Special Issue

Advances in Photocatalysis: New Materials to Fix the World

Message from the Guest Editors

Nowadays, a plethora of new materials is available for photocatalysis, from carbon composites to nanotubes or nanorods of different compositions, graphene derivatives, modified clays, etc. These new materials have been designed for a variety of problems, many of which are associated, in one way or another, with environmental protection and/or remediation, i.e., to fix the numerous problems that human kind has created so far. A lot of effort, through many different synthesis and fabrication strategies, has been put into searching for stable and recyclable semiconductor materials that can capture sunlight for the photodegradation of persistent organic pollutants, for photoreduction of CO2, etc. The aim of this Issue is to compile a self-contained set of papers that can give a realistic picture of the current state-of-the-art in this cutting-edge field. These may be mini-reviews or research papers describing new breakthroughs in the field of photocatalysis. All scientists in the field are cordially encouraged to submit their manuscripts for consideration for publication in this Special Issue.

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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