

ISSN: 2161-7384

Volume 11, Number 4, October 2021



# Open Journal of Marine Science

ISSN: 2161-7384



<https://www.scirp.org/journal/ojms>

# Journal Editorial Board

ISSN 2161-7384 (Print) ISSN 2161-7392 (Online)

<https://www.scirp.org/journal/ojms>

---

## Editor-in-Chief

**Prof. David Alberto Salas-de-León** National Autonomous University of Mexico, Mexico

## Editorial Board

**Dr. Sala Antonello** National Research Council (CNR)-Institute of Marine Science (ISMAR), Italy

**Dr. Jasmine Ferrario** University of Pavia, Italy

**Dr. Ana García-García** University of California in Santa Cruz, USA

**Dr. George Katselis** Technological Educational Institution of Mesolonghi, Greece

**Prof. Baoquan Li** Chinese Academy of Sciences, China

**Dr. Chi-Min Liu** Chienkuo Technology University, Chinese Taipei

**Dr. Andrew J. Manning** University of Plymouth, UK

**Prof. Mauro Marini** Institute of Marine Science, Italy

**Prof. Abhijit Mitra** University of Calcutta, India

**Dr. Benjamin M. Mwashote** Florida State University, USA

**Prof. Jeom Kee Paik** Pusan National University, South Korea

**Prof. Hans Ulrik Riisgård** University of Southern Denmark, Denmark

**Prof. W. Lindsey White** AUT University, New Zealand

**Prof. Jiachen Yang** Tianjin University, China

# Table of Contents

**Volume 11    Number 4**

**October 2021**

**Spatial and Temporal Variation of the Hydrological Parameters in the Wouri-Nkam  
Section of the Cameroon Estuary, Central African Atlantic Coast**

F. Besack, E. S. Rodrigue, A. G. Nwutih, E. R. Dieudonné, S. E. Willy, N. Brice, M. E. Junior,  
H. T. Michel-Remi, O. Raphael, T. E. Minette.....129

**Research on Growth Characteristics of Green-Tide-Forming Green Algae under Stress  
Conditions**

J. H. Tao, Y. Y. Pei, J. Y. Zhu, Q. Q. Lu, H. X. Jiang, T. Zhang.....157

**Variation of Density and Biomass of the Ichthyofauna Associated to Soft  
Bottoms of a Western Coastal Lagoon of B.C.S., Mexico**

B. R. C. Rosas, E. B. González, J. M. L. Vivas, J. Á. A. Quintana, J. A. Parra, R. D. A. Guerrero,  
R. E. Tiscareño.....169

**The Dietary Importance of Kelp-Derived Detritus to Pelagic and Benthic Consumers along  
the West Coast of Vancouver Island, Canada**

B. C. Ramshaw, E. A. Pakhomov.....187

# Open Journal of Marine Science (OJMS)

## Journal Information

### SUBSCRIPTIONS

The *Open Journal of Marine Science* (Online at Scientific Research Publishing, <https://www.scirp.org/>) is published quarterly by Scientific Research Publishing, Inc., USA.

#### Subscription rates:

Print: \$69 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: [sub@scirp.org](mailto:sub@scirp.org)

### SERVICES

#### Advertisements

Advertisement Sales Department, E-mail: [service@scirp.org](mailto:service@scirp.org)

#### Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: [sub@scirp.org](mailto:sub@scirp.org)

### COPYRIGHT

#### Copyright and reuse rights for the front matter of the journal:

Copyright © 2021 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY).

<http://creativecommons.org/licenses/by/4.0/>

#### Copyright for individual papers of the journal:

Copyright © 2021 by author(s) and Scientific Research Publishing Inc.

#### Reuse rights for individual papers:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

#### Disclaimer of liability

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

### PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: [ojms@scirp.org](mailto:ojms@scirp.org)



# Open Journal of Marine Science (OJMS)

ISSN 2161-7384 (Print) ISSN 2161-7392 (Online)  
<https://www.scirp.org/journal/ojms>

**Open Journal of Marine Science (OJMS)** is an international journal dedicated to the latest advancement of marine science. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in different areas of marine science. All manuscripts must be prepared in English, and are subject to a rigorous and fair peer-review process. Accepted papers will immediately appear online followed by printed hard copy.

## Editor-in-Chief

**Prof. David Alberto Salas-de-León**

National Autonomous University of Mexico, Mexico

## Subject Coverage

The journal publishes original papers including but not limited to the following fields:

- Estuarine and Coastal Marine Science
- Marine and Freshwater Ecosystems
- Marine and Petroleum Geology
- Marine Biodiversity
- Marine Biology
- Marine Biotechnology
- Marine Chemistry
- Marine Drugs
- Marine Ecology
- Marine Environmental Research
- Marine Genomics
- Marine Geology
- Marine Geophysical Researches
- Marine Mammal Science
- Marine Micropaleontology
- Marine Models
- Marine Policy
- Marine Pollution
- Marine Structures
- Marine Systems
- Molecular Marine Biology and Biotechnology

We are also interested in: 1) Short Reports—2-5 page papers where an author can either present an idea with theoretical background but has not yet completed the research needed for a complete paper or preliminary data; 2) Book Reviews—Comments and critiques.

## Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

## Website and E-Mail

<https://www.scirp.org/journal/ojms>

E-mail: [ojms@scirp.org](mailto:ojms@scirp.org)

## ***What is SCIRP?***

Scientific Research Publishing (SCIRP) is one of the largest Open Access journal publishers. It is currently publishing more than 200 open access, online, peer-reviewed journals covering a wide range of academic disciplines. SCIRP serves the worldwide academic communities and contributes to the progress and application of science with its publication.

## ***What is Open Access?***

All original research papers published by SCIRP are made freely and permanently accessible online immediately upon publication. To be able to provide open access journals, SCIRP defrays operation costs from authors and subscription charges only for its printed version. Open access publishing allows an immediate, worldwide, barrier-free, open access to the full text of research papers, which is in the best interests of the scientific community.

- High visibility for maximum global exposure with open access publishing model
- Rigorous peer review of research papers
- Prompt faster publication with less cost
- Guaranteed targeted, multidisciplinary audience



**Scientific  
Research  
Publishing**

**Website: <https://www.scirp.org>**

**Subscription: [sub@scirp.org](mailto:sub@scirp.org)**

**Advertisement: [service@scirp.org](mailto:service@scirp.org)**