Special Issue

Material Characterization and Molecular Analysis of Polymeric Materials

Message from the Guest Editor

This Special Issue aims to present a collection of multidisciplinary works involving experimental, mathematical and computational aspects of polymeric material characterization and molecular analysis. The scope includes pure polymers, plastics, composites as well as aged and/or modifications of the aforementioned materials and their derivatives. Various physical, chemical and biological characterization techniques and interpretations are welcome. Modelling approaches, such as quantitative structure–property relationships, molecular dynamics, finite element analysis, or novel machine learning tools are of particular interest, as are any approaches relevant to the Special Issue theme. Thus, the scope of the Special Issue spans across the whole modelling field and includes solutions based on mathematics, physics and chemistry (analytical, numerical and phenomenological tools). We invite researchers to contribute to the Special Issue titled “Material Characterization and Molecular Analysis of Polymeric Materials”, which is intended to serve as a unique multidisciplinary forum for experimental, theoretical and computational science and engineering research.

Guest Editor

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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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