

Special Issue

Electron Beam Processing of Materials

Message from the Guest Editor

This Special Issue welcomes contributions from all researchers working on materials processing by electron beams, as well as on their characterization, properties, and applications. The Special Issue will cover, but will not be limited to, the following topics:

- Physics of intense electron beams;
- Electron beam melting and refining of metals and alloys;
- Additive manufacturing with electron beams;
- Electron beam welding;
- High-rate deposition by electron beam evaporation for metallurgical coatings;
- Electron beam surface modification;
- Thermal processing and thin films deposited using electron beams;
- Electron beam lithography;
- Electron beam curing of polymers and composites;
- Electron beam processes for the production of novel materials;
- Modeling of electron beam sources, processes, and systems;
- Related and new applications for electron beam processing of materials.

It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are welcome.

Guest Editor

Prof. Dr. Katia Vutova

Institute of Electronics, Bulgarian Academy of Sciences, 1784 Sofia, Bulgaria

Deadline for manuscript submissions

closed (31 January 2022)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/29307

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

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





Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
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 - Q2 (Metallurgy and Metallurgical Engineering) /
CiteScore - Q1 (Condensed Matter Physics)