Special Issue

Circular Battery Technologies

Message from the Guest Editors

The supply and management of energy are at the center of our daily concerns and represent a socio-economic priority. The increasing concern on global warming enforces the states and companies to concentrate on renewable energy sources to reduce the carbon footprint of energy production/consumption. The energy storage technology is the key player in this rapid change "modern time revolution". Battery systems should store surplus electricity from the smart grid for hours, days, and even weeks, if necessary, because electricity generation from renewable sources fluctuates with weather conditions, Likewise, the replacement of internal combustion cars by electric vehicles to reduce the carbon dioxide emissions and to limit our dependence towards fossil fuels stimulate the search for energy storage devices including batteries, fuel cells, electrolysis for hydrogen production, pumped-storage power plants, etc. Thus the energy storage devices have been attracting enormous attention due to not only developments in the electronics industry, but also entering the electric vehicles to the market and the necessity of effective renewable energy applications...

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