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## New-Generation Advanced Materials for Next-Generation Supercapacitors

Guest Editors:

**Dr. Debananda Mohapatra**

School of Materials Science and Engineering, Yeungnam University, Gyeongsan 38541, Gyeongbuk, Korea

**Dr. Ankur Soam**

Department of Mechanical Engineering, Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, Odisha 751030, India

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### Message from the Guest Editors

Energy plays a significant role in human development. Energy demand consumption is increasing exponentially daily; hence, environmentally friendly and efficient energy storage devices are needed. In this regard, electrochemical energy storage systems such as the battery, supercapacitors, etc., have gained much attention because of their environmentally friendly nature. The supercapacitor is one of the most helpful technologies due to its extraordinary features, high power, long cycle life, low maintenance, and simple geometry. A supercapacitor's device performance and durability are governed by the selected electrodes' physical, chemical, and electrical properties. In this perspective, many materials such as carbon, metal oxides, and polymers and their combination have been utilized as electrodes in supercapacitors.

This *Materials* MDPI Special Issue provides an excellent opportunity to explore the unexplored advanced functional nanomaterials' properties/applications for advanced next-generation supercapacitors.



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# Special Issue



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### 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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Materials Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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