

ECOLOGIA BALKANICA

International Scientific Research Journal of Ecology

Volume 6, Issue 2
December 2014



UNION OF SCIENTISTS IN BULGARIA - PLOVDIV



UNIVERSITY OF PLOVDIV PUBLISHING HOUSE

International Standard Serial Number
Print ISSN 1314-0213; Online ISSN 1313-9940

Aim & Scope

„Ecologia Balkanica“ is an international scientific journal, in which original research articles in various fields of Ecology are published, including ecology and conservation of microorganisms, plants, aquatic and terrestrial animals, physiological ecology, behavioural ecology, population ecology, population genetics, community ecology, plant-animal interactions, ecosystem ecology, parasitology, animal evolution, ecological monitoring and bioindication, landscape and urban ecology, conservation ecology, as well as new methodical contributions in ecology. Studies conducted on the Balkans are a priority, but studies conducted in Europe or anywhere else in the World is accepted as well.

Published by the Union of Scientists in Bulgaria – Plovdiv and the University of Plovdiv Publishing house – twice a year. Language: English.

Peer review process

All articles included in “Ecologia Balkanica” are peer reviewed. Submitted manuscripts are sent to two or three independent peer reviewers, unless they are either out of scope or below threshold for the journal. These manuscripts will generally be reviewed by experts with the aim of reaching a first decision as soon as possible. The journal uses the double anonymity standard for the peer-review process. Reviewers do not have to sign their reports and they do not know who the author(s) of the submitted manuscript are.

We ask all authors to provide the contact details (including e-mail addresses) of at least four potential reviewers of their manuscript. These should be experts in their field of study, who will be able to provide an objective assessment of the manuscript. Any suggested peer reviewers should not have published with any of the authors of the manuscript within the past five years and should not be members of the same research institution. Members of the Editorial Board of the journal can be nominated. Suggested reviewers will be considered alongside potential reviewers identified by their publication record or recommended by Editorial Board members.

Once an article is accepted, it is published in Ecologia Balkanica immediately online first as a PDF file. The paper will subsequently be published in both full text formatted PDF online (open access) and in the print copy of the journal.

Abstracting & Covarage

- CAB International - CAB Abstracts
- Directory of Open Access Journals (DOAJ)
- GeoBase (Elsevier)
- Index Coupernicus
- Ulrich’s Web (ProQuest)
- Zoological Record (Thompson Reuters)
- IMBIOMED
- Reasearch4Life (OARE, AGORA, HINARI)
- BASE (Bielefeld Academic Search Engine)
- EBSCO
- All-Russian Institute of Scientific and Technical Information (VINITI) (Referativnyi zhurnal)
- Socol@r (China)
- Google Scholar Search Engine and many others.

Editorial Board

Editor-In-Chief:

Prof. Iliana Velcheva, PhD
University of Plovdiv, Department of Ecology and Environmental Conservation, BULGARIA

Co-Editor-In-Chief:

Ch. Assist. Prof. Ivelin Mollov, PhD - University of Plovdiv, Department of Ecology, BULGARIA

Secretary:

Ch. Assist. Prof. Vessela Yancheva, PhD - University of Plovdiv, Department of Ecology, BULGARIA

Editorial Board:

Assoc. Prof. Simeon Vasilev, PhD - Chairman of Union of Scientists in Bulgaria - Plovdiv, BULGARIA
Assoc. Prof. Gana Gecheva, PhD - University of Plovdiv, Department of Ecology, BULGARIA
Assoc. Prof. Dilian Georgiev, DSc - University of Plovdiv, Department of Ecology, BULGARIA
Ch. Assist. Prof. Slaveya Petrova, PhD - University of Plovdiv, Department of Ecology, BULGARIA

Associate Editors:

Prof. Peter Genov, DSc - Institute of Zoology, BAS, Sofia, BULGARIA
Prof. Georgi Georgiev, DSc - Forest Research Institute, BAS, Sofia, BULGARIA
Prof. Panos Economidis, Dsc - Aristotle University, Laboratory of Ichthyology, GREECE
Prof. Dan Cogălniceanu, PhD - Ovidius University Constanta, ROMANIA
Prof. Bilal Öztürk, PhD - EGE University, Izmir, TURKEY
Prof. Elena Zheleva, PhD - University of Forestry, Sofia, BULGARIA
Prof. Aziza Sharaby, PhD - National Research Center, Cairo, EGYPT
Assoc. Prof. Željko Tomanović, DSc - Belgrade University, Faculty of Biology, SERBIA
Assoc. Prof. Dimitar Bechev, DSc - University of Plovdiv, Department of Zoology, BULGARIA
Assoc. Prof. Angel Tsekov, PhD - University of Plovdiv, Department of Ecology, BULGARIA
Assoc. Prof. Atanas Arnaudov, PhD - University of Plovdiv, Faculty of Biology, BULGARIA
Assoc. Prof. Vencislava Vancheva, PhD - Agriculture University, Plovdiv, BULGARIA
Assoc. Prof. Jordan Živanović, PhD - Goce Delcev University, Stip, MACEDONIA
Assoc. Prof. Vladimir Pešić, PhD - University of Montenegro, Depart. Biology, MONTENEGRO
Assoc. Prof. Snezana Stavreva-Veselinovska, PhD - Goce Delcev University, MACEDONIA
Assist. Prof. Ignacy Kitowski, PhD - University of Life Sciences in Lublin, POLAND
Assist. Prof. Joanna Czarnecka, PhD - Maria Curie-Skłodowska University, Lublin, POLAND
Assist. Prof. Kerim Çiçek, PhD - Ege University, Bornova/Izmir, TURKEY
Assist. Prof. Marko Sabovljević - University of Belgrade, Institute of Botany and Garden, SERBIA
Dimitra Bobori, PhD - Aristotle University, School of Biology, Thessaloniki, GREECE

Contact Publisher

Union of Scientists in Bulgaria - Plovdiv
6 Metropolit Paisii Str., 4000 Plovdiv,
BULGARIA
E-mail: ecologia_balkanica@abv.bg

University of Plovdiv Publishing House
24 Tsar Assen Str., 4000 Plovdiv, BULGARIA

Note that there is also an electronic version of the journal - **open access**. You may download the full text version of "Ecologia Balkanica" - Volume 6, Issue 2/2014 from:

<http://eb.bio.uni-plovdiv.bg>

Partners and collaborators



Index Copernicus (IC) is a world-wide gateway to complex scientific information. This system is aimed at: academic-level researchers, clinical practitioners, information and reprint providers, librarians, journal editors, government agencies.

Contact: Al. Jerozolimskie 146 C, 02-305 Warsaw, Poland.

Tel: +48 22 347 50 77 E-mail: office@IndexCopernicus.com

<http://www.indexcopernicus.com/>



ELSEVIER

Elsevier - GEOBASE

GEOBASE is a unique multidisciplinary database supplying bibliographic information and abstracts for development studies, the Earth sciences, ecology, geomechanics, human geography, and oceanography. The database provides current coverage of almost 2,000 international journals, including both peer-reviewed titles and trade publications, and provides archival coverage of several thousand additional journal titles and books. GEOBASE contains over 1.4 million records from 1980 to present, with more than 100,000 citations and abstracts added annually (almost 985 of all records include abstracts).

<http://www.elsevier.com>



CABI is a not-for-profit international organization that improves people's lives by providing information and applying scientific expertise to solve problems in agriculture and the environment. Our mission and direction is influenced by our member countries who help guide the activities we undertake. These include scientific publishing, development projects and research, and microbial services. 2010 marks 100 years of CABI. Since its beginnings as an entomological committee in 1910, it then developed into a Commonwealth organization before becoming a truly international service in agricultural information, pest identification and biological control in the mid 1980s.

Contact: <http://www.cabi.org/>



EBSCOhost® databases are the most-used, premium online information resources for tens of thousands of institutions worldwide, representing millions of end-users.

Contact: 10 Estes Street Ipswich, MA 01938 USA

Phone: (978) 356-6500, Toll Free: (800) 653-2726 (USA & Canada)

Fax: (978) 356-6565 E-mail: information@ebSCOhost.com

<http://www.ebscohost.com/>

Socolar

The free scholastic search engine is established by China Educational Publications Import and Export Corporation (CEPIEC). Under the leadership of China Ministry of Education, CEPIEC is the only company dealing with publication ex-im business in the education field. CEPIEC has been serving colleges and universities, research institutions and public libraries in China for more than 20 years, providing them with excellent academic resources from all over the world.

Contact: No 41 Zhong Guan Cun Street, Haidian District, Beijing, P.R.China 100080, Tel: +86 (0)10 6251 4068 E-mail: li_yanxia@cepiec.com.cn

<http://www.cepiec.com.cn>, <http://www.socolar.com/>



Directory of Open Access Journals is a service that provides access to quality controlled Open Access Journals. The Directory aims to be comprehensive and cover all open access scientific and scholarly journals that use an appropriate quality control system, and it will not be limited to particular languages or subject areas. The aim of the Directory is to increase the visibility and ease of use of open access scientific and scholarly journals thereby promoting their increased usage and impact.
<http://www.doaj.org/>



The Journals Impact Factor (JIF) provides a reflecting tools for ranking, categorizing, evaluating, and comparing various International/National Journals having ISSN published by Learning societies Universities and Institutions & Publication house. This factor is used for evaluating the prestige of journals. The evaluation is carried out by considering different the factors like Peer Review, Originality of Content, Technical editing quality, editorial quality and affiliation etc. Thus, the impact factor of a journal is calculated by dividing the number of current year citations to the source items published in that journal during the previous years. <http://www.jifactor.org/>

Open Access Policy

Ecologia Balkanica provides immediate open access to its content on the principle that making research freely available to the public supports a greater global exchange of knowledge. Open Access in journal publishing means:

- * Direct, barrier-free, online dissemination of scientific results at no charge for readers
Authors retain the copyright of their articles,
- * Open Access papers may be copied, downloaded, and used for text- and data-mining purposes, provided that such uses are fully attributed on a non-commercial basis,
- * High visibility of the work – anyone can read your article at no charge,
- * Higher citation rates due to higher visibility,
- * Quick publishing as pre-prints published immediately upon acceptance,
- * Articles are archived and searched through several major OA repositories

Manuscript submission and peer review process

The following types of manuscripts are accepted: short research notes (up to 4 pages), research articles (up to 10 pages) and review papers (up to 20 pages). Short research notes are shorter submissions of a preliminary nature or those including new records or observed phenomenon etc. Research articles should present significant original research in the various fields of ecology. Review papers should deal with topics of general interest or of contemporary importance, being synthetic rather than comprehensive in emphasis. Authors of Review papers should consult with the Editor before submission.

Submitted manuscripts are sent to two or three independent peer reviewers, unless they are either out of scope or below threshold for the journal. These manuscripts will generally be reviewed by experts with the aim of reaching a first decision as soon as possible. The journal uses the double anonymity standard for the peer-review process. Reviewers do not have to sign their reports and they do not know who the author(s) of the submitted manuscript are.

Once an article is accepted, it is published in Ecologia Balkanica immediately online first as a PDF file. The paper will subsequently be published in both full text formatted PDF online (open access) and in the print copy of the journal. The **rejection rate** of received manuscripts of the journal for 2014 is **13.79%**.

CONTENTS

Research Articles

- Prerequisite for the Development of Ecotourism on the Territory of the Town of Zlatograd and Possible Environmental Issues
Ekaterina Valcheva, Krasimir Aleksandrov 1-5
- Vegetation Analysis in the Red Sea-Eastern Desert Ecotone at the Area between Safaga and South Qusseir, Egypt
Mohamed G. Sheded, Mohamed K. Ahmed, Sabah A. Hammad 7-24
- Composite Films from Sodium Alginate and High Methoxyl Pectin - Physicochemical Properties and Biodegradation in Soil
Ayten O. Solak, Svetla M. Dyankova 25-34
- Physiotypic Plasticity and Survival of Arido-active *Euphorbia triaculeata* (Euphorbiaceae) in its Natural Habitat
Turki A. Al-Turki, Osama H. Sayed, Yahya S. Masrahi..... 35-41
- Occurrence and Spatial Distribution of Brachionus Species: A Bioindicator of Eutrophication in Bhoj Wetland, Bhopal
Najeeb Ahmad Bhat, Rajni Raina, Ashwani Wanganeo..... 43-50
- Allelopathic Effects of Shoot and Root Extracts From Three Alien and Native Chenopodiaceae Species on Lettuce Seed Germination
Yamina Bouchikh-Boucif, Abderahmane Labani, Kheloufi Benabdeli, Slimane Bouhelouane..... 51-55
- Growth of *Populus* and *Salix* Species under Compost Leachate Irrigation
Tooba Abedi, Shamim Moghaddami, Ebrahim Lashkar Bolouki..... 57-65
- Rare and Endangered Geophyte Plant Species in Serpentine of Kosovo
Naim Berisha, Fadil Millaku, Elez Krasniqi, Bekim Gashi..... 67-74
- Distribution of Kotschy's Gecko *Mediodactylus kotschyi* (Steindachner, 1870) (Reptilia: Gekkonidae) in South-West Bulgaria
Alexander Pulev, Lyuben Domozetski, Lidia Sakelarieva..... 75-81
- Species Diversity and Distribution of Amphibians and Reptiles in Nature Park "Sinite Kamani" in Stara Planina Mt. (Bulgaria)
Stanimira R. Deleva, Ivelin A. Mollov, Valentina M. Fidanova, Alexander K. Mechev 83-92
- Effect of Individual and Combined Treatment with Azadirachtin and *Spodoptera littoralis* Multicapsid Nucleopolyhedrovirus (SpliMNPV, Baculoviridae) on the Egyptian Cotton Leafworm *Spodoptera littoralis* (Boisduval) (Lepidoptera: Noctuidae)
El-Sayed H. Shaurub, Afaf Abd El-Meguid, Nahla M. Abd El-Aziz..... 93-100
- Short notes*
- On the Gastropod Species Diversity of the "Izgoryaloto Gyune" Nature Reserve (Western Rhodopes, Bulgaria)
Dilian G. Georgiev 101-103

Data on the Wintering of the Rook, <i>Corvus frugilegus</i> Linnaeus, 1758 (Aves: Corvidae) in Plovdiv, Bulgaria <i>Dobromir Dobrev, Vladimir Dobrev, Georgi Gerdzhikov</i>	105-107
Level of Synanthropy of the Amphibians and Reptiles from the City Of Plovdiv (Bulgaria) <i>Ivelin A. Mollov</i>	109-112
Effect of Some Environmental Factors on the Toxicity of Azadirachtin to the Egyptian Cotton Leafworm <i>Spodoptera littoralis</i> (Boisduval) (Lepidoptera: Noctuidae) <i>El-Sayed H. Shaurub, Afaf Abd El-Meguid, Nahla M. Abd El-Aziz</i>	113-117
<i>In Memoriam</i>	119