

**AES Bioflux, Volume 13(1)**  
**April, 30, 2021**

**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

Al-Qutob Mutaz - Al-Quds University (Palestinian Authority)  
Banatean-Dunea Ioan - USAB Timisoara, Timisoara (Romania)  
Bora Florin D. - Research Station for Viticulture & Enology Tg.Bujor, Galati (Ro)  
Bordeanu Bianca - USAMV Cluj, Cluj-Napoca (Romania)  
Bougdah Mounira - Badji Mokhtar Annaba University, Annaba (Algeria)  
Brejea Radu Petru - University of Oradea, Oradea (Romania)  
Burny Philippe – Universite de Liege, Gembloux (Belgium)  
Caipang Christopher M.A. - Temasek Polytechnic (Singapore)  
Chanda Kelvin M. - Lusitu High School, Siavonga (Zambia)  
Celik Meryem Yesim - University of Sinop (Turkey)  
Clemente Ken Joseph E. - University of Santo Tomas in Manila (Philippines)  
Correa Jean Michel - Federal University of Ceara, Fortaleza (Brazil)  
Donici Alina - Research Station for Viticulture & Enology Tg.Bujor, Galati (Romania)  
Farooq Jehanzeb - Cotton Research Institute, Ayub, Faisalabad (Pakistan)  
Georgescu Bogdan - USAMV Cluj, Cluj-Napoca (Romania)  
Gradinaru Andrei - USAMV Iasi, Iasi (Romania)  
Ionescu Tudor - University of Oradea, Oradea (Romania)  
Hasanuzzaman Mirza - Sher-e-Bangla Agricultural University (Bangladesh)  
Helepiciu Catalina M. - Technical University Gheorghe Asachi, Iasi (Romania)  
Kovacs Eniko - USAMV Cluj, Cluj-Napoca (Romania)  
Kporou Kouassi Elisee - Jean Lorougnon Guédé University (Ivory Coast)  
Maxim Aurel - USAMV Cluj, Cluj-Napoca (Romania)  
Mierlita Dan - University of Oradea, Oradea (Romania)  
Mihaiescu Radu - Babes-Bolyai University, Cluj-Napoca (Romania)  
Mihaiescu Tania - USAMV Cluj, Cluj-Napoca (Romania)  
Muntean George Catalin - USAMV Cluj, Cluj-Napoca (Romania)  
Muntean Liviu - Babes-Bolyai University, Cluj-Napoca (Romania)  
Muntean Sorin - USAMV Cluj, Cluj-Napoca (Romania)  
Nowak Michal – University of Agriculture in Krakow (Poland)  
Nuneza Olga M. - MSU, Iligan Institute of Technology, Iligan City (Philippines)  
Oroian Ioan - USAMV Cluj, Cluj-Napoca (Romania); BENA, Thessaloniki (Greece)  
Outred Heather A. - Massey University, Palmerston North (New Zealand)  
Pandey Praveen - Central Institute of Medicinal and Aromatic Plants, Lucknow (India)  
Papuc Tudor - USAMV Cluj, Cluj-Napoca (Romania)  
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);  
Universite de Liege, Gembloux (Belgium)  
Petrescu-Mag Ioan Valentin – USAMV Cluj, Cluj-Napoca (Romania), University of Oradea (Romania); IBFF (Moldova)  
Petrescu-Mag Malina Ruxandra – Babes-Bolyai University, Cluj-Napoca (Romania); Universite de Liege, Gembloux (Belgium)

Pratasik Silvester Benny - Sam Ratulangi University, Manado (Indonesia)  
Proorocu Marian - USAMV Cluj, Cluj-Napoca (Romania)  
Rahman Mohammed M. - Kochi University, Kochi (Japan)  
Safirescu Calin - USAMV Cluj, Cluj-Napoca (Romania)  
Samuil Costel - USAMV Iasi, Iasi (Romania)  
Sangpradub Narumon - Khon Kaen University, Khon Kaen (Thailand)  
Talu Stefan - Technical University of Cluj-Napoca (Romania)  
Varban Dan - USAMV Cluj, Cluj-Napoca (Romania)  
Vesa Stefan Cristian - University of Medicine and Pharmacy, Cluj-Napoca (Romania)  
Zhukov Oleksandr - Bogdan Khmelnytsky Melitopol State Pedagogical University, Melitopol (Ukraine).

---

### **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 13/2021 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; double 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:

ISI Web of Science (Thomson Reuters, via Zoological Record)  
ISI Web of Science (Thomson Reuters, via CABI)  
Geobase (part of Elsevier Products)  
CAB International (CABI, UK)  
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  
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)  
Google Scholar (Academic) - Search Engine.

## 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)



# 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.

## Contents

Tumembouw S. S., Tarore M. L. A., Tumbol R. A., Manoppo H., 2021 Detection of organochlorine pesticide residues in seawater and sediments of Manado Bay. AES Bioflux 13(1):1-7.

Wijayanto D., 2021 Marine tourism development strategy in Morotai Island Regency. AES Bioflux 13(1):8-20.

Ginsca C., Stoica B., Neruja L. M., 2021 Managing human-bear conflicts in Brasov and Harghita counties, Romania. AES Bioflux 13(1):21-25.

Siswantoro R. D., Kartodihardjo H., Hendrayanto, Darusman D., 2021 The IAD method in analyzing the transfer of right of water utilization at Gunung Gede Pangrango National Park, Indonesia. AES Bioflux 13(1):26-36.

Patty J. O., Wagey B. T., Tilaar F. F., Lumingas L. J. L., Sondakh C. F. A., Undap Z., Sumilat D., 2021 Seagrass mapping using Landsat-8 satellite images in Tanjung Merah waters, Bitung City, North Sulawesi. AES Bioflux 13(1):37-47.

Petrescu-Mag I. V., 2021 In memoriam Miklos Botha: You will remain among us through your achievements. AES Bioflux 13(1):48-48.

