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.

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Deadline for manuscript submissions

closed (30 December 2023)

Catalysts

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Impact Factor 4.0
CiteScore 7.6

mdpi.com/si/61196

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