



Semiconductor Nanocrystals for Light-Emitting and Display Applications

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Message from the Guest Editor

Dear Colleagues,

In the field of information, displays are used everywhere. Nanocrystals are regarded as one of the most promising emitters in displays due to 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 on “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 that are based on semiconductor nanocrystals.





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