

## Special Issue

# Recent Advances in Thermal Spraying Technology

### Message from the Guest Editor

The material coatings sprayed using liquid feedstocks could have many potential applications in the biomedical field, high temperature environment, and as anti-microbial, photocatalytic and corrosion-resistant coatings etc. This Special Issue shall cover the recent research works in the field of liquid feedstocks thermal spraying of functional coating materials. The topics of the Special Issue are:

- Novel feedstock materials, including: multi-material feedstocks, hybrid feedstocks, tailor-made compositions, nano-feedstocks etc.
- Recent advances and applications of liquid feedstocks thermal spraying such as:
  - Bioactive and functionally graded coatings
  - Anti-microbial coatings
  - Photocatalytic coatings
  - Hydrophobic and super-hydrophobic coatings
  - Thermal barrier coatings, Environmental barrier coatings
  - Anti-corrosion or corrosion-resistant coatings
  - Anti-wear coatings
  - Others
- Numerical or simulation studies of liquid feedstocks thermal spray processes
- characterizations of microstructure and properties of liquid feedstocks thermal sprayed coatings
- diagnostic analysis in the: droplet-thermal (jet) interactions, droplet-substrate interactions etc.

### Guest Editor

Dr. Paweł Sokolowski

Faculty of Mechanical Engineering, Wrocław University of Science and Technology, 50-370 Wrocław, Poland

### Deadline for manuscript submissions

closed (20 February 2023)



## Materials

an Open Access Journal  
by MDPI

Impact Factor 3.2  
CiteScore 6.4  
Indexed in PubMed



[mdpi.com/si/86147](https://mdpi.com/si/86147)

*Materials*  
Editorial Office  
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 3.2  
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)