983, 1987b), Chochev (1988), Chochev & Chochev (1991), Delobel & Delobel (2007), Anton (2010)
B. atomarius (Linnaeus, 1761): Markovitch (1909: as *Bruchus granarius*), Buresh & Lazarov (1956), Popov (1968), Borowiec (1983, 1987b), Wendt (1984), Chochev & Chochev (1991), Delobel & Delobel (2007), Anton (2010)
B. brachialis Fahraeus, 1839: Popov (1968), Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Delobel & Delobel (2007), Anton (2010)
B. emarginatus Allard, 1868: Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Chochev & Chochev (1991), Delobel & Delobel (2007), Anton (2010)
B. ervi Frölich, 1799: Audisio (2004)
B. griseomaculatus Gyllenhal, 1899: Audisio (2004)
B. hamatus Miller, 1881: Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Decelle & Lodos (1989), Delobel & Delobel (2007), Anton (2010)
B. laticollis Boheman, 1833: Joakimov (1904), Popov (1968), Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Delobel & Delobel (2007), Anton (2010)
B. lentis Frölich, 1799: Joakimov (1904), Markovitch (1909), Buresh & Lazarov (1956), Borowiec (1983, 1987b), Wendt (1984), Delobel & Delobel (2007), Anton (2010)
B. libanensis (Zampetti, 1993): Delobel & Delobel (2007), Anton (2001, 2010)
B. loti Paykull, 1800: Popov (1968), Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Chochev & Chochev (1991), Delobel & Delobel (2007), Anton (2010)

- B. luteicornis** Illiger, 1794: Buresh & Lazarov (1956), Popov (1968), Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Delobel & Delobel (2007), Anton (2010)
- B. occidentalis** Lukjanovitsh et Ter-Minassian, 1957: Delobel & Delobel (2007), Anton (2001, 2010)
- B. pisorum** (Linnaeus, 1758): Joakimov (1904: as *Bruchus pisi*), Markovitch (1909: as *Bruchus pisi*), Buresh & Lazarov (1956: as *Bruchus pisi*), Angelov (1960: as *Bruchus pisi*), Grigorov (1960: as *Bruchus pisi*), Popov (1968), Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Chochev & Chochev (1991), Borowiec & Anton (1993), Delobel & Delobel (2007), Anton (2010)
- B. popyllieri** (Allard, 1868): Anton (2001)
- B. rufimanus** Boheman, 1833: Buresh & Lazarov (1956), Popov (1968), Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Borowiec & Anton (1993), Delobel & Delobel (2007), Anton (2010)
- B. rufipes** Herbst, 1783: Joakimov (1904), Markovitch (1909), Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Chochev & Chochev (1991), Anton (2001, 2010)
- B. signaticornis** Gyllenhal, 1833: Wendt (1984), Borowiec (1987b), Delobel & Delobel (2007), Anton (2010)
- B. tristiculus** Fahraeus, 1833: Joakimov (1904), Popov (1968), Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Chochev & Chochev (1991), Delobel & Delobel (2007), Anton (2010)
- B. tristis** Boheman, 1833: Borowiec (1983, 1987b), Wendt (1984), Chochev (1988), Chochev & Chochev (1991), Delobel & Delobel (2007), Anton (2010)
- B. ulicis** Mulsant et Rey, 1858: Anton (2010)
- B. venustus** Fahraeus, 1839: Wendt (1984), Borowiec (1987b), Delobel & Delobel (2007), Anton (2001, 2010)
- B. viciae** Olivier, 1795: Popov (1968), Wendt (1984), Borowiec (1983, 1987b), Chochev (1988), Chochev & Chochev (1991), Borowiec & Anton (1993), Guéorguiev (2001), Delobel & Delobel (2007), Anton (2010)

Tribe **Pachymerini** Bridwell, 1929

Subtribe **Caryedontina** Bridwell, 1929

Caryedon Schönherr, 1823

C. germari Küster, 1845: Decelle & Lodos (1989), Anton (2010)

Acknowledgements: We are very thankful to G. J. Kergoat for his comments on the validity of *Bruchidius virescens*, to R. Yus Ramos, B. Chochev, B. Guéorguiev and T. Ljubomirov for providing valuable papers.

References

- Angelov, P. (1960) Etudes sur l'entomofaune du parc "Delassement et culture" (l'île au milieu de Maritza) pres de Plovdiv, avec quelques notes faunologiques. *Godishnik na muzeite v Plovdiv (Annual report of Museums in Plovdiv)*, III: 7-40 (In Bulgarian, Russian and French Summaries).
- Anton, K.-W. (2001) Bemerkungen zur faunistik und taxonomie mitteleuropäischer samenkäfer (Coleoptera: Bruchidae). *Folia entomologica Hungarica*, 62: 43-49.
- Anton, K.-W. (2010) Bruchinae, 339-353. In: Löbl, I. & Smetana, A. (Eds.), *Catalogue of Palaearctic Coleoptera, Volume 6, Chrysomeloidea*. Apollo Books, New York, pp. 339-353.

- Audisio, P. (2004) Fauna Europaea: Chrysomelidae. In: Fauna Europaea version 1.3. Available at: <http://www.faunaeur.org>. (Accessed on 15 May 2011).
- Borowiec, L. (1980) A new species of *Acanthoscelides* Schilsky from Bulgaria (Coleoptera, Bruchidae). *Polskie Pismo Entomologiczne*, 50: 167-170.
- Borowiec, L. (1983) Survey of seed-beetles of Bulgaria (Coleoptera, Bruchidae). *Polskie Pismo Entomologiczne*, 53: 107-127.
- Borowiec, L. (1984) The seed beetles from Turkey (Coleoptera, Bruchidae). *Polskie Pismo Entomologiczne*, 54: 295-301.
- Borowiec, L. (1986) The specific status of *Spermophagus variolosopunctatus* Gyllenhal, 1833 (Coleoptera, Bruchidae, Amblycerinae), with description of a new species. *Polskie Pismo Entomologiczne*, 56: 161-164.
- Borowiec, L. (1987a) The genera of seed-beetles (Coleoptera, Bruchidae). *Polskie Pismo Entomologiczne*, 57: 3-207.
- Borowiec, L. (1987b) The seed-beetles (Coleoptera, Bruchidae) of the Middle East. *Polskie Pismo Entomologiczne*, 57: 601-616.
- Borowiec, L. & Anton, K.-W. (1993) Materials to knowledge of seed beetles of the Mediterranean Subregion (Coleoptera, Bruchidae). *Annals of Upper Silesian Museum, Entomology*, 4: 99-152.
- Buresh, I. & Lazarov, A. (1956) *Pest insects for agriculture and forestry in Bulgaria*. Sofia, Bulgarian Academy of Science, 291 pp. (In Bulgarian).
- Chochev, B. F. (1988) To the fauna of Bruchidae (Coleoptera) of Strandja mountain and of the Southern part of Bulgarian sea area. *Travaux scientifiques Universite de Plovdiv "Paisii Hilendarski", Biologie*, 26 (6): 209-216 (In Bulgarian, English Summary).
- Chochev, B. F. & Chochev, B. R. (1991) To the knowledge of Bruchidae (Coleoptera) of the Ludogorie subregion in North Bulgaria. *Travaux scientifiques Universite de Plovdiv "Paisii Hilendarski", Biologie*, 29 (6): 55-58 (In Bulgarian, English Summary).
- Decelle, J. (1979) Un Bruchide nord-americain, *Acanthoscelides seminulum* (Horn), en voie d'indigenation en Europe centrale et meridionale. *Bulletin et Annales de la Société royale belge d'Entomologie*, 115: 28.
- Decelle, J. (1983) Le genre *Spermophagus* Schonherr en Europe occidentale. *Bulletin de la entomologique de France*, 88: 235-241.
- Decelle, J. & Lodos, N. (1989) Contribution to the knowledge of the legume weevils of Turkey (Coleoptera: Bruchidae). *Bulletin et Annales de la Société royale belge d'Entomologie*, 125: 163-212.
- Delobel, A. & Delobel, B. (2007) Contribution to the knowledge of the Bulgarian seed beetles (Coleoptera: Bruchidae). *Russian Entomological Journal*, 16 (2): 213-218.
- Egorov, A. & Ter-Minassian, M. (1983) *Zhuki zernovki Vostochnoy Sibiri I Dalnego Vostoka SSSR (Seed beetles of Eastern Siberia and Far East of SSSR)*. Vladivostok, Academy of Science SSSR, 61 pp. (In Russian).
- Grigorov, St. (1960) Apport a la Biologie du *Bruchus pisi* L. *Wissenschaftliche arbeiten Landwirtschaftliche Hochschule "G. Dimitroff", Agronomische fakultat - Sofia*, VIII: 357-364. (In Bulgarian).
- Guéorguiev, B. (2001). Beetles (Insecta: Coleoptera) in Kresna Gorge (SW Bulgaria). – In: Beron, P. (Ed.), *Biodiversity of the Kresna Gorge*. National Museum of Natural History. Sofia, 163-188. (In Bulgarian, English Summary).
- Guéorguiev, B. & Ljubomirov, T. (2009) Coleoptera and Hymenoptera (Insecta) from the Bulgarian section of Maleshevska Planina Mountain: study of an until recently unknown biodiversity. *Acta zoologica bulgarica*, 61 (3): 235-276.
- Hoffmann, A. (1945) *Coléoptères Bruchides et Anthribides. Faune de France 44*. Lechevalier, Paris, 184 pp.

- Joakimov, D. (1904) Prinosa kam Balgarskata fauna na nasekomite – Insecta. I. Coleoptera. Tvardokrili. Brambari (Contribution to the Bulgarian insect fauna - Insecta. I. Coleoptera). *Sbornik za narodni umotvoreniya, nauka i knizhnina (Collection of works of the popular spirit, science and letters)*, 20 (9): 1-45. (In Bulgarian).
- Lukjanovitch, F. & Ter-Minassian, M. (1957) *Fauna SSSR. Zhestkokrylye. Zhuki-zernovki (Bruchidae) (Fauna SSSR. Coleoptera. Seed beetles (Bruchidae), 24, 1. Academy of Science SSSR, Moscow-Leningrad, 209 pp. (In Russian).*
- Markovitch, A. (1909) Prinosa za nasekomnata fauna v Razgradskata okolnost (Contribution to the insect fauna in Razgrad region). *Sbornik za narodni umotvoreniya, nauka i knizhnina (Collection of works of the popular spirit, science and letters)*, 25 (7): 1-20. (In Bulgarian).
- Popov, Tz. (1968) Les recherches sur les bruches (Bruchidae) en Bulgarie. *Annuaire de l'Universite de Biologie*, 1965/66, 60 (1): 1-14. (In Bulgarian).
- Stanev, M. (1958) Der bohnenkäfer (*Acanthoscelides obtectus* Say) und der vogelbohnenkäfer (*Callosobruchus quadrimaculatus* F.) als schädlinge der hülsenfruchte in Bulgarien und deren bekämpfung. *Scientific works, Ministry of Agriculture and Forest, Plant protection institute - Sofia*, 1: 191-257. (In Bulgarian).
- Staneva, E. (1982) A study of bean seed beetle *Callosobruchus maculatus* F. (Coleoptera, Bruchidae) nutrient plants. *Plant science*, 9 (4): 111-119. (In Bulgarian).
- Stojanova, A. (2007) *Megabruchidius tonkineus* (Pic, 1904) (Chrysomelidae: Bruchinae), a new seed beetle to the Bulgarian fauna. *Acta zoologica bulgarica*, 59 (1): 109-110.
- Stojanova, A. (2010) Seed beetle *Bruchidius terrenus* (Sharp) (Coleoptera: Chrysomelidae: Bruchinae) - new invasive species to the Bulgarian fauna. *Biotechnology and Biotechnological Equipment, Special Edition*, 24 (2): 646-647.
- Stojanova, A., György, Z. & László, Z. (2011) A new seed beetle species to the Bulgarian fauna: *Bruchidius siliquastris* Delobel (Coleoptera: Chrysomelidae: Bruchinae). *Ecologia Balkanica*, 3 (1): 117-119.
- Tomov, R., Trencheva, K., Trenchev, G. & Kenis, M. (2007) A review of the non-indigenous insect of Bulgaria. *Plant science*, 44: 199-204.
- Yus Ramos, R. (2009) Revisión del género *Megabruchidius* Borowiec, 1984 (Coleoptera: Bruchidae) y nuevas citas para Europa. *Boletín de la Sociedad Entomológica Aragonesa*, 45: 371-382.
- Wendt, H. (1981) Eine für Südost-Europa neue Sämenkäfer-Art (Coleoptera: Bruchidae). *Folia Entomologica Hungarica*, 42: 223-226.
- Wendt, H. (1984) Zur Kenntnis der Bruchidenfauna Bulgariens (Col. Phytophaga). *Deutsche Entomologische Zeitschrift*, 31 (1-3): 153-167.