

UC SAN DIEGO NANOENGINEERING SEMINAR

Wednesday, August 8, 2018

Seminar Presentation: 11:00am – 12:00pm

ASML Conference Room (SME 248)

“Polymeric and Nano Carbon Materials for Energy Conversion and Storage”

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Abstract: Green energy technologies have been highly demanded for a sustainable development. In this talk, our recent studies for the electricity generation and storage/conversion using organic solar cell and battery/supercapacitor platforms will be presented. These will include the material design, synthesis, and device fabrication, targeting for high energy efficiency and understanding the mechanism using simpler or cheap materials.

Biosketch: Prof. Yongsheng Chen graduated from the University of Victoria with PhD in Chemistry in 1997 with Prof Reg Mitchell and joined Prof Robert Haddon/Peter Eklund and Prof Fred Wudl groups for Postdoc studies from 1997-1999. From 2004, he has been a Tianjin Chair Professor at Nankai University, Director for the Center of Nanoscale of Science and Technology. His main research interests include: 1) Carbon based nano materials and organic/polymer multifunctional materials; and 2) Green energy device applications using these materials for including OPV, supercapacitor and other energy conversion technologies. Professor Chen has published more than 280 SCI papers, with a total citation of >50,000 times and H-index of 105. (Google Scholar, Aug 2018). More than 40 of his papers were published in the *Science*, *Nature*, *Nature Photon.*, *Nature Commun.*, *Acc. Chem. Res.*, *J. Am. Chem. Soc.*, *Nano Lett.*, *Adv. Mater.*, and more than 40 papers were selected for ESI Highly Cited Papers (top 1%). Five papers were selected as “China’s 100 Most Influential International Academic Papers” From 2014 to 2017, he was selected as a global list of high-cited scientists in the Thomson Reuters Group. He currently serves as an Editor of *Carbon*.