

**ISSN 2224-4980**



**International  
Journal of Ecosystems and Ecology Science  
(IJEES)**

<https://doi.org/10.31407/ijeess>

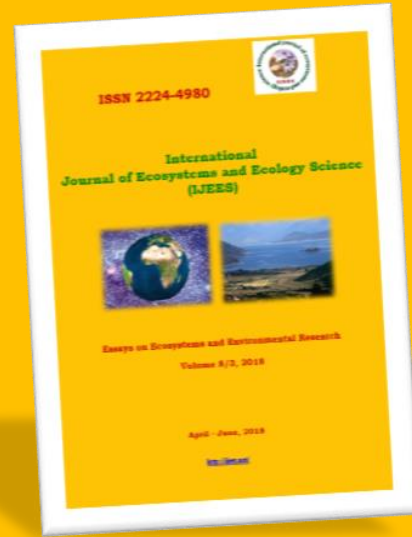
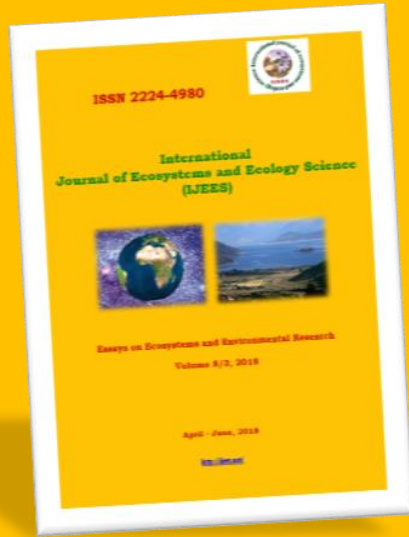


**Essays on Ecosystems and Environmental Research**

**Volume 8/3, 2018**

**April - June, 2018**

<http://ijeess.net/>



**International  
Journal of Ecosystems and Ecology Science  
(IJEES)**

<https://doi.org/10.31407/ijeec>



# International Journal of Ecosystems and Ecology Science (IJEES), ISSN: 2224-4980

Volume 8, Issue 3, April - June, 2018, (Serial Number 31)



## EDITOR IN CHIEF

**Hysen Mankolli**, Professor, Ecologist, Plainfield, Illinois, USA; Health and Environment Association, Tirana Albania; Earth System Science Interdisciplinary Center (ESSIC), University of Maryland College Park, USA, Consultant Scientist;

## CO-EDITOR

**Sukru Dursun**, Professor, Selcuk University, Environmental Engineering Dep., Konya-Turkey;  
**Massimo Zuchetti**, Professor, MIT, Massachusetts Institute of Technology, Cambridge MA, USA;

## ASSISTANT EDITOR

**Cezar Kongoli**, Professor, University of Maryland College Park, Earth System Science Interdisciplinary Center (ESSIC), USA;  
**Andi Mankolli**, University of Illinois at Urbana-Champaign, Engineering Physics Department, USA;

## INTERNATIONAL SCIENTIFIC EDITORIAL BOARD

**Sukru Dursun**, Professor, Selcuk University, Environmental Engineering Dep., Konya-Turkey;  
**Massimo Zuchetti**, Professor, MIT, Massachusetts Institute of Technology, Cambridge MA, USA;  
**Veselin Alexandrov**, Professor, National Institute of Meteorology and Hydrology, Bulgaria;  
**Nicola Senesi**, Professor, University of Bari, Bari, Italy;  
**Wander Michelle M**, Professor, University of Illinois at Urbana-Champaign, Urbana, Urbana, IL 61801, USA;  
**Vladimir Pesic**, Professor, University of Montenegro, Department of Biology, Podgorica Montenegro;  
**Ibraim Dincer**, Professor, University of Ontario, Faculty of Engineering and Applied Science, Ontario, Canada;  
**Hysen Mankolli**, Professor, Ecologist, Plainfield, Illinois, USA;  
**Ali Berktaş**, Professor, Selcuk University, Dept of Environmental Eng, 42031 Konya Turkey;  
**Mariana Golumbeanu**, PhD, National Institute for Marine Research and Development "Grigore Antipa", Constanta, Romania;  
**Antonis K. Kokkinakis**, Professor, Aristotle University of Thessaloniki, Thessaloniki, Greece;  
**Olivia Cioboiu, PhD**, The Oltenia Museum Craiova, Popa Şapcă str. No 8, Rumania;  
**Nasser Modirshahla**, Professor, Islamic Azad University, Department of Applied Chemistry, Iran;  
**Nina Liogchii**, Professor, Institut of Ecology and Geografy, Republic of Moldova;  
**Trajce Talevski**, Professor, Hydrobiological Institute, Naum Ohidski 50, 6000 Ohrid - R.Macedonia;  
**Alexander V. Derunkov**, Professor, Dep. of Entomology, National Museum of Natural History, Washington DC, USA;  
**Can Ozgur Colpan**, Professor, Ryerson University, Canada;  
**Muhammad Ashraf**, Professor, University of Agriculture, Faculty of Sciences, Faisalabad 38040, Pakistan.;  
**Roberto Mancinelli**, Professor, University of Tuscia, Viterbo, Italy;  
**Bahrive Gulgun**, Professor, Ege University, Izmir, Turkey;  
**Shukri Fetahu**, Professor, Pristine University, Kosovo;  
**Insaf Mekki**, PhD, National Research Institute for Rural Engineering, Water, and Forestry (I.N.R.G.R.E.F), Ariana, Tunisia;  
**Hany Gaber El Shaer**, PhD, IUCN Centre for Mediterranean Cooperation / Global Marine, Egypt;

**Ertugrul Esmeray**, Ph.D, Karabuk University, Engineering Faculty, Environmental Engineering Department Turkey;  
**Violeta Vidaček-Hainš**, PhD, Ass. Professor, University of Zagreb, Croatia;  
**Cezar Kongoli**, Professor, University of Maryland College Park, Earth System Science Interdisciplinary Center (ESSIC), USA;  
**Justas Kažys**, PhD, Ass. Professor, Vilnius University, Department of Hydrology and Climatology, Vilnius –Lithuania;  
**Selim Dogan**, PhD, Selcuk University, Environmental Engineering Department, Konya Turkey;  
**Hisham Mostafa Alidrisi**, PhD, Ass. Professor, King Abdulaziz University, Engineering College, Jeddah Saudi, Arabia;  
**Khalid A. A. Al-Ghamdi**, PhD, Ass. Professor, King Abdulaziz University, Engineering College, Jeddah Saudi, Arabia;  
**Osman Taylan, PhD**, Ass. Professor, King Abdulaziz University, Engineering College, Jeddah Saudi, Arabia;  
**Robert J. Kuligowski**, PhD, University of Maryland College P, Earth System Science Interdisciplinary Center (ESSIC), USA;  
**Mariia M. Fedoriak**, Professor, Chernivtsi National University, Dep. of Ecology and Biomonitoring, Chernivtsi, Ukraine;  
**Narayan Ramappa Birasal**, Associate Professor, KLE Society's G H College, Zoology Department, , Karnataka state, India;  
**Rana P. Singh**, Professor, Babasaheb Bhimrao Ambedkar University, Dep. of Environmental Science, U.P., India;  
**Hayati AKMAN**, Dr., Selcuk University, Seed Department, 42430 Konya, Turkey;  
**Durmuş Kaya**, Professor, Kocaeli University, Technology Faculty, Energy Systems Engineering Department, Kocaeli, Turkey;  
**Fatma ÇANKA KILIÇ**, Associate Prof. Dr., , Kocaeli University, Kocaeli Vocational School, Turkey;  
**Ferim Gashi**, Dr., University of Pristina, Department of Geography, Faculty of Mathematical-Natural Sciences, Kosovo;  
**Altin Dorri**, Professor Assoc., Polytechnic University of Tirana, Tirana, Albania;  
**Alexander P. Sizykh**, Professor, Russian Academy of Sciences, Siberian Institute of Plant Physiology and Biochemistry, Irkutsk, Lermonyova, Russia;  
**Zeynep Eren**, Associate Professor, Ataturk University, Environmental Engineering Department, Erzurum, Turkey;  
**Sheida Korjani**, PhD, Department of Architecture, Tabriz Branch, Islamic Azad University, Tabriz, Iran;

## Publication Information:

International journal of ecosystems and ecology science (IJEES), ISSN 2224-4980, publishing original articles, reviews and short communications of high scientific standard on ecosystems and science ecology.  
By: Hysen Mankolli, Professor, Ecologist, Plainfield, Illinois, USA; Health and Environment Association, Tirana, Albania;

ISSN International Centre, *Bibliographic Data Section*, PARIS, FRANCE;

Bib - ID 68337; ISO standard 3297;

Key title: International journal of ecosystems and ecology science

Abbreviated key title: *Int. j. ecosyst. ecol. sci.*

ISSN 2224-4980; <http://ijeess.net/>

Frequency: four times a year. IJEES Electronic Journal Publication: Plainfield, Illinois, USA;

DOI prefix: 10.31407, <https://doi.org/10.31407/ijeess>

UOI license: <http://u-o-i.org/1.01/ijeess>; <http://www.u-o-i.org/index.php/SearchLicense>



[DPI Digital Library](http://www.dpi.org/) USA and assign unique digital no. **DPI: 16.10047.IJEES**

*This journal has the status of an international journal.*

## **Aims and Scope:**

The goals of the International journal of ecosystems and ecology science (IJEES), ISSN 2224-4980, are to bring together researchers and scientists with interests in the quality of the ecosystems research results, theories, technologies, systems, tools, applications, the work in progress and experiences on ecosystems used. The main topics of interest are:

- ✓ Ecosystems
- ✓ Agro ecosystems
- ✓ Forest ecosystems
- ✓ Ecology
- ✓ Lakes and Rivers ecosystems
- ✓ Applied Biology
- ✓ Applied Chemistry
- ✓ Biodiversity
- ✓ Energy
- ✓ Geology
- ✓ Bioaccumulation
- ✓ Desalination
- ✓ Water
- ✓ Soil
- ✓ Air pollution
- ✓ Climate Change
- ✓ Ecosystem restoration
- ✓ Environment toxicology
- ✓ Environment protection
- ✓ Environmental radioactivity;
- ✓ Environmental legislation;
- ✓ Environmental management;
- ✓ Environmental education.
- ✓ Green technology
- ✓ Socioeconomic aspects in Ecosystems
- ✓ Agro tourism and National Park
- ✓ Health Care
- ✓ Food security
- ✓ Rights and Environmental Laws
- ✓ Environment Engineering
- ✓ Eco philosophy Issue

## Abstracted / Indexed / Impact Factor in:

International journal of ecosystems and ecology science (IJEES), ISSN 2224-4980, is indexed, abstracted and have impact factors:

**Thomson Reuters:**

<http://ip-science.thomsonreuters.com/cgi-bin/jrnlst/jlresults.cgi?PC=MASTER&Word=ijeess>

**EBSCO's library products, MA, USA**

<http://www.ebscohost.com/for-publishers/for-publishers>

**SCOPUS INDEXED JOURNALS: no.237 IJEES**

<http://www.scopus.it/2015/06/international-institute-of-organized.html?m=0>

**Google scholar Cited: IJEES**

<https://scholar.google.com/citations?user=W89N8qgAAAAJ&hl=en>

**IARC Impact Factor (USA), IF=2016: 1.463; 2015: 0.861**

[http://iarcif.org/index.php/journal\\_information/show/44/0/2224-4980](http://iarcif.org/index.php/journal_information/show/44/0/2224-4980)

**Indexed in Index Copernicus: : ICV2016: 81.17; ICV2015: 93.51; ICV2014= 84.78 (7.93); ICV2013= 5.96; ICV 2012=5.68; ICV 2011=6.00;**

<https://journals.indexcopernicus.com/search/details?id=31407>

**Global Impact Factor (GIF) IF= 2015: 0.765; 2014: 0.675; 2013: 0.541; 2012: 0.425;**

<http://globalimpactfactor.com/international-journal-of-ecosystems-and-ecology-science/>

**Universal Impact Factor: IF 2013 = 0.541**

<http://www.uifactor.org/SearchJournal.aspx?q=2224-4980>; <http://www.uifactor.org/Certificate.aspx?jid=372>

**INFOBASE INDEX Impact factor IF: 2015=3.2**

<http://www.infobaseindex.com/journal-accepted.php>

**Research Bible**

<http://paper.researchbib.com/?action=viewList&issn=22244980&vol=4&no=1>

**Google scholar Cited**

<https://scholar.google.com/citations?user=W89N8qgAAAAJ&hl=en>

**CAS Chemical Abstracts Service – CAS database**

<http://cassi.cas.org/search.jsp>

**Electronic Journals Library**

<http://dispatch.opac.ddb.de/DB=1.1/SRT=YOP/LNG=DU/CMD?ACT=SRCHA&IKT=8506&TRM=2687819-7>

**Energy And Environmental Policy - Journals & Databases**

<http://udel.edu/~hunpark/journals.htm>

**Science and Ecology Articles**

[http://en.eannu.com/science\\_and\\_ecology\\_articles.3.html](http://en.eannu.com/science_and_ecology_articles.3.html)

**Efita International Directory of Agriculture, Food and the Environment**

<http://www.efita.org/all-companies.html>

**Environment-and-Nature/Biodiversity/Ecosystem.**

<http://www.efita.org/Environment-and-Nature/Biodiversity/Ecosystem-Biodiversity/IJEES-details-28892.html>

**NewJour : Electronic Journal&Newsletters**

<http://gulib.georgetown.edu/newjour/nj2/index.html>

**Environmental expert**

<http://www.environmental-expert.com/magazines/?keyword=ecosystem+science>

**Currently Indexing at Pro Quest**

[http://www.proquest.com/en-US/catalogs/databases/detail/periodicals\\_index.shtml](http://www.proquest.com/en-US/catalogs/databases/detail/periodicals_index.shtml)

**CABI**

<http://www.cabi.org/default.aspx?page=1016&site=170&pid=40&xslttab=2&newtitlesonly=1&search=>

**Academia.edu**

[http://www.academia.edu/3834422/2013\\_Networking\\_approach\\_to\\_the\\_sustainable\\_development\\_of\\_European\\_Regions\\_bordering\\_major\\_rivers](http://www.academia.edu/3834422/2013_Networking_approach_to_the_sustainable_development_of_European_Regions_bordering_major_rivers)

**EELinked**

<http://eelinked.naaee.net/n/eelinked>

**IRIS**

<http://www.iris-sostenibilita.net/iris/index.asp>

**BlogEcologia**

<http://www.blogecologia.it/2013/03/un-nuovo-articolo-scientifico-conferma-le-ragioni-dei-notav/>

**Cabdirect.org**

<http://cabdirect.org/abstracts/20133106128.html;jsessionid=A6F4735FC0EBE3D1368E947A2993074A>

**ISRA (JIF) <http://www.israjif.org/raj.html>**

**IIFS <http://impactfactorservice.com/home/journal/133>**

## **Manuscripts and correspondence are invited for publication.**

*Dear Professors, PhD, researchers and scholars of the field of ecosystems and related areas to, such as environmental engineering, agriculture, bio-chemistry (soil, water, air), pollution, geology, forestry, urban ecology, resource economics, etc., at the moment, I declare the sending of scientific journal articles to International Journal of Ecosystems and Ecology Science (IJEES) is open. Sending of items can only be done electronically, to the following address: E-mail: [editorijeess@gmail.com](mailto:editorijeess@gmail.com); [2011jiese@gmail.com](mailto:2011jiese@gmail.com); [mjedisishendeti@yahoo.com](mailto:mjedisishendeti@yahoo.com); The confirmation of receiving these items will be announced within the period of three weeks after sending. Whether the article is accepted or not, will be announced within a period of six weeks. Only original articles will be accepted, validated, and not to have or be published in other journals. Publication lasts from three to six months. Submission guidelines and Web Submission system are available at: <https://sites.google.com/site/injournalofecosystems/template/guide-for-authors>.*

## **Editorial Office:**

*IJEES Electronic Journal Publication: Plainfield, Illinois, USA; E-mail: [editorijeess@gmail.com](mailto:editorijeess@gmail.com);  
Health and Environment Association, Tirana, Albania; E-mail: [mjedisishendeti@yahoo.com](mailto:mjedisishendeti@yahoo.com);*

© IJEES copyright. All rights reserved. Health and Environment Association, Tirana, Albania Publisher; hold the exclusive copyright of all the contents of this journal. In accordance with the international convention, no part of this journal may be reproduced or transmitted by any media or publishing organs (including various websites) without the written permission of the copyright holder. Otherwise, any conduct would be considered as the violation of the copyright. The contents of this journal are available for any citation. However, all the citations should be clearly indicated with the title of this journal, serial number and the name of the author. Price per article published online Regular: \$200 or euro 170 and article published out of order in a short time: \$400 or euro 330, per standard pages; To send online full journal: \$600 or euro 500; \*Subscription for online access to a single article by non-authors has a price of \$200 or euro 170; Health and Environment Association, Tirana, Albania; Tel: 0035542258730; Fax:03554258730;E-mail: [mjedisishendeti@yahoo.com](mailto:mjedisishendeti@yahoo.com); Electronic Journal Publication:, Plainfield, Illinois, US; Tel:1-815-267-3458. Fax:1-815-267-3458; E-mail: [2011jiese@gmail.com](mailto:2011jiese@gmail.com); [editorijeess@gmail.com](mailto:editorijeess@gmail.com);



**International  
Journal of Ecosystems and Ecology Science  
(IJEES)**

<https://doi.org/10.31407/ijeec>

**Volume 8/3, 2018**

<https://doi.org/10.31407/ijeec83>

**Table of contents:**

**Alexander Sizykh<sup>1\*</sup>, Alexander Gritsenyuk<sup>3</sup>, Alexey Shekhovtsov<sup>2</sup>**, STRUCTURAL-DYNAMIC ORGANIZATION OF PHYTOCENOSES OF FOREST AND FOREST-STEPPE VEGETATION TYPES IN SOUTH - WEST PRE-BAIKAL, page 433-442;

**Sheida Korjani**, IMPROVEMENT OF GREEN PUBLIC SPACE IN RESIDENTIAL COMPLEXES: A TOOL FOR GREEN COMMUNITY, page 443-448;

**Arian Kashami<sup>1</sup>, Amela Troshani<sup>2</sup>, Zamira Shabani<sup>3</sup>**, DOPPLER ULTRASONOGRAPHY WAVEFORMS CHANGES IN IUGR AND THEIR VALUES IN THE RELEVANT MANAGEMENT OF PREGNANCY, page 449-456;

**Musa Dinc<sup>1\*</sup>, Ahmet Duman<sup>2</sup>, Mustafa Tufekcioglu<sup>2</sup>, Aydin Tufekcioglu<sup>2</sup>**, BIOMASS ALLOCATION IN RELATION TO PRECIPITATION, TEMPERATURE AND SOIL PROPERTIES IN THE GRASSLAND OF CORUH RIVER BASIN, TURKEY: USING STRUCTURAL EQUATION MODELLING WITH AMOS, page 457-470;

**Jahed Jafarimand\***, IMPACT OF ARCHITECTURAL FEATURES ON ENERGY CONSUMPTION IN SCHOOLS: AN APPROACH TO ECOLOGICAL ARCHITECTURE, page 471-478;

**Zeynep Eren\***, A CASE STUDY ON CARBON FOOTPRINT IN ERZURUM CITY OF 2012, TURKEY, page 479-490;

**Borovskii G.B.<sup>1,2\*</sup>, Borovskaya M.K.<sup>1,2</sup>, Gornostay T.G.<sup>1</sup>**, BIOLOGICAL ACTIVITY OF EXTRACTS FROM THE MYCELIUM OF MEDICINAL MUSHROOM *INONOTUS RHEADES*, page 491-496;

**Zeynep Eren\***, ASSESSING AND MITIGATING STUDIES OF THE ENVIRONMENTAL AND ECOLOGICAL IMPACTS OF 2011 WINTER UNIVERSIADE IN ERZURUM, TURKEY, page 497- 502;

**Irina Vorobyeva\*, Natalaya Vlasova, Elizabeth Naprasnikova**, COMPREHENSIVE ANALYSIS OF THE QUALITY OF WATER BODIES IN BAIKAL NATURAL TERRITOR, page 503-508;

**Ayin Hosseini**, ENVIRONMENTAL ROLE OF URBAN LANDSCAPE INDICATORS IN OLDER DISTRICTS OF CITIES, page 509-514;

**Mario Cavargna<sup>1</sup>, Massimo Zucchetti<sup>1,2</sup>**, THE HIGH-SPEED RAIL HANDBOOK: A TECHNICAL GUIDE<sup>1</sup>, page 515-530;

**Sheida Korjani**, ROLE OF PUBLIC GREEN SPACE IN IMPROVEMENT OF HEALTH IN RESIDENTIAL AREAS, page 531-538;

**Edlira Elezaj<sup>1\*</sup>, Adriana Babameto<sup>2</sup>, NONINVASIVE METHODS IN EVALUATION OF PORTAL HYPERTENSION, page 539-544;**

**Mostafa Madmoli<sup>1</sup>, Fatemeh Rostami<sup>2\*</sup>, NastaranMirsami Yazdi<sup>3</sup>, Ahmad Mosavi<sup>4</sup>, Shahram Baraz<sup>5</sup>, EVALUATION OF PREVALENCE OF DIABETIC FOOT ULCER AND ITS RELATED FACTORS IN DIABETIC PATIENTS ADMITTED TO KHATAM-OL-ANBIA HOSPITAL IN SHOUSHTAR DURING 2015-2016: A RETROSPECTIVE STUDY, page 545-552;**

**Fatemeh Rostami<sup>1</sup>, Mostafa Madmoli<sup>2\*</sup>, Nastaran Mirsami Yazdi<sup>3</sup>, Shahram Baraz<sup>4</sup>, EVALUATION OF THE PREVALENCE OF LOWER LIMB AMPUTATION AND ITS RELATED FACTORS IN DIABETIC PATIENTS ADMITTED TO KHATAM-OL-ANBIA HOSPITAL IN SHOUSHTAR DURING THE 2015-2016: A RETROSPECTIVE STUDY, page 553-560;**

**Maryam Salehi, Ghavmudin Zahedi Amiri, NUTRIENT RETRANSLOCATION INTO THE SOIL IN PURE AND MIXED STANDS OF PARROTIA PERSICA, CASE STUDY: PATOM DISTRICT OF KHEYROUD FOREST, page 561-574;**

**Adriana Prifti<sup>1\*</sup>, Valentina Qemalli<sup>2</sup>, Lidra Zikaj<sup>1</sup>, Etleva Refatllari<sup>3</sup>, ANTIPSYCHOTIC TREATMENT AND METABOLIC ALTERATION IN PATIENTS WITH SCHIZOPHRENIA, page 575-578;**

**Valentina Asabella<sup>1\*</sup>, Mira Rakacolli<sup>2</sup>, PREVALENCE OF POST STROKE DEPRESSION IN AMBULATORY PATIENTS, page 579-584;**