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# Advanced Materials for Energy Harvesting, Storage and Conversion

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## Message from the Guest Editors

Dear Colleagues,

With the ever-increasing energy consumption, energy crisis would sweep across the globe and seriously hinder the economy development if necessary steps were not taken. For this reason, intensive attention has been paid to make efficient use of various energy sources such as wind, geothermal, biomass, hydropower, and to produce clean and renewable energies such as hydrogen via chemical fuels via photocatalytic water splitting, solar cells, etc. Currently, most functional materials suffer from common drawbacks like low efficiency, low reliability, and high cost, which hinder their practical device applications. In this context, we launch this special issue to push advancement in this direction by collecting articles, letters, reviews, progress and perspectives about material fabrication, performance, fundamental mechanisms, novel structural and engineering strategies, etc. Focusing on energy harvesting, storage and conversion, the materials and applications may range from dielectrics, ferroelectrics, piezoelectrics. thermoelectrics, photocatalysis, photovoltaics, fuel cells, batteries to supercapacitors and so on.

**Special**sue



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### Message from the Editor-in-Chief

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