



Supported Metal and Metal Oxide Catalysts by Sol-Gel Chemistry: Synthesis and Applications

Guest Editor:

Dr. Serena Esposito

Department of Civil and
Mechanical Engineering,
University of Cassino and
Southern Latium, Via G. Di Biasio
43, 03043 Cassino (FR), Italy

Deadline for manuscript
submissions:

closed (28 February 2019)

Message from the Guest Editor

Dear Colleagues,

Sol-gel method has been recognized as valuable procedure to design advanced catalytic formulations, based on metal and metal oxide nanostructure. Sol-gel chemistry originated with the hydrolysis and condensation of metal alkoxides, although it can also occur between hydrated metal species. By trapping the “randomness of the solution state” and thereby ensuring atomic level mixing of reagents, the sol-gel method is a unique technique for materials synthesis. Low-temperature chemistry [...] For details, please visit [special issue website](#)

The upcoming Special Issue, entitled “Supported Metal and Metal Oxide Catalysts by Sol-Gel Chemistry: Synthesis and Applications” aims to cover an overview of the sol-gel synthesis of tailored and multifunctional materials and their application in the main domain of heterogeneous catalysis. Both theoretical and experimental research, review articles, and novel results are welcome.

Dr. Serena Esposito

http://www.mdpi.com/journal/materials/special_issues/metal_catalysts





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

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)