NANOMATERIALS SPEAKER
SERIES

UNDERSTANDING MATERIALS FOR FNFRGY APPLICATIONS

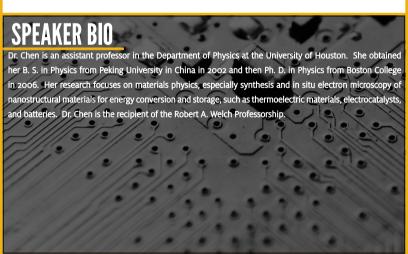
February 3, 2017 at 12:30pm

CBB, Rm 106

Energy powers our lives. Highly efficient and reliable devices for energy conversion and storage are always desired. Since materials are building blocks of devices, understanding their structures and performance is extremely important. In this talk, I will mainly present our efforts on new materials and structures for energy applications in batteries and electrocatalysts. I will introduce a facile method to synthesize anode materials for sodium-ion batteries. I will talk about alloy, facet, and strain effects on electrocatalysts and how we can design the materials and maximize such effects in several systems. Finally, I will also introduce how we can use transmission electron microscopy to in situ elucidate the structures and understand the performance of the materials.



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Contact Professor Jiming Bao at jbao@uh.edu if you would like to arrange for a time to meet with Dr. Chen.

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