Special Issue

Advanced Technologies for Materials Characterization

Message from the Guest Editor

This Special Issue on “Advanced Technologies for Materials Characterization” is intended to highlight and popularize prominent ideas and methods from the different branches of materials characterization. Recent decades have brought new exciting experimental and computational opportunities with unexpected challenges for all researchers in this area. The set of modern experimental technologies, such as 3D EBSD, HRTEM, high-energy synchrotron tomography, high-speed photography and many others, opened new horizons for investigations of materials at different length scales, from atomic to polycrystalline. This has happened along with increases in computational power, which makes it possible to involve several new theoretical approaches, such as molecular dynamics simulations, big data analysis, or machine learning techniques. All these developments and opportunities allow for a qualitatively new level of understanding of the processes occurring inside the materials under the action of special conditions. Among others, it opened possibilities for the modern state of art investigations of complex dynamical systems. For more details, you may visit at mdpi.com/si/36306

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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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