Special Issue

Advances in Materials: Modelling Challenges and Technological Progress for Green Engineering and Sustainable Development

Message from the Guest Editors

Due to the increasing computational capability of current data processing systems and technological advancements, new opportunities have emerged in materials engineering. Methods that are highly demanding, time-consuming, and difficult to apply may now be considered when developing complete and sophisticated models in many areas of science and technology. The combination of computational methods and AI algorithms allows us to conduct multi-threaded analyses to solve advanced and interdisciplinary problems. This Special Issue aims to bring together research on material advances, focussing on modelling challenges and technological progress mainly for green engineering and sustainable development. Original research studies, as well as review articles and short communications, are welcome, especially those with a particular focus on (but not limited to) artificial intelligence, other computational methods, and state-of-the-art technological concepts related to the listed keywords within materials engineering.

Prof.

Guest Editors

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Deadline for manuscript submissions

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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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