Special Issue

Novel Optical Materials and Device

Message from the Guest Editor

Optical devices are widely used in our daily life: LED bulbs, photo cameras, optical fibers, school microscopes or telescopes, laser range meters, and various displays and sensors, to name a few. The listed devices include a variety of active or passive optical parts made of such optical materials as glasses, semiconductors, metals, etc.

Further scientific and technological advancements in the fields of optical materials and devices are associated with the development of quantum technologies, neuromorphic devices, IoT, and artificial intelligence. The key requirements for progress are the emergence of new synthetic approaches for materials preparation, development of new material post-processing technologies, and deep understanding of the physics of optical phenomena. Among the most perspective materials are nanodiamods with various optical centers, lanthanide-doped inorganic hosts, single molecular magnets, etc.

This Special Issue invites the submission of original articles and reviews covering a wide range of topics, from material synthesis to optical device implementations.

Guest Editor

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Optics (ISSN 2673-3269) aims at establishing *Optics* as a leading journal for publishing high impact fundamental research and applications in optics field with a fast processing time and high quality service. The journal particularly welcomes both theoretical (simulation) and experimental research within our journal's scope. We encourage scientists to publish their experimental and theoretical results in as much detail as possible. So, there is no restriction on the length or pages of the papers. The full experimental details must be provided so that the results can be reproduced. Electronic files and software regarding the full details of the calculation or experimental procedure, if unable to be published in a normal way, can be deposited as supplementary electronic material.

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