# Special Issue

# Homogeneous and Heterogeneous Catalysis: Principles, Materials Properties and Applications

### Message from the Guest Editor

Catalytic materials are those solids that allow the chemical reaction to take place efficiently and cost-effectively. They exist in many forms and can be prepared through various techniques involving different procedures and methods. New developments based on the design and functioning of catalytic materials are key to solving a number of current challenges, including the development of cleaner fuel technologies and the elimination of environmentally damaging processes in the pharmaceutical or chemical industries. This Special Issue will collect high-quality comprehensive papers and review papers covering mainly fundamental and applied research/results in the field of homogeneous and heterogeneous catalysis. Topics to be covered include but are not limited to homogeneous catalysis, metal catalysis, heterogeneous catalysis, solid acid, solid base, zeolite, mesoporous material, supported metal catalysts, and photocatalysis. We warmly encourage colleagues involved in all branches of catalytic materials to contribute to this Special Issue.

### Guest Editor

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### Deadline for manuscript submissions

closed (20 December 2022)

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## 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.

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