

## Special Issue

# Preparation, Mechanism and Application of Photo and Electrocatalytic Materials

### Message from the Guest Editors

The issues related to energy crises and environmental pollution have worsened with the continued and fast growth of industry and civilization. A serious concern is posed by the worldwide water shortage brought on by the rapid development of businesses and the depletion of freshwater supplies as well as energy concerns. Additionally, freshwater that may be used for drinking is becoming tainted, and the development of organic pollutants in aquatic environments—known for their mobility, toxicity, and persistence—poses serious hazards to ecosystems, human health, and other living things. Therefore, before water is drunk or used, it must be treated by removing dangerous contaminants, including organic dyes, antibiotics, and more. Catalysis for energy production and production is a major concern of the current century. Clean and green hydrogen, along with its derivatives, is one global challenge to attain zero carbon economy. Rigorously developing functional photo and electrocatalysts for pollutants degradation and energy conversion is a necessity to sustain our planet, life, and ecosystems. We welcome research papers, communications, and reviews which focus on this topic.

### Guest Editors

Dr. Madjid Arab

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### Deadline for manuscript submissions

closed (20 January 2024)



## Materials

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### Message from the Editorial Board

*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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