Special Issue

Environmental Remediation via Metal-Oxides-Mediated Heterogeneous Photocatalysis

Message from the Guest Editors

In the field of photocatalysis, one family of materials stands out as the most studied: metal oxides. Metal oxides provide a unique selection of properties such as (but not limited to) low-cost and toxicity, high availability, semiconductivity, a great variety of synthesis processes and modification techniques, and tunable light-absorbing capabilities. Their most prominent drawback – a usually very large bandgap – can today be addressed synthetically by strategies such as doping or compounding. Submissions to this Special Issue on "Environmental Remediation via Metal-Oxide-Mediated Heterogeneous Photocatalysis" are welcome in the form of original research papers or short reviews about the use of metal oxides in the following photocatalytic processes: CO2 conversion to useful products and platform chemicals; NOx reduction; degradation of emerging contaminants present in water; novel design of photocatalytic reactors; identification of kinetics, intermediates, and products from photocatalytic processes.

Guest Editors

Dr. Nikolaos G. Moustakas
Leibniz Institute for Catalysis (LIKAT), Rostock, Germany

Dr. Fotis Katsaros
Institute of Nanoscience and Nanotechnology, National Centre of Scientific Research Demokritos, Athens, Greece

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

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Prof. Dr. Keith Hohn
Carl R. Ice College of Engineering, Kansas State University, Manhattan, KS, USA

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