Special Issue

Recent Advances in Photosynthetic Materials

Message from the Guest Editors

The conversion of light into chemical energy is one of the most important phenomena for both basic science and for practical application. Photosynthetic systems are structured at every level of biological organization (from simple photosensitive molecules and (macro) molecular complexes through to membranes and cells up to individuals and supra-individual systems) for extremely efficient and specific functions, and can be used in smart bio-technology by combining them with new generation of advanced materials. Based on the unique properties of photosynthetic systems, a new generation of applications (components of integrated optoelectronic devices for photo and biosensors, fast optical switches and logic gates in circuits, etc.) are also under exploration in bio-technology research. The aim of the Special Issue is to provide a platform for and accept manuscripts comprising original results, reviews, and theoretical considerations in the field of light–matter interaction in living systems at any level of photosynthetic organization, as well as in artificial and biomimetic materials.

Guest Editors

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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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