

Special Issue

High-Performance Carbon Materials and Their Composites

Message from the Guest Editor

High-Performance Carbon Materials are broadly discovering applications in biology, medicine electronic, optoelectronic, energy storage, and conversion systems, environmental applications and water treatment, smart materials and systems, structural and thermal applications for nuclear reactors, the photovoltaic industry, the semiconductor industry, the aerospace industry and carbide tool, etc. This Special Issue aims to collect recent progress, achievements, breakthroughs, challenges, and future directions of different types of high-performance carbon materials for various applications. Studies on high-performance carbon material fabrication methods, characterization techniques, simulations, and evaluation of carbon materials for specific applications are also encouraged. We invite you to submit papers on these subjects related to carbon materials, including, but not limited to, the following: 1. Carbon black; 2. Carbon fibers and filaments; 3. Carbon nanotubes; 4. Diamond and diamond-like carbon; 5. Glassy carbon; 6. Nano-pore graphite blocks; 7. All kinds of Cf/SiCf composites; 8. All kinds of other carbon-based coatings; 9. sp²- and non-sp²-hybridized carbon systems.

Guest Editor

Prof. Dr. Jinliang Song
Shanghai Institute of Applied Physics, Chinese Academy of Sciences,
Shanghai, China

Deadline for manuscript submissions

closed (25 April 2025)



C

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 3.4



mdpi.com/si/180879

C
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
c@mdpi.com

[mdpi.com/journal/
carbon](https://mdpi.com/journal/carbon)





C

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 3.4



[mdpi.com/journal/
carbon](https://mdpi.com/journal/carbon)



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Craig E. Banks
Faculty of Science and Engineering, Manchester Metropolitan
University, Chester Street, Manchester M1 5GD, UK

Author Benefits

High Visibility:

indexed within ESCI (Web of Science), Scopus, CAPlus /
SciFinder, and other databases.

Journal Rank:

CiteScore - Q2 (Environmental Science (miscellaneous))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 22.5 days after
submission; acceptance to publication is undertaken in 2.8
days (median values for papers published in this journal in
the second half of 2025).