

ISSN 2224-4980



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

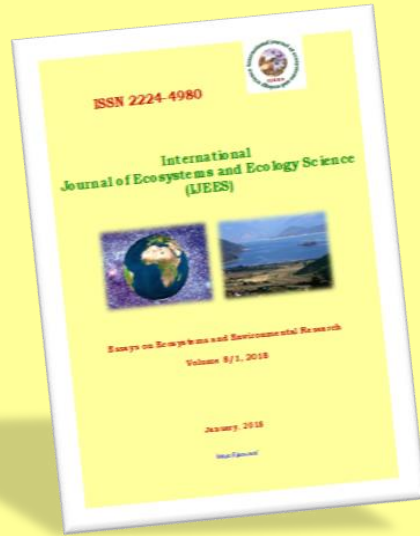
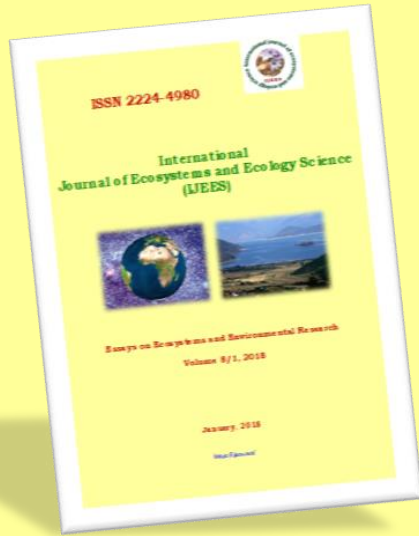


Essays on Ecosystems and Environmental Research

Volume 8/1, 2018

January, 2018

<http://ijees.net/>



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





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 - IN - CHIEF:

Sukru Dursun, Professor, Selcuk University, Engineering and Architecture Faculty, Environmental Engineering Dep., Konya-Turkey;

Massimo Zuchetti, Professor, MIT, Massachusetts Institute of Technology, Cambridge MA, USA;

INTERNATIONAL SCIENTIFIC EDITORIAL BOARD:

Sukru Dursun, Professor, Selcuk University, Engineering and Architecture Faculty, 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;

Ibrahim Dincer, Professor, University of Ontario, Faculty of Engineering and Applied Science, Ontario, Canada;

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, Faculty of Forestry and Natural Environment, Thessaloniki, Greece;

Olivia Cioboiu, PhD, The Oltenia Museum Craiova, Popa Șapcă 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, Department of Entomology, National Museum of Natural History, MRC-168 Washington, DC, USA;

Can Ozgur Colpan, PhD, 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, PhD, Research Scientist at Earth System Science Interdisciplinary Center (ESSIC), University of Maryland College Park, 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, Department of Industrial Engineering, Engineering College, King Abdulaziz University, Jeddah Saudi, Arabia;

Khalid A. A. Al-Ghamdi, PhD, Ass. Professor, Department of Industrial Engineering, Engineering College, King Abdulaziz University, Jeddah Saudi, Arabia;

Osman Taylan, PhD, Ass. Professor, Department of Industrial Engineering, Engineering College, King Abdulaziz University, Jeddah Saudi, Arabia;

Robert J. Kuligowski, National Oceanic and Atmospheric Administration (NOAA), National Environmental Satellite Data and Information Service (NESDIS), NOAA Center for Weather and Climate Prediction (NCWCP), College Park, MD, USA;

Mariia M. Fedoriak, Professor, Department of Ecology and Biomonitoring, Chernivtsi National University, 2 Kotsyubynskyi st., Chernivtsi, Ukraine;

Narayan Ramappa Birasal, Associate Professor, Zoology Department, KLE Society's G H College, HAVERI – 581 110, Karnataka state, India;

Rana P. Singh, Professor, Department of Environmental Science, Babasaheb Bhimrao Ambedkar University, Lucknow-226025, 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., Head of Electrical and Energy Department, Kocaeli Vocational School, Kocaeli University & International Student Coordinator, Kocaeli University, Turkey;

Ferim Gashi, Dr., University of Pristina, Department of Geography, Faculty of Mathematical-Natural Sciences, Kosovo;

Alexander P. Sizykh, Professor, Siberian Institute of Plant Physiology and Biochemistry, Russian Academy of Sciences, Irkutsk, Lermontova, Russia;

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;

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/jrnstj/jresults.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

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;

<http://iml2012.indexcopernicus.com/International-journal-of-ecosystems-and-ecology-science-IJEES.p241.3.html>

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

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

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

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?sessionid=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; 2011jiese@gmail.com; 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;
Health and Environment Association, Tirana, Albania; E-mail: 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: \$170 or euro 150 and article published out of order in a short time: \$300 or euro 280, 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 \$170 or euro 150; Health and Environment Association, Tirana, Albania; Tel: 0035542258730; Fax:03554258730;E-mail: mjedisishendeti@yahoo.com; Electronic Journal Publication:, Plainfield, Illinois, US; Tel:1-815-267-3458. Fax:1-815-267-3458; E-mail: 2011jiese@gmail.com; editorijeess@gmail.com;

**International
Journal of Ecosystems and Ecology Science
(IJEES)
Volume 8/1, 2018**

Table of contents:

Massimo Zucchetti^{1,2}, LEGACY AND LESSONS LEARNT FROM THE CHERNOBYL ACCIDENT, page 1-6;

Sukru DURSUN, WASTE WATER SLUDGE WITH AGRICULTURAL WASTE COMPOST USAGE FOR SOIL QUALITY, page 7-10;

Fatma Canka Kilic^{*}, WIND ENERGY AND ITS STATUS IN TURKEY, page 11-24;

Liogchii Nina, Begu Adam, THE CONSERVATION OF REPRESENTATIVE NATURAL COMPONENTS IN SOME PROTECTED AREAS IN MOLDOVA'S CENTRAL REGION, page 25-32;

Mehmet Keskin KILIC¹, Fatma CANKA KILIC^{1,*}, Durmus KAYA², DISTRIBUTED ENERGY RESOURCES, THEIR GENERATION SYSTEMS, AND TURKEY, page 33-44;

Mehmet Keskin KILIC¹, Nurettin ABUT², Fatma CANKA KILIC^{1,*}, Volkan COBAN³, Durmus KAYA³, CAPACITY INCREASE AND ENERGY EFFICIENCY IMPROVEMENT STUDIES IN A BIOGAS POWER GENERATION PLANT, page 45-56;

Oylum Gokkurt Baki^{*}, Muhammet Yakan, INVESTIGATION OF INDUSTRIAL SOLID WASTE MANAGEMENT PRINCIPLES IN A FIRM SAMPLE, page 57-60;

Stojmir Stojanovski¹, Dijana Blažeković-Dimovska², Stoe Smiljkov³, Lidija Velkova-Jordanovska¹, SUMMARY OF SIGNIFICANT PARASITIC INFECTIONS IN MOLLUSCA, page 61-66;

Artan Kalaja¹, Zamira Shaban², Rina Muka³, THE LEVEL OF KNOWLEDGE, ATTITUDES ABOUT THE PHYSICAL ACTIVITY AMONG STUDENTS IN SHKODRA REGION, page 67-72;

Rina Muka¹, Zamira Shabani², THE LEVEL OF KNOWLEDGE AND ATTITUDES ABOUT HYGIENE AMONG STUDENTS IN SHKODRA CITY, page 73-80;

Hadieh Payami¹, Masoumeh Shojaeie^{2,*}, Afsaneh Sanatkaran³, THE EFFECTS OF RELAXATION EXERCISES ON SLEEP QUALITY AND CONTENT OF ATHLETE'S DREAMS AT NIGHT BEFORE THE COMPETITION, page 81-88;

Dame Dimitrovski^{*}, Igor Shesho, Done Tashevski, Zoran Sapuric, ANALYSIS OF THE FACTORS INFLUENCING COEFFICIENTS OF PM₁₀ EMISSIONS FROM HOUSEHOLD HEATING IN SKOPJE REGION, page 89-94;

Sevim Inanç^{1,*}, Hüseyin Ayaz², VISITORS SATISFACTION, PERCEPTIONS: THE CASE OF HATILA VALLEY NATIONAL PARK, page 95-100;

Cili A^{*}, Sadiku A, Shehu E, Meta E, Ivanaj A, SUCCESSFUL TREATMENT OF A CHILD WITH CHRONIC MYELOID LEUKEMIA, page 101-104;

Alexey Shekhovtsov¹, Alexander Szykh^{2*}, GEOSYSTEMS OF ENVIRONMENTAL CONTACT: SOME METHODOLOGICAL ASPECTS OF TYPIIFICATION AND CLASSIFICATION, page 105-112;

Hilal Surat^{1*}, Özgür Eminağaoğlu², DETERMINATION OF THE AESTHETICAL AND FUNCTIONAL USE OF CERTAIN NATURAL PLANTS IN HATILA VALLEY NATIONAL PARK IN LANDSCAPE ARCHITECTURE, page 113-134;

Nevila Gjermani, Dhimitër Kraja, Najada Como, Pellumb Pipero, Arjan Harxhi, Dorina Petani, Arber Gjermani, THE ASSOCIATION BETWEEN ANATOMIC REGION, MICROBIAL ETIOLOGY AND FEVER PROFILE IN INFECTIOUS RACHIDITIS, page 135-142;