

Special Issue

Emerging Trends in Advanced Materials for Oxygen Reduction Reaction (ORR) and Supercapacitors

Message from the Guest Editor

Advanced functional materials are increasingly being investigated and applied in various new technologies and devices for electrochemical energy conversion and storage. Supercapacitors demonstrate a great potential as a new excellent energy storage device owing to their fast charge-discharge rate, wide operating temperature range, and long-term stability. Great efforts have been made to obtain high-performance Pt-free electrocatalysts such as Pt-free alloys, metal oxides, and carbon-based composite catalysts. Recent progress suggests that low cost and durable functional carbon materials can potentially be developed as efficient electrocatalysts. In this special issue a collection of recent studies about the subject of emerging trends in advanced materials as the electrocatalysts for Oxygen Reduction Reaction (ORR) and supercapacitors is presented.

Guest Editor

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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