



IRINEL EUGEN POPESCU

Entomology, Parasitology, Biological Control, Pest Management, Anthropized Ecosystems, Biodiversity. Associate Professor, PhD

irinellus@yahoo.com

Phone: (40) 0721777525

Alexandru Ioan Cuza University, Faculty of Biology, Bd. Carol I nr. 11, 700506 Iasi, Romania

<https://www.researchgate.net/profile/Irinel-Eugen-Popescu>

Personal Web Sites:

<https://sites.google.com/site/irinelchalcidoidea/>

<https://sites.google.com/site/irinelinsectphotos/>



Fields of research:

-The parasitoid-phytophagous-plant relations, galls.

-Taxonomy, systematics, biology and ecology of Chalcidoidea (Hymenoptera), especially Torymidae, Megastigmidae, Ormyridae, Pteromalidae (sensu lato), Perilampidae, Eucharitidae, Eupelmidae, Chalcididae, Leucospidae, Eurytomidae families.

-Vice-president of the AquaTerra Ecological Society from Iași, Romania, with major activities on the management of natural reserves and personal interest especially on the steppes regions.

Relevant publications:

- Popescu, I.E., Gostin, I.N. A New Species of *Megastigmus* and First Record of the Genus and Megastigmidae Family from the Paradise of the Maldives Archipelago. *Insects* 2023, 14 (8), 677: 1-20. <https://doi.org/10.3390/insects14080677>
- Doğanlar M., Gibson G. A. P., Ghahari H., Yoo J, Popescu I. E. 2021 – Family Chalcididae, pp. 72-90. In: Ghahari H., Gibson G. A. P., Viggiani G. (Editors) 2021 – Chalcidoidea of Iran (Insecta: Hymenoptera). CABI International, 480 pp. (ISBN 9781789248463) <https://doi.org/10.1079/9781789248463.0004>
- Zerova M. D., Jansta P., Ghahari H., Gibson G. A. P., Doğanlar M., Popescu I. E., Fursov V. N. 2021 – Family Megastigmidae, pp. 260-266. In: Ghahari H., Gibson G. A. P., Viggiani G. (Editors) 2021 – Chalcidoidea of Iran (Insecta: Hymenoptera). CABI International, 480 pp. (ISBN 9781789248463) <https://doi.org/10.1079/9781789248463.0012>
- Zerova M. D., Jansta P., Ghahari H., Doğanlar M., Fursov V., N. Gibson G. A. P., Popescu I. E., 2021 – Family Torymidae, pp. 366-383. In: Ghahari H., Gibson G. A. P., Viggiani G. (Editors) 2021 – Chalcidoidea of Iran (Insecta: Hymenoptera). CABI International, 480 pp. (ISBN 9781789248463) <https://doi.org/10.1079/9781789248463.0019>
- Popescu, I.E., Gostin, I.N. *Lasioptera rubi*, a Pest of *Rubus idaeus*: Galls Morphology, Anatomy and Histochemistry. *Agriculture*. 2024, 14(10), 1761: 1-27. <https://doi.org/10.3390/agriculture14101761>
- Gostin, I.N., Popescu, I.E., Blidar, C.F. Structural Particularities of Gall Neoformations Induced by *Monarthropalpus flavus* in the Leaves of *Buxus sempervirens*. *Plants* 2025, 14(3), 453: 1-15. <https://doi.org/10.3390/plants14030453>
- Popescu I. E. (coordinator), Markó, B., Tăușan, I., Fusu L., Popa F. A., Popovici O. A., Oleksander V. 2021 – Ord. Hymenoptera, pp. 381 – 440. In: Murariu D., Maican S. (coordinators) –The Red Book of Invertebrates of Romania. Romanian Academy Publishing House, 443 pp. (ISBN 978-973-27-3357-8) [\(PDF\) The Red Book of Invertebrates of Romania -Hymenoptera](#)
- Popescu, I.E., Gostin, I.N. A Biodiversity Hotspot for European Invertebrates of Community Importance (Natura 2000), Bârnova-Repedea Forest in Romania (ROSCI0135). *Conservation* 2025, 5(3), 41: 1-36 + 4. <https://doi.org/10.3390/conservation5030041>
- Gostin, I.N.; Popescu, I.E. Evaluation of the Essential Oils Used in the Production of Biopesticides: Assessing Their Toxicity toward Both Arthropod Target Species and Beneficial Pollinators. *Agriculture* 2024, 14 (1), 81: 1-29. <https://doi.org/10.3390/agriculture14010081>
- Popescu, I.E.; Gostin, I.N.; Blidar, C.F. An Overview of the Mechanisms of Action and Administration Technologies of the Essential Oils Used as Green Insecticides. *AgriEngineering* 2024, 6: 1195-1217. <https://doi.org/10.3390/agriengineering6020068>
- Gostin, I.N.; Popescu, I.E. Russian Sage Revealed: Exploring Biology, Cultivation, and Chemical Dimensions of *Salvia yangii*. *Agronomy* 2025, 15(4), 868: 1-22. <https://doi.org/10.3390/agronomy15040868>
- Popescu, I. E. 2009 –First record of *Glyphomerus isosomatis* Zerova et Seryogina, 1999 and of the subgenus *Lioterphus* of the genus *Torymus* (Hymenoptera: Chalcidoidea: Torymidae) in Romania. *North-Western Journal of Zoology*, 5 (2): 434-438. <https://biozoojournals.ro/nwzj/content/v5.2/nwzj.051209.Popescu.pdf>

- Popescu, I. E. 2009 –Torymidae and Eurytomidae (Hymenoptera: Chalcidoidea) from București city and the surrounding area. Travaux du Muséum National d'Histoire Naturelle “Grigore Antipa” București, 52: 457-477. [\(PDF\) Torymidae and Eurytomidae \(Hymenoptera: Chalcidoidea\) from București city and the surrounding area](#)
- Popescu, I. E. 2006 –A Faunistic Review of the Romanian Torymidae Fauna (Hymenoptera, Chalcidoidea, Torymidae). Analele Științifice ale Univ. “Al. I. Cuza” Iași, seria Biologie Animală, 52: 163-174. [\(PDF\) A FAUNISTIC REVIEW OF THE ROMANIAN TORYMIDAE FAUNA \(HYMENOPTERA, CHALCIDOIDEA, TORYMIDAE\)](#)
- Popescu, I. E. 2006 –A Faunistic Review of the Romanian Eurytomidae Fauna (Hymenoptera, Chalcidoidea, Eurytomidae). Analele Științifice ale Univ. “Al. I. Cuza” Iași, seria Biologie Animală, 52: 175-184. [\(PDF\) A FAUNISTIC REVIEW OF THE ROMANIAN EURYTOMIDAE FAUNA \(HYMENOPTERA, CHALCIDOIDEA, EURYTOMIDAE\)](#)
- Popescu, I. E. 2006 –Torymid and Eurytomid Wasps (Hymenoptera, Chalcidoidea: Torymidae, Eurytomidae) of Piatra Craiului National Park (Brașov, Romania). Research in Piatra Craiului National Park, 2, Editura Universității “Transilvania”, Brașov: 170-177. [\(PDF\) Torymid and Eurytomid Wasps \(Hymenoptera, Chalcidoidea: Torymidae, Eurytomidae\) of Piatra Craiului National Park \(Brașov, Romania\)](#)
- Popescu, I. E. 2006 –Eurytomid Wasps (Hymenoptera, Chalcidoidea, Eurytomidae) New for Romanian Fauna (III). Analele Științifice ale Univ. “Al. I. Cuza” Iași, seria Biologie Animală, 52: 155-161. [\(PDF\) EURYTOMID WASPS \(HYMENOPTERA, CHALCIDOIDEA, EURYTOMIDAE\) NEW FOR ROMANIAN FAUNA \(III\)](#)
- Popescu, I. E. 2004 –Eurytomid Wasps (Hymenoptera, Chalcidoidea, Eurytomidae) New for Romanian Fauna (II). Analele Științifice ale Univ. “Al. I. Cuza” Iași, seria Biologie Animală, 50: 97-103. [\(PDF\) Eurytomid Wasps \(Hymenoptera, Chalcidoidea, Eurytomidae\) New for Romanian Fauna \(II\)](#)
- Popescu, I. E. 2003 –Torymid Wasps (Hymenoptera, Chalcidoidea, Torymidae) New for Romanian Fauna. Analele Științifice ale Univ. “Al. I. Cuza” Iași, seria Biologie Animală, 49: 83-86. [\(PDF\) Torymid Wasps \(Hymenoptera, Chalcidoidea, Torymidae\) New for Romanian Fauna](#)
- Popescu, I. E., Fusu, L. 2003 – Eurytomid Wasps (Hymenoptera, Chalcidoidea, Eurytomidae) New for Romanian Fauna. Analele Științifice ale Univ. “Al. I. Cuza” Iași, seria Biologie Animală, 49: 79-82. [\(PDF\) Eurytomid Wasps \(Hymenoptera, Chalcidoidea, Eurytomidae\) New for Romanian Fauna](#)
- Popescu, I. E. 2002 –Contributions to the Knowledge of the Torymid Wasps (Hymenoptera, Chalcidoidea, Torymidae) from the “Maritime Dune Natural Reserve from Agigea” (Constanța, Romania). Analele Științifice ale Univ. “Al. I. Cuza” Iași (Serie Nouă), Supliment: 274-280. [\(PDF\) Contributions to the Knowledge of the Torymid Wasps \(Hymenoptera, Chalcidoidea, Torymidae\) from the “Maritime Dune Natural Reserve from Agigea” \(Constanța, Romania\)](#)
- Popescu, I. E., Andriescu, I., Fusu, L. 2002 –Contributions to the Knowledge of the Torymid Wasps (Hymenoptera, Chalcidoidea, Torymidae) from “Valea lui David” Hayfields Natural Reserve (Iași, Romania). In: In Memoriam “Professor Dr. Doc. Vasile Gh. Radu” Corresponding Member of Romanian Academy of Sciences, “Babeș-Bolyai” University, Departament of Zoology, Presa Universitară Clujană: 25-32. [\(PDF\) Contributions to the Knowledge of the Torymid Wasps \(Hymenoptera, Chalcidoidea, Torymidae\) from “Valea lui David” Hayfields Natural Reserve \(Iași, Romania\)](#)
- Popescu, I. E. 2001 –Contributions to the Knowledge of the Eurytomid Wasps (Hymenoptera, Chalcidoidea, Eurytomidae) from “Valea lui David” Hayfields Natural Reserve (Iași, Romania). Analele Științifice ale Univ. “Al. I. Cuza” Iași, 47, Sect. 1, Biologie Animală: 35-41. [\(PDF\) Contributions to the Knowledge of the Eurytomid Wasps \(Hymenoptera, Chalcidoidea, Eurytomidae\) from “Valea lui David” Hayfields Natural Reserve \(Iași, Romania\)](#)
- Gîdei P., Popescu I. E. 2014 - Guide to Coleoptera of Romania, Vol. II., Ed. PIM Iași, 531 pp (in Romanian). [\(PDF\) Guide to Coleoptera of Romania, Vol. II. \(Ghidul coleoptelor din România, volumul II\)](#)
- Gîdei P., Popescu I. E. 2012 – Guide to Coleoptera of Romania, Vol. I., Ed. PIM Iași, 533 pp (in Romanian). [\(PDF\) Guide to Coleoptera of Romania, Vol. I. \(Ghidul coleoptelor din România, volumul I\)](#)
- Pisică, C., Popescu, I. E. 2009 – Le Catalogue des Ichneumonides (Hymenoptera: Ichneumonidae) de Roumanie. PIM Press, Iași, Romania, 354 pp (in French). [\(PDF\) Le Catalogue des Ichneumonides \(Hymenoptera: Ichneumonidae\) de Roumanie](#)
- Moglan, I., Popescu, I. E. 2009 – Animal Parasitology. Al. I. Cuza University Press, Iași, Romania, 208 pp (in Romanian). [\(PDF\) Animal Parasitology \(Parazitologie animală\)](#)
- Gîdei, P., Popescu, I. E. 2009 – Guide for Coleoptera Studying. PIM Press, Iași, Romania, 420 pp (in Romanian).
- Zamfirescu, Ș. R., Zamfirescu, O., Popescu, I. E., Ion, C., Strugariu, A. 2008 – The Meadow Viper (*Vipera ursinii moldavica*) and its habitats from Moldavia (Romania). Al. I. Cuza University Press, Iași, Romania, 141 pp (in Romanian). [\(PDF\) Vipera de stepa \(Vipera ursinii moldavica\) si habitatele sale din Moldova \(Romania\)](#)
- Oprea, A., Davideanu, G., Davideanu, A., Popescu, I. E., Ion, I., Gache, C. 2008 – Conservation status of the biodiversity from the border area Romania – Republic of Moldova. Governmental Agency for Environment Protection, Iași, Romania, 70 pp (in Romanian).
- Oprea, A., Davideanu, G., Davideanu, A., Popescu, I. E., Ion, I., Gache, C. 2008 – Red list of plant and animal species from the border area Romania – Republic of Moldova. Governmental Agency for Environment Protection, Iași, Romania, 72 pp (in Romanian).
- Popescu I. E. 2012 –At the Gates of Silence, Ed. PIM Iași, 80 pp (in Romanian, poems and insect photos).

- Popovici O. A., Popescu I. E. 2022 -*Platyscelio* hits again: the first record of this genus in the Dominican Republic. *Travaux du Muséum National d'Histoire Naturelle "Grigore Antipa" București*, 65 (2): 127-134. [10.3897/travaux.65.e98045](https://doi.org/10.3897/travaux.65.e98045).
- Popescu, I.E. 2024 On the Northern Limits of *Scolopendra cingulata* with new data from Romania. *Proceedings of 24th International Multidisciplinary Scientific GeoConference SGEM 2024*, 24, 4(2). (STEF92 Technology, ISBN 978-619-7603-77-4, ISSN 1314-2704) <https://doi.org/10.5593/sgem2024v/4.2/s19.44>
- Popescu I. E., Iorgu I. Ș. 2016 – The Second Confirmed Station for *Carabus hungaricus* (Fabricius, 1792) (Coleoptera: Carabidae) in Romania. *Travaux du Muséum National d'Histoire Naturelle "Grigore Antipa" București*, 59 (1): 81-84. [\(PDF\) The Second Confirmed Station for Carabus hungaricus \(Fabricius, 1792\) \(Coleoptera: Carabidae\) in Romania](#)
- Manci C. O., Popescu I. E. 2016 – Fifty Years Later: The Rediscovery of *Leucorrhinia pectoralis* (Odonata: Libellulidae) in Romania. *Travaux du Muséum National d'Histoire Naturelle "Grigore Antipa" București*, 59 (2): 109-113. [\(PDF\) Fifty years later: the rediscovery of Leucorrhinia pectoralis \(Odonata: Libellulidae\) in Romania](#)
- Mitroiu, M, Popescu, I. E. 2006 – Pteromalidae (Hymenoptera, Chalcidoidea) Identified in Piatra Craiului National Park, Including Two Genera and Six Species New to Romania. *Research in Piatra Craiului National Park*, 3, Editura Universității "Transilvania", Brașov: 140-143. [\(PDF\) Pteromalidae \(Hymenoptera, Chalcidoidea\) Identified in Piatra Craiului National Park, Including Two Genera and Six Species New to Romania](#)
- Popovici, O., Popescu, I. E., 2006 – Platygastriid and Scelionid Wasps (Hymenoptera, Platygastroidea: Platygastriidae, Scelionidae) of Piatra Craiului National Park (Romania). *Research in Piatra Craiului National Park*, 3, Editura Universității "Transilvania", Brașov: 144-149. [\(PDF\) Platygastriid and Scelionid Wasps \(Hymenoptera, Platygastroidea: Platygastriidae, Scelionidae\) of Piatra Craiului National Park \(Romania\)](#)
- Fusu, L., Popescu, I. E. 2006 – Encyrtid Wasps (Hymenoptera, Chalcidoidea, Encyrtidae) of Piatra Craiului National Park (Romania). *Research in Piatra Craiului National Park*, 2, Editura Universității "Transilvania", Brașov: 178-182. [\(PDF\) Encyrtid Wasps \(Hymenoptera, Chalcidoidea, Encyrtidae\) of Piatra Craiului National Park \(Romania\)](#)
- Fusu, L., Popescu, I. E. 2003 – New Contributions to the Study of Romanian Encyrtid Wasps (Hymenoptera, Encyrtidae) Fauna. *Analele Științifice ale Univ. "Al. I. Cuza" Iași, Seria Biologie Animală*, 49: 87-93. [\(PDF\) NEW CONTRIBUTIONS TO THE STUDY OF ROMANIAN ENCYRTID WASP \(HYMENOPTERA, ENCYRTIDAE\) FAUNA](#)
- Fusu, L., Andriescu, I., Popescu, I. E. 2002 – Contributions to the Study of the Encyrtidae (Hymenoptera, Chalcidoidea) from "Valea lui David" Hayfields Natural Reserve (Iași, Romania). In: *In Memoriam "Professor Dr. Doc. Vasile Gh. Radu" Corresponding Member of Romanian Academy of Sciences, "Babeș-Bolyai" University, Department of Zoology, Presa Universitară Clujană*: 95-101. [\(PDF\) Contributions to the Study of the Encyrtidae \(Hymenoptera, Chalcidoidea\) from "Valea lui David" Hayfields Natural Reserve \(Iași, Romania\)](#)
- Popescu, I. E., Davideanu, A., 2009 – Conservation status of protected or rare invertebrates from the border area Romania – Republic of Moldova. *Advances in Environmental Sciences*, 1 (1): 43-53. [\(PDF\) Conservation status of protected or rare invertebrates from the border area Romania – Republic of Moldova](#)
- Cojocaru, I., Popescu, I. E. 2004 – La diversité des coléoptères aquatiques (Insecta, Coleoptera) du marais de Văcărești (Bucarest). *Analele Științifice ale Univ. "Al. I. Cuza" Iași, seria Biologie Animală*, 50: 77-83. [\(PDF\) LA DIVERSITÉ DES COLÉOPTÈRES AQUATIQUES \(INSECTA, COLEOPTERA\) DU MARAIS DE VACĂREȘTI \(BUCAREST\) PAR](#)
- Popescu, I. E., Zamfirescu, Ș. 2004 – Synecological Analysis of a Wheat Field Ground Beetles Community from Letea (Bacău District). *Analele Științifice ale Univ. "Al. I. Cuza" Iași, seria Biologie Animală*, 50: 173-183. [\(PDF\) SYNECOLOGICAL ANALYSIS OF A WHEAT FIELD GROUND BEETLES COMMUNITY FROM LETEA \(BACĂU DISTRICT\)](#)
- Varvara, M., Popescu, I. E. 1999 – Contributions to the Knowledge of Populations of Carabidae from the Ceahlău Massif. *Studii și Cercetări Științifice, Seria Biologie, Universitatea din Bacău*, 4: 85-95.
- Pricop E., Negrea B. M., Popescu I. E., Iorgu I. Ș., 2012 –First record of *Saga pedo* (Orthoptera, Tettigoniidae) in Suceava County with notes on its distribution in eastern Romania. *Advances in Environmental Sciences*, 4 (3): 171-177. [\(PDF\) First record of Saga pedo \(Orthoptera, Tettigoniidae\) in Suceava County with notes on its distribution in Eastern Romania](#)
- Părvulescu, L., Popescu, I. E., 2011 –Crayfish species (Crustacea: Decapoda) from the border area Romania – Republic of Moldova. *Advances in Environmental Sciences* 3 (1): 1-3.
- Zamfirescu, R. Ș., Zamfirescu, O., Popescu, I. E., Ion, C. 2009 – Preliminary data on the population characteristics of *Vipera ursinii moldavica* from "Dealul lui Dumnezeu" (Iași County, Romania) with notes on conservation. *North-Western Journal of Zoology*, 5 (1): 85-96. [Preliminary data on the population characteristics of Vipera ursinii moldavica from "Dealul lui Dumnezeu" \(Iași County, Romania\) with notes on conservation](#)
- Zamfirescu, R. Ș., Zamfirescu, O., Ion, C., Popescu, I. E., 2007 – Research on the Habitats of *Vipera ursinii moldavica* populations from Iași County. *Analele Științifice ale Univ. "Al. I. Cuza" Iași, seria Biologie Animală*, 53: 159-166. [\(PDF\) RESEARCH ON THE HABITATS OF VIPERA URSINII MOLDAVICA POPULATIONS FROM IAȘI COUNTY](#)
- Zamfirescu R. Ș., Strugariu, A., Zamfirescu, O., Gorgan, L., Ion, C., Popescu, I., Gherghel, I. 2011 -*Vipera ursinii moldavica* in Eastern Romania (Moldavian Meadow Viper). In: Dragone, C & Lisse, H (eds.) *Technical guide to manage and monitor populations of Orsini's viper*. European LIFE Program 06/Net/F/00143 "Conservation of French populations of Orsini's viper". pp. 109-115. [\(PDF\) Vipera ursinii moldavica in Eastern Romania \(Moldavian Meadow Viper\)](#)

- Davideanu, G., Davideanu, A., Popescu, I. E. 1997 – Contributions a la connaissance de la ichtyofauna actuel de la riviere Birlad. Analele Științifice ale Univ. “Al. I. Cuza” Iași, Seria Biologie Animală, 42-43: 85-90.
- Davideanu G., Davideanu A., Popescu Irinel E. 2010 –Data concerning some fish communities from the south part of Romania. Studii și Comunicări, Complexul Muzeal de Științele Naturii “Ion Borcea” Bacău, 23: 116-124.
- Bulat D., Bulat D., Davideanu A., Popescu I., Davideanu G., 2016 –Romania - Republic of Moldova joint study concerning the fish fauna in Stanca-Costesti reservoir. Aquaculture, Aquarium, Conservation and Legislation, 9 (3): 550-563. [\(PDF\) Romania – Republic of Moldova joint study concerning the fish fauna in Stanca-Costesti reservoir](#)
- Davideanu G., Popescu I., Fotea M., Oprea E., Davideanu A., Crăciun N., Irimia D. 2015 –Data on ichthyofauna of Stâncă-Costești Lake. Чтени я памяти кандидата би ологич ески х наук, доцента Л.Л. Попа, Тирасполь, 2015 (ISBN 978-9975-3081-0-6), pp. 11-21. [\(PDF\) Data on ichthyofauna of Stâncă-Costești Lake](#)
- Popescu I. E. 2013 – Unicity of Natural Heritage from David’s Valley Hay Fields Natural Reserve, Iași. Mnemosyne, 4: 7-37. [\(PDF\) Unicity of Natural Heritage from David’s Valley Hay Fields Natural Reserve, Iași \(Unicitatea patrimoniului natural din Rezervația de fânețe seculare de la Valea lui David Iași\)](#)
- Popescu I. E. 2013 –David’s Valley Hay Fields Natural Reserve, Iași. In: Susai, Ș. 2013 –Miroslava Village. About Places and People. Ed. Masterprint, Iași, 208 pp., pp. 169-186.
- Popescu I. E. 2012 –Văcărești Valley from “Frozen in the Project” to the Largest Urban Natural Park in Romania. Mnemosyne, 3: 33-41. [\(PDF\) Văcărești Valley from “Frozen in the Project” to the Largest Urban Natural Park in Romania \(Groapa Văcărești de la „încremenirea în proiect” la cel mai mare parc natural urban din România\)](#)
- Lascu, C., Helmut, I., Mihai, C., Popescu, I. E. 2012 –Delta between buildings. National Geographic (Romanian edition) 109: 29-51.
- Pricop, E. I., Negrea, B. M., Gherghel, I., Popescu, I. E. 2010 –The situation of *Centaurea marschalliana* Spreng. (Asteraceae: Centaureinae) population from “Movila lui Burcel” natural reserve (Vaslui county, Romania) and the negative impact in this protected area of religious buildings raised up inside the site. Advances in Environmental Sciences 2 (1): 91-96. [\(PDF\) The situation of *Centaurea marschalliana* Spreng. \(Asteraceae: Centaureinae\) population from “Movila lui Burcel” natural reserve \(Vaslui county, Romania\) and the negative impact in this protected area of religious buildings raised up inside the site](#)
- Popescu, I. E. 2010 – The danger of dogmatic thinking on the acceptance and understanding of the place of man in nature in the educational system, pp. 152-157. In: E. Iliescu, D. Munteanu, A. E. Tomorug, E. Șalariu (Editors) –Ecological education: strategy and finality. Ed. Alfa, Iași, 290 pp (in Romanian).
- Popescu I. 2015 –Science and religion in education: dogma and mysticism versus freedom of thinking. In: Proceedings of the 2nd CommScie International Conference “Challenges for Sciences and Society in Digital Era”, December 2015, Iasi, Romania, Ed. Pim, 293 pp., (ISBN 978-606-13-2892-5) pp. 189.
- Popescu I. E. 2011 –In Memoriam Professor Constantin Pisciă. Analele Științifice ale Univ. “Al. I. Cuza” Iași, seria Biologie Animală, 57: 189-200.

