

AES Bioflux, Volume 7(3)
December, 30, 2015

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



International Standard Serial Number

Online ISSN 2066–7647; Print ISSN 2066-7620; ISSN-L 2066-7620

Published by Bioflux – three issues per year

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

Editor-in-Chief

Gavriloaie Ionel-Claudiu - SC Bioflux SRL, Cluj-Napoca (Romania)

Editors

Botha Miklos - Bioflux SRL, Cluj-Napoca (Romania)

Dragan Alina-Aida - Technical University, Cluj-Napoca (Romania)

Georgescu Bogdan - USAMV Cluj, Cluj-Napoca (Romania)

Jaradat Mohammad - Bogdan Voda University, Cluj-Napoca (Romania)

Mihaiescu Radu - "Babes-Bolyai" University, Cluj-Napoca (Romania)

Mihaiescu Tania - USAMV Cluj, Cluj-Napoca (Romania)

Negrea Bogdan Mihai - University of Liege, Liege (Belgium)

Nuneza Olga M. - MSU, Iligan Institute of Technology, Iligan City (Philippines)

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

Pasarin Benone - USAMV Iasi, Iasi (Romania)

Petrescu-Mag Ioan Valentin – USAMV Cluj, Cluj-Napoca, University of Oradea (Romania)

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

Petrovici Milca - West University of Timisoara (Romania)

Popa Ionel - University Stefan cel Mare, Suceava (Romania)

Sima Rodica Maria - USAMV Cluj, Cluj-Napoca (Romania)

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

Talu Stefan - Technical University of Cluj-Napoca (Romania)

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

Vesa Stefan Cristian - University of Medicine and Pharmacy, Cluj-Napoca (Romania)

Editorial Councillor

Velter Victor: UEFISCDI, Bucharest (Romania)

Scientific Reviewers

Al-Qutob Mutas - Al-Quds University (Palestinian Authority)

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

Burny Philippe – Universite de Liege (Belgium)

Caipang Christopher M.A. - Temasek Polytechnic (Singapore)

Celik Meryem Yesim - University of Sinop (Turkey)

Chanda Kelvin M. - Lusitu High School, Siavonga (Zambia)

Chereji Ioan - University of Oradea, Oradea (Romania)

Correa Jean Michel - Federal University of Ceara, Fortaleza (Brazil)

Cosma Dorin - West University of Timisoara (Romania)

Costea Ramona Ioana - University Stefan cel Mare, Suceava (Romania)

Covaciu-Marcov Severus-Daniel - University of Oradea (Romania)

Covrig Ilie - USAMV Cluj, Cluj-Napoca (Romania)

Csep Laszlo - Bioflux, Cluj-Napoca (Romania)

Dogot Thomas - University of Liege, Gembloux (Belgium)

Doroftei Mihai - INCDD Tulcea, Tulcea (Romania)

Dutu Mircea - The Ecological University of Bucharest (Romania)

Farooq Jehanzeb - Cotton Research Institute, Ayub, Faisalabad (Pakistan)

Fendrihan Sergiu - Romanian Bioresource Centre, Bucharest (Romania)

Gaina Viorel - University of Craiova (Romania)
Hasanuzzaman Mirza - Kagawa Univ. (Japan); Sher-e-Bangla Agric.Univ. (Bangladesh)
Iederan Cristian Ioan - USAMV Cluj, Cluj-Napoca (Romania)
Kporou Kouassi Elisee - Jean Lorougnon Guédé University (Ivory Coast)
Merce Emilian - USAMV Cluj, Cluj-Napoca (Romania)
Mierlita Dan - University of Oradea, Oradea (Romania)
Morar Gavrilă - USAMV Cluj, Cluj-Napoca (Romania)
Nita Victor - Nat. Inst. Marine Research & Dev. Gr. Antipa, Constanta (Romania)
Nowak Michal - University of Agriculture in Krakow (Poland)
Odagiu Antonia - USAMV Cluj, Cluj-Napoca (Romania)
Oroian Ioan - USAMV Cluj, Cluj-Napoca (Romania)
Oroian Teofil - USAMV Cluj, Cluj-Napoca (Romania)
Outred Heather A. - Massey University, Palmerston North (New Zealand)
Pacioglu Octavian - Roehampton University, London (England)
Paschos Ioannis - Technological Educational Institute of Epirus (Greece)
Peteiro Cesar - Spanish Institute of Oceanography (IEO), Santander (Spain)
Petrescu Dacinia Crina - "Babes-Bolyai" University, Cluj-Napoca (Romania)
Plaiu Nicolae - University Stefan cel Mare, Suceava (Romania)
Popescu Irinel - "Al. I. Cuza" University, Faculty of Biology (Romania)
Rahman Mohammed M. - Kochi University, Kochi (Japan)
Roibu Catalin-Constantin - University Stefan cel Mare, Suceava (Romania)
Sangpradub Narumon - Khon Kaen University, Khon Kaen (Thailand)
Sas Istvan - University of Oradea, Faculty of Sciences (Romania)
Sinitean Adrian - West University of Timisoara, Timisoara (Romania)
Zamfirescu Stefan - "Al. I. Cuza" University, Faculty of Biology (Romania)

Contact Publisher

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

Open Access – The Real Sense

Note that there is also an electronic version of the journal. You may download the fulltext version of AES Bioflux – Volume 7/2015 from the following link: <http://www.aes.bioflux.com.ro/>

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; single blind peer-review is used.

Indexes and Abstracting

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)
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
 GOOGLE - Search Engine
 GOOGLE SCHOLAR (Academic) - Search Engine
 Yahoo - Search Engine
 and many others.

Our collaborators

Zoological Record (part of 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*[®]



THOMSON REUTERS

Index to Organism Names (ION)



ELSEVIER PRODUCTS

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

refine your research
SCOPUS

embase[®]
BIOMEDICAL ANSWERS

Engineering Village

reaxys[®]
Innovation from CrossFire Bellstein

DOAJ

DIRECTORY OF OPEN ACCESS JOURNALS

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 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.



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

Contents

- Oruji S., Amini E., Mahesh T. M., 2015 The future form, sustainable urban design and the effect of urban infrastructures: a case study of the Region One of Tehran municipality. AES Bioflux 7(3):309-323.
- Mansouri S., 2015 The relationship between energy consumption and economic growth in Iran: dynamic causality test. AES Bioflux 7(3):324-337.
- Taghipour M., Soltanzadeh H., Afkan K. B., 2015 The role of spatial organization in the typology of Shiraz (Iran) residential complexes. AES Bioflux 7(3):338-350.
- Jumawan J., Bitelas M. B., Ramos J. J. C., Garcia A. R. P., Landero R. S., Cordero J. A., Matela M. N. V., Apostol M. A. D., Cataluna R. B., 2015 Seagrass diversity and structure along the coastal area in Paligue, Hagonoy Davao del Sur, Philippines. AES Bioflux 7(3):351-356.
- Zedam A., Fenni M., 2015 Vascular flora analysis in the Southern part of Chott El Hodna wetland (Algeria). AES Bioflux 7(3):357-368.
- Farooq J., Farooq A., Rizwan M., Petrescu-Mag I. V., Ali M. A., Mahmood K., Batool A., 2015 Cotton fibers: Attributes of specialized cells and factors affecting them. AES Bioflux 7(3):369-382.
- Farrag E. A. M., Abu-Sei'leek M. H. E., Al-Sayyed M. I. A., 2015 Study of heavy metals concentration in cosmetics purchased from Jordan markets by ICP-MS and ICP-OES. AES Bioflux 7(3):383-394.
- Farid W. A. A., 2015 Toxicity of crude oil and chemically dispersed crude oil on Shatt Al-Arab River *Melanooides tuberculata* and *Corbicula fluminalis* under laboratory tidal regime at two controlled temperatures. AES Bioflux 7(3):395-408.
- Padilla R. F. Q., Crisologo E. S., Romarate II R. A., Vedra S. A., 2015 Analysis of vegetation degradation using GIS and remote sensing at Lake Mainit watershed, Mindanao, Philippines. AES Bioflux 7(3):409-414.
- Albutra Q. B., Adamat L. A., 2015 Describing the qualitative effects of Daconil fungicide in the gametes and fertilization process of sea urchin (*Tripneustes gratilla*). AES Bioflux 7(3):415-421.
- Tulod A. M., 2015 Carbon stocks of second growth forest and reforestation stands in Southern Philippines: baseline for carbon sequestration monitoring. AES Bioflux 7(3):422-431.
- Madjos G. G., Demetillo M. T., Baguio M. L., Torres M. A. J., 2015 Phenotypic variation in populations of *Pomacea canaliculata* (golden apple snail): a case of agroecotypes? AES Bioflux 7(3):432-441.
- Mafi-Gholami D., Fegghi J., Danehkar A., Yarali N., 2015 Prioritizing stresses and disturbances affecting mangrove forests using Fuzzy Analytic Hierarchy Process (FAHP). Case study: mangrove forests of Hormozgan Province, Iran. AES Bioflux 7(3):442-459.
- Demetillo M. T., Baguio M. L., Limitares D. E., Madjos G. G., Abrenica-Adamat L. R., 2015 Effects of *Cymbopogon citratus* (lemon grass) crude leaf extracts on the developmental stages of *Pomacea canaliculata* (golden apple snail). AES Bioflux 7(3):460-467.
- Manzanares D. L., Morilla L. J. G., Malawani A. D., Lagare N. J. S., Abrenica-Adamat L. R., 2015 Effects of oregano (*Origanum vulgare*) leaf extract on early life stages of *Artemia salina*. AES Bioflux 7(3):468-474.
- Jumawan J., Flores F. L., Aragon R. T., Villamor J. M. C., Sagot J. C., Taguse H. C., Genecera J., Banas G. G., Depamaylo A. M. V., 2015 Diversity assessment and spatial structure of mangrove community in a rehabilitated landscape in Hagonoy, Davao Del Sur, Philippines. AES Bioflux 7(3):475-482.
- Obeidi R., Pazira A. R., Noorinezhad M., 2015 Measuring the concentration of lead in muscle and liver tissues of *Pomadasys kaakan* in Bushehr port, Iran. AES Bioflux 7(3):483-489.