

AES Bioflux, Volume 3(1)
June, 30, 2011

**Advances in Environmental Sciences -
International Journal of the Bioflux Society**



International Standard Serial Number

Online ISSN 2065–7647; Print ISSN 2066-7620

Published by Bioflux – twice a year

The journal covers all the fields of environmental sciences, connected mostly to life sciences, but also to physics, chemistry or legislation (both theoretical and applied).

Editorial Board

21 Countries (4 continents): Romania, India, Bulgaria, Turkey, Republic of Moldavia, Poland, Belgium, Mali, Spain, England, Germany, China, Japan, Canada, Switzerland, France, Pakistan, Bangladesh, Thailand, Norway and Philippines.

Editor-in-Chief

Negrea Bogdan Mihai - University Stefan cel Mare, Suceava (Romania)

Editors

Covaciu-Marcov Severus-Daniel – University of Oradea, Faculty of Sciences (Romania)

Stefanescu Lucrina Niculina - "Babes-Bolyai" University, Cluj-Napoca (Romania)

Ozunu Alexandru - "Babes-Bolyai" University, Cluj-Napoca (Romania)

Pasarin Benone - USAMV Iasi, Iasi (Romania)

Petrescu-Mag Ioan Valentin – USAMV Iasi (Romania)

Petrescu-Mag Malina Ruxandra – "Babes-Bolyai" University, Cluj-Napoca (Romania)

Petrovici Milca - West University of Timisoara (Romania)

Pop Victor - Institute of Biological Research, Cluj-Napoca (Romania)

Sas Istvan – University of Oradea, Faculty of Sciences (Romania)

Zamfirescu Stefan – "Al. I. Cuza" University, Faculty of Biology (Romania)

Associate Editors

Buckhale Gerard - Independent researcher, Ottawa (Canada)

Costea Ramona Ioana - USAMV Cluj (Romania)

Mihasan Marius – "Al. I. Cuza" University, Faculty of Biology (Romania)

Mollov Ivelin - University of Plovdiv, Faculty of Biology (Bulgaria)

Popescu Irinel – "Al. I. Cuza" University, Faculty of Biology (Romania)

Pricop Emilian - "Al. I. Cuza" University, Faculty of Biology (Romania)

Raja Pitchaikaran - Annamalai University, Parangipettai (India)

Sangpradub Narumon - Khon Kaen University, Khon Kaen (Thailand)

Yildiz Mehmet Zülfü - Ege University, Faculty of Sciences (Turkey)

Standard Board

Brasovean Ioan - USAMV Cluj, Cluj-Napoca (Romania)

Brunner Andreas - Extechna GmbH (Switzerland)

Buburuz Dionisie – Academy of Environmental Sciences (Republic of Moldavia)

Burlacu Laurentiu – University of Bucharest, Faculty of Biology (Romania)

Burny Philippe – Gembloux Agricultural University (Belgium)

Caipang Cristopher M.A. - Univ. Nordland, Bodoe (Norway); Indep. res. (Philippines)

Chongling Yan - Xiamen University, Xiamen (China)

Csep Laszlo - USAMV Cluj, Cluj-Napoca (Romania)

Fendrihan Sergiu - Romanian Bioresource Centre, Bucharest (Romania)

Gavriloaie Ionel-Claudiu - Technical College INFOEL Bistrita (Romania)
 Georgiev Dilian - University of Plovdiv, Faculty of Biology (Bulgaria)
 Hasanuzzaman Mirza - Kagawa Univ. (Japan); Sher-e-Bangla Agric. Univ. (Bangladesh)
 Iederan Cristian Ioan - USAMV Cluj, Cluj-Napoca (Romania)
 Iftime Alexandru - "Grigore Antipa" National Museum of Natural History (Romania)
 Kesavan Kaila - Annamalai University, Parangipettai (India)
 Khan Mueen Allam - The Islamia University of Bahawalpur (Pakistan)
 Kone Bourema - Gembloux Agric. Univ. (Belgium); l'Institut d'Economie Rurale (Mali)
 Nalbant Teodor - Independent researcher (Romania)
 Natarajan Marimuthu - Annamalai University, Parangipettai (India)
 Nowak Michal - University of Agriculture in Krakow (Poland)
 Odagiu Antonia - USAMV Cluj (Romania)
 Oroian Ioan - USAMV Cluj (Romania)
 Pacioglu Octavian - Roehampton University, London (England)
 Pedro Siles - Acuapasion, Barcelona (Spain)
 Petrescu Dacinia Crina - "Babes-Bolyai" University, Cluj-Napoca (Romania)
 Rahman Motiur - Silvacom Ltd., Edmonton (Canada)
 Rahman Mohammed M. - Kochi University, Kochi (Japan)
 Ravi Velayudham - Annamalai University, Tamil Nadu (India)
 Roibu Catalin-Constantin - University Stefan cel Mare, Suceava (Romania)
 Sahlean Tiberiu - University of Bucharest, Faculty of Biology (Romania)
 Strugariu Alexandru - "Al. I. Cuza" University, Faculty of Biology (Romania)
 Tatole Victoria - "Grigore Antipa" National Museum of Natural History (Romania)
 Tepelus Tudor Cosmin - Universitat Tubingen (Germany)
 Tugui Olimpia Ramona - Univ. Lyon II Lumiere (France)

Contact Publisher

SC Bioflux SRL, 54 Ceahlău Street, Cluj-Napoca, 400488, Romania, European Union.
 Ioan Valentin Petrescu-Mag,
 e-mail: zoobiomag2004@yahoo.com
 Bogdan Mihai Negrea,
 e-mail: bogdannm@yahoo.com

Note that there is also an electronic version of the journal. You may download the fulltext version of AES Bioflux – Volume 3/2011 from <http://www.aes.bioflux.com.ro/> - open access.

Peer review: all articles included in AES Bioflux are peer reviewed. Each published article was seen before by two reviewers and at least one specialist in foreign languages. The two peer-reviews are made independently.

Coverage: AES Bioflux is indexed, fulltext reproduced, or abstracted by the following databases, digital libraries and search engines:

Thomson - Master Journal List (Zoological Record)
 ISI Web of Knowledge (Thomson Reuters, via Zoological Record)
 ISI Web of Knowledge (Thomson Reuters, via CABI)
 EBSCOhost Online Research Databases
 Geobase (part of Elsevier Products)
 CAB International (CABI, UK)
 Index Copernicus (ICV= 5.30)
 DOAJ (Lund University Library)
 Wolters Kluwer - Ovid LinkSolver (via CABI)
 CAB Direct (as part of CABI)
 Ulrich's Periodicals Directory

Serials Solutions
 Socolar (CEPIEC, China)
 Open J-Gate: World's Biggest Open Access English Language Journals Portal
 CNCSIS Romania (Rank: B+)
 NewJour (Georgetown University Digital Library)
 University of Washington Libraries (Digital Library)
 University of Nevada, Reno (University Libraries - Catalogue)
 Universitat Regensburg (Digital Library)
 American University of Armenia - Koha Online Catalog
 AcademicLink (Digital Library)
 University Town Library of Shenzhen (Digital Library)
 VUB University Library (Digital Library)
 Geneva Foundation for Medical Education and Research (Digital Library)
 Charles Sturt University (Digital Library)
 Library of Congress Home (Digital Library)
 ArgosBiotech Science Media (Digital Library)
 Tsukuba Digital Library
 Scirus Search Engine (Elsevier BV) - For Scientific Information Only
 GOOGLE - Search Engine
 GOOGLE SCHOLAR (Academic) - Search Engine
 Yahoo - Search Engine
 and many others.

Edited by: Owner and publisher: Bioflux (publishing house); University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Faculty of Agriculture, Department of Environmental Science and Engineering; University of Agricultural Sciences and Veterinary Medicine Iasi, Faculty of Animal Science, Department of Fisheries; Stefan cel Mare University, Suceava; Promediu - Association of Environment, Hunting and Fishing.



Our collaborators

Zoological Record (Biosis)

ION contains the organism names related data gathered from the scientific literature for Thomson Reuters' *Zoological Record*[®] database. Viruses, bacteria and plant names will be added from other Thomson Reuters databases such as *BIOSIS Previews*[®] and *Biological Abstracts*[®]



Index to Organism Names (ION)





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

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

Fax: +86 (0)10 6251 4068

www.cepiec.com.cn

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. Their mission and direction is influenced by their member countries who help guide the activities they undertake. These include scientific publishing, development projects and research, and microbial services. 2010 marked 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.



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

Address: 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

ELSEVIER PRODUCTS

Elsevier B.V., Bibliographic Databases, Radarweg 29, 1043 NX Amsterdam, The Netherlands.



Contents

Parvulescu L., Popescu E. I., 2011 Crayfish species (Crustacea: Decapoda) from the border area Romania – Republic of Moldova. AES Bioflux **3**(1):1-3.

Stoica I.-A., 2011 Forest vegetation in the upper Iara basin. Considerations on plants diversity. AES Bioflux **3**(1):4-11.

Thirumala S., Aravinda H. B., Makari H., 2011 Assessment of air quality in Shivamoga City, Karnataka (India). AES Bioflux **3**(1):12-16.

Amza M. C., Petrovici M., Gheoca V., 2011 Preliminary study of the terrestrial gastropods diversity (Gastropoda: Stylomatophora) from Cefa Nature Park (NW of Romania). AES Bioflux **3**(1):17-22.

Sayyed A. J., Bhosle A. B., Saleem T. H., 2011 Monitoring of Fluoride concentration in ground water of North Nanded region Maharashtra, India. AES Bioflux **3**(1):22-28.

Uttaruk P., Voharndee P., Jusanit P., Bunya-adunyakit P., Suriya S., Jaengjaithum T., Nittaya K., Sangpradub N., 2011 Development of biotic index based on rapid bioassessment approaches using benthic macroinvertebrates for Chi and Mun headwater streams, northeast Thailand. AES Bioflux **3**(1):29-43.

Jaspe C. J., Caipang C. M. A., Elle B. J. G., 2011 Modified extensive pond culture of *Litopenaeus vannamei* for sustainable shrimp culture in the Philippines. AES Bioflux **3**(1):44-52.

Alegre A. L. I., Torres M. A. J., Demayo C. G., 2011 Determination of host-associated variability in the shape of the mandible of white rice stem borer *Scirpophaga innotata* (Lepidoptera: Pyralidae). AES Bioflux **3**(1):53-67.