



## Environment & Ecosystem Science (EES)



### ADDRESS OF PUBLISHER & EDITOR'S OFFICE

C-3A-15 Centrio Pantai Hillpark 59200 Kuala Lumpur,  
Malaysia  
Tel.: +60 327332657  
Fax: +60 327332658

Assoc. Prof. Dr. Mansour Ahmed Balkhyour  
Environmental Sciences Department  
Faculty of Meteorology, Environment and Arid  
Land Agriculture  
King Abdulaziz University  
Jeddah, Saudi Arabia

### EDITORIAL STAFF:

#### Editor-in-Chief

Dr. Marlia Mohd Hanafiah  
School of Environmental and Natural  
Resource Sciences  
Faculty of Science and Technology  
Universiti Kebangsaan Malaysia  
Bangi, Selangor, Malaysia

**Frequency :** Bi-annual (2 issue per year)

ISSN: 2521-0882 (Print)  
ISSN: 2521-0483 (Online)

#### Price:

Single issue: 50 MYR  
Price for abroad  
Single issue: 25 USD

#### Associate Editors

Prof. Dato' Dr. Mazlin Mokhtar  
Institute for Environment and Development  
Universiti Kebangsaan Malaysia  
Bangi, Selangor, Malaysia

#### Web:

<https://www.zibelinepub.com>

#### E-mail:

[info@zibelinepub.com](mailto:info@zibelinepub.com)

## Contents

	Editorial	
1	EVALUATING ENVIRONMENTAL CONSIDERATIONS WITH CHECKLIST AND DELPHI METHODS, CASE STUDY: SURAN CITY, IRAN	01-04
2	SERISHM: AN ECO-FRIENDLY AND BIODEGRADABLE FLAME RETARDANT FOR FABRICS	05-08
3	RECOGNIZING THE POTENTIAL OF SUSTAINABLE USE OF PASTURE RESOURCES IN SOUTH KHORASAN PROVINCE WITH APPROCH OF CARRYING CAPACITY	09-12
4	DETERMINING THE SENSITIVE CONSERVATIVE SITE IN KOLAH GHAZI NATIONAL PARK, IRAN, IN ORDER TO MANAGEMENT WILDLIFE BY USING GIS SOFTWARE	13-15
5	FMEA TECHNIQUES USED IN ENVIRONMENTAL RISK ASSESSMENT	16-18

## Editorial

The scope of environment and ecosystem science extends from bounded systems such as watersheds to spatially complex landscapes, to the Earth itself, and crosses temporal scales from seconds to millennia. Environment and ecosystem science has strong links to other disciplines including landscape ecology, global ecology, biogeochemistry, aquatic ecology, soil science, hydrology, ecological economics and conservation biology. Studies of ecosystems employ diverse approaches, including theory and modelling, long-term investigations, comparative research and large experiments. Environment and ecosystem science publishes scientific articles dealing with the interface between ecosystems and the natural environment, specifically how ecosystem influences the environment and how changes in that environment impact ecosystems. Preference is given to papers from experimental and observational research at the field, system or landscape level, from studies that enhance our understanding of processes using data-based biophysical modelling, and papers that bridge scientific disciplines and integrate knowledge. All papers should be placed in an international or wide comparative context. All manuscripts are initially screened on their topic suitability and linguistic quality.

## Scientific Board

### Editor In Chief

Dr. Marlia Mohd Hanafiah  
School of Environmental and Natural Resource  
Sciences  
Faculty of Science and Technology  
Universiti Kebangsaan Malaysia  
Bangi, Selangor, Malaysia

### Associate Editor

Prof. Dato' Dr. Mazlin Mokhtar  
Institute for Environment and Development  
Universiti Kebangsaan Malaysia  
Bangi, Selangor, Malaysia

Assoc. Prof. Dr. Mansour Ahmed Balkhyour  
Environmental Sciences Department  
Faculty of Meteorology, Environment and Arid  
Land Agriculture  
King Abdulaziz University  
Jeddah, Saudi Arabia

### Editorial Members

Dr. Laura Golsteijn  
PRé Consultants bv  
The Netherlands

Dr. Muhammad Aqeel Ashraf  
Universiti Malaysia Sabah  
Malaysia

Dr. Obijiofor Aginam  
International Institute for Global Health  
United Nations University

Dr. Kiyotada Hayashi  
National Agriculture and Food Research  
Organization  
Institute for Agro-Environmental Sciences  
Japan

Prof. Dr. Mushrifah Idris  
Universiti Kebangsaan Malaysia  
Malaysia  
Koichi Shobatake  
TCO2 CO., Ltd  
Japan

Md Selim Reza  
Geological Survey of Bangladesh

Dr. Yandra Arkeman  
Bogor Agricultural University  
Indonesia

Assoc. Prof. Dr. Azhar Abdul Halim  
University Kebangsaan Malaysia

Dr. Muhammad Izzuddin Syakir  
Universiti Sains Malaysia

Dr. Firoz Khan  
Universiti Kebangsaan Malaysia

Dr. Wan Syaidatul Aqma Wan Mohd Noor  
Universiti Kebangsaan Malaysia

Dr. Simon Kumar Das  
Universiti Kebangsaan Malaysia

Dr. Elmer Bautista  
Philippine Rice Research Institute