

# Open Journal of Composite Materials



ISSN: 2164-5612



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

# Journal Editorial Board

ISSN 2164-5612 (Print) ISSN 2164-5655 (Online)

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

---

## Editor-in-Chief

**Dr. Xiaosong Huang**

General Motors Global R&D, USA

## Editorial Board

**Prof. Mehmet Aktas**

Usak University, Turkey

**Prof. Mohammad Reza Allazadeh**

Hungarian Academy of Sciences, Hungary

**Prof. Mehmet Hakki Alma**

University of Kahramanmaras Sutcu Imam, Turkey

**Prof. S. Joseph Antony**

University of Leeds, UK

**Dr. Zeki Candan**

Istanbul University, Turkey

**Prof. Carlos Chastre**

Department of Civil Engineering NOVA University  
of Lisbon, Portugal

**Prof. Igor Emri**

Institute for Sustainable Innovative Technologies, Slovenia

**Dr. Hicham Es-soufi**

Moulay Ismail University, Morocco, Morocco

**Dr. Hessam Ghasemnejad**

Cranfield University, UK

**Dr. Ali Kilic**

Istanbul Technical University, Turkey

**Prof. Hyun-Joong Kim**

Seoul National University, South Korea

**Prof. Walter Lacarbonara**

Sapienza University of Rome, Italy

**Prof. Pier Marzocca**

RMIT University, Australia

**Prof. Abbas S. Milani**

University of British Columbia, Canada

**Dr. Mutlu Ozcan**

University of Zurich, Switzerland

**Prof. Carlo Santulli**

Università La Sapienza, Italy

**Prof. Jens Schuster**

University of Applied Sciences Kaiserslautern, Germany

**Prof. Mahmood M. Shokrieh**

Iran University of Science and Technology, Iran

# Table of Contents

**Volume 10    Number 4**

**October 2020**

**Elaboration and Characterization of a Hybrid Composite Material with Two Particles of the Same Size: Coco Shells and Palm Shells**

P. M. A. Noah, E. F. Betene, S. V. Obame, B. Allasra, M. C. Bindjeme, A. Atangana.....77

**Pyrolytic Recycling of Carbon Fibers from Prepregs and Their Use in Polyamide Composites**

S. Schwarz, T. Höftberger, C. Burgstaller, A. Hackl, C. Schwarzingner.....92

**Elaboration and Characterization of a Fiber Composite Material Made of Petioles of the *Elaeis guineensis* (Oil Palm)**

Z. E. Parfait, T. Théodore, S. J. Loic, N. C. Wiryikfu, P. Joseph, M. L. Arnaud.....106

**Mechanical Properties of Bio-Based Epoxy Composites Reinforced with Hybrid-Interlayer Ramie and Recycled Carbon Fibres**

C. K. Zhu, S. H. Li, X. Y. Cong, X. L. Liu.....118

# Open Journal of Composite Materials (OJCM)

## Journal Information

### SUBSCRIPTIONS

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

#### Subscription rates:

Print: \$79 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 © 2020 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 © 2020 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: [ojcm@scirp.org](mailto:ojcm@scirp.org)

Call for Papers



# Open Journal of Composite Materials

ISSN 2164-5612 (Print)    ISSN 2164-5655 (Online)

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

Open Journal of Composite Materials (OJCM) is an international journal dedicated to the latest advancement of composite materials. 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 composite materials.

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

- ◆ Bio-Composite Materials
- ◆ Composite Materials in Other Disciplines
- ◆ Functional Composites
- ◆ Inorganic Non-Metallic Matrix Composite
- ◆ Metal Matrix Composites
- ◆ Organic-Inorganic Hybrid Composites
- ◆ Polymer Composites
- ◆ Wood Composites

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/ojcm>

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