Special Issue

Advanced Materials for Photonics and Photovoltaics Applications

Message from the Guest Editors

Photonics is a key enabling technology applicable in several fields capable of changing society. It is, therefore, emerging as a powerful driving force able to overcome present challenges. Cutting-edge materials and technologies are required to develop the photonic platforms needed to implement these novel solutions. Recently, low-dimensional systems based on graphene-related, organic, and semiconductor materials have attracted interest as a way to cope with photonics system challenges. An important application of photonics is energy harvesting and generation using photovoltaic devices. This Special Issue, with a collection of articles containg the most recent results and findings related to this exciting research area, aims to present the recent developments in photonic materials in several fields of applications, such as photonics integrated circuits, organic photonics, ultrafast photonics, and, especially, photovoltaics.

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Message from the Editorial Board

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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