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Section

D: Energy Storage and Application



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Section Information

With ever increasing concern on energy and environment, energy storage technologies and their emerging applications are one of the main themes in *Energies*. Since energy comes in various forms including electrical, mechanical, thermal, chemical and radioactive, the energy storage essentially stores that energy for use on demand. Major storage solutions include batteries, fuel cells, capacitors, flywheels, compressed air, thermal fluid, and pumped-storage hydro. Different energy storage technologies have different merits: more convenient, more economical, higher efficiency or longer term. Over the past few decades, these technologies have been fueled by new materials, advanced devices and novel systems. Hence, the energy storage industry continually evolves and adapts to an ever-demanding market.

This section invites articles that address original and new research results as well as the latest developments of energy storage technologies and their emerging applications. Articles that deal with energy storage materials, devices and systems, energy conversion, management and policy, as well as on their applications to existing and future energy systems are particularly encouraged. Submissions addressing up-to-date reviews and the latest national or regional projects of energy storage systems will also be welcome.

Section **D: Energy Storage and Application**

Topical Collection Open for Submission

Novel Business Models & Integration Strategies for Energy Storage

Collection Editor: Dr. Dimitrios Zafirakis



Advanced Energy Materials and Research

Collection Editors: Dr. Prodip K. Das, Prof. Dr. Nigel D. Browning, Prof. Dr. Sara Walker



Advanced Materials for Energy Conversion and Storage Devices

Guest Editor: Prof. Dr. Yongseok Jun



Energy Materials Research, Applications, and New Technologies in Korea

Collection Editors: Prof. Dr. Young Soo Yoon, Prof. Dr. Kyu Hyung Lee



Feature Papers in Advanced Energy Materials

Guest Editor: Prof. Dr. Vassilis Stathopoulos



Batteries, Fuel Cells and Supercapacitors Technologies

Collection Editors: Prof. Dr. Haifeng Dai, Dr. Michael Knapp, Dr. Jiangong Zhu



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