Special Issue

Characterisation and Testing of Materials: Advancing the State of the Art

Message from the Guest Editor

This Special Issue of *Materials* seeks to capture a broad overview of the latest advancements in a variety of areas related to the characterisation and testing of materials. We particularly encourage the submission of articles that explore the integration of AI and computational methods with traditional characterisation techniques. We also welcome submissions from any materials-related discipline, regardless of the specific techniques applied. Topics of particular interest include the following:

- Additive manufacturing
- Nanoscale characterisation techniques
- The application of AI and computational methods
- In situ testing
- Standards and regulations
- Sustainability
- Clean energy
- The hydrogen economy

The editorial team encourages researchers working in all areas of materials science and engineering to contribute to this Special Issue, as long as the work has a strong focus on characterization and testing. We do not require all work to be fully mature; rather, we welcome breaking and new developments. All papers will be reviewed by expert referees and will be published in this Special Issue of *Materials*.

Guest Editor

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Deadline for manuscript submissions

closed (10 February 2024)

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About the Journal

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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