## **Special Issue**

### Polymer-Based Dielectric Materials for Energy Storage

### Message from the Guest Editor

Dielectric capacitors are widely used in microelectronics, biomedical, hybrid vehicles, highpower transducers, high-voltage power transmission systems and military applications due to their fast charge/discharge speeds and good power density. Importantly, dielectric material is one of the key parts of dielectric capacitors. The motivation of this Special Issue (SI) is to investigate the influence of chemical composition, microstructure and heat treatment on the energy storage performance of dielectric composites, and can include big-data analyses and simulations on this kind of dielectric composites, which can significantly improve the energy storage performance of dielectric capacitors. This SI offers some new methods, materials and strategies for the fabrication of composite dielectrics for simultaneously realizing a great breakdown strength, a good discharged energy density and an excellent discharging efficiency. Finally, these works provide some ideal candidates for nextgeneration high-pulse-energy storage capacitors. Dr. Yue Zhang

### Guest Editor

Dr. Yue Zhang School of Electrical and Electronic Engineering, Harbin University of Science and Technology, Harbin, China

### Deadline for manuscript submissions

closed (30 September 2023)



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I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

### Editor-in-Chief

Prof. Dr. Alexander Böker

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