



an Open Access Journal by MDPI

## Recent Progress in Semiconductor Spintronics

Guest Editors:

**Prof. Dr. Kaiyou Wang**

State Key Laboratory for Superlattices and Microstructure, Institute of Semiconductors, Chinese Academy of Sciences, Beijing 100083, China

**Prof. Dr. Peng Xiong**

Department of Physics, Florida State University, Tallahassee, FL 32306, USA

Deadline for manuscript submissions:  
**closed (20 March 2022)**

### Message from the Guest Editors

Semiconductor spintronics has been an active topic of research across multiple disciplines of materials science for more than two decades. It aims to engender novel electronic functionalities through combinations of intrinsic or injected magnetism with the exquisite control and giant tunability of charge transport in semiconductors.

This Special Issue focuses on recent progresses in the broad areas of semiconductor spintronics. The research of interest includes ferromagnetic semiconductor materials and related devices, hybrid devices combining conventional ferromagnets with traditional semiconductors, organic semiconductors, topological insulators, or 2D van der Waals materials. We are pleased to invite submissions of manuscripts to this Special Issue. Full papers, communications, perspectives, and reviews are all welcome.





an Open Access Journal by MDPI

## 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

## 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.

## 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*)

## Contact Us

---

Materials Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/materials](http://mdpi.com/journal/materials)  
[materials@mdpi.com](mailto:materials@mdpi.com)  
[X@Materials\\_Mdpi](https://twitter.com/Materials_Mdpi)