



Phase-Change Materials in Optical Applications

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Message from the Guest Editors

Phase-change materials offer unique functionalities for applications in optics, yet these applications experience issues related to the limitations of material properties, while on the other hand, more “smart” optical applications can be developed with this material platform. Phase-change materials have been rapidly evolving with the aim to create innovative optical devices with high-quality intrinsic/customized materials, and there has been continuous progress in material development by novel fabrication methods, new optical device designs, material characterization methods, and optical simulations. This Special Issue is intended to provide a forum for academic researchers and industry professionals to exchange their recent works on their technological advancements in this area.

The topics of interest for publication in this Special Issue include but are not limited to the following: phase-change materials, physical vapor deposition, chemical vapor deposition, plasma etching, wet etching, optical/structural/thermal studies, optical simulations, optical/photonics device design, and test.





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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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