Special Issue

Semiconductor Nanocrystals for Light-Emitting and Display Applications, 2nd Edition

Message from the Guest Editors

Nanocrystals are regarded as one of the most promising emitters for use in displays due to their tunable emission color, narrow emission peaks, and flexibility in device integration.The application of nanocrystal-based electroluminescent technology and color conversion micro-LED is more difficult and has not yet achieved commercialization, but it is expected that the market space will be larger due to their superior performance after the breakthrough of related technologies. The present Special Issue, entitled “Semiconductor Nanocrystals for Light-Emitting and Display Applications”, will summarize the most recent progress and core technologies in this field, including, but not limited to, nanocrystal luminescent materials, quantum dot light-emitting diodes, color conversion micro-LEDs, chemical synthesis and photophysical properties, perovskite nanocrystals, and pixel patterning, as well as their full-color display applications. We expect that this multidisciplinary topic will provide new guidance for further light-emitting and display devices based on semiconductor nanocrystals.

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