



an Open Access Journal by MDPI

Synthesis and Application of Multifunctional Nanocomposites

Guest Editors:

Dr. Wei Wang

School of Mechanical and Manufacturing Engineering, University of New South Wales, Sydney, NSW 2052, Australia

Dr. Yao Yuan

Fujian Provincial Key Laboratory of Functional Materials and Applications, School of Materials Science and Engineering, Xiamen University of Technology, Xiamen 361024, China

Dr. Lulu Xu

School of Chemical Engineering, University of New South Wales, Sydney, NSW 2052, Australia

Deadline for manuscript submissions:

31 March 2025

Message from the Guest Editors

Dear Colleagues,

This Special Issue focuses on the innovative research in the dynamic field of multifunctional nanocomposites, highlighting cutting-edge studies that showcase the unique capabilities and applications of these advanced materials. Multifunctional nanocomposites are revolutionizing numerous sectors, including electronics, healthcare, energy, and environmental science.

This Special Issue brings together a collection of original research articles, in-depth reviews, and thought-provoking perspectives from leading experts and emerging scholars. It aims to provide a comprehensive overview of recent advancements in the design, synthesis, and functionalization of nanocomposites.

By presenting pioneering research and fostering discussions on the challenges and future directions, this Special Issue serves as an invaluable resource for scientists, engineers, and practitioners. It aims to inspire further innovation and facilitate the translation of fundamental research into practical solutions that address critical global challenges.



mdpi.com/si/213738

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical
Biology and Phytochemistry,
University of Münster,
Corrensstrasse 48, D-48149
Münster, Germany

Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Reaxys](#), [CaPlus / SciFinder](#), [MarinLit](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q2 (Chemistry, Multidisciplinary) / CiteScore - Q1 (Chemistry (miscellaneous))

Contact Us

Molecules Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/molecules
molecules@mdpi.com
[X@Molecules_MDPI](#)