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Nanostructured and Multifunctional Materials for Energy Storage

Luhrs, Claudia C.

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NANOSTRUCTURED AND MULTIFUNCTIONAL MATERIALS FOR ENERGY STORAGE

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Goal

Novel synthetic pathways for electrode materials preparation; graphene, carbon nanofibers, core-shell metal-carbon electrodes and metallic oxides among others. Special attention has been given to the characterization of the nanomaterial structural features and their correlation with observed properties and reactivity.

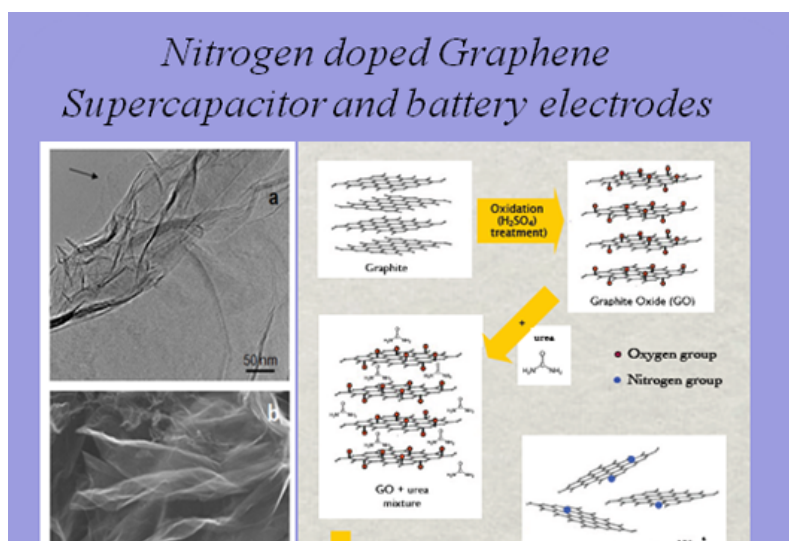
Application projects include engineering thermally stable materials for batteries, supercapacitors and structural components based on high energy density nanostructures.

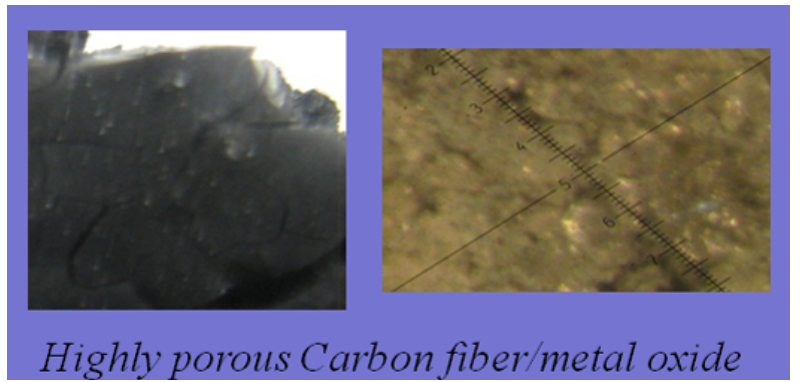
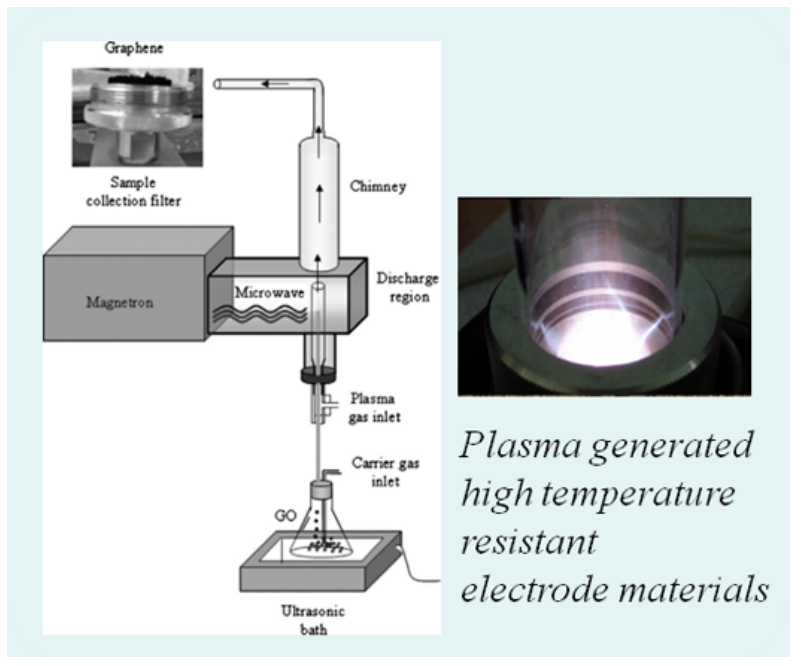
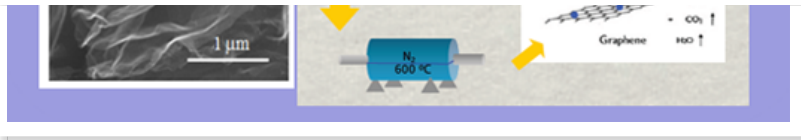
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