

## Special Issue

# Advances in Graphite Electrode

### Message from the Guest Editor

Graphite electrode is widely used in electrochemical applications, especially in Li-ion batteries since their inception. The graphite electrode is suitable for reversible (de)intercalation of Li-ions and supports the formation of the passivating solid-electrolyte interphase (SEI). We welcome your contributions to this special issue on 'Advances in Graphite Electrode' in the journal *Materials* (SEIC, ISSN 1996-1944), which is an open access journal. The special issue aims to publish both experimental and computational research spotlights, reviews, original research contributions, and short communications. There is no restriction on the maximum length of the papers. Research areas may include (but not limited to) the following: understanding of Li-ion intercalation and transport; reactions leading to solvent decomposition and formation of SEI; characterization and modelling of structure and properties of SEI; reactions such as Li-plating and dendrite growth; etc.

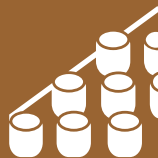
### Guest Editor

Dr. Arihant Bhandari

School of Chemistry, University of Southampton, Southampton SO17 1BJ, UK

### Deadline for manuscript submissions

20 February 2025



## Materials

an Open Access Journal  
by MDPI

Impact Factor 3.1  
CiteScore 5.8  
Indexed in PubMed



[mdpi.com/si/191367](https://mdpi.com/si/191367)

*Materials*

MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[materials@mdpi.com](mailto:materials@mdpi.com)

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





# Materials

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.1  
CiteScore 5.8  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

---

### Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

---

### 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, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

#### Journal Rank:

JCR - Q1 (Metallurgy and Metallurgical Engineering) /  
CiteScore - Q2 (Condensed Matter Physics)