Special Issue

Advanced Optical Materials: Design, Fabrication, Measurement and Application

Message from the Guest Editor

As the climate problem of global warming has received more and more attention, new optical materials represented by radiative cooling and smart windows have flourished, and the regulation of sunlight and infrared radiation by adjusting the spectral characteristics of materials in different bands has gradually become intensely researched. The regulation of advanced optical materials depends on their intrinsic optical properties and special micro-nano structures. With the rapid development of nanophotonics, the influence of subwavelength structures on the spectral response characteristics of optical materials is becoming clearer, which can allow the customized design of material performance according to different application scenarios. Related studies are developing rapidly in the fields of radiative cooling, smart windows, adaptive camouflage, anti-counterfeiting, and sensing. Thus, this Special Issue aims to compile recent advances in advanced optical materials, which include the design, preparation, characterization, and application of advanced optical materials.

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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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