



Single Crystal Growth and Crystal Structure Analysis

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Deadline for manuscript
submissions:

closed (20 June 2023)

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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Message from the Editor-in-Chief

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