

## CARBON BASED NANO- OPTICS, -ELECTRONICS AND -SPINTRONICS

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I discuss the interplay between theory and experiment to design superfunctional carbon-based nanomaterials/nanodevices. These include intriguing organic nanostructures, graphene and functionalized carbon hybrid materials for energy harvesting, solar cells, fuel cells, gas storage, water remediation and medical treatment. Hyper-resolution phenomena by nano-lensing, super-paramagnetism driven water remediation, and super-magneto-resistance & ultrafast DNA sequencing of graphene nanoribbon are addressed.

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CFEL  
SEMINAR ROOMS I-III

