

Special Issue

Advanced Catalytic Materials

Message from the Guest Editor

Catalytic processes are commonly used in the chemical industry, and the development of advanced materials has an important economic impact on our society. The design of new experimental synthetic methodologies is a key component in catalyst research, leading to structures with control morphology at the nanometer scale. The engineering of different shapes, sizes, crystal structures and physicochemical properties could potentially result in highly active and selective catalyst materials. Potential topics include, but are not limited to:

- New synthetic methodologies for the development of advanced catalytic materials;
- The development of cleaner and sustainable reaction processes using heterogeneous catalysts;
- Biomass conversion to fine chemicals using catalytic materials;
- Biofuel production by heterogeneous catalysts;
- Photocatalytic processes using advanced new materials;
- The design of porous and/or supported materials for environmental remediation;
- The application of homogeneous and heterogeneous catalysts in fine chemistry;
- The production of composites or hybrid materials for heterogeneous catalysis.

Guest Editor

Dr. Julio Macedo

Institute of Chemistry, University of Brasília, Brasília, DF, Brazil

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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