



materials



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Polymers, Processing and Sustainability

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Message from the Guest Editors

Petroleum-based polymers and manufacturing processes are associated with a number of health and environmental risks from chemical leaks and contaminants in the water and air, such as phthalates from plasticizers for softening effects; bisphenol A (BPA), which is used as a reagent in the production of polycarbonate, epoxy resins, coatings and adhesives; polybrominated diphenyl ether (PBDE), which is used as a fire retardant; solid waste buildup in nature and its persistence in the ocean, coastal zones and terrestrial environments due to plastics not being easily degradable; and so on.

This Special Issue will demonstrate recent results and/or positive advances in the development of new sustainable materials, innovative technological designs and optimization methods targeted at lowering the environmental impact of polymer-based manufacturing processes while preserving product quality and material performance in light of applications in medicine, agriculture, coatings and paints, biotechnology, automotive, packaging, textiles, electronics and so on.



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Special issue



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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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