
Journal of Marine Sciences & Environmental Technologies

JMSET



ISSN (Print): 2413-5267
ISSN (Online): 2706-9966

Volume 9, issue 1 (June-2023)

Editor-in-Chief

Prof. Dr. Moustafa E. Elsharif (Alasmarya Islamic University, Libya)

Managing Editor

Assoc. Prof. Dr. Aly Y. Okasha (Alasmarya Islamic University, Libya)

Editing General Supervisor

Assoc. Prof. Dr. Hesham G. Ibrahim (Alasmarya Islamic University, Libya)

Associate Editors

Prof. Dr. Khaled Ahmed Alfallous (Alasmarya Islamic University, Libya)

Assoc. Prof. Dr. Ali A. Abu Hamra (Alasmarya Islamic University, Libya)

Assist. Prof. Dr. Jamal S. Haider (Alasmarya Islamic University, Libya)

Assoc. Prof. Dr. Abdusalam Imhmed Al Khwaji (Alasmarya Islamic University, Libya)

Scientific Advisory Committee

Prof. Dr. Abdulsalam M. Methnani (Wadi ElShati' University, Libya)

Prof. Dr. Mohamed A. Elsaidi (SRCEST, Libya)

Prof. Dr. Abdelhafid A. Moussa (University of Omar Al-Mukhtar, Libya)

Prof. Dr. Mohamed Abdel Galil Ahmed Abdel Aal (Damietta University, Egypt)

Prof. Dr. Altaher Ibrahim Altabet (University of Tripoli, Libya)

Prof. Dr. Salahaldiyn Al-Fitouri Qashout (Marine Biology Research Center, Libya)

Prof. Dr. Ahmed Elaabid H. Mohammed (SUST, Sudan)

Prof. Dr. Esmail A. Shakman (University of Tripoli, Libya)

Prof. Dr. Hassan Al Hussein Abu Arabiya (Elmergib University, Libya)

Prof. Dr. Ayman Mohamed M. Nahrawi (AASTMT, Egypt)

Prof. Dr. Adel Mokhtar Al-Maghribi (Biotechnology Research Center, Libya)

Journal of Marine Sciences and Environmental Technologies (JMSET)
is a biannually scientific referred periodical international journal.

Published by;

*Faculty of Marine Resources
Alasmarya Islamic University
Zliten City-Libya*

Legal Deposit Number: 402/2019, National Book House, Benghazi, Libya.

ISSN (Print): 2413-5267

ISSN (Online): 2706-9966



DOI: <https://doi.org/10.59743/jmset.Vxix.xxx>

Arab Impact Factor (AIF) 2022 (2.11)

Arab Impact Factor (AIF) 2021 (1.955)

Arab Impact Factor (AIF) 2020 (2.01)

Arab Impact Factor (AIF) 2019 (1.7)

Arab Impact Factor (AIF) 2018 (1.6)

Arab Impact Factor (AIF) 2017 (1.6)

<http://arabimpactfactor.com>



The correspondence should be sent to the following address:

Dr. Director of the editorial board

Journal of Marine Sciences and Environmental Technologies

Faculty of Marine Resources, Alasmarya Islamic University

Zliten Teaching Hospital Road, Beside Sports City

Zliten, Libya

PO Box 50 Zliten

Fax: + 218514628034

E-mail: jmsetg@asmarya.edu.ly

© Copyright 2023 by Faculty of Marine Resources, Alasmarya Islamic University, Zliten City, Libya.

All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means electronic, photocopying or otherwise, without the prior written permission of the copyright holders.

All the contents of this journal reflect the views of the authors and do not necessarily reflect the views of the editorial board or the university. Researchers bear full legal responsibility for what is presented in them researches.

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 the Faculty of Marine Resources at Alasmarya Islamic University, in accordance with 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 a wider area of marine science and environmental topics. JMSET is a multidisciplinary journal covering a wide area of subjects of marine science and environmental technologies to promotes insight and understanding of the state of the art, and trends in the environment, engineering, and marine sciences.

This volume 9 and issue 1 (June, 2023) contains nine 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 technologists who are involved in research, teaching, and practical fields. The issue covers a broad range of topics in the field of marine science, and techniques of environmental impacts. During the past eight 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 2022 (2.11). 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 to make efforts to enter the international platforms, after the journal obtains a digital identifier within (Crossref), also for the previous published manuscripts.

We want to express our heartfelt thanks to the 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 topic 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 works.

Prof. Dr. Mustafa E. Alsharif

Editor-in-Chief, JMSET

Call for Manuscripts

Journal of Marine Sciences and Environmental Technologies is a peer-reviewed journal, published by the 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 in the field of environmental technologies (management, assessment, monitoring, and treatment) of atmospheric environment, the 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 the Managing Editor's e-mail.

Publication Process

- Upon receipt of paper submission, the Editor sends an E-mail of confirmation to the corresponding author within 1-3 working days. If you fail to receive this confirmation, your submission/e-mail may be missed. Please contact the Editor in time for that.
- Peer review. We use a 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.
- Notification of the results of the review by E-mail to the authors to revise the paper.
- After publication, the corresponding author will receive one copy of the printed journal and one soft copy of the journal, free of charge.
-

Requirements and Copyrights

Submission of an article implies that the work described has not been published previously (except in the form of an abstract or as part of a published lecture or academic thesis), that it is not under consideration for publication elsewhere, that its publication is approved by all authors and tacitly or explicitly by the responsible authorities where the work was carried out, and that, if accepted, it will not be published elsewhere in the same form, in English or in any other languages, without the written content of the Publisher. The Editors reserve the right to edit or otherwise alter all contributions, but authors will receive proofs for approval before publication.

Copyrights for articles published in JMSET journal are retained by the authors, with first publication rights granted to the journal. The journal/publisher is not responsible for subsequent uses of the work. It is the author's responsibility to bring an infringement action if so desired by the author.

More Information

Contact with Managing Editor

E-mail: jmsetg@asmarya.edu.ly

Preface

Issue 1 of volume 9, includes the contributions from the following categories: (Biotechnologies, fish nutrition, air quality, drinking water assessment, food preservation, food contamination, animal production, recycling, drinking water quality).

The nine manuscripts in this JMSET Journal (Volume 9, Issue No. 1) present an in-depth discussion on the latest field of Marine and Applied Science.

The first research paper was concerned with the Effect of Foliar Spraying with Some Commercial Bio-Stimulants on the Physiological Responses of Eggplant (*Solanum melongena* L.). The second research paper includes a Study of the Effects of Plant Essential Oil Used as Feed Supplements in Aquaculture on the Immune Response, and Antioxidant Status of Finfish: A Review. The third research paper includes an Assessment of Air pollution in Benghazi City during February and March periods using an Airvisual Outdoor Monitor. The fourth research paper focused on the Study of Some Physical and Chemical Properties of Drinking Water in Some Educational Institutions in Souq Althulatha Area, Zliten. The fifth paper is concerned with the Use of Pulsed Electric Field (PEF) as a Non- Thermal Technique in the Treatment and Preservation of Food: A Review Study. The sixth paper introduced an Assessment of Potassium Bromate Content in Flour and Some Food Products in Ubari City, Southern Libya. The seventh research paper concerns the Effect of Manufactured Bacterial Preparation on the Productive Traits of Broiler Chickens. The eighth research paper introduced the Effect of Adding Red Ceramic Dust on the Specifications of Clinker for Portland Cement. The final manuscript concerns Estimating the Amount of Total Dissolved Salts and Electrical Conductivity in The Water Produced from Water Desalination Plants Located within The Municipality of Tajoura.

JMSET Editorial Board

Contents

Effect of Foliar Spraying with Some Commercial Bio-Stimulants on Physiological Responses of Eggplant (<i>Solanum melongena</i> L.)	E01-11
<hr/>	
Abdelnaser T. Abed, Mohamed Ali Saed Fahej, and Elhadi Hadia.	
Effects of Plant Essential Oil Used as Feed Supplements in Aquaculture on Immune Response, and Antioxidant Status of Finfish: A Review.	E12-40
<hr/>	
Mohamed Omar Abdalla Salem.	
Assessment of Air pollution in Benghazi City during February and March periods using Airvisual Outdoor Monitor.	E41-55
<hr/>	
Fares F. Fares, Farag M. El Oshebi, Elhadi M. Abogrean, Khalid H. Glele, Musbah S.Rween and Omar A. Geniber.	
Study of Some Physical & Chemical Properties of Drinking Water in Some Educational Institutions in Souq Althulatha Area, Zliten.	E56-65
<hr/>	
Mhamed A. Aburawi and Ahmed F. Abuaaisha.	
Use of Pulsed Electric Field (PEF) as a Non Thermal Technique in Treatment and Preservation of Food: A Review Study.	A01-28
<hr/>	
Alaa R. Abdulstar, Sabah M.H. Al-Shatty, and Asaad R.S. Al-Hilphy.	
Assessment of Potassium Bromate Content in Flour and Some Food Products in Ubari City, Southern Libya.	A29-37
<hr/>	
Isma M. Abdorlhman and A.M. Almathnani .	
Effect of the Manufactured Bacterial Preparation on the Productive Traits of Broiler Chickens.	A38-52
<hr/>	
Ahmed A. Al-Salhi, Sabah M. Al-Shatty, and Qutiba J. Al-Khfaji.	
Effect of Adding Red Ceramic Dust on the Specifications of Clinker for Portland Cement.	A53-62
<hr/>	
Osamah A. Algahwaji, Radwan Al-Futaisi, Abu Al-Qasim Mushairi, Abdul Rahman Al-Abani, and Salem Abu Zariba.	
Estimating The Amount of Total Dissolved Salts and Electrical Conductivity in The Water Produced from Well Water Desalination Plants Located within The Municipality of Tajoura.	A63-74
<hr/>	
Abdulla Ali Aboudhier, Nader Abdulhamid Elaziby, and Abdurrahman Ahmed Alrayani.	