Special Issue

Air and Water Purification Processes through Photocatalysis: Scale Up Perspectives, 2nd Edition

Message from the Guest Editors

Photocatalytic processes have been profusely proposed for the decontamination of air and water from organic and inorganic pollutants, as well as for disinfection. The scientific community is now ready to evaluate the translation of these concepts into the scale-up development toward practical and industrial application. Several parameters must be analyzed in this context, including the modulation of activity towards specific contaminants, reactor configuration, irradiation sources, the stability of the photocatalysts, byproduct formation, the scale-up of photocatalyst synthesis procedures, the impact on the scale-up of other synergetic technologies (ultrasound, ozone, Fenton, chemicals addition), etc.

The aim of this Special Issue is to collect papers that report research focused on any possible development of photocatalytic processes in air and water remediation. Both theoretical and applied studies (focusing on investigating catalysts in realistic environments and improving stability) are of interest. Additionally relevant are reports that detail new possible plant and reactor configuration and simulation studies.

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