Special Issue

Metal Oxides as Photocatalysts: Processes, Properties, and Applications

Message from the Guest Editors

The important components of photocatalysis are the catalysts used—as a rule. Among the most commonly studied compounds as photocatalysts are the oxides of Ti(IV), Zn(II), Sn(IV), Ce(IV), which have shown efficiency in the decomposition of pollutants and their mineralization to harmless products. The metal oxides with properties of semiconductors are not limited to those mentioned above, and there remains the possibility to find new oxides which can lead to the development of new photocatalysts. That is why we are initiating the presented Special Issue "Metal Oxides as Photocatalysts: Processes, Properties, and Applications". The intention is to cover research in the field of oxidation processes under light irradiation, modeling, and application of metal oxides as photocatalysts. Among the possible topics considered, but not limited to:

- Synthesis and characterization of metal and mixed metal oxide semiconductors:
- Application of metal and mixed metal oxides as photocatalysts for decomposition of water pollutants;
- Processes of water purification under UV and Vis light irradiation.

Guest Editors

Prof. Dr. Maria Milanova

Laboratory for Chemistry of Rare and Rare Earth Elements, Department of Inorganic Chemistry, Faculty of Chemistry and Pharmacy, University of Sofia, 1164 Sofia, Bulgaria

Dr. Martin Tsvetkov

Laboratory for Chemistry of Rare and Rare Earth Elements, Department of Inorganic Chemistry, Faculty of Chemistry and Pharmacy, University of Sofia, 1164 Sofia, Bulgaria

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applisci@mdpi.com

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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 multidimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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