I: Catalysis and Light Harvesting

* Invited paper

SESSION PI1: Catalysis and Light Harvesting: Poster Session
Tuesday Evening, June 28, 2011
6:00 PM
Ballroom (Marriott)

PI1.1
Preparation and Electrocatalysis of Multilayer Composite Films Constructed from Transition Metal Substituted Polyoxometalate and Poly(amidoamine) Dendrimer. Shen Lin, Shui Z. Li, Hong M. Luo, De Y. Shi and Feng X. Zhang; College of Chemistry and Materials Science, Fujian Normal University, Fuzhou, Fujian Province, China.

PI1.2
Supported N-Alkylated Imidazole-Decorated Dendrons as Heterogeneous Catalysts for the Baylis-Hillman Reaction. Kerem Goren and Moshe Portnoy; School of Chemistry and the Center for Nanoscience and Nanotechnology, Tel-Aviv University, Tel-Aviv, Israel.

PI1.3
Synthetic Linear-dendritic Cofactors for Enzyme-catalyzed Polymerizations. Lili Wang[1], Nikolay G. Vladimirov[2], James D. Soucy[1] and Ivan Gitsov[1]; [1]Chemistry, State University of New York ESF, Syracuse, New York; [2]Ashland Chemical, Newark, Delaware.

PI1.4
Preparation of M-G4OH Nanocomposites in Aqueous Solution: Effect of Dialysis and pH Adjustment. Eleni Kyriakidou[1], Paul T. Fanson[2], Oleg S. Alexeev[1] and Michael D. Amiridis[1]; [1]Department of Chemical Engineering, University of South Carolina, Columbia, South Carolina; [2]Toyota Technical Center USA, Inc., Ann Arbor, Michigan.

SESSION I1:
Chairs: Martin Brechbiel and Ling Peng
Wednesday Morning, June 29, 2011
Lecture Room B

10:10 AM *I1.1
Self-assembly of Light-harvesting Antennae Based on Luminescent Dendrimers. Paola Ceroni, Chemistry Ciamician, University of Bologna, Bologna, Italy.

10:40 AM *I1.2
Enhanced Optical Properties of Dendrimer Materials. Theodore Goodson, Chemistry, University of Michigan, Ann Arbor, Michigan.

11:10 AM I1.3
Immobilizing Water Soluble Dendritic Electron Donors (Phthalocyanines) and Electron Acceptors (Perylenediimides) onto Single Wall Carbon Nanotubes. Uwe Hahn[1], Dirk M. Guldi[2] and Tomas Torres[1]; [1]Department of Organic Chemistry, Universidad Autonoma de Madrid, Madrid, Spain; [2]Department of Chemistry and Pharmacy, Friedrich-Alexander-University Erlangen-Nuremberg, Erlangen-Nuremberg, Germany.

SESSION I2:
Chairs: Ted Goodson and Paola Ceroni
Thursday Morning, June 30, 2011
Lecture Room A

10:00 AM I2.1
Coherent Phonons in a π-conjugated Antenna Subunit Molecule of Light-harvesting Dendrimers. Ichiro Akai[1], Tomoshige Shimamoto[1], Kohe Yamashiro[2], Mami Kobori[2], Kazunori Iwamitsu[2] and Atsuhiro Fujii[1]; [1]Shockwave and condensed matter research center, Kumamoto University, Kumamoto, Kumamoto, Japan; [2]Graduate School of Science and Technology, Kumamoto University, Kumamoto, Kumamoto, Japan.

10:20 AM I2.2
Designing Chiral Dendrimers for Homogeneous Asymmetric Hydrogenations. Qing-Hua Fan, Institute of Chemistry, Chinese Academy of Sciences, Beijing, China.

10:40 AM *I2.3
Core-shell Dendrimer-encapsulated Nanoparticles: Theory, Synthesis, Characterization, and Electrocatalysis. Richard M. Crooks, Emily V. Carino and David F. Yancey; Department of Chemistry and Biochemistry, The University of Texas at Austin, Austin, Texas.

11:10 AM I2.4
Immobilization of Dendrimers Encapsulated Pt Nanoparticles on Multiwalled Carbon Nanotubes and Carbon Micro Coils and Their Utilization to Electrochemical Bio/chemical Sensors. Toyoko Imae and Ampornphan Siriviriyanun; National Taiwan University of Science and Technology, Taipei, Taiwan.

11:30 AM I2.5
Fine Tuning of PPI Dendrimers for Controlled Synthesis of Subnano Pd Clusters. Tomoo Mizugaki[1], Zen Maeno[1], Takayuki Kibata[1], Takato Mitsudome[1], Koichiro Jitsukawa[1] and Kiyotomi Kaneda[1,2]; [1]Graduate School of Engineering Science, Osaka University, Toyonaka, Osaka, Japan; [2]Research Center for Solar Energy Chemistry, Osaka University, Toyonaka, Osaka, Japan.

11:50 AM I2.6
A Simple Synthesis Method for Gold Nano-plate and Nano-flower Fabrication using a Tree-type Multiple-amine Head Surfactant. Long Jiang, Guanhua Lin, Wenfeng Jia and Wensheng Lu; Instituite of Chemistry, Chinese Academy of Sciences, Beijing, China.

12:10 PM I2.7
PPI Dendrimer Encapsulating Subnano Pd Clusters as a Nanoreactor for Allylic Substitution Reaction. Takayuki Kibata[1], Zen Maeno[1], Takato Mitsudome[1], Tomoo Mizugaki[1], Koichiro Jitsukawa[1] and Kiyotomi Kaneda[1,2]; [1]Graduate School of Engineering Science, Osaka University, Osaka, Japan; [2]Reserch Center for Solar Energy Chemistry, Osaka University, Osaka, Japan.