







an Open Access Journal by MDPI

Nano-Opto-Mechanics

Guest Editor:

Prof. Alexander Shalin

Department of Nano-Photonics and Metamaterials, ITMO University, Saint Petersburg, Russia

Deadline for manuscript submissions:

closed (31 December 2021)

Message from the Guest Editor

opto-electronic and nano-Recently, advances in technologies have boosted the development of optoproviding mechanics. cutting-edge abilities manipulation on micro- and nano-scales. For example, holographic optical tweezers enable simultaneous manipulation of hundreds of particles; tractor beams provide additional degrees of freedom by attracting objects to a source of illumination; plasmonic tweezers mediate subwavelength self-organisation of particles and their enhanced trapping; and plenty of other systems flexibly govern complex nano-structures.

Therefore, the main research focus of the 'Nano-Opto-Mechanics' Special Issue is on up-to-date fundamental opto-mechanical phenomena; novel types of optical manipulators; optically driven micro- and nano-mechanical devices (NOMS); auxiliary structures for tweezing, optical binding, and optical matter; applications of optomechanics in bio-physics and bio-medicine; etc. Authors are encouraged to contact me or the Editorial Office, to publish their valuable original papers in this well-timed thematic Issue.













an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The iournal covers twenty-five comprehensive biomaterials, energy materials, advanced composites. advanced materials characterization, porous materials, manufacturing processes and systems. 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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us