

**AES Bioflux, Volume 8(1)**  
**April, 30, 2016**

**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**

Banatean-Dunea Ioan, USAB Timisoara, Timisoara (Romania)

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 Mutaz - Al-Quds University (Palestinian Authority)

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

Burny Philippe – Universite de Liege, Gembloux (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, Faculty of Sciences (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 - Sher-e-Bangla Agricultural University (Bangladesh)  
Iederan Cristian Ioan - USAMV Cluj, Cluj-Napoca (Romania)  
Kporou Kouassi Elisee - Jean Lorougnon Guédé University (Ivory Coast)  
Malinas Cristian - USAMV Cluj, Cluj-Napoca (Romania)  
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)  
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 Dacia 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 8/2016 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*<sup>®</sup> database. Viruses, bacteria and plant names will be added from other Thomson Reuters databases such as *BIOSIS Previews*<sup>®</sup> and *Biological Abstracts*<sup>®</sup>



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**<sup>®</sup>  
BIOMEDICAL ANSWERS

**Engineering Village**

**reaxys**<sup>®</sup>  
Innovation from CrossFire Bellstein



**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](mailto:li_yanxia@cepiec.com.cn)

Fax: +86 (0)10 6251 4068

[www.cepiec.com.cn](http://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](mailto:information@ebSCOhost.com)

## Contents

Balondo K. A. V., Arguelles N. J. B., Bonachita E. D., Miculob R. F., Abrenica-Adamat L. R., 2016 The effects of short UV radiation to the egg hatchability of the soil-dwelling nematode, *Acrobeloides nanus*. AES Bioflux 8(1):1-5.

Bigsang R. T., Agonia N. B., Toreta C. G. D., Nacin C. J. C. B., Obemio C. D. G., Martin T. T. B., 2016 Community structure and carbon sequestration potential of mangroves in Maasim, Sarangani Province, Philippines. AES Bioflux 8(1):6-13.

Shekarchian A., Etemad V., Bihamta M. R., Assareh M. H., 2016 Effects of salicylic acid on physiological traits of myrtle seedlings in salt stress condition. AES Bioflux 8(1):14-23.

Lagnason Jr. C. A., Bidad W. D., Requieron E. A., 2016 Biophysical profile of Kawas Marine Sanctuary in Alabel Sarangani Province, Philippines. AES Bioflux 8(1):24-32.

Amirpour M., Shorafa M., Gorji M., Naghavi H., 2016 Effects of subsurface water retention using polyethylene membranes with surface mulch and irrigation on moisture, temperature and salinity of sandy soil of an arid region in Iran. AES Bioflux 8(1):33-41.

Benecario J. B., Torregosa K. M. Y., Orbita M. L. S., Orbita R. R., 2016 Composition, abundance and distribution of mangroves in Bacolod, Lanao del Norte, Mindanao, Philippines. AES Bioflux 8(1):42-49.

Fathi G., Yengejeh R. J., Kohgerdi E., Janmohammadi F., 2016 Bioremediation of anionic surfactants in hospital wastewater. Case study: Shahid Beheshti Hospital in Abadan City, Iran. AES Bioflux 8(1):50-58.

Murgoi V.-L., Bratosin D., Voia S., Osman A., 2016 A study on cadmium concentration in the Hateg Country soils. AES Bioflux 8(1):59-64.

Murgoi V.-L., Bratosin D., Voia S., Osman A., 2016 A study on lead concentration in Hateg Country soils. AES Bioflux 8(1):65-70.

Walag A. M. P., Canencia M. O. P., 2016 Physico-chemical parameters and macrobenthic invertebrates of the intertidal zone of Gusa, Cagayan de Oro City, Philippines. AES Bioflux 8(1):71-82.

Bercero D. II M., Aranico E. C., Tabaranza A. C. E., Amparado Jr. R. F., 2016 Performance of single and combined compost enhancers in composting urban wastes at the household level. AES Bioflux 8(1):83-95.

Zulfa N., Effendi H., Riani E., 2016 Preliminary rapid fishing port water quality assessment with pollution index. AES Bioflux 8(1):96-106.