



Design, Processing, and Characterization of Functional, Smart and Sustainable Materials: Recent Advances

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Message from the Collection Editor

This Topical Collection is intended to pull together the various advances and technologies in the multidisciplinary areas of design, synthesis, and characterization of functional materials, with sustainability in focus. Original research articles, case studies, technical reports, short communications, and reviews covering all different aspects of functional materials, including inorganic and organic, hybrid and composites, nanomaterials and polymers, soft matter and interfaces, are all welcome.

The covered topics include, but are not limited to, the following:

- Civil infrastructure materials (e.g., bio-inspired concretes, smart concretes, and safe-healing concretes);
- Electronic and photovoltaics, and thermoelectric, optical, and magnetic materials (including sensors, dielectrics, pyroelectrics, piezoelectrics, and ferroelectrics);
- Biomaterials, nanomaterials, and polymers (e.g., polymers for controlled drug delivery);
- Carbon-based nanosorbents (e.g., carbon nanotubes (CNTs) and graphene);
- Ceramics, microporous, hybrids, and composite materials (including zeolite- and metal oxide-based adsorbents, and nanohybrid membranes);
- Materials for space technology, etc.





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Message from the Editor-in-Chief

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