



Polymers Application in Electronics and Photonics

Guest Editor:

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Message from the Guest Editor

Dear colleagues,

Photonic crystals (PCs) are materials that possess spatial periodicity of their structures. Due to the possession of periodic structures, the PCs are capable of manipulating the light in a multiscale environment and, hence, exhibit excellent optical properties such as photonic bandgap (PBG), the “low-photon” effect, photon localization, and fluorescence enhancement, among others. All these excellent properties make PCs great materials for the development of low-loss waveguides, high-quality optical fibers, anti-counterfeiting labels, low-cost printings and paintings, high-performance sensors, and particularly novel display. Cholesteric liquid crystals (CLCs) are a kind of special photonic crystals, in which the orientation of liquid crystals molecules varies in a helical fashion. Therefore CLCs can selectively reflect light according to Bragg’s law, also known as the structural color. This Special Issue aims to publish works regarding recent development or improvement of photonic crystals, liquid crystals materials and their applications in display devices.





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Message from the Editor-in-Chief

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