Special Issue

Single Crystal Growth and Crystal Structure Analysis

Message from the Guest Editors

New knowledge on the subject of creating crystals, e.g., through the Czochralski process or Bridgman–Stockbarger technique, is necessary. While we have a broad understanding of the structure of crystals, not only due to traditional XRD research, neutron or electron scattering, or cutting-edge techniques, but also through magnetic and optical investigations, such as SQUID, EPR, NMR, and advanced spectroscopy, we need new methods to determine crystal structures globally and locally, e.g., around the dopant ion. It would therefore be advisable to examine new crystals, or known ones but in new configurations, for example, doped with other rare-earth or transition metal elements. Some of the topics of interest include crystals and powders, nanopowders, stoichiometries, pure and doped crystals, defects and impurities, dopant ions and ion pairs, clusters, and color centers in crystals, and their properties and applications.

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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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