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# Advanced Functional Nanomaterials for Energy Conversion and Storage

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# **Message from the Guest Editors**

Dear Colleagues,

Energy plays crucial roles in the development of our economy and society. Fossil fuels consisting of coal, crude oil and natural gas were the major energy supply in the past decades. However, the consumption of fossil fuels also brought severe environmental pollution problems. Hence, researches on clean energy conversion and storage are becoming more and more attractive. Nanomaterials with unique mechanical, electrical, and optical properties are good candidates in this domain and have shown distinct advantages in energy-related applications.

In this Special Issue, we aim to report the current progress on the preparation and utilization of nanomaterials for energy related applications. Original research articles or reviews that are related to novel nanomaterial synthesis, characterization, and the applications in sustainable energy-related thermal-, electro- and photocatalysis (e.g. carbon dioxide conversion, hydrogen evolution reaction, oxygen evolution reaction, and oxygen reduction reaction etc.) as well as electrochemical energy storage (e.g., Li-ion batteries and super-capacitors, Na-ion batteries, Zn-air batteries etc.) are welcome.













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# **Message from the Editor-in-Chief**

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