Special Issue

Advances in Smart Materials and Applications

Message from the Guest Editors

As humankind has embarked upon a continual quest for superior products and weaponry fabricated from superior materials and structure, terms such as smart materials have entered our vocabulary. Smart materials are one kind of materials that have one or more properties that can be manipulated via magnetic field or electric, light, stress, temperature, moisture, PH, chemical compounds, etc. Currently, there are a number of types of smart material, e.g., magnetorheological materials, electrorheological materials, piezoelectric materials, electrostrictive materials, magnetostrictive materials, photovoltaic materials, ferroelectric materials, thermoelectric materials, shape memory alloys, polymers, etc., which have been discovered and studied in different fields, playing an important role in promoting the development of modern science and technology. The fast growth of the topic and increasing interest in the field among researchers with expertise in the areas of smart materials and beyond are the main reasons for this Special Issue on “Advances in Smart Materials and Applications”.

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Deadline for manuscript submissions

closed (15 December 2024)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/125288

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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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