

## Special Issue

# Spontaneous Self-Assembly of Spatially Ordered Structures

### Message from the Guest Editor

Spontaneous self-assembly can serve as a tool for fabricating highly ordered, often intriguing structures, which can be applicable for potential applications, e.g., optical and electronic devices. In general, self-assembly includes numerous processes, from the non-covalent association of organic molecules, colloids, and nanoparticles in solution to the growth of semiconductor quantum dots on solid substrates, making it an essential part of micro- and nanofabrication technology. With a precise focus on spontaneous structure or pattern formation, an intensive study of distinct components and systems is possible. Accordingly, this Special Issue eagerly seeks to showcase research papers, short communications, research perspective articles, and review articles that promisingly provide technical improvements in spontaneous self-assembly of spatially ordered structures. It is my great pleasure to cordially invite you to submit a manuscript for this Special Issue.

---

### Guest Editor

Prof. Dr. Myunghwan Byun  
Department of Advanced Materials Engineering, Keimyung University,  
Daegu 42601, Republic of Korea

---

### Deadline for manuscript submissions

closed (20 December 2022)



## Materials

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 6.4  
Indexed in PubMed



[mdpi.com/si/64144](https://mdpi.com/si/64144)

*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)