

## Special Issue

# Earth Abundant Transition Metals in Chemical Sensors and Actuators

### Message from the Guest Editors

This Special Issue aims to showcase the recent developments in the field of photo-, thermo-, and electrochemical sensors and actuators with earth-abundant metal complexes and materials. Original research articles, short communications, and reviews covering all different aspects of synthesis of complexes and materials with first-row transition metals, photocatalysis, electrocatalysis, photo- and electroactivated chemical processes, mechanistic studies, photoactivated magnetic molecules, and thermoresponsive magnetic molecules are invited. Manuscripts submitted for this Special Issue are subject to a peer review procedure, with the aim of fast and widespread dissemination. The topics covered in the Special Issue include but are not limited to:

- Synthesis (e.g., organic, inorganic)
- Materials (e.g., nanoparticles, carbon-based, thin films)
- Catalysis (homogeneous and heterogeneous)
- Sensors (magnetic, thermal, and electrochemical)
- Applications (e.g., small molecule conversion, coupling reactions, oxidation, and reduction reactions, displays, memories, artificial muscles).

---

### Guest Editors

Dr. Paulo Nuno Martinho

Centro de Química e Bioquímica and BIOLSI-Biosystems & Integrative Sciences Institute, Faculdade de Ciências, Universidade de Lisboa, Campo Grande, 1749-016 Lisboa, Portugal

Dr. Sara Realista

ITQB NOVA, Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa, Av. da República, 2780-157 Oeiras Portugal

---

### Deadline for manuscript submissions

closed (30 June 2021)



Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 6.8



[mdpi.com/si/36500](https://mdpi.com/si/36500)

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

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





## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 6.8



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



## About the Journal

### Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

---

### Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario  
Institute of Technology, Oshawa, ON L1G 0C5, 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 and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, AGRIS, RePEc, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1  
(Geography, Planning and Development)