

Special Issue

Advanced Optical Methods for Materials Sciences

Message from the Guest Editors

The aim of this Special Issue is to provide a forum for disseminating high-impact research about the development and use of both novel and established optical systems and their methods for materials studies. Such methods include, but are not limited to, those listed above, as well as their combination with other types of investigations, including mechanical testing, analytical approaches or simulations, and finite element analysis (FEA). All domains where advances in materials are of paramount importance are considered, from mechanical to electrical and electronic engineering, as well as to optics and photonics, with applications that range from industrial to biomedical. All types of contributions, i.e., research papers, reviews and communications, are welcome. While this forum is open to all researchers, it also provides a selection of papers prepared for the *1st International Conference 'Advances in 3OM: Opto-Mechatronics, Opto-Mechanics, and Optical Metrology'*, Dec. 13–16, 2021 (Timisoara, Romania), organized in celebration of 100 years of the Polytechnic University of Timisoara and of the International Day of Light (IDL).

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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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