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Energy Storage Materials: Experimental Investigation and Multiscale Modeling

Guest Editor:

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Deadline for manuscript submissions:
closed (10 October 2022)

Message from the Guest Editor

Dear Colleagues,

Among the various energy-storage devices, batteries and supercapacitors (SCs) represent the two leading electrochemical energy-storage (EES) technologies. The main challenge surrounding EES devices is understanding the electrolyte/electrode interface to optimize the overall performance (e.g., high energy density, fast kinetics of the charge–discharge processes, and stability upon cycling). While a great deal of attention has been focused on the electrode, electrolytes are also a versatile tool to modify the electrolyte/electrode interface. This Special Issue on Energy Storage Materials is open for submission of works dealing with experimental results and/or calculations based on multiscale modeling, helping to understand the electrolyte/electrode interface and providing insights about novel electrodes and electrolytes that improve storage performance (in terms of both energy and power density and electrochemical stability).

Dr. Francisco Del Monte
Guest Editor

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Message from the Editor-in-Chief

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