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Electrochromic Materials Research and Devices

Guest Editors:

Prof. Dr. Yong Zhang
School of Materials Science and Engineering, Hefei University of Technology, Hefei, China

Dr. Ye Yang
Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences, Ningbo, China

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Message from the Guest Editors

This Special Issue "Electrochromic Materials Research and Devices" will address recent advances and challenging issues regarding electrochromic materials and devices. Electrochromic materials can exhibit tunable transmission, absorption, and reflection towards solar irradiation under external electric fields. They have high-potential applications in the creation of energy-efficient windows for buildings and automobiles, and bright displays, as well as in optoelectronic and medical industries, and environmental technology. In terms of electrochromic materials and devices, researchers' main challenges are achieving high color contrast, quick color-changing speed, wide wavelength response range, long cycling stability and service life, and a high utilization efficiency of solar energy.

This Special Issue encourages the submission of articles and reviews dealing with recent advances in electrochromic materials research including, but not limited to, the following: inorganic, organic, and hybrid electrochromic materials and devices; electrochromic/energy storage/energy conversion dual or multi-functional materials and devices; simulation of electrochromic structures.

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Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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𝕏@Materials_Mdpi