

See discussions, stats, and author profiles for this publication at: <https://www.researchgate.net/publication/371178810>

Taxonomy of *Agapanthia boeberi* (Fischer von Waldheim, 1806) (Coleoptera: Cerambycidae)

Article in *Munis Entomology and Zoology Journal* · June 2023

DOI: 10.5281/zenodo.7993359

CITATION

1

READS

155

1 author:



[Maxim Lazarev](#)

Free Economic Society of Russia

70 PUBLICATIONS 164 CITATIONS

[SEE PROFILE](#)

TAXONOMY OF *AGAPANTHIA BOEBERI* (FISCHER VON WALDHEIM, 1806) (COLEOPTERA: CERAMBYCIDAE)

| Maxim A. Lazarev* |

* Free Economic Society of Russia, Department of Scientifics Conferences and All-Russian Projects, Tverskaya Str. 22a, Moscow 125009 RUSSIA. E-mails: cerambycidae@bk.ru, humanityspace@gmail.com, ORCID ID: 0000-0002-4040-0987

[Lazarev, M. A. 2023. Taxonomy of *Agapanthia boeberi* (Fischer von Waldheim, 1806) (Coleoptera: Cerambycidae). Munis Entomology & Zoology, 18 (2): 745-759]

ABSTRACT: *Agapanthia (Epoptes) boeberi* (Fischer von Waldheim, 1806) is accepted with 6 subspecies: *A. b. boeberi* (Fischer von Waldheim, 1806) - type locality: Russia, "Sarepta" - south suburbs of Volgograd; *A. b. selengensis* Danilevsky, 2021 - type locality: Russia, Transbaikalia, Novoselenginsk environs; *A. b. cynarae* (Germar, 1817) - type locality: Dalmatia and Sicily ("bei Fiume und auf der Insel Arbe entdeckt, ich erhielt sie bei Spalato, Ragusa und Cattaro in Dalmatien"); *A. b. diversicornis* Pic, 1927, nom. rest. - type locality: Albania; *A. b. slamai* Lazarev, ssp. n., type locality: Grecece, Peloponnese, Kariopolis, near Gythion; *A. b. michaeli* Sláma, 1986 - type locality: Crete, Voutas.

KEY WORDS: Coleoptera, Cerambycidae, taxonomy, distribution, new subspecies, name restored

The first oldest name of the species *Saperda boeberi* Fischer-Waldheim, 1806 was traditionally ignored by all modern authors. They (Küster, 1846; Mulsant, 1862; Gemminger & Harold, 1873; Ganglbauer, 1884; Pic, 1910; Reitter, 1913; Aurivillius, 1923; Breuning, 1961; Plavilstshikov, 1965, 1968; Villiers, 1978; Lobanov et al. 1982; Sláma, 1986; Sama, 2003; Löbl & Smetana, 2010; Danilevsky, 2020) used the next available name *Saperda cynarae* Germar, 1817 in valid form as *Agapanthia cynarae* (Germar, 1817). *Agapanthia boeberi* (Fischer-Waldheim, 1806) was also used from time to time: Winkler, 1929: 1213; Kantardjiewa-Minkova, 1934: 138; Roubal, 1936: 424; Heyrovský, 1937: 90; Csiki, 1940: 268; Depoli, 1940: 319; Villiers, 1959: 10; Mikšić, 1963: 139. So, it cannot be regarded as "nomen oblitum" as the oldest name was used as valid after 1899 (Article 23.9.1.1. - ICZN, 1999). So, the present valid name of the species is *Agapanthia boeberi* (Fischer-Waldheim, 1806) with type locality Sarepta environs (now the suburb of Volgograd) in lower Volga River Valley.

MATERIAL AND METHOD

Material was collected manually. Specimens used in morphological studies were killed by ethyl acetate. All photographs were taken with Canon PowerShot G10 digital camera equipped with Cannon Zoom lens 5X IS 6.1-30.5 mm 1:2.8-4.5 and microscope AmScope SM745NTP. The illustrations were edited with Adobe Photoshop 7.0 and Helicon Focus 3.20.

Acronyms of collections:

MD - collection of M.L. Danilevsky (Moscow)

ML - collection of M.A. Lazarev (Moscow)

OP - collection of O.V. Pak (Donetsk)
SM - collection of S.V. Murzin (Moscow)
VG - collection of V.Yu. Gazanchidis (Moscow)
ZMM - collection of Zoological Museum of Moscow University

RESULTS

List of subspecies of *Agapanthia (Epoptes) boeberi* (Fischer von Waldheim, 1806)

1. *Agapanthia (Epoptes) boeberi boeberi* (Fischer von Waldheim, 1806)
Type locality. Russia, "Sarepta" - south suburbs of Volgograd.
2. *Agapanthia (Epoptes) boeberi selengensis* Danilevsky, 2021
Type locality. Russia, Transbaikalia, Novoselenginsk environs.
3. *Agapanthia (Epoptes) boeberi cynarae* (Germar, 1817)
Type locality. Dalmatia and Sicily ("bei Fiume und auf der Insel Arbe entdeckt, ich erhielt sie bei Spalato, Ragusa und Cattaro in Dalmatien").
4. *Agapanthia (Epoptes) boeberi diversicornis* Pic, 1927, **nom. rest.**
Type locality. Albania.
5. *Agapanthia (Epoptes) boeberi slamai* **ssp. n.**
Type locality. Greece, Peloponnese, Kariopolis, near Gythion.
6. *Agapanthia (Epoptes) boeberi michaeli* Sláma, 1986
Type locality. Crete, Voutas.

Agapanthia boeberi (Fischer-Waldheim, 1806) is extremely variable species. The populations from the type area are rather peculiar and strongly differ from West European populations. Several subspecies must be accepted now.

Agapanthia (Epoptes) boeberi (Fischer von Waldheim, 1806)

(Figs. 1-10)

Saperda boeberi Fischer von Waldheim, 1806: 16 - "Sarepta".

Agapanthia cynarae, Küster, 1846: 67 - "bei Fiume und auf der Insel Arbe entdeckt, ich erhielt sie bei Spalato, Ragusa und Cattaro in Dalmatien"; Gemminger & Harold, 1873: 3176 - "Fiume, Illyria, Russia mer."; Ganglbauer, 1884: 542 (= *decora* Kryn.) - "Süd-Europa, Krim, Kleinasien, Syrien"; Oertzen, 1886: 285 - Attika, Parnasson, Kephalaria, Crete; Reitter, 1898: 134 - "Südeuropa, Krim, Kleinasien, Syrien"; Schaufuß, 1916: 877 - "E. md. Med. R. m."; Plavilstshikov, 1927: 61 - "Transcaucasie, au Caucase et en Crimée"; 1932: 194; Zaitzev, 1954: 19 - Georgia: Borjomi, Tsalka, Tetristsqaro, Tbilisi, Manglisi, Gagra. Armenia, Azerbaijan, Europe, North Africa; Ogloblin, 1948: 470 - South of the steppe zone east of the Dnieper, Ciscaucasia, Crimea; Breuning, 1961: 186 - "Europe centr. et mer., Caucase, Transcaucasie"; Heyrovský, 1967: 581, 615, part. - "Dalmatien", "Bosnien-Herzegowina", "Montenegro", "Serbien", "Mazedonien", "Griechenland", "Bulgarien", "Albanien": "Iba unterhalb, Krraba, 400 m"; Kryzhanovsky, 1974: 140 - USSR: south of Europe. parts, Caucasus (more often in Transcaucasia); Villiers, 1978: 437 - "Europe centrale et méridionale, jusqu'au Caucase, Asie Mineure"; 2002: 93 - "records from Caucasus, Transcaucasia, Algeria (...), France, Austria and Germany (...) are incorrect"; Lobanov et al., 1982: 269 - North Africa, Mediterranean (Southwestern Europe), Central and Northern Europe, Balkans; Althoff & Danilevsky 1997: 40 - France (without Corsica), Italy (without Sardinia and Sicily), Slovenia, Croatia, Bosnia and Herzegovina, Serbia, Macedonia, Greece (without Crete), Crete, Bulgaria, European Turkey, Hungary, ?Avstria, Czechia, Slovakia, ?Germania, Ukraine (without Crimea), Crimea, ?Moldova, South part of European Russia; Kovács et al., 2001: 218 - Hungary: "Somogy county"; Sama, 2003: 93 - "In central Europe

- apparently not recently found, but some old record from Czechia, Slovakia and Hungary could be correct. In southern and south-eastern Europe known from north-eastern and south-eastern Italy, Balkans (from Istria to Peloponnese and European Turkey).”
- Agapanthia boeberi*, Winkler, 1929: 1213 (= *cynarae* Germ.) - Germania occidentalis, Europa meridionalis, Mediterranea; Roubal, 1936: 424 (= *cynarae* Germ.) - “G. oc. E. md. Med. oc. Cri. Ca.”; Villiers, 1959: 10 - Turkey, Amasya. Europe méridionale, Caucase, Asie Mineure.
- Agapanthia* (s. str.) *cynarae*, Pic, 1910: 97 - “Med., Eur. Mle, Russia Mle, Syrie”; Plavilstshikov, 1930: 35, 40 (= *decora* Kryn. = *diversicornis* Pic) - “Mittel und Süd-Europa, Süd-Russland, Krim, Kaukasus, Transkaukasien, Algier”; 1948: 169 - Armenia: Arax valley (Middle and South Europe, Caucasus, North Africa); 1968: 124, 162 (?= *boeberi* Fisch. = *diversicornis* Pic) - In the European part of the USSR, it is found in the extreme south of the steppe zone, including the Crimea, throughout the Caucasus and Transcaucasia. In Western Europe, it is distributed from Hungary and the south of the GDR to the Mediterranean Sea; North Africa; Danilevsky & Miroschnikov, 1985: 386, 391; Mikšić & Korpić, 1985: 101 - “srednja i južna Evropa, Kavkaz, Mala Azija, Sirija.”; Bartenev, 2004: 41 (= *decora* Kry. = *diversicornis* Pic); 2009: 389 41 (= *decora* Kry. = *diversicornis* Pic) - Western Europe, Ukraine (including Crimea), ?Moldova, southern European Russia, Caucasus, Transcaucasia (including Armenia: Araks valley), Turkey, North Africa, Ukraine: south of the steppe zone east of the Dnieper, Crimea.
- Agapanthia cynarae cynarae*, Sláma & Slámová, 1996: 138 - Yug.-Makedonia: “Titov Veles, Gradsko, Josifovo, Valandovo, Stari Dojran, Bogdanci”, Makedonia (east): “Aj. Athanasios, Pendapoli, Granitis”, Makedonia (central): “Lachanas, Kilkis, Dorcas, Litochoro, Aj. Prodomos, Platomos, Leptokaria, Makrokomi”, Makedonia (west): “Agrilio, Anixi”, Thessaly: “Omolio”, Greece: “Amfiklia, Parnassos, Mendenitsa”, Peloponnese: “Kalavrita, Chelmos, Kerpini, Vourvoura, Sparti, Tripoli, Gorani, Arna, Tripi, Artemisia, Messini, Rachae, Karkalu, Vitina, Githio”.
- Agapanthia (Agapanthiella) cynarae*, Pesarini & Sabbadini, 2004: 127.
- Agapanthia (Epopetes) cynarae cynarae*, Löbl & Smetana, 2010: 215 - Azerbaijan, Albania, Armenia, Bosnia-Herzegovina, Bulgaria, Croatia, Czech Republic, Germany, Greece, Georgia, Hungary, Italy, Macedonia, Slovenia, Romania, Slovakia, Russia: South European Territory, Turkey, Ukraine, Serbia and Montenegro; Shapovalov, 2012: 187; Danilevsky, 2020b: 301 - south of European Russia, Western Siberia, Ukraine, Georgia, Armenia, Azerbaijan, Turkey, Western Europe.
- Agapanthia (Epopetes) cynarae cynarae*, Rapuzzi & Sama, 2012: 222 - “Europa centro-meridionale orientale. Dall’Italia alla Turchia europea ed alla Russia meridionale”.
- Agapanthia (Epopetes) cynarae*, Shapovalov, 2012: 187 - South of the European part of Russia in the east to the Southern Urals, southern Trans-Urals, Northern Caucasus”, Eastern Siberia (Selenginsk), Europe, Caucasus, Transcaucasia, ?Northwestern Kazakhstan; Kasatkin, 2020: 242, 243.

Type locality. Russia, Sarepta environs (now south suburb of Volgograd).

Big species with peculiar color of 3rd antennal joint – its cuticle about totally black, only narrow basal ring could be reddish and here with white pubescence; basal parts (about basal halves) of 4th-12th joints usually reddish, red or red-brown, sometimes completely black, usually with dense white pubescence; 3rd joint with a row of long dense black erect setae along its whole length, becoming denser distally, sometimes erect setae are spread along 4th joint too; antennae rather long, in males overpassed elytra by 7th (sometimes- 6th) or 8th joints, in females by 9th or 10th joints; elytra can be sharpened apically in certain populations (Kazakhstan) or widely rounded in others (Peloponnese, Bulgaria); elytral pubescence relatively uniform, dense, yellowish, hardly spotted, becoming much denser along curved lateral margin; grey humeral stripe often more or less distinct; erect setae poorly developed and can be clearly seen near elytral bases

only or back to elytral middle; body length in males: 11.8-21.4 mm, body width: 3.0-5.4 mm, body length in females: 13.6-23.2 mm, body width: 3.4-6.3 mm.

Distribution. Southeast Europe: South Italy, Slovenia, Bosnia and Herzegovina, Serbia, Macedonia, Montenegro, Albania, Greece, Bulgaria, Hungary, Czechia, Slovakia, Romania, Ukraine. In Russia the species occupies steppe zone eastwards Ukrainian border to the West Siberia; Ciscaucasia (Dagestan, Chechnya, Stavropol and Krasnodar regions); Volgograd Region; south Urals; North-West Kazakhstan; many records for Transcaucasia were published though only one male from Azerbaijan is known to me ("Chatschmas 7.VII.933" - ZMM). The record from "E Tauria" by Krynicki (1834) as *Saperda decora* Krynicki, 1834, and numerous records from Crimea (Ganglbauer, 1884; Reitter, 1898; Plavilstshikov, 1927, 1930; Ogloblin, 1948; Kryzhanovsky, 1974; Bartenev, 1984) need confirmation, as no specimens are represented in Plavilstshikov's collection, neither in any known to me materials. The presence of the species in Iran, Turkey, and generally in Near East is very doubtful (Ganglbauer, 1884: 542, "Süd-Europa, Krim, Kleinasien, Syrien"; Reitter, 1898: 134, "Südeuropa, Krim, Kleinasien, Syrien"; Pic, 1910: 97, "Med., Eur. Mle, Russia Mle, Syrie"; Özdikmen, 2007: 347, 392, Turkey: Bilecik, Içel, Amasya, Edirne, İstanbul, Bursa, Erzurum, Konya, Akşehir, Kocaeli, İzmit; Tekin & Özdikmen, 2015: 128, "Turkey (Bursa): Inegöl"; Varlı & al., 2019: 92, "Western Turkey (Balıkesir)"; Özdikmen & Tezcan, 2020: 470, Turkey: İzmir province, Moeurs; Samin & al., 2020: 2, Iran: Kordestan province, Bijar; Özdikmen & Koçak, 2022: 106, Turkey: Karaman Province). The record of *A. cynarae* for Alger by Lucas (1847) was connected with *A. asphodeli* (Latreille, 1804), according to Villier (1946). According to Sama (2003): "Range. Europe; records from Caucasus, Transcaucasia, Algeria (Plavilstshikov, 1930; Horion, 1974), France, Austria and Germany (Horion, 1974; Villiers, 1978; Bense, 1995; Althoff & Danilevsky, 1997) are incorrect and most likely based on misidentifications with *A. villosoviridescens*. In central Europe apparently not recently found, but some old records from Czechia, Slovakia and Hungary could be correct. In southern and south-eastern Europe known from north-eastern and south-eastern Italy, Balkans (from Istria to Peloponnese and European Turkey). An isolated population in Crete, described as a separate subspecies (*A. cynarae michaeli* Slama, 1986) appears not significantly different from the nominotypical subspecies.". In fact *A. boeberi* was often mixed with *A. asphodeli* (Latreille, 1804).

Biology. According to Bense (1995), larvae are connected with *Carduus*, *Cirsium*, *Onopordon*, but also with *Aconitum* and *Acanthus*; adults are active from April to July, but usually in June.

1. *Agapanthia (Epopetes) boeberi boeberi* (Fischer von Waldheim, 1806)

(Figs. 1-2)

Saperda boeberi Fischer von Waldheim, 1806: 16 - "Sarepta".

Saperda decora Krynicki, 1834: 170 - "E Tauria".

Agapanthia decora, Gemminger & Harold, 1873: 3176 - "Tauria".

Agapanthia cynarae, Jakobson, 1924: 239 (= *boeberi* Fischer von Waldheim, 1806) - "Sarepta"; Bartenev, 1984: 115 - Crimea; Kasatkin & Arzanov, 1997: 67 - North Ossetia; Kalyuzhnaya et al., 2000: 194 - Volgograd region: Kamyshin; Bartenev & Terekhova, 2011: 139 - Kherson Region, Crimea.

Agapanthia (Agapanthiella) cynarae cynarae, Shapovalov et al., 2006: 107 - Orenburg region.

Type locality. Russia, “Sarepta” - south suburbs of Volgograd.

The nominative subspecies is characterized by maximal density of elytral pubescence, and so yellow elytral color; elytra sharpened apically; body length in males: 13.5-21.4 mm, body width: 3.4-5.4 mm, body length in females: 16.1-21.0 mm, body width: 4.2-5.2 mm.

Material. 3 males, 2 females, Chechnya, Starogladkovskaya, Terek River, 22-23.6.1928. Arnoldi - MD; 1 male, Orenburg Region, Sol-Iletsk District, Troitsk environs, 20-30.6.2007, D. Shavkun - MD; 2 males, 1 female, Orenburg Region, Sol-Iletsk District, 8 km SW Troitsk, 21.05.2012, A. Shapovalov - OP; 1 male, 1 female, Orenburg Region, Gay District, Khmelevka, 12.6.2008, A. Shapovalov - ML; 2 males, 1 female, Chelyabinsk Region, S. Troitsk, Zolotaya Sopka, 54°02'46"N, 61°36'34"E, 4-6.6.2013, E.Yu. Zakharova - MD; 1 male, 1 female, Kazakhstan, Uralsk, Rozhkovo, 100 m, 15.6.1999, M. Danilevsky - MD.

Distribution. Russia; the subspecies occupies steppe zone eastwards Ukrainian border to the West Siberia (Samara Region, Volgograd Region, Orenburg Region, Chelyabinsk Region), Ciscaucasia (Dagestan, Chechnya, Stavropol Region, Krasnodar Region); East Ukraine; North-West Kazakhstan (Uralsk environs); many records for Transcaucasia were published though only one male from Azerbaijan is known to me (“Chatschmas 7.VII.933” - ZMM); the records from Crimea (“E Tauria” by Krynicki, 1834) need confirmations.

2. *Agapanthia (Epoptes) boeberi selengensis* Danilevsky, 2021

Agapanthia cynarae cynarae, Danilevsky, 2012b: 113 - “Sibiria or./Selenginsk”, “The erect pubescence of 3rd antennal joint is much longer and denser, than in European specimens, so existence of a new taxon cannot be excluded.”, “east (Transural) part of Orenburg Region”, “Sibiria or. Selenginsk”.

Agapanthia (Epoptes) cynarae, Shapovalov, 2012: 187 - “East Siberia (Selenginsk)”.

Agapanthia (Epoptes) cinarae selengensis Danilevsky, 2021: 501 - “Sibiria or. / Selenginsk” (now Novoselenginsk), misspelling.

Type locality. Russia, Transbaikalia, Novoselenginsk environs.

A single female known; elytral pubescence very dense, similar to the nominative subspecies; pale antennal parts dark-red; erect pubescence of 3rd antennal joint is much longer and denser, than in European specimens, apex of 3rd antennal joint with distinct setae tuft; 4th joint also with numerous dense setae; body length: 18.0 mm, width: 4.0 mm.

Material. Holotype, female with the label: “Sibiria or. / Selenginsk” (now Novoselenginsk) - ZMM.

Distribution. Russia, Transbaikalia, Novoselenginsk env.

3. *Agapanthia (Epoptes) boeberi cynarae* (Germar, 1817)

Saperda cynarae Germar, 1817: 222 - “bei Fiume und auf der Insel Arbe entdeckt, ich erhielt sie bei Spalato, Ragusa und Cattaro in Dalmatien”; Germar, 1825: 9 - “Croatia, Dalmatia”.

Agapanthia cynarae, Gaubil, 1849: 182 - “Dalmatia”; Mulsant, 1862: 353 - “Var”; Csiki, 1905: 63 (= *decora* Kryn., = *verecunda* Chevrl.)- “Budapest”, “Pécs”, “Kassa”, “Plavisevicza, Gerebencz”, “Zágráb, Bukova Kusa”, “Fiume, Buccari, Carlomagno, Zengg”; Müller, 1907: 686 - “Paklenica, Zara, Pridraga, Traù, Spalato, Ragusa, Castelnuovo, Budua, Arbe, Brazza, Lesina”; Cameron M. & Caruana Gatto, 1907: 402 - Malta: “Fort Manoel”, “Corradino”; Reitter, 1913: 66 - “Rheinprovinz, Nassau; sonst in Südeuropa”;

Pic, 1927b: 163, part - "Macédoine: Arapli" [new name Nea Magnisia, 40°41.3'N 22°50.6'E], "Albanie: environ de Koritza"; Picard, 1929: 138, 140 - "Montagnes du midi de la France. Hautes-Alpes; montagnes du Var; Cévennes méridionales; Pyrénées-Orientales; Hautes-Pyrénées"; Portevin, 1934: 174 "Montagnes de la France méridionale, des Hautes-Alpes aux Hautes-Pyrénées"; Demelt & Schurmann, 1964: 39 - "Kanegra, Savudrija, Limski-Kanal"; Heyrovský, 1967: 581, 615, part. - "Dalmatien", "Bosnien-Herzegowina", "Montenegro", "Serbien", "Mazedonien", "Griechenland", "Bulgarien", "Albanien": "Iba unterhalb, Krraba, 400 m"; Villiers, 1978: 431, 437 - "Rare en France, seulement dans les montagnes du midi"; Sturani, 1981 - Italy; Ganev, 1985: 151 - "Kressna-Schlucht", "Borovetz"; 1986: 311 - "Svilengrad"; Sama, 1988: 171 - "Francia meridionale, Cecoslovacchia, Italia meridionale e nordorientale, Balcani, Asia Minore, Caucaso, Siria"; Bense, 1995: 388-389 - south of Western Europe (from France to Greece and Bulgaria) and its center; Comelade, 2000: 49; Hegyessy, 2000: 278 - "Budapest - Solymár"; Vives, 2000: 428 - ?Península Ibérica; Jeniš I. 2001: 260-261; Mifsud, 2002: 167 - "Malta"; Brelih et al. 2006: 9, 313 - Slovenia: "Slovenija: Julijska krajina; Kras"; "Istra: Črni Kal; Gažon; Hrastovlje; Petrinje; Slavnik", "Primorsko-Brestovica pri Povirju; Gabrovica, Komen; Gorica; Lipica; Lokev; Opatje selo; Sežana"; Migliaccio et al., 2007: 39 - "Bulgaria: Common from 0 to 1300 m a.s.l."; Serafim & Chimişliu, 2010: 118, 128 - "Oltenia (South-Western Romania)"; Serafim, 2010: 239, 268 - "Croatia, Krk island", "Clisura Dunării (Danube Clisura) is situated between Nera river in the West, and Gura Văii in the East", "Danube Clisura (Oreva and Slătanic)"; & Perović, 2010: 127 - "Vozilčić, Eastern Istria, Croatia"; Zamoroka & al., 2012: 1167 - Western Podillya, Ukraine: "West Pokuttya", "Medobory"; Pavičević et al., 2015: 84 - "Serbia"; Pesarini C. & Pesarini F., 2016: 67 - Italy: Abruzzo, Calabria; Sláma, 2017: 65 "Graecia, Thes., Omolio"; Kostova, 2019: 81 - "Sredna Gora Mountains (Bulgaria)"; Zamoroka, 2022: 64 - "Ukraine".

Agapanthia boeberi, Kantardjiewa-Minkova, 1934: 138 (= *cynarae* Germ.) - Strandzha Mountain, Kalovo, Chirpan, Dupnitsa, Rila Mountains, Kresna, Ali Botush, Marino pole, Petrich; Depoli, 1940: 319 (= *cynarae* Germ.) - "Lussin: Curilla", "Lussingrande", "Unie".

Agapanthia (s. str.) *cynarae*, Aurivillius, 1923: 460 (= *decora* Kryn. = *verecunda* Chev. = *delagrangei* Pic) - "Rheinprovinz, Nassau, Südeuropa"; Bringmann, 1995: 68, 71 (= *boeberi*) - Bulgarien.

Agapanthia (s. str.) *boeberi*, Mikšić, 1963: 139 - Slovenija: Julijska krajina.

Agapanthia (*Epoptes*) *cynarae*, Sama & Rapuzzi, 2011: 142 - Italy: Basilicata, Calabria, Puglia, Venezia Giulia; Klausnitzer & al., 2016: 556 - Mitteleuropa; Poloni & Morelli, 2021: 40 - "Abruzzo (PE), Popoli, 42.17°N 13.80°E, 350 m".

Agapanthia (*Epoptes*) *cynarae cynarae*, Georgiev et al., 2015: 82 - "Strandzha Mountain (Bulgaria: Fazanovo)"; 2018: 106 Bulgaria: "Strandzha Mt.", "Sinemorets", "Fazanovo", "2.8 km SE of Duni Resort, 42°20.927'N, 27°43.315'E, 2 m a.s.l.", "Rosenets Park, 2 km NW of Atia vill., 42°26.855'N, 27°33.511'E, 5 m a.s.l."; 2019: 18 "Bulgaria: Petrich, Belasitsa Mt.", "North Macedonia: Dojran vill."

Agapanthia cynarae cynarae, Sláma, 1998: 347, part. - Czechia, Slovakia; Angelini F. 2020: 189 - "Apulia, Basilicata and Calabria (Italy)".

Type locality. Dalmatia and Sicily ("bei Fiume und auf der Insel Arbe entdeckt, ich erhielt sie bei Spalato, Ragusa und Cattaro in Dalmatien") - so, two rather different regions; a designation of the lectotype is desirable.

The subspecies is characterized by less dense elytra pubescence than in the nominative subspecies, so elytra look dark grey and widely rounded apically; body length in males (available specimens): 13.0-18.9 mm, body width: 3.2-5.2 mm, body length in females: 13.6-19.3 mm, body width: 3.6-5.3 mm.

Material. 1 male, Italy, "Abruzzen, Reitter" - ZMM; 1 male, Italy (PZ), Basilicata, Senise, 300 m, 21.6.1983, I. Zappi - MD; 1 male, Croatia, Istria, Rabac, VI.2002, J.

Lorenc - MD; 1 male, Yugoslavia, Lovčen, 4.6.1980, Z. Hauousal - SM; 1 female, Macedonia, Gevgelija, 12.5.1988, I. Toševsky - MD; 1 female, Macedonia, Debar, 5.7.1975, M. Havlas - MD; 2 males, 1 female, Greece, Haslkidiki, Pevkohori, 3-25.5.2016, V. Gazanchidis - MD; 1 male, Greece, Haslkidiki, Kassandra, Polichrono, 9.5.2016, V. Gazanchidis - MD; 1 female, Greece, Halkidiki, Agios Prodromos, 16.6.1988, M. Sláma - MD; 3 males, 1 female, Greece, Halkidiki, Agios Prodromos, 16.6.1988, M. Sláma - ML; 3 males, Greece, Macedonia, Dorcas, 15.6.1988, M. Sláma - MD; 1 male, 1 female, Halkidiki, Kassandra, 10 km da Kapsohora verso Paliouri, 5.5.1983, M. Berra - MD; 2 males, S Bulgaria, Liubimec, 41°50'N, 26°04'E, 84 m, 25.5.2010, W. Grosser - MD; 2 males, Bulgaria, Kozuch, 10.5.1983, J. Ganev - MD; 1 male, Strouma Valley, S Kozhuh hill, 41°27'N, 23°15'E, 90 m, 2.6.2009, T. Ljubomirov - MD; 1 male, Strouma Valley, N Topolnitsa, 41°25'N, 23°19'E, 80 m, 16.6.2009, T. Ljubomirov - MD; 2 females, Bulgaria, Sozopol, 6.7.1981, M. Havlas - MD; 1 female, Strouma Valley, W Kresnessko, 41°47'N, 23°09'E, 290 m, 1.6.2009, T. Ljubomirov - MD; 1 female, SW Bulgaria, Kresna, 20 km N Sandanski, 5.7.2004, W. Grosser - MD; 1 female, Bulgaria, Kresna defile, 17.5.1983, Ganev - MD; 1 female, Bulgaria, Kozuch, 17.5.1983, Ganev - MD; 1 female, SE Bulgaria, Sinemorec, 26.6.2004, W. Grosser - MD; 1 female, Bulgaria, Damjanica, 23.6.1982, S. Kadlec - ML; 1 female, Bulgaria, Arkutino, 25.6.1984, S. Kadlec - ML; 1 male, Bulgaria, Sandanski, VI.1967, B. Lekeš - ML; 3 males, Bulgaria, Sandanski, VI.1967, B. Lekeš - SM.

Distribution. Most part of West Europe: Italy, Slovenia, Croatia, Bosnia and Herzegovina, Serbia, Montenegro, Greece (Macedonia and Thrakia), Bulgaria, Hungary, Romania, Czechia, Slovakia. West Ukraine.

4. *Agapanthia (Epoetes) boeberi diversicornis* Pic, 1927, **nom. rest.**

(Figs. 3-4)

Agapanthia cynarae v. *diversicornis* Pic, 1927a: 1 - "Albanie".

Agapanthia cynarae, Pic, 1927b: 163, part - "Macédoine: Arapli" [new name Nea Magnisia, 40°41.3'N 22°50.6'E], "Albanie: environ de Koritza"; Heyrovský, 1934: 135 - Albania: "Skutari, San G. di Medua", "Tepelene", "Ljumi Skumbin", "Devoll-Tal", "Tomor", "Kerpice", "Bushek"; 1967: 581, 615, part. - "Dalmatien", "Bosnien-Herzegowina", "Montenegro", "Serbien", "Mazedonien", "Griechenland", "Bulgarien", "Albanien": "Iba unterhalb, Krraba, 400 m"; Schatzmayr, 1943: 134 - "Lushnja, Skrofotina, Berat, Fushes Dukati e Skendelliut"; Demelt, 1967: 64, part - Greece.

Agapanthia boeberi, Heyrovský, 1937: 90 - Albania: "Lum i Tiranes, Tirane"; Csiki, 1940: 268 (= *cynarae* Germ.) - "Ipek".

Agapanthia cunerea, Muraj, 1960: 141 - "Zall-ardhë", "Qaf-Mollë", "Pasha Liman", "Bizë", misspelling.

Agapanthia cynarae cynarae, Siering & Shumka, 2015: 462 - Shkumbin Tal und weitere Gebiete bei Librazhd (Albanien): "Togëz"; "Zgosht"; "Dorëz"; Siering et al, 2015: 50 - Prespa-Nationalparks in Albanien: "zwischen Goricë e Vogel und Liqenas"; 2016: 47 - Albania: "P. K. Butrinti; Ksamil und Umgebung", "Küste; Orikum; Rruga Sazani", "P. K. Bredhi i Drenoves", "Zentral-Albanien; zwischen Perrenjas und Qukes", "zwischen L. i Shkumbinit und Straße", "S Gjirokaster; Ebene südlich der Stadt", "S Gjirokaster; Bergland; Krongj", "S Gjirokaster; Pass Q. e Muzines; 536 m".

Agapanthia (Epoetes) cynarae, Plewa et al., 2018: 181 - "County Gjirokaster: Lëshicë at Përmet, 450 m a.s.l.", "County Elbasan: Mirakë at Librazhd, 200 m a.s.l.", "County Elbasan: Hotolisht at Librazhd, 290 m a.s.l.", "County Shkodër: Hani i Hotit at Ivanaj".

Type locality. Albania, according to the original description.

The subspecies is characterized by poor elytral pubescence, elytra with distinct bronze luster, moderately rounded apically; narrow basal parts of many antennal joints under fine white pubescence usually rather dark, nearly black; elytral and pronotal puncturation distinctly sparser; body length in males (available specimens): 13.1-17.6 mm, body width: 3.1-4.2 mm, body length in females: 14.7-19.2 mm, body width: 3.7-4.9 mm.

Material. 3 males, 1 female, Albania, Vlorë county, 3.5 km E Vagalat, 39°45'43"N, 20°09'39"E, 80 m, 6.5.2021, O. Pak leg. - ML; 1 male, S Albania, Vlorë County, Delvinë Municipality, 0.7 km NE Lefterhor vill., Kardhiqit Mts., 39°59'6.73"N, 20°5'57.13"E, 696 m, 18.5.2021, Yu. Skrylnyk leg. - ML; 2 males, Greece, Agia Paraskevi, 22.6.1988, M. Sláma - MD; 1 male, 1 female, Greece, Parnassos, 2.6.1981, M. Sláma - MD; 1 female, Greece, Leptokaria, 15.6.1995, V. Grosser - MD; 1 female, Greece, Kalambaka, Meteora, 25.5.1999, W. Grosser - MD; 1 male, 1 female, Greece, Varentada, 20 km J. [S] Arta, 6.6.1999, W. Grosser - MD; 1 male, Greece, Olympus, 6.7.1991 - SM; 2 males, 2 females, Greece, Tembi valley, Gonni, 24.5.2000, I. Rychlik leg. - SM, ML; 1 male, Greece, Olympos Mts., Vrontou, 26.5.2000, S. Kalúz leg. - SM; 3 males, 2 females, NW Greece, Grevena, 30 km SEE Grevena, 10 km NWW Deskati vill., 380 m, 16.5.2010, A. Napolov & I. Roma leg. - OP; 1 female, Greece, Phthiotis, Ypati, 16.5.2017, V.Yu. Gazanchidis - ML; 1 male, Greece, Boeotia, Arachova, 38°29'41.76"N, 22°34'55.06"E, 1517 m, 18.5.2019, V.Yu. Gazanchidis leg. - ML; 1 male, 1 female, Greece, Boeotia, Arachova, 38°29'41.76"N, 22°34'55.06"E, 1517 m, 18.5.2019, V.Yu. Gazanchidis leg. - VG; 3 males, Greece, Larissa, Ossa Mount, 23.5.2017, V.Yu. Gazanchidis leg. - VG; 1 female, Greece, Amfissa, 26.5.2010, M. Sláma leg. - ML.

Distribution. Albania, central part of mainland Greece (Athens env., Mt. Parnassos env., Agia Paraskevi, Arta env., Kalambaka env., Leptokaria env., Grevena env., Ossa Mt., Olympos Mts., Vrontou env., Ypati env., Arachova (38°29'41.76"N, 22°34'55.06"E), Amfissa env.).

5. *Agapanthia (Epoetes) boeberi slamai* Lazarev, ssp. n.

(Figs. 5-6)

Agapanthia cynarae, Demelt, 1967: 64, part – Greece.

Agapanthia cynarae cynarae, Sláma & Slámová, 1996: 138, part – Yug.-Makedonia: "Titov Veles, Gradsko, Josifovo, Valandovo, Stari Dojran, Bogdanci", Makedonia (east): "Aj. Athanasios, Pendapoli, Granitis", Makedonia (central): "Lachanas, Kilkis, Dorcas, Litochoro, Aj. Prodomos, Platomos, Leptokaria, Makrokomi", Makedonia (west): "Agrinio, Anixi", Thessaly: "Omolio", Greece: "Amfiklia, Parnassos, Mendenitsa", Peloponnese: "Kalavrita, Chelmos, Kerpini, Vourvoura, Sparti, Tripoli, Gorani, Arna, Tripi, Artemisia, Messini, Rachae, Karkalu, Vitina, Githio".

Agapanthia (Epoetes) cynarae cynarae, Plewa et al., 2011: 238, part. - "część kontynentalna Grecji", "Peloponez".

Agapanthia (Epoetes) cynarae michaeli, Steiner & Schmid, 2013: 2, part. – "Griechenland".

Type locality. Greece, Peloponnese, Kariopolis, near Gythion.

The subspecies is characterized by minimal elytral pubescence, so elytra look very dark, widely rounded apically; narrow basal parts of antennal joints under fine white pubescence reddish; elytral and pronotal puncturation about as dense as in *A. b. diversicornis* Pic; body length in males (available specimens): 15.3-21.2 mm, body width: 3.4-5.3 mm, body length in females: 17.5-23.2 mm, body width: 4.5-6.3 mm.

Differential diagnosis. The new taxon is close to *A. b. diversicornis* Pic, but bases of antennal joints reddish and elytral pubescence rather sparser; it differs from *A. b. michaeli* Sláma by darker bases of antennal joints and more rounded elytral apices.

Material. Holotype, male, Greece, Peloponnese, Kariopolis, near Gythion, 2.6.1981, M. Sláma - ML; 66 paratypes; 3 males, 4 females, with the same label - ML; 8 males, 6 females, Greece, Peloponnese, Kariopolis, near Gythion, 3.6.1981, M. Sláma - MD; 4 males, 2 females, with the same label - ML; 1 male, 4 female, Greece, Peloponnese, Kalavrita, 5.6.1981, M. Sláma - MD; 15 females, Greece, Peloponnese, Vourvoura, 5.6.1981, M. Sláma - ML; 1 male, 1 female, Greece, Peloponnese, Gythion, 6.6.1981, M. Sláma - ML; 1 female, Greece, Panacheikon, Morea, VI-VII, A. Heyne - MD; 1 male, 1 female, Greece, Peloponnese, Petralona, Minthi Mts., 800 m, 7.6.1999, W. Grosser - MD; 1 male, Greece, Peloponnese, Killini Mts., Kefalari, 7.5.2000, S. Kalúz leg. - ML; 2 females, Greece, Peloponnese, Itilo, 10 km S Areopoli, Taigetos Mts., 800 m, 10.6.1999, W. Grosser - MD, ML; 2 males, Greece, Peloponnese, Gythio, 13.5.2000, 15.5.2000, S. Kalúz leg. - SM; 1 male, Greece, Peloponnese, Taygetus Mount, 14.5.2000, S. Kalúz leg. - SM; 1 male, Greece, Peloponnese, Taygetus Mount, Gorani, 12-13.5.2000, S. Kalúz leg. - SM; 2 males, Greece, Peloponnese, Menalon Mts. - N, Panagitsa, 19-20.5.2000, S. Kalúz leg. - SM, ML; 1 female, Greece, Peloponnese, Menalon Mts. - N, Panagitsa, 10.5.2000, I. Rychlik leg. - SM; 1 male, 1 female, Greece, Peloponnese, Foloi oak forest, 25.6.2022, V.Yu. Gazanchidis - ML; 2 females, Greece, Peloponnese, Foloi oak forest, 25.6.2022, V.Yu. Gazanchidis - VG.

Distribution. Greece, Peloponnese.

Etymology. The new taxon is dedicated to Milan Sláma - the preeminent specialist on European Cerambycidae.

6. *Agapanthia (Epopetes) boeberi michaeli* Sláma, 1986

(Figs. 7-10)

Agapanthia cynarae michaeli Sláma, 1986: 469 - "Crete, Voutas", "Crete, Theriso", "Crete, Gazi"; Sláma & Slámová, 1996: 138 - Kriti (Crete): "Voutas, Theriso"; Althoff & Danilevsky 1997: 40 - Crete; Danilevsky, 2012a: 153.

Agapanthia cynarae, Oertzen, 1886: 285, part - Attika, Parnasson, Kephallonia, Crete; Demelt, 1967: 64, part - Greece.

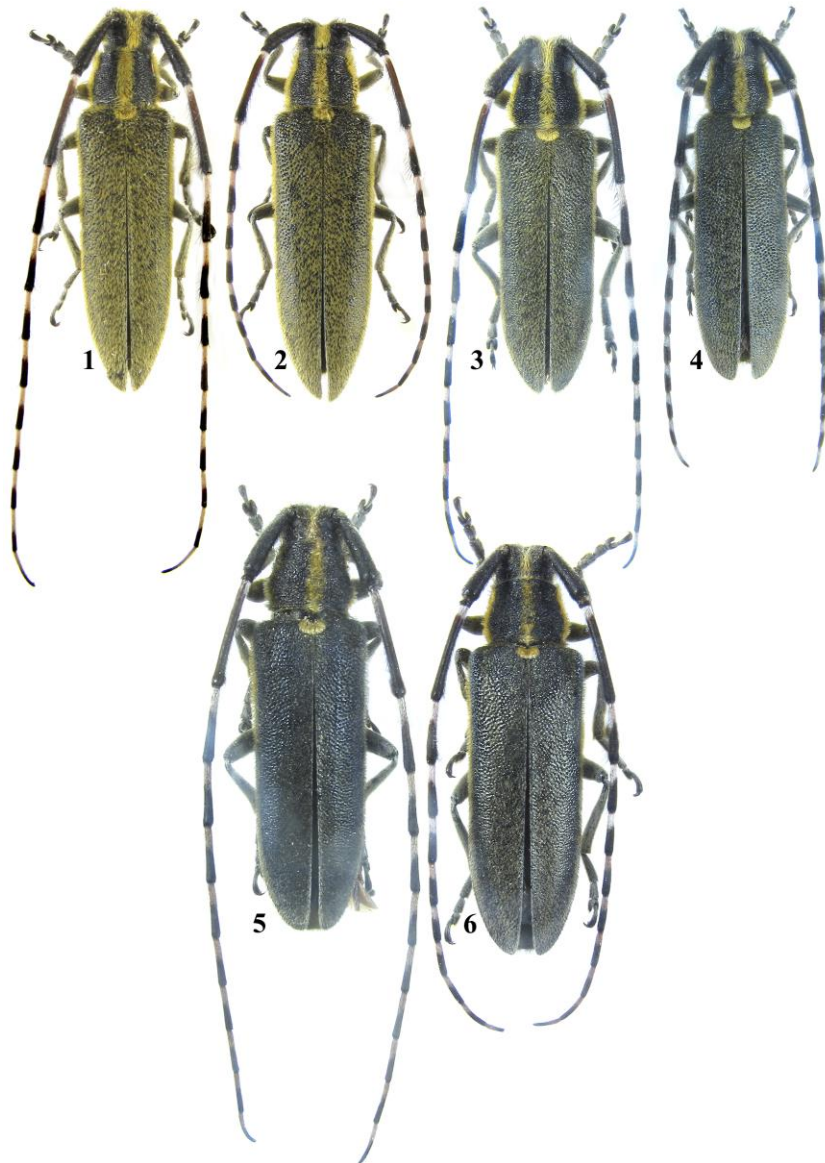
Agapanthia (Epopetes) cynarae michaeli, Löbl & Smetana, 2010: 215, part. - Greece (Kriti); Shapovalov, 2012: 187 - "Crete"; Steiner & Schmid, 2013: 2, part. - "Griechenland"; Danilevsky, 2020b: 301, part. - Greece (Crete).

Type locality. Crete, Voutas.

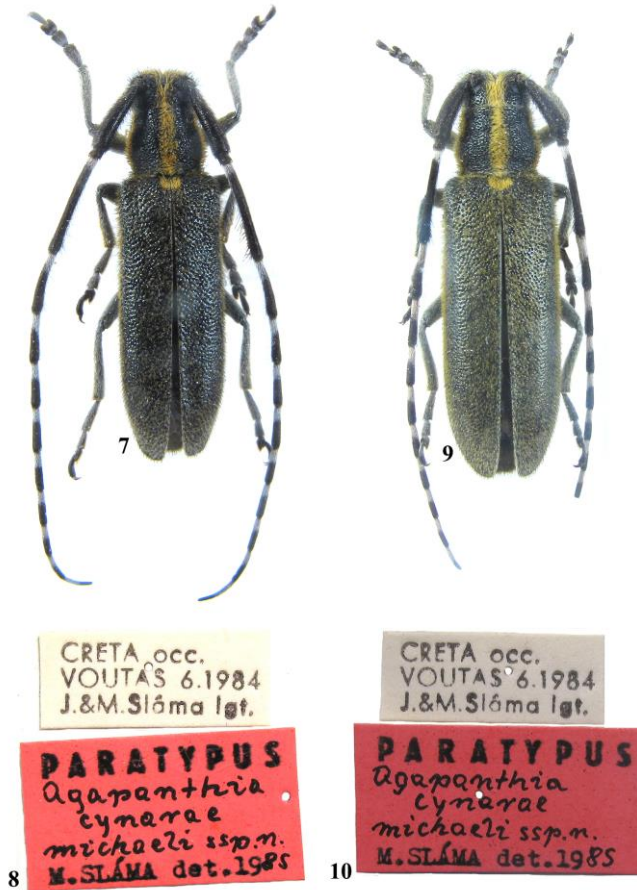
Elytral pubescence is very poor, similar to the previous subspecies; elytra widely rounded apically; narrow basal parts of many antennal joints under fine white pubescence rather dark reddish; elytral and pronotal puncturation distinctly denser; body length in males: 11.8-17.0 mm, body width: 3.0-4.5 mm, body length in females: 13.8-17.0 mm, body width: 3.4-4.7 mm.

Material. 1 male (paratype), 1 female (paratype), Crete occ., Voutas, 6.1984, J. & M. Sláma - MD.

Distribution. Crete Island.



Figures 1-6: **1-2.** *Agapanthia (Epopetes) boeberi boeberi* (Fischer von Waldheim, 1806): 1 – male, Kazakhstan, Uralsk, Rozhkovo, 100 m, 15.6.1999, M. Danilevsky (Photo by M. Danilevsky, Moscow); 2 – female, Chelyabinsk Region, S. Troitsk, Zolotaya Sopka, 54°02'46"N, 61°36'34"E, 4-6.6.2013, E.Yu. Zakharova (Photo by M. Danilevsky, Moscow). **3-4.** *Agapanthia (Epopetes) boeberi diversicornis* Pic, 1927, **nom. rest.**: 3 - male, Albania, Vlorë county, 3.5 km E Vagalat, 39°45'43"N, 20°09'39"E, 80 m, 6.5.2021, O. Pak leg; 4 – female with the same label. **5-6.** *Agapanthia (Epopetes) boeberi slamai* Lazarev, **ssp. n.**: 5 – Holotype, male, Greece, Peloponnese, Kariopolis, near Gythion, 2.6.1981, M. Sláma; 6 – Paratype, female, Greece, Peloponnese, Kariopolis, near Gythion, 3.6.1981, M. Sláma.



Figures 7-10. *Agapanthia (Epoptes) boeberi michaeli* Sláma, 1986: 7 – Paratype, male, Crete occ., Voutas, 6.1984, J.&M. Sláma; 8 – Labels, paratype, male; 9 – Paratype, female with the same label; 10 – Labels, paratype, female.

ACKNOWLEDGEMENTS

My sincere gratitude to M. L. Danilevsky (A. N. Severtsov Institute of Ecology and Evolution, Russian Academy of Sciences, Moscow), A. A. Gusakov (Zoological Museum of Moscow State University), V. Yu. Gazanchidis (Moscow), S. V. Murzin (Moscow), O. V. Pak (Donetsk), M. Sláma (Praha, Czech Republic) for supplying me with specimens for study.

LITERATURE CITED

- Angelini, F.** 2020. Contribution to the knowledge of beetles (Insecta Coleoptera) of some protected areas of Apulia, Basilicata and Calabria (Italy). *Biodiversity Journal*, 11 (1): 85-254.
- Aurivillius, Ch.** 1923. Cerambycidae: Lamiinae. II. *Coleopterorum Catalogus pars 74* [Vol. 23] II: 323-704. W. Junk & S. Schenckling, Berlin.
- Althoff, J. & Danilevsky, M. L.** 1997. A check-list of Longicorn beetles (Coleoptera, Cerambycoidea) of Europe. Slovensko Entomolosko Društvo Stefana Michielija. Ljubljana. Pp. 1-64.
- Bartenev, A. F.** 1984. Revision of the fauna of longhorn beetles (Coleoptera, Cerambycidae) of the Crimean Peninsula. In.: Natural complexes of the Crimea, their optimization and protection. Collection of scientific articles. Simferopol: Simferopol State M.V. Frunze University: 109-116. [in Russian]
- Bartenev, A.F.** 2004. [A review of the long-horned beetles species (Coleoptera: Cerambycidae) of the fauna of Ukraine]. *Izvestiya Kharkovskogo Entomologicheskogo Obschestva. The Kharkov Entomological Society Gazette*, 11 (1-2) [2003]: 24-43. [in Russian]
- Bartenev, A. F.** 2009. [Longicorn-beetles of Left-Bank Ukraine and Crimea. Kharkov: Kharkov National University], 405 pp. [in Russian]
- Bartenev, A. F. & Terekhova, V. V.** 2011. An addition and remarks to the fauna of cerambycid beetles (Coleoptera, Cerambycidae) of Left-bank Ukraine and Crimea. *The Journal of V. N. Karazin Kharkiv National University. Series: biology*, 13 (947): 133-146. [in Russian]
- Bense, U.** 1995. Longhorn Beetles. Illustrated Key to the Cerambycidae and Vesperidae of Europe. Margrat Verlag, Weikersheim. 512 pp.
- Breljih, S., Drovenik, B. & Pirnat, A.** 2006. Gradivo za favno hrosecv (Coleoptera) Slovenije: 2. prispevek: Polyphaga: Chrysomeloidea (= Phytophaga): Cerambycidae. [Material for the beetle fauna (Coleoptera) of Slovenia: 2nd contribution: Polyphaga: Chrysomeloidea (= Phytophaga): Cerambycidae]. *Scopolia*, 58: 1-442
- Breuning, S.** 1961. *Catalogue des Lamiaires du Monde (Col. Céramb.)*. Verlag des Museums G. Frey, Tutzing bei München (4): 183-284.
- Bringmann, H. D.** 1995. Die Agapanthia-Arten Bulgariens (Col., Cerambycidae). *Entomologische Nachrichten und Berichte*, 39 (1-2): 67-71.
- Brullé, A. G.** 1832-1836. *Expédition scientifique de Morée. Section des Sciences Physiques. Tome III. - 1.re Partie. Zoologie. Deuxième Section. - Des animaux articulés.* F. G. Levrault, Paris 3 (1/2): 1-400, 52 pls. pages 289-400 issued in 1833; plates in 1832-1836
- Comelade, J.** 2000. *Cartographie des Coléoptères Cerambycidae des Pyrénées-Orientales (quatrième partie)*. R.A.R.E., 9 (2): 44-52.
- Cameron, M. & Caruana Gatto, A.** 1907. A list of the Coleoptera of the Maltese Islands. *Transactions of the Entomological Society of London*, 59: 383-403.
- Csiki, E.** 1905. *Magyorország Cerambycidai*. XIX. *Rovartani Lapok*, Budapest, 12 (3): 61-64.
- Csiki, E.** 1940. Bogarak. Coleopteren. In: Csiki Ernő, Allattani Kutatásai Albániában (Explorations zoologicae ab E. Csiki in Albania peractae). A Magyar Tudományos Akadémia Balkán-Kutatásainak Tudományos Eredményei, Budapest, 1 (2): 263-268
- Danilevsky, M. L.** 2012a. Additions and corrections to the new Catalogue of Palaearctic Cerambycidae (Coleoptera) edited by I. Löbl and A. Smetana, 2010. Part. III. *Munis Entomology & Zoology*, 7 (1): 109-173.
- Danilevsky, M. L.** 2012b. Additions and corrections to the new Catalogue of Palaearctic Cerambycidae (Coleoptera) edited by I. Löbl and A. Smetana, 2010. Part. IV. *Humanity space. International almanac*, 1 (1): 86-136.
- Danilevsky, M.L.** 2020b. taxa from West Europe, and North Africa to countries of former Soviet Union, and Mongolia. In: Danilevsky M.L. (ed.). *Catalogue of Palaearctic Coleoptera*, vol. 6 (1), Chrysomeloidea I (Vesperidae, Disteniidae, Cerambycidae). Revised and updated edition. Leiden / Boston: Brill, i-xxii, 1-712.
- Danilevsky, M. L.** 2021. New taxa of genus *Agapanthia* Audinet-Serville, 1835 (Coleoptera, Cerambycidae) from Kazakhstan and Siberia. *Humanity space. International almanac*, 10 (4): 497-506.
- Danilevsky, M. L. & Miroshnikov, A. I.** 1985. *Timber-Beetles of Caucasus (Coleoptera, Cerambycidae)*. Key. Krasnodar: 419 pp. [in Russian]
- Demelt, C. & Schurmann, P.** 1964. Die Cerambycidenfauna von Istrien (Jugoslavien), Coleopt. Ceramb. *Zeitschrift der Arbeitsgemeinschaft Österreichischer Entomologen*, 16 (1-3): 26-43.
- Demelt, C.** 1967. Beitrag zur Kenntnis der Cerambycidenfauna Griechenlands (Col.). 14. Beitrag zur Biologie paläarktischer Cerambyciden. *Entomologische Zeitschrift*, Frankfurt, 77, 6: 57-66.
- Depoli, G.** 1940. I Coleotteri della Liburnia, VII. Rhynchophora e supplemento alla parte VI Phytophaga. *Fiume: rivista semestrale della Società di studi fumani in Fiume*, 15 (16): 212-338.
- Fischer von Waldheim, G.** 1806. Nouvelles espèces d'insectes de la Russie, decrites par G. Fischer. *Journal de la Société des Naturalistes de l'Université Impériale de Moscou*, 1 [1805] (1, 2): 12-19.
- Ganev, J.** 1985. Über die von Dr. Botscharov von Bulgarien gesammelten Cerambyciden-Arten (Coleoptera). *Articulata*, 2 (6): 147-153.
- Ganev, J.** 1986. Beitrag zur Verbreitung der Familie Cerambycidae (Coleoptera) in Bulgarien. *Articulata*, 2 (9): 307-312.
- Gaubil, J.** 1849. *Catalogue synonymique des coléoptères d'Europe et d'Algérie*. Maison, Paris. 296 + [1] pp.
- Gemminger, M. & Harold, E. von** 1873. *Catalogus coleopterorum hucusque descriptorum synonymicus et systematicus*. Munich, 10: 2989-3232 & index.
- Germar, E. F.** 1817. *Reise nach Dalmatien und in das Gebiet von Ragusa*. Leipzig, Brockhaus i-xii + 323 pp., 9 pls couleur, 2 cartes.
- Germar, E. F.** 1825. *Augusti Ahrensii Fauna Insectorum Europae*. *Fauna Insectorum Europae*, 12: pls 1-25. *Halae impensis C. A. Kummelii*
- Georgiev, G., Gjonov, I. & Sakalian, V.** 2015. New Records of Longhorn Beetles (Coleoptera: Cerambycidae) in Strandzha Mountain. *Journal of the Entomological Research Society*, 17 (2): 73-88.
- Georgiev, G., Gradinarov, D., Gjonov, I. & Sakalian, V.** 2018. A check list and areography of longhorn beetles (Coleoptera: Cerambycidae) in Strandzha Mountain, Bulgaria and Turkey. *Silva Balcanica*, 19 (1): 89-116.
- Georgiev, G., Gradinarov, D., Sivilov, O., Gjonov, I., Doychev, D., Gashtarov, V., Cvetkovska-Gjorgjevska, A. & Sakalian V.** 2019. A check list and areography of longhorn beetles (Coleoptera: Cerambycidae) in Belasitsa Mountain, Bulgaria and North Macedonia. *ZooNotes, Supplement*, 8: 1-27.

- Hegyessy, G., Kovács, T., Muskovits, J. & Szalóki, D.** 2000. Adatok Budapest és Pest megye cincérfanájához (Coleoptera: Cerambycidae). *Folia Historico Naturalia Musei Matraensis*, 24, str. 221-282.
- Heyrovský, L.** 1934. Príspevek k poznáni albánských tesariků. = Beitrag zur Kenntnis der albanischen Cerambyciden (Col. Ceramb.). *Ěasopis Ěeskoslvenské společnosti entomologické*, 31: 132-137.
- Heyrovský, L.** 1937. Druhý príspevek k poznáni albánských tesariků. = Zweiter Beitrag zur Kenntnis der albanischen Cerambyciden (Col. Ceramb.). *Ěasopis Ěeskoslvenské společnosti entomologické*, 31: 132-137.
- Heyrovský, L.** 1967. Ergebnisse der Albanien-Expedition 1961 des Deutschen Entomologischen Institutes. 71. Beitrag. *Coleoptera: Cerambycidae. Beiträge zur Entomologie*, 17 (3-4): 573-621.
- ICZN.** 1999. International Code of Zoological Nomenclature. Fourth Edition. Padova: International Commission on Zoological Nomenclature: 306 pp.
- Jakobson, G. G.** 1924. Annotationes synonymicae et systematicae de Coleopteris. *Revue Russe d'Entomologie*, Saint-Petersbourg, 18: 237-243.
- Jeniš, I.** 2001. Tesariči - Long-horned Beetles. Distiiniidae, Oxypeltidae, Vesperidae, Anoplodermatidae & Cerambycidae I. *Vesperidae & Cerambycidae Evropy/of Europe I*. Zlin: Atelier Regulus: 333 pp.
- Kaliuzhnaja, N. S., Komarov, E. V. & Cherezova, L. B.** 2000. Coleoptera of lower Volga river. Volgograd: 204 pp. [in Russian]
- Kantardjiewa-Minkova, S.** 1934. Die Arten der Familie Cerambycidae (Col.). II. (Lamiinae). *Mitteilungen der Bulgarischen Entomologischen Gesellschaft in Sofia [Bulletin de la Société Entomologique de Bulgarie]*, 8, 132-144
- Kasatkin, D. G.** 2020. Contribution to the knowledge of the genus *Agapanthia* Audinet-Serville, 1835 (Coleoptera: Cerambycidae: Lamiinae) from the Near East and Transcaucasia. *Caucasian Entomological Bulletin*, 16 (2): 233-249, 79 figs.
- Kasatkin, D. G. & Arzanov, Yu. G.** 1997. "Der Bockkaffer (Cerambycidae). Material für Fauna der Kaffer (Coleoptera) norden Kaukasus und untere Don." [wron translation of the Russian title of the article; must be: "Die Bockkaffer (Cerambycidae) (Teil 2). Die Materialien zur Käferfauna (Coleoptera) des Nordkaukasus und des unteren Don] *Records of Kharkov Entomological Society*, 5 (2): 63-70.
- Klausnitzer, B., Klausnitzer, U., Wachmann, E. & Hromádko, Z.** 2016. Die Bockkaffer Mitteleuropas. Cerambycidae. Band 2: Die mitteleuropäischen Arten. Die Neue Brehm-Bücherei, 499 (2): 3-303, 84, photos. VerlagsKG Wolf. Magdeburg. ISBN: 978-89432-864-1
- Kostova, R., Bekchiev, R. & Beshkov, S.** 2019. Coleoptera and Lepidoptera (Insecta) diversity in the central part of Sredna Gora Mountains (Bulgaria). *Bulletin of the Entomological Society of Malta*, 10: 75-95.
- Kovács, T., Hegyessy, G. & Borsos, S.** 2001. Somogy megye cincéreinek katalógusa (Coleoptera: Cerambycidae). *Natura Somogyiensis*, 2001. 1: 213-220.
- Krynicky, J.** 1834. Addenda et Nonnulla Synonyma Rossiae Meridionalis Coleopterorum. *Bulletin de la Société Impériale des Naturalistes de Moscou*, 7: 166-173.
- Kryzhanovskiy, O. L.** 1974. 35. Fam. Cerambycidae – timber beetles or longicorn beetles. In: *Insects and ticks – pests of agricultural crops*. "Nauka", Leningrad: 139-157. [in Russian]
- Küster, H. C.** 1846. Die Käfer Europa's. Nach der Natur beschrieben. Mit Beiträgen mehrerer Entomologen. Nürnberg, Bauer & Raspe, 7: n° 1-100, 2 pls.
- Lucas, P. H.** 1847. Histoire Naturelle des animaux articulés. Coléoptères. In *Exploration scientifique de l'Algérie pendant les années 1840, 1841, 1842. Sciences Physiques et Zoologie II. (Deuxième partie. Insectes) [1846]*, 2: 1-590, 47 pls.
- Lobanov, A. L., Danilevsky, M. L. & Murzin, S. V.** 1982. Systematic list of longicorn beetles (Coleoptera, Cerambycidae) of the USSR. 2. *Revue d'Entomologie*, 61, 2: 252-277.
- Löbl, I. & Smetana, A.** 2010 (ed.). *Catalogue of Palaearctic Coleoptera. Volume 6 Chrysomeloidea I. Apollo books*, Stenstrup 6: 1-924.
- Migliaccio, E., Georgiev, G. & Gashtarov, V.** 2007. An annotated list of Bulgarian Cerambycids with special view on the rarest species and endemics (Coleoptera: Cerambycidae). *Lambillionea. Revue internationale d'entomologie*, 107 (1), supplément 1: 1-79.
- Mikšić, R.** 1963. Prilog poznavanju faune strizibuba (Cerambycidae) Jugoslavije. *Acta biologica*, 3: 55-188.
- Mikšić, R. & Korpić, M.** 1985. Cerambycidae Jugoslavije, III Dil. Sarajevo: Akademija Nauka i Umjetnosti Bosne i Hercegovine, 148 pp.
- Müller, J.** 1907. Cerambycidae Dalmatiae. *Verhandlungen der Zoologisch Botanischen Gesellschaft in Wien*, 56 [1906]: 653-695.
- Mulsant, É.** 1862. Histoire Naturelle des Coléoptères de France. Longicornes. *Annales de la Société Impériale d'Agriculture, d'Histoire Naturelle et des Arts Utiles de Lyon* 1862: 1-480.
- Muraj, Xh.** 1960. Inventarizimi i fam. Cerambycidae në vendin tonë. Quelques Cerambycides en Albanie. - *Buletin i Universitetit Shtetëror të Tiranës, Seria shkencat natyrore*, 14 (4): 137-141.
- Ogloblin, D. A.** 1948. 73. Fam. Cerambycidae – Timber Beetles or Longhorned Beetles. In: *A Key of the Insects of the European Part of the USSR. Moscow-Leningrad: 450-471* [in Russian]
- Oertzen, E.** 1886. Verzeichnis der Coleopteren Griechenlands und Cretas. *Berliner Entomologische Zeitschrift*, 30: 189-293.
- Özdikmen, H.** 2007. The Longicorn Beetles of Turkey (Coleoptera: Cerambycidae). Part I - Black Sea Region. *Munis Entomology & Zoology*, 2 (2): 179-422.
- Özdikmen, H. & Koçak, Ö.** 2022. Longicorn Beetles of Karaman Province (Turkey) (Coleoptera: Cerambycidae) with new and interesting taxa. *Munis Entomology & Zoology*, 17 (1): 98-117, 2 cartes, 81 figs.
- Özdikmen, H. & Tezcan, S.** 2020. An important contribution to the knowledge of Lamiinae Fauna of Turkey (Coleoptera: Cerambycidae). *Munis Entomology & Zoology*, 15 (2): 463-476.
- Pavičević, D., Ilić, N. & Đurić, M.** 2015. Longhorn beetles of Serbia field guide. Zavod za zaštitu prirode & HabiProt, Belgrade: 1-249, illustrated in colour. ISBN 978-86-80877-51-8
- Pesarini, C. & Pesarini, F.** 2016. I Coleotteri Cerambicidi della Collezione Campadelli (Coleoptera Cerambycidae) (Catalogo sistematico della Collezione Campadelli. VIII contributo). *Quaderni del Museo Civico di Storia Naturale di Ferrara*, 4: 59-70.
- Pesarini, C. & Sabbadini, A.** 2004. Osservazioni sulla sistematica della tribù Agapanthiini Mulsant, 1839 (Coleoptera Cerambycidae). *Atti della Società Italiana di Scienze Naturali e del Museo Civico di Storia Naturale in Milano*, 145 (1): 117-132, 16 figs.

- Pic, M.** 1910. Catalogue bibliographique et synonymique des longicornes d'Europe et régions avoisinantes: suite. Pp. 95-98 [pagination speciale]. In: Matériaux pour servir à l'étude des longicornes. 7ème cahier, 2ème partie. Lyon: Imprimerie Jacquet Frères: 95-98 pp.
- Pic, M.** 1927a. Notes diverses, descriptions et diagnoses (Suite.). L'Échange, Revue Linnéenne, 43 (427): 1-2.
- Pic, M.** 1927b. Travaux scientifiques de l'Armée d'Orient (1916-1918). Coleoptères: Cerambycidae. Bulletin du Muséum National d'Histoire Naturelle, 33: 157-163.
- Picard, F.** 1929. Coléoptères. Faune de France, 20. Paris. Lechevalier. 167 pp.
- Plavilstshikov, N. N.** 1927. Addenda et corrigenda concernant le Coleopterorum Catalogus, parties 73 et 74 (Lamiinae) de Chr. Aurivillius. Encyclopédie Entomologique (Paris) Ser. B. I. Col. 2: 49-68.
- Plavilstshikov, N. N.** 1930. Die Agapanthia-Arten der palaearktischen Region. Bestimmungs-Tabellen der europäischen Coleopteren. 98. Heft. Troppau: Edmund Reitters Nachfolger Emmerich Reitter: 40 pp.
- Plavilstshikov, N. N.** 1932. Timber-beetles – Timber Pests. Moscow, Leningrad: 200 pp. [in Russian]
- Plavilstshikov, N. N.** 1948. A Key for Longicorn Beetles of Armenia. Erevan: 232 pp. [in Russian]
- Plavilstshikov, N. N.** 1965. 75-th Fam. Cerambycidae - Timber Beetles, Longicornes. In: A Key to Insects of the European Part of the USSR, v. 2, Coleoptera and Strepsiptera. Moscow-Leningrad, "Nauka": 389-419. [in Russian]
- Plavilstshikov, N. N.** 1968. Review of the genus *Agapanthia* Serv. (Coleoptera, Cerambycidae) of the USSR fauna. Archives of Zoological Museum Moscow State University, 11: 113-168. [in Russian]
- Plewa, R., Łoś, K., Górski, P.** 2011. New data on the distribution, biology and behavior of some longhorn beetles (Coleoptera, Cerambycidae) from Greece. *Elateridarium*, 5: 232-247.
- Plewa, R., Górski, P., Gazurek, T., Tytkowski, S., Szewczyk, M. & Byk, A.** 2018. New Data on the Occurrence of Longhorn Beetles (Coleoptera: Cerambycidae) in Albania. *Acta zoologica bulgarica*, 70 (2): 179-183.
- Poloni, R. & Morelli, A.** 2021. New or interesting beetles from the Abruzzi region (Central Italy) (Insecta Coleoptera). *Bollettino della Società Entomologica Italiana*, Genova, 153 (1): 39-41.
- Portevin, G.** 1934. Histoire Naturelle des Coléoptères de France. Tome III. Polyphaga: Heteromera, Phytophaga. Paris: Paul Lechevalier et fils, vi + [2] + 374 pp., pls. XI-XV.
- Rapuzzi, P. & Sama, G.** 2012. Contributo alla conoscenza dei Cerambycidae di Albania (Coleoptera, Cerambycidae). *Atti del Museo Civico di Storia Naturale Trieste*, 55: 181-234.
- Reitter, E.** 1898. Ueber die bekannten und einige neue palaearktische *Agapanthia*-Arten. *Wiener Entomologische Zeitung*, 17: 130-135.
- Reitter, E.** 1913. Fauna Germanica. Die Käfer des Deutschen Reiches IV. Nach der analytischen Methode bearbeitet. Stuttgart, K. G. Lutz/Verlag 4 [1912]: 1-236, pls 129-152.
- Roubal, J.** 1936. Katalog Coleopter Slovenska a Podkarpatské Rusi. II. Bratislava: 435 pp.
- Sama, G.** 1988. Fauna d'Italia. Vol. XXV. Coleoptera, Cerambycidae. Catalogo topografico e sinonimico. Bologna: 216 pp.
- Sama, G.** 2003. Atlas of the Cerambycidae of Europe and the Mediterranean Area. Volume 1: Northern, Western, Central and Eastern Europe. British Isles and Continental Europe from France (excl. Corsica) to Scandinavia and Urals. Vlt Kabourek, Zlín, [2002]: 1-173, 729 figs.
- Sama, G. & Rapuzzi, P.** 2011. Una nuova Checklist dei Cerambycidae d'Italia (Insecta Coleoptera Cerambycidae). *Quaderno di Studi e Notizie di Storia Naturale della Romagna*, 32: 121-164.
- Samin, N., Warchalowski, A., Navaeian, M., Jedryczkowski, W.B., Sakenin, H., Hawkeswood, T.J., Kubisz, D. & Bunalski, M.** 2020. On a collection of Cerambycidae and Chrysomelidae (Coleoptera) from Iran. *Calodema*, 800: 1-5, 3 figs.
- Serafim, R. & Chimişliu, C.** 2010. Contributions to the knowledge of the diversity of cerambycids (Coleoptera: Chrysomeloidea: Cerambycidae) from Oltenia fauna, Romania. *Muzeul Olteniei Craiova. Oltenia. Studii si comunicari. Stiintele Naturii*, 26 (2): 112-132, 2 figs.
- Shapovalov, A.M.** 2012. Longicorn-beetles (Coleoptera, Cerambycidae) of Orenburg Region: fauna, distribution, bionomy. *Archives of Orenburg Branch of Russian Entomological Society*, 3. Orenburg: Orenburg Branch of Russian Entomological Society: 224 p. [in Russian]
- Shapovalov, A.M., Nemkov, V.A., Rusakov, A.V., Shovkun, D.F.** 2006. Longhorn beetles (Coleoptera, Cerambycidae) of the Orenburg region. *Bulletin of the Orenburg State University*, appendix, materials of the III International Conference "Biodiversity and Bioresources of the Urals and Adjacent Territories". Orenburg: OGU Publishing, 4: 105-109.
- Siering, G. & Shumka, S.** 2015. Die Bockkäfer-Fauna (Coleoptera, Cerambycidae) des Shkumbin-Tales und weiterer Gebiete bei Librazhd (Albanien). *Entomologische Blätter und Coleoptera*, 111: 459-463. [Entomologische Blätter für Biologie und Systematik der Käfer]
- Siering, G., Fremuth, W. & Heinemann, K.** 2015. Die Bockkäfer-Fauna (Coleoptera, Cerambycidae) des Prespa-Nationalparks in Albanien. *Entomologische Blätter und Coleoptera*, 111: 43-56, 6 figs. [Entomologische Blätter für Biologie und Systematik der Käfer]
- Siering, G., Shumka, S. & Rothe, U.** 2016. Beitrag zur Kenntnis der Bockkäfer-Fauna Albaniens (Coleoptera, Cerambycidae). - *Entomologische Blätter und Coleoptera*, 112 (2): 41-50. [Entomologische Blätter für Biologie und Systematik der Käfer]
- Schatzmayer, A.** 1943. Coleotteri raccolti dal capitano Leonida Boldori in Albania. *Atti della Società Italiana di Scienze Naturali e del Museo Civico di Storia Naturale in Milano*, 82 (2): 93-140.
- Schauffuss, C. F. Ch.** 1916. Calwer's Käferbuch Einführung in die Kenntnis der Käfer Europas. Stuttgart, Schweizerbart'sche Verlag (sechste Auflage), 2: 709-1390, figs 251-254, pls 21-48.
- Sláma, M.** 1986. New taxa of the genus *Agapanthia* from the Mediterranean region (Coleoptera, Cerambycidae). *Acta Entomologica Bohemoslovaca*, 83 (6): 465-472, 5 figs.
- Sláma, M.** 1998. *Tesaříkoviti* – Cerambycidae České republiky a Slovenské republiky (Brouci – Coleoptera). Praha: 383 pp.
- Sláma, M.** 2017. Descriptions of two new species in the genus *Agapanthia* (Coleoptera, Cerambycidae). *Humanity space. International almanac*, 6 (1): 61-68.
- Sláma, M. & Slámová, J.** 1996. Contribution to the recognition of Greek and Yugoslavian Longicorn beetles (Coleoptera, Cerambycidae). *Biocosme Mésogéen*, Nice, 12 (1995), (4): 117-143.
- Steiner, S. & Schmid, H.** 2013. Eine neue *Agapanthia*-Art (Coleoptera: Cerambycidae: Lamiinae: *Agapanthiini*) aus Griechenland. *Zeitschrift der Arbeitsgemeinschaft Österreichischer Entomologen*, 65: 1-4, 5 figs.
- Sturani, C.** 1981. *Notizie biologiche e corologiche su alcuni Coleotteri Cerambycidi d'Italia, specialmente delle regioni settentrionali, insulari e limitrofe.* *Rivista piemontese di storia naturale*, 2: 17-54.

- Tekin, K. & Özdikmen, H.** 2015. A contribution of turkish Longhorned Beetles Fauna from Bursa (Coleoptera: Cerambycidae). *Munis Entomology & Zoology*, 10 (1): 122-130, 1 carte.
- Varli, S. V., Tüven, A., Sürgüt, H. & Özdikmen, H.** 2019. Preliminary work on longhorned beetles fauna (Coleoptera: Cerambycidae) of Balıkesir province in Turkey with new faunistic records. *Munis Entomology & Zoology*, 14 (1): 88-95.
- Villiers, A.** 1946. Faune de l'Empire français. V. Coléoptères cerambycides de l'Afrique du Nord. Paris: Office de la Recherche Scientifique Coloniale, 152 + [1] pp.
- Villiers, A.** 1959. Cérambycides de Turquie. *L'Entomologiste*, Paris, 15 (1-2): 7-11.
- Villiers, A.** 1978. Faune des Coléoptères de France I. Cerambycidae. Paul Lechevalier, Paris. *Encyclopédie Entomologique* 42: i-xxviii + 611 pp, 1802 figs.
- Vives, E.** 2000. Coleoptera, Cerambycidae. Fauna Iberica. Vol. 12. Museo Nacional de Ciencias Naturales, CSIC, Madrid: 715 pp.
- Winkler, A.** 1929. *Catalogus Coleopterorum regionis palaearticae*. II. Pars 9-10. Wien: 1009-1264.
- Zaitzev, F. A.** 1954. Timber-beetles (Cerambycidae) in the fauna of Georgia. *Archives of the Institute of Zoology of the Academy of Sc. Of Georgian SSR*, 13: 5-27 [in Russian]
- Zamoroka, A. M., Panin, R. Y., Kapelukh, Y. I. & Podobivskiy, S. S.** 2012. The catalogue of the Longhorn Beetles of Western Podillya, Ukraine (Coleoptera: Cerambycidae). *Munis Entomology & Zoology*, 7 (2): 1145-1177, 1 carte.
- Zamoroka, A. M.** 2022. The longhorn beetles (Coleoptera, Cerambycidae) of Ukraine: Results of two centuries of research. *Biosystems Diversity*, 30 (1): 46-73.