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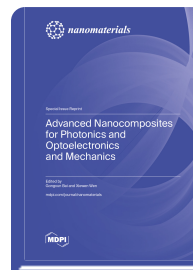
Special Issue Reprint

Advanced Nanocomposites for Photonics and Optoelectronics and Mechanics

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This reprint presents nine insightful articles focused on nanostructured materials and nanocomposites. Nanocomposites, which integrate nanosized materials into a standard material matrix, exhibit remarkable enhancements in properties across various domains, such as photonics, optoelectronics, and mechanics. The addition of nanomaterials brings about substantial changes in the electronic properties of normal nanomaterials with quantum size effects, leading to profound modifications in their photonic, optoelectronic, and mechanical performances compared to their bulk counterparts. This reprint comprises original research and review articles that address the preparation, characterization, and applications of nanostructured materials and nanocomposites, with a particular focus on photonic, optoelectronic, and mechanical aspects. We hope that this reprint will inspire further research, stimulate new ideas, and contribute to the advancement of the field of nanostructured materials and nanocomposites.



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