Journal of the Ceramic Society of Japan

Special Issue
“Functional Ceramics for Energy Conversion and Storage Devices”

Call for Papers

Scope
Energy conversion and storage devices are important to prevent global warming all over the world. Many functional ceramics have a potential to be widely used for energy devices. For example, solid oxide fuel cells (SOFCs) can directly convert chemical energy into electricity with high efficiency, and electrolyzers can produce energy carriers such as hydrogen and hydrocarbon from renewable energies by the reverse reaction of SOFCs. Secondary batteries with high ionic conductors can be applied for portable electronic devices, vehicles, and electric-load leveling systems. The aim of this special issue is to present the latest researches and developments in the area of “Functional Ceramics for Energy Conversion and Storage Devices” including fabrication processes and characterization techniques.

Topics
- Solid oxide fuel cells and electrolysis cells (SOFCs & SOECs)
- Lithium or other-ion secondary batteries
- Thermoelectric devices
- Photovoltaic cells
- Energy carriers and storages
- Fabrication processes
- Characterization techniques

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Reviews, Papers, Technical reports, Notes and Express letters

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