

ISSN 2224-4980



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

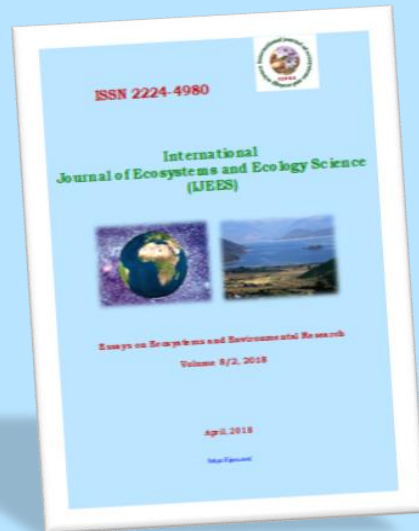


Essays on Ecosystems and Environmental Research

Volume 8/2, 2018

April, 2018

<http://ijeess.net/>



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



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

Volume 8, Issue 2, April, 2018, (Serial Number 30)



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 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, Lermonyova, 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://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;jsessionid=A6F4735FC0E3D1368E947A2993074A>

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 8/2, 2018**

Table of contents:

Cezar Kongoli¹², Peter Romanov⁴², Sean Helfrich², Jiarui Dong³, Michael Ek³, Tomas Smith², A SNOW DEPTH ANALYSIS FOR THE NEXT GENERATION OF GLOBAL PREDICTION SYSTEMS, page 189-192;

Lubov Vladimirovna Pomazkina*, Yuliaya Victorovna Semenova, INFLUENCE OF HEAVY METALS POLLUTION IN SOIL AND CLIMATIC FACTORS ON THE FUNCTIONING OF AGROECOSYSTEMS IN THE FOREST-STEPPE OF THE BAIKAL REGION, page 193-202;

Abdi Atılgan¹, Hüseyin Tan², Hatice Ulusoy^{3*}, Hüseyin Peker⁴, DYE OF WASTE TEA EXTRACT WITH MORDANT-VARNISH AND THE EFFECT OF COLOR CHANGES ON WOOD, page 203-212;

Sukru Dursun^{1*}, Nahida Hameed Hamza Alqaysi^{1, 2*}, MULTIPLE LINEAR REGRESSION AND INVERSE DISTANCE WEIGHT (IDW) INTERPOLATION FOR SPATIAL ANALYSIS OF PM₁₀ AND SO₂ IN BURSA CITY, TURKEY, page 213-220;

Alexander Sizykh*, SCHEMATIC MAP "ECOTONES AND PARAGENESE IN THE VEGETATION STRUCTURE OF THE BAIKAL REGION, page 221-234;

Rahman Ferizi¹, Qenan Maxhuni², Kadir Huseyin^{3*}, ASSESSMENT OF PSEUDOMONAS AERUGINOSA AND SULFOREDUCTON BACTERIA AS AN INDICATOR OF HUMAN HEALTH RISK AND NATURAL WATER RESOURCE, page 235-240;

Elnaz Mehrvar Kokhalou¹, Mehri Fadaei Haghi^{1*}, IMPACT OF BUILDING FORM AND URBAN MICROCLIMATE ON ENERGY CONSUMPTION OF RESIDENTIAL BUILDINGS, page 241-248;

Timuçin BARDAK¹, Hüseyin PEKER^{2*}, Selahattin BARDAK^{3*}, EFFECTS EXAMINATION OF THE FACTORS AFFECTING CHOICE OF TYPE OF FURNITURE WITH DATA MINING TECHNIQUE (DECISION TREE), page 249-252;

E. Gjeçi^{1*}, P. Dhoqina¹, G. Xhixha¹, M. Shyti², Th. Karaja¹, NATURAL RADIOACTIVITY IN MAIN BUILDING AND RAW MATERIALS USED IN ALBANIA, page 253-256;

Birol BAKI^{1*}, Dilara KAYA ÖZTÜRK¹, Murat KERİM¹, DETERMINATION OF GROWTH AND NUTRIENT COMPOSITION VALUES IN MEAGRE (*ARGYRO SOMUS REGIUS*) AQUACULTURE, page 257-262;

Sukru Dursun^{1*}, Mushtaq Abdulameer Alwan Almuslehi^{1,2*}, COMPARATIVE BETWEEN GEOSTATISTICAL MODELS WHICH APPLIED TO ANALYSE THE MAJOR ANIONS CONCENTRATION IN GROUNDWATER KARAPINAR, KONYA, TURKEY*, page 263-272;

Özgür Eminağaoğlu^{1*}, Emrah Yüksel¹, Hayal Akyıldırım Beğen², FLORA OF THE HOD VALLEY (ARTVIN, TURKEY), page 273-282;

Victor I. Voronin*, Victor A. Krasnohaev, DETERMINATION OF PHENOLOGICAL PERIODS OF TREES BY THE METHOD OF CONDUCTOMETRY, page 283-292;

Mah Ozar Mahmudinejad¹, Mahmoud Rahmani^{2*}, Hamid Lorestani², IDENTIFY THE FACTORS INFLUENCING THE SELECTION OF ATTRACTIVE COMPANIES FOR INVESTMENT CASE STUDY: COMPANIES ACCEPTED IN TEHRAN STOCK EXCHANGE, page 293-300;

Nasim Hadadan¹, Afsaneh Sanatkaran^{2*}, Jaleh bagherly², EDUCATIONAL AND MOTIVATIONAL SELF-TEACHING EFFECT ON THOUGHT CONTROL VERSUS DISTURBING THOUGHTS OF ADOLESCENT SWIMMER GIRLS, page 301-308;

Mohammad Sadegh Rafat¹, Afsaneh Sanatkaran^{2*}, Shahram Mohammadkhani³, THE EFFECT OF RATIONAL EMOTIVE BEHAVIOR THERAPY (REBT) ON NEGATIVE PERFECTIONISM AND BURNOUT IN ATHLETES, page 309-318;