

## Special Issue

# Nanozyme: Synthesis, Mechanisms, and Applications

### Message from the Guest Editors

Nanozymes are nanomaterials with enzyme-mimicking activities. Nanozymes are advantageous compared to natural enzymes due to their low cost, high stability, and long-term resistance to harsh conditions, and to date, numerous nanomaterials have been reported with enzyme-mimicking activities, such as Fe<sub>3</sub>O<sub>4</sub> nanoparticles, noble metal nanoparticles, carbon nanostructures, metal-organic frameworks, etc. The aim of this issue is to showcase unique enzyme-mimicking activities, explore solutions improving the catalytic ability of nanozymes, and study the mechanisms of catalytic reactions of nanozymes. By collecting knowledge in this field and covering a large number of synthesis methods and nanozyme applications, we aim to increase their scientific and commercial value in the field of cancer treatment, biosensing/imaging, antibacteria, ROS scavengers, environmental protection, heterogeneous catalysis, and enzymatic catalysis.

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### Guest Editors

Dr. Dongdong Wang

Division of Chemistry and Biological Chemistry, School of Physical and Mathematical Sciences, Nanyang Technological University, 21 Nanyang Link, Singapore 637371, Singapore

Dr. Jiawei Liu

Division of Chemistry and Biological Chemistry, School of Physical and Mathematical Sciences, Nanyang Technological University, 21 Nanyang Link, Singapore 637371, Singapore

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### Deadline for manuscript submissions

closed (20 February 2022)



## Materials

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*Materials*

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

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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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### 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

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