



Editorial

Journal of Composites Science: A New Journal for Composite Materials, Structures and Experiments

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The *Journal of Composites Science* is a new, online, open access journal, which aims to focus on advanced technology and the development of composites and composite structures. The journal will be an interdisciplinary forum on all aspects of composite materials processing and modelling such as classical and novel fiber reinforced composites, nanocomposites, biomedical composites, and energy composites. The modelling and non-destructive evaluation of composite materials and structures will be considered as well as material processing, manufacturing, material properties, and performances. Other aspects concerning repair, testing, and nanotechnology will also be covered. Research aspects concerning theoretical modelling and structural components are important for this journal, in order to present a clear and profound application of composite materials for science. Importance will also be given to physics, chemistry, and the mechanical characterization of composites. Due to the general complexity of such systems, the journal will focus on computational mechanics and numerical analysis. Therefore, research papers on numerical simulations of composite materials and structures can also be presented.

All themes connected to composite materials and structures will be covered by the *Journal of Composites Science* due to the great importance of such components in engineering practices. The use of composite materials actually started many decades ago, but it is with the advent of highly engineered composite materials and their use in engineering practices that the research on such topics grew exponentially. Due to the introduction of such materials, structures are lighter, stiffer, and more reliable. Structures made of composite materials such as beams, plates, and shells improved their properties and this has been demonstrated by the wide range of publications on such topics recently. The content of the journal is especially dedicated to scientists carrying out research and/or who are interested in structural mechanics, wind engineering, aerospace engineering, naval engineering, structural dynamics and stability, material science, material modelling, homogenization techniques, smart materials, manufacturing processes, and experimental modeling.

In classic composite materials, such as reinforced concrete, individual components remain separate and distinct in the finished structure. However, novel composite materials might employ nanofibers as a reinforcing phase, so that they have a more complex appearance and are generally treated as homogenized anisotropic materials. When composite materials are used in place of classic isotropic materials, the behavior of the structural components changes significantly. In particular, these resulting structures are stiffer and safer when compared to classical isotropic structures.

The *Journal of Composites Science* encourages the publication of relevant experimental and theoretical works, so that the results can be reproduced by our readers. It is the aim of the journal to publish relevant contributions for the scientific community of composites. Articles and review papers are also welcomed. The journal does not give any limitation on the length of manuscripts, allowing authors to explain their scientific content thoroughly. This is of great importance for readers in order to understand the content of scientific papers, and eventually replicate the results in order to propose new advancements on the topic.

On the behalf of the Editorial Office and Editorial Board, I invite all authors and reviewers and thank them for the valuable contributions that they are willing to send to the *Journal of Composites Science*. Together we can build and develop the *Journal of Composites Science* to become a premier interdisciplinary journal on composites. Our goal is to have a fast publication process of high quality journal papers on groundbreaking topics, in particular related to novel and advanced composite materials as well as composite beams, plates, shells, and body parts in general.



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