



materials



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Advances in Functional Materials and Nanodevices

Guest Editor:

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Deadline for manuscript
submissions:

closed (10 October 2022)

Message from the Guest Editor

Dear Colleagues,

Electrochromism is the phenomenon of certain materials reversibly changing their colors or optical properties (absorbance/transmittance/reflectance) via redox reactions under an applied electric field, which has found applications in smart windows, rear-view mirrors, displays, and so on. The past four decades have witnessed the rapid development of electrochromic technology. However, it remains severely developmentally challenged due to its limited practical applications. Predictably, as a color control technology that gives visual information readable by the naked eye, electrochromism should have much wider applications by applying the visualization technique to various functional devices. The integration modes, design principles, and performance optimization for different types of interdisciplinary electrochromic devices can result in state-of-the-art advances in the fusing of electrochromic technology with other advanced technologies, including wearable technology, thermal control technology, energy storage technology, energy harvesting technology, and sensing technology.



mdpi.com/si/72713

Special issue



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Message from the Editor-in-Chief

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