

ISSN 2224-4980



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



Essays on Ecosystems and Environmental Research

Volume 7/4, 2017

August, 2017

<http://ijees.net/>



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



9 7 7 2 2 2 4 4 9 8 0 0 0





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;

Ibraim 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 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, 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/jrnlstjresults.cgi?PC=MASTER&Word=ijeess>

EBSCO's library products, MA, USA

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

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: ICV2015: 93.51; ICV2014= 84.78 (7.93); ICV2013= 5.96; ICV 2012=5.68; ICV 2011=6.00;

<http://jml2012.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;

Table of contents:

Cezar Kongoli¹², Yu Zhang³, Zhengtao Cui⁴², Robert J. Kuligowski², ESTIMATION OF SNOW AND RAINFALL FOR HYDROLOGICAL ANALYSIS OF A MID-WINTER FLOODING EVENT IN WESTERN UNITED STATES, page 651-656;

Mustafa Karagöz^{1*}, Nuri Tunç², Burak Çiftçi¹, Emrah Deniz³, AN EXPERIMENTAL INVESTIGATION OF BIOGAS PURIFICATION WITH GRANULATED SLAG UNDER DIFFERENT PRESSURES, page 657-662;

Alexander Sizykh^{*}, Alexey Shekhovtsov², THE STRUCTURE OF FORESTS AT UPPER CHONA OIL-GAS CONDENSATE MINE, IRKUTSK REGION, RUSSIA, page 663-670;

Nur Eda Evliyaogullari¹, Muhammed Kamil Oden², Sezen Kucukcongar^{1*}, THE REMOVAL OF CHROMIUM FROM AQUEOUS SOLUTIONS USING AN INDUSTRIAL WASTE MATERIAL, page 671-676;

Arlinda Çaçi¹, Jolda Zotaj¹, Alketa Lame², Efrosini Kokalari², Sadik Cenolli², USE OF NATURAL PLANTS AS GREEN CORROSION INHIBITORS AN OVERVIEW, page 677-682;

Flora Merko, THE IMPACT OF GOOD URBAN SOLID WASTE MANAGEMENT IN ALBANIA'S ECONOMIC DEVELOPMENT, page 683-690;

Oylum Gokkurt BAKI*, ISSUES AND PROBLEMS OF SINOP MUNICIPAL SOLID WASTE MANAGEMENT, page 691-696;

Ertugrul Esmeray^{1*}, Mustafa Yılmaz¹, THE EFFECTS OF CHEMICAL CLEANING APPLICATIONS ON THE USEFUL LIFE OF POLYAMIDE MEMBRANES IN REVERSE OSMOSIS SYSTEMS, page 697-702;

Albora Kacani^{1*}, Leonidha Peri², THE SOCIAL – ECONOMIC CONTRIBUTIONS OF COMMUNITY FORESTS TO RURAL HOUSEHOLD'S INCOME – A CASE OF ULZA ADMINISTRATIVE UNIT, page 703-708;

Fadil Musa¹, Gyrner Murati^{1*}, Ahmet Musa², PEAR PSYLLA (*CACOPSYLLA PYRICOLA* F.) DISTRIBUTION IN SOME CULTIVARS OF PEAR CULTIVATED IN THE LOCALITY OF PRISHTINA, page 709-714;

Fatma Didem Tunçez, RECOVERY OF SUGAR INDUSTRY WASTE-CARBONATION SLUDGE WITH INDUSTRIAL SYMBIOSIS, page 715-720;

Fadil Musa¹, Saranda Musa^{1*}, INVESTIGATION OF THE SPREAD OF PEAR RUST (*Gymnosporangium sabinae*) IN PEAR CULTIVATED IN REGION OF PRISHTINA, page 721-726;

Blagoja Trajchevski^{1*}, Suzana Dinevska-Kjovkarovska², Maja Jordanova³, Trajce Talevski¹, INFLUENCE OF SEX ON THE BLOOD PARAMETERS OF OHRID ROACH DURING THE SPAWNING SEASON, page 727-730;

Sonja Trajanovska¹, Marina Talevska¹, Alma Imeri², Biljana Budzakoska Gjoreska³, Sasho Trajanovski³, DISTRIBUTION, ECOLOGY AND MORPHOLOGICAL VARIABILITY OF *CHARA GLOBULARIS* THUILLIER, 1799 FROM LAKE OHRID, page 731-736;

Biljana Budzakoska Gjoreska¹, Sasho Trajanovski¹, Sonja Trajanovska², ECOLOGICAL RESEARCH OF ENDEMIC GASTROPOD SPECIES *VALVATA HIRSUTECOSTATA* FROM LAKE OHRID, page 737-742;

Zoran Sapuric^{1*}, Filip Ivanovski¹, Dame Dimitrovski², CHALLENGES OF WASTE MANAGEMENT IN CITY OF SKOPJE, page 743-748;

Hamed Noori¹, Sasan Navkhasi², Jalil Abbasi³, Samira Rouhi Safaie², Safoura Khubdast³, Sara Rouhi⁴, Masoomah Mahjour⁵, ALEXITHYMIA DIFFERENCES AND THE THEORY OF MIND AMONG CHILDREN WITH NURSING CAREERS PARENTS, page 749-754;

Mitra Rezvani Dehaghani¹, Afsaneh Sanatkaran^{2*}, Seyyed Mohieldin Bahari², THE EFFECT OF COGNITIVE BEHAVIORAL INTERVENTION ON IRRATIONAL BELIEFS PROFESSIONAL VOLLEYBALL ADOLESCENT BOYS, page 755-762;

Elda Skenderi, Gjeorgjina Kuli-Lito, CLINICAL SPECTRUM OF INFECTIOUS MONONUCLEOSIS IN CHILDREN, page 763-770;

Elda Skenderi, Gjeorgjina Kuli-Lito, LYMPHADENOPATHY AS AN ESSENTIAL SIGN OF INFECTIOUS MONONUCLEOSIS, page 771-778;

Erjon Spahiu^{1*}, Gerti Xhixha¹, Merita Kaçeli Xhixha², Fadil Hasani³, IN-SITU MEASUREMENT OF NATURAL RADIOACTIVITY IN PHOSPHOGYPSUM DISPOSAL SITE IN KOSOVO, page 779-784;