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# JMSET



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## Foreword

Journal of Marine Sciences and Environmental Technologies (JMSET) is a scientific refereed periodical international journal (ISSN-Print: 2413-5267; and ISSN-Online: 2706-9966). It is issued by Faculty of Marine Resources at Alasmarya Islamic University, in accordance to the resolution of the Council of Alasmarya Islamic University (253/2015). JMSET endeavors to provide a notable and discern forum to publish research manuscripts of high quality relevant to wider area of marine science and environmental topics. JMSET is a multidisciplinary journal covering wide area subjects of marine science and environmental technologies. It promotes insight and understanding of the state of the art, and trends in environment, engineering, and marine sciences.

This volume 5 and issue 2 (December 2019) contains seven diversified scientific contributions (manuscripts) which are blindly peer reviewed by members of JMSET editorial, and reviewers panel to ensure optimum standards. We hope these papers will be helpful for imparting advanced knowledge to the researchers, academics, and technologist who are involved in research, teaching and practical fields. The issue covers a broad range of topics in the field science, and techniques of environmental impacts. During the past four years with the efforts of all members of the Editorial and Evaluation Board, we are pleased to announce that the Journal received the Arab Impact Factor for the year 2019 (1.7). Consequently, the impact factor of the journal has increased over the past years. In this regard, we can only congratulate ourselves and you on this achievement, and we promise you that efforts will be made to enter the International Scientific Impact Factor (ISI).

We want to express our heartfelt thanks to Authors for submitting their work and also to the distinguished members of the editorial board, reviewers and the publication committee who have put their relentless effort to publish the issue successfully. We believe this issue reflects the topics focus of JMSET and provides resources to the research community. We believe our authors will be continuously supporting and relying on JMSET to publish quality research work.

***Dr. Maher A. Eraibi***

Editor-in-Chief, JMSET  
Dean of Faculty of Marine Resources  
Alasmarya Islamic University

# Call for Manuscripts

Journal of Marine Sciences and Environmental Technologies is a peer-reviewed journal, published by Faculty of Marine Resources, Alasmarya Islamic University. The journal publishes research papers in the fields of;

## Marine Science;

The journal draws from diverse topics within the major disciplines of coastal and blue water oceanography (biological, chemical, geological and physical) as well as subjects in ecology, conservation and technological developments with the marine environment as the unifying theme. Also all branches of engineering related to marine such as (offshore & marine explore, mechanical, naval architecture and corrosion,... etc.).

## Environmental Technologies;

JMSET covers all sorts of researches on the field of environmental technologies (management, assessment, monitoring and treatment) of atmospheric environment, aquatic environment and municipal solid waste,...etc.

We are seeking submissions for forthcoming issues. The paper should be written in professional English. The length of 3000-8000 words is preferred. All manuscripts should be prepared in MS-word format, and submitted to managing Editor e-mail.

## **Paper Selection and Publication Process**

- a) Upon receipt of paper submission, the editor sends an E-mail of conformation to the corresponding author within 1-3 working days. If you fail to receive this conformation, your submission/e-mail may be missed. Please contact the Editor in time for that.
- b) Peer review. We use double-blind system for peer-review, both reviews and authors' identities remain anonymous. The paper will be peer-reviewed by three experts, one is an editorial staff and the other two are external reviewers. The review process may take 2-3 weeks.
- c) Notification of the results of review by E-mail to into the authors to revise paper.
- d) After publication, the corresponding author will receive one copy of printed journal and one soft copy of journal, free of charge.

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## Preface

Issue 2 of volume 5, includes the contributions from the following categories: (Soil and water, Geographic Information Systems and Remote Sensing, Microbiology, Material and Mineral Science, Biotechnology, Food Science, and Botany).

The seven manuscripts in this JMSET Journal (Volume 5, Issue No. 2) present an in-depth discussion on latest field of Applied Science.

The first research paper presented a study on Laboratory and Statistical Methods for Estimating Soil Erosion on Al-Jabal Alkhdar Slopes. The second research paper was concerned with Study of The Spatio-Temporal Relationship Between VIIRS and LiDAR Satellites Imagery of Sulfur Dioxide Emissions from Mergeb Cement Plant in Khoums City, Libya. The third research paper showed a mini review about Benefits and Limitations of *Rhizobium*-Legume Symbiosis and Nitrogen Fixation Under Libyan Saline Soil. While the fourth research paper included the Finite Element Analysis of Free Energy Permanent Magnet Motor Using Solidworks and Finite Element Method Magnetics (FEMM) Software. The fifth research paper focused on studying of The Ability of Secondary Metabolites from *Bacillus* spp. in Inhibition of Formation of Bacterial Biofilms. The sixth paper concerned with Optimization of Carp (*Cyprinus carpio*) Fish Wastes Oil Color Extracted by Using Infra-red Ray with Response Surface Methodology. The seventh and final research paper studied Allelopathy of Aqueous Extracts of Leaves, Flower and Fruits of *Hyoscyamus muticus* L.

*JMSET Editorial Board*

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