Special Issue

Photocatalytic Membrane and Reactor for Environmental Remediation Processes

Message from the Guest Editors

The photo mineralization of organics by semiconductor photocatalysts is an area of intensive research. Ideally, the end products of these processes should be carbon dioxide, water, and inorganic mineral salts, which have a minimum environmental impact. With stringent environmental regulations, it is necessary to remove the harmful component from the waste discharge before throwing it into the environment with sustainable technologies using low external conventional energy. In addition, as an example, to avoid the contamination of natural water bodies, pretreatment of municipal and industrial effluents is needed before their release into the environment described. Research oriented toward inorganic as well as organic photocatalysts, including plasmonics, is desirable to address the environmental issues, and new technologies, including membranes, are desirable for the final purification in industrial processes. Photocatalytic adsorption studies have also shown a good confirmation of this technology during the reaction at initial stages in porous support.

In this Special Issue different applications of photocatalytic reactors, including membranes, will be introduced.

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