COMPOSITES PART C: OPEN ACCESS

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DESCRIPTION

Composites Part C: Open Access (JCOMC), a sister journal to Composites Part A: Applied Science and Manufacturing, Composites Part B: Engineering, and Composite Structures, is a Gold Open Access journal. The journal publishes high-quality, peer-refereed original research articles and reviews on a broad range of composite materials. All research articles are freely available via the Internet upon publication to maximize the readership. Authors are welcome to submit your work to the most relevant topical section via its dedicated editorial channel:

I. Sustainable Composites
II. Multi-functional Composites
III. Composite Structures

For details of each topical section, please check the journal's Guide for Authors.

ABSTRACTING AND INDEXING

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GUIDE FOR AUTHORS

INTRODUCTION
Submissions that fit into any of the 3 topical sections are welcome. Authors are suggested to read below for more information.

Section I: Sustainable Composites

Composites Part C - Open Access: Sustainable Composites targets to provide a platform for rapid publication of high-quality manuscripts that address challenges and innovations in the area of composite materials that relate to all aspects of sustainability. Sustainable material alternatives can play an important role in reducing the environmental impacts of materials as well as in lessening the emission of anthropogenic greenhouse gas (GHG). The three-pillar structure of sustainability fundamentally fosters environmental, economic and societal benefits. Improving sustainability of composites through three-pillar strategies is a significant scientific challenge. Sustainable material resources and processing are part of a broader concept of sustainability that encompasses the entire productions system and a lifetime of the material and their products. The Sustainable Composites will advance the way we design and engineer novel composites from renewable resources, recycled materials, waste streams and their combinations for the new economy. The effective integration of the outputs of the bioeconomy, advanced biorefinery and circular economy practices can provide solutions in engineering sustainable composites for a wide range of industrial uses.

The editor welcomes articles, short communications, reviews and features in the broad area of sustainable composites. The topics within the scope of the journal include, but are not limited to:

- Green chemistry and engineering of composites and hybrid composites
- Biobased plastics and biobased composites
- Composites supporting waste valorization and maximal efficiency in material re-uses
- Recycled plastics, recycled fibres and their integration into composite structures
- Novel matrix systems and blends with improved interfacial adhesion for composite uses
- Durability and recycling of composites
- Biodegradable composites - composting, marine biodegradability and landfiilling
- Composites in novel technologies including 3D printing of sustainable composites
- Life-Cycle Assessment and Socio-economic impacts of sustainable composites
- Policy and technical challenges for wider use of sustainable composites

Section II: Multi-functional Composites

Composite materials and structures are increasingly being designed, manufactured and used in-service for multiple functions rather than just a single purpose such as load-bearing. Composites allow the opportunity to impart multiple functional properties within a single material or structure which enhances their efficiency and widens their applications. Traditionally light-weight composite materials used in such structural applications as aerospace, motor vehicles, marine craft, wind turbines and other uses have been designed for one function: load-bearing. Major advances have been made to now use composites for two or more functional properties, such as combining load-bearing with high electrical conductivity and energy storage properties or load-bearing with self-sensing and self-healing properties.

This section (Multifunctional Composites) disseminates the latest research and developments between users, manufacturers, designers and researchers in multifunctional materials and structures. Research papers are welcome on any aspect of composites combining two or more functional properties, including (but not limited to) mechanical, optical, electrical, magnetic, electromagnetic, thermal, energy storage, self-sensing, structural health monitoring, self-healing, mendable and shape morphing properties. Papers are welcome on the design, manufacture, constituent materials, computational and analytical analysis, experimental testing and in-service applications of multifunctional composite materials and structures.

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Section III - Composite Structures of this journal intends to bring forward the best basic and applied research and applications on composite structures. Users, manufacturers, designers and researchers involved in structures or structural components using composite materials are welcome to share their results, methodologies and codes with an international audience.
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