

Advanced Materials Science Research

E-BABE- Heterogeneous nanostructures for electrochemical energy storage devices

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Nanostructures have gained remarkable attention in advanced technology due to their fascinating properties at the nano regime. Energy crises are the main issue problem in the rest of the world. Current resources are not able to overcome these issues. Scientists from all over the world are working on innovating new technologies to rectify the energy crises. The use of renewable energy sources is the only option to fulfill energy requirements with low environmental hazards. The energy storage devices are of equal importance with energy conversion devices. The nanostructure with higher surface area and low resistivity have made a breakthrough in the electrochemical energy storage device. The electrochemical energy storage devices have shown a high energy density and power density.



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Biography

Muhammad Usman is working as a research assistant at the National University of Science and Technology, Islamabad, Pakistan. He has worked on nanostructure for elnergy storage (supercapacitors, Na, Li-ion batteries) and conversion (Photovoltaics, Photocatalysis, and electrocatalysis).



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