

Special Issue

Fabrication and Application of Optoelectronics Based on Nanomaterials

Message from the Guest Editor

Optoelectronics is currently experiencing a revolution thanks to the development of nanomaterials, which have opened up previously unimaginable possibilities for the creation and use of high-tech devices with superior performance. Since the intrinsic properties of nanomaterials are strongly related to their size, shape and surface properties, special attention is needed for their controlled synthesis. Quantum dots (QDs) are a commonly used nanomaterial in optoelectronics. Strong confinement effects and tunable optical and electrical properties make them suitable candidates for solar cells and LEDs, among other uses. Halide perovskite has recently become a “Hot Cake” for optoelectronics device-based research. By leveraging the unique properties of nanomaterials, researchers and engineers can develop devices with improved performance, energy efficiency and functionality, which will impact various aspects of our daily lives. We look forward to your submissions!

Guest Editor

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