Special Issue

Recent Progress of Materials for Smart Windows

Message from the Guest Editors

Energy is one of the most important factors in economic growth and social development in all countries. The need to reduce energy consumption and to apply solar energy in buildings is mandatory—and when designing low-energy buildings, it is among the construction details that should be taken into consideration, especially as far as windows are concerned. “Smart windows” are a promising technology for saving energy that can be employed in architectural glazing or skylights to control sunlight transmittance and solar heat gain (visible and near-infrared radiation of the solar spectrum, respectively) by means of a dynamic and reversible regulation of the color change (electrochromism or thermochromism). Apart from reducing energy use (heating, cooling, and ventilation), this sort of solution increases indoor thermal and visual comfort and outdoor view. The development of advanced materials will enable the production of high-performance smart windows for more sustainable and energy-efficient buildings. It is our pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

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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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