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Innovation in Materials for Smart Windows

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Deadline for manuscript submissions:
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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. Apart from reducing energy use, this sort of solution increases indoors thermal and visual comfort, and outdoors 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. The Special Issue will focus, though not exclusively, on the new trends in “Innovation in Materials for Smart Windows”.

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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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