

Special Issue

Metal-Oxide Nanostructures: From Photocatalysis to Energy

Message from the Guest Editors

The need for the sustainable exploitation of natural resources and correct energy management is urgent. Thus, pursuing new materials is of great relevance, and metal-oxides appear as attractive options. They can be employed in different kinds of applications. We invite colleagues to contribute to this Special Issue. Potential topics include but are not limited to the following:

- Advanced materials for photocatalytic and photoelectrochemical applications, as well as energy production and storage;
- Nanostructured metal-oxide materials (TiO₂, ZnO, WO₃, Cu₂O, SnO₂, VO₂, Fe₂O₃, and NiO);
- The application of photocatalysis for water treatment, disinfection, and air depollution;
- Solar water splitting;
- CO₂ photoreduction and conversion;
- Selective photooxidation processes;
- Innovative synthesis and characterization techniques;
- The upscaling of nanomaterials technologies for energy applications;
- New technology trends and applications.

Guest Editors

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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