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High Energy Electrochemical Capacitors

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Deadline for manuscript
submissions:

closed (31 March 2022)

Message from the Guest Editor

Dear Colleagues,

With the increasing energy requirements of upcoming systems and associated concerns regarding the depletion of fossil fuels and their environmental-related effects on the planet, the deployment of renewable energy sources will play a key role in our future energy demands.

Apart from batteries, accumulators, and fuel cells that are only effective for the storage and delivery of energy at slow rates over a long period of time, electrochemical capacitors have become imperative in the response to the short term fluctuations in energy outputs when a surge of energy in a short time is required or released.

We are particularly interested in articles and reviews that explore aspects of novel electrode materials, electrolytes, and binders for electrochemical capacitors and their energy storage mechanisms and also processes and implementations in which the currently existing challenges associated with their synthesis and production are addressed. Moreover, performance analysis of the device and its integration with other storage technologies to improve the overall performance of energy systems are also of special interest.



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Special Issue



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Message from the Editor-in-Chief

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