

Carbon 2014

World Conference on Carbon

Carbon Materials for Ubiquitous and Sustainable Life

June 29(Sun) ~ July 4(Fri), 2014

International Convention Center Jeju (ICC Jeju), Jeju, Korea

Organized by  한국탄소학회
KOREAN CARBON SOCIETY

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Oral Sessions Day 3 (July 2, 2014, Wednesday)

- 9:10-9:30 [ORT2-14] Influence of the Reactor Temperature Profile on the Catalyst Particle Size Distribution during Carbon Nanotube Production via the Floating Catalyst Method
*Franziska TONI**, Karl-Ernst WIRTH (Friedrich-Alexander-University of Erlangen-Nuernberg, Germany)
- 9:30-9:50 [ORT2-15] Synthesis of Carbon Nanomaterials by Thermal Decomposition of Hydrocarbons
*Bakhytzhant. LESBAYEV**, Gauhar T. SMAGULOVA, Meruyert NAZHIPKYZY, Nikolay G. PRIKHODKO, Ayagoz Y. BAKKARA, Guimira O. TURESHEVA, Zulhair A. MANSUROV (Institute of Combustion Problems, Kazakhstan)
- 9:50-10:10 [ORT2-16] Volumetric Adsorption Study of Purification and Debundling Processes on Single-Walled Carbon Nanotube Bundles
*Sébastien FONTANA, Emeline REMY, Jean-François MARÉCHÉ, Brigitte VIGOLO, Claire HÉROLD, Fabrice VALSAQUE** (Universite de Lorraine(CNRS), France)
- 10:10-10:30 [ORT2-17] Enhanced X-Ray Absorption Property of Au-Doped Double Wall Carbon Nanotubes
Fitri KHOERUNNISA^{1}, Ryusuke FUTAMURA², Daiiki MINAMI², Takehisa KONISHI³, Toshihiko FUJIMORI², Toru NOGUCHI², Takashi FUJIKAWA³, Katsumi KANEKO²(¹UPI, Indonesia, ²Shinshu University, ³Chiba University, Japan)*

T3: Precursors, Carbon Fibers, and Composites [Room: SAMDA]

Chair: Vesna MISKOVIC-STANKOVIC (University of Belgrade, Serbia)
Kyong Yop RHEE (Kyung Hee University, Korea)

- 8:30-9:00 [ILT3-05] Dispersion and Properties of Carbon Nanotubes Thermoplastic Polymer Composites
*Gi Dae CHOI**, Yeon Sik CHOI, Chang Hun YUN (LG Chem. LTD., Korea)
- 9:00-9:30 [ILT3-06] Electrochemical Biocomposite Graphene/Hydroxyapatite Coatings on Titanium Aimed for Medical Applications
Vesna MIŠKOVIĆ-STANKOVIĆ^{1,2}, Ana JANKOVIĆ¹, Vivek DHAND², Kyong Yop RHEE²* (¹University of Belgrade, Serbia, ²Kyung Hee University, Korea)
- 9:30-9:50 [ORT3-25] Preparation and Characterization of Carbon Fiber by Melt Spinning of PAN Based Copolymer Precursor
Min Hye JUNG¹, Hyun Do SONG^{1,3}, Samsuddin Faisal MAHMOOD², Benjamin L. BATCHELOR², Hyun Kyu SHIN¹, Shin Jae KANG^{1,3}, Dennis W. SMITH. Jr², Duck Joo YANG^{2}* (¹Korea Institute of Carbon Convergence Technology, Korea, ²The University of Texas at Dallas, USA, ³Chonbuk National University, Korea)
- 9:50-10:10 [ORT3-26] Exergetic Analysis of the Stabilisation and Carbonisation Process in Carbon Fibre Production
*Andreas DE PALMENAER**, M. WARNECKE, T. HOLTERMANN, G. SEIDE, T. GRIES (Institut fuer Textiltechnik RWTH, Aachen University, Germany)

Poster Presentation Day 1 (July 1, 2014, Tuesday)

POT2-23	Influence of Ozone Treatment on Thermal and Mechanical Properties of Biodegradable Epoxy/Multi-walled Carbon Nanotubes Composites <i>Yoon-Ji YIM, Soo-Jin PARK* (Inha University, Korea)</i>
POT2-24	Synthesis of Polyethyleneimine Impregnated Multi-walled Carbon Nanotubes for CO ₂ Capture <i>Min-Sang LEE, Soo-Jin PARK* (Inha University, Korea)</i>
POT2-25	Influence of Carbon Nanotubes on Thermal Conductivity of Carbonized Glass Fibers Composites <i>Min-Sang LEE, Yong-Ook SHIN, Soo-Jin PARK* (Inha University, Korea)</i>
POT2-26	Influence of Heat Treatment on Thermal Conductivity of Electrolessly Nickel-plated MWCNTs <i>Jeong-Ran CHOI, Soo-Jin PARK* (Inha University, Korea)</i>
POT2-27	Facile Synthesis and Field Emission of Metal Nanoparticle Decorated Vertical N-Doped Carbon Nanotube/Graphene Hybrid Films <i>Dong Sung CHOI^{1,2}, Duck Hyun LEE³, Sang Ouk KIM^{1,2*} (¹Institute for Basic Science, ²KAIST, Korea, ³University of Michigan, Ann Arbor, USA)</i>
POT2-28	Direct Synthesis of Polyaniline/Nitrogen-Doped Carbon Nanotubes Composites <i>Gil Yong LEE^{1,2}, Atta Ul HAQ², Joonwon LIM^{1,2}, Sang Ouk KIM^{1,2*} (¹IBS, ²KAIST, Korea)</i>
POT2-29	The Synthesis of Carbon Nanotubes by Thermal Pyrolysis of Hydrocarbons <i>Gaukhar T. SMAGULOVA*, Bakhytzhhan T. LESBAYEV, Ayagoz Y. BAKKARA, Zulkhair A. MANSUROV (The Institute of Combustion Problems, Kazakhstan)</i>
POT2-30	Thermal, Electrical, and Mechanical Properties of Aligned Multiwalled Carbon Nanotubes and Poly Lactic Acid Composites <i>Seong-Beom PARK^{1,2}, Min Ye KOO^{1,3}, Young-Soo PARK¹, Byung-Joo KIM¹, Kay-Hyeok AHN¹, Won-Seok KIM^{1*} (¹Korea Institute of Carbon Convergence Technology, ²Jeonju University, ³Chonbuk National University, Korea)</i>
POT2-31	Large Scale Carbon Nanotube Network Field-Effect Transistors <i>Jingqi LI (King Abdullah University, Saudi Arabia)</i>
POT2-32	Synthesis and Characterization of β -Ga ₂ O ₃ /Diamond-Like Carbon Core-Shell Heterostructure Nanowires <i>Hye Lan KIM, Eunjeong SHIN, Young Boo LEE, Woong-Ki HONG, Se Jin LEE, Tae-Sung BAE, Hee-Suk CHUNG* (Korea Basic Science Institute, Korea)</i>
POT2-33	Synthesis and Optical Property of ZnS Nanowires Sheathed with Diamond-Like Carbon <i>Hee-Suk CHUNG^{1*}, Seul Cham KIM², Do Hyun KIM², Kyu Hwan OH², Young Boo LEE¹, Woong-Ki HONG¹, Tae-Sung BAE¹ (¹Korea Basic Science Institute, ²Seoul National University, Korea)</i>
POT2-34	Layer-by-Layer Assemble of Polyelectrolyte onto Multiwalled Carbon Nanotubes for Ultra-high Loading of Multimetallic Nanoparticles and Its Application <i>Md. Shahinul ISLAM¹, Hyokyung JEON¹, Tae Sung BAE¹, Young Boo LEE¹, Ha-Jin LEE^{1*}, Won San CHOI^{2*} (¹Korea Basic Science Institute, ²Hanbat National University, Korea)</i>