

Carbon2014_Poster Presentation_Day 2_July 3 (Thu)

Presentation No. (Poster Board no.)	TI: Graphene
POT1-32	Layer Number Determination of Multilayer Graphene with Arbitrary Misorientation <i>Choong-Kwang LEE^{1,2}, Yun HWANGBO¹, Jae-Won JANG³, Alexander E. MAG-ISA¹, Seong-Su KIM², Hak-Joo LEE¹, Soon-Bok LEE³, Jae-Hyun KIM^{1*}</i> (¹ Korea Institute of Machinery & Materials (KIMM), ² Chonbuk National University, ³ Korea Advanced Institute of Science and Technology (KAIST), Korea)
POT1-33	Roll-based patterning and transferring of CVD-graphene for flexible electronic devices <i>Bongkyun JANG, Seong-Jae JEON, Min-Ah YOON, Kwang-Seop KIM, Jae-Hyun KIM*, Hak-Joo LEE</i> (Korea Institute of Machinery and Materials, Korea)
POT1-34	Atomically Thin Carbon Nanosheets Akin to Graphene Properties Derived from Carbon Fiber Process <i>Han-Ik JOH*, Su-Young SON, Sungho LEE, Seung Mu JO</i> (Korea Institute of Science and Technology, Korea)
POT1-35	Preparation of Graphene Nanosheets Using C₆₀ precursor by Plasma Assisted Thermal Evaporation <i>Bong Jo KANG^{1,2}, Chairul HUDAYA³, Bup Ju JEON⁴, Jae-Baek JOO², Joong Kee LEE^{1,3*}</i> (¹ Korea Institute of Science and Technology, ² Hong-Ik University, ³ University of Science and Technology, ⁴ Shinhan University, Korea)
POT1-36	In Situ Synthesis of Halogen/Nitrogen Dual-doped Graphene via Stepwise Pyrolysis of Ionic Liquid <i>Ok-Kyung PARK¹, Hyun Joo KIM^{1,2}, Hwa Jung KIM^{1,2}, Jun Yeon HWANG¹, Jahyun KOO³, Hoonkyung LEE³, Robert VAJTAT⁴, Bon-Cheol KU^{1*}, Jae Kwan LEE^{2*}, Pulickel M. AJAYAN⁴</i> (¹ Korea Institute of Science and Technology(KIST), Korea, ² Chosun University, Korea ³ Konkuk University, Korea, ⁴ Rice University, USA)
POT1-37	Fabrication of Graphite Nanosheets Utilizing a Spontaneous Process <i>Jang-Woo LEE¹, Minho KIM¹, Soon Man HONG¹, Chong Min KOO^{1,2*}</i> (¹ Korea Institute of Science and Technology (KIST), ² University of Science and Technology, Korea)
POT1-38	Experimental Observation of Ferromagnetism in Annealed and Magnetic Nanoparticle Doped Graphene <i>Chang Soo PARK, Yu ZHAO, Haigun LEE, Cheol Jin LEE*</i> (Korea University, Korea)
POT1-39	Adsorption of Model Biomolecules onto Mesoporous Silicas and Carbons – A Comparative Study <i>Katarzyna MICHALAK-ZWIERS*, Monika OSZUST, Karolina GDULA, Mariusz BARCZAK</i> (Maria Curie-Skłodowska University, Poland)
POT1-40	Fabrication of Fe-Ni-P nanoparticles/Graphene by using Electroless Plating Deposition <i>Wen-Jauh CHEN¹, Te-Sheng CHEN², Shu-Huei HSIEH^{2*}</i> (¹ National Yunlin technology, ² National Formosa University, Taiwan)
POT1-41	Fabrication and Effect of Co-Ni-P/Graphene Nanocomposite Material on Hydrogen generation by using Sodium Borohydride <i>Wen-Jauh CHEN¹, Yao-Huei JHANG², Shu-Huei HSIEH^{2*}</i> (¹ National Yunlin technology, ² National Formosa University, Taiwan)
POT1-42	Few Layers Graphene Prepared from Graphite Intercalation Compounds <i>Takuya YASUTAKE¹, Takuya WADA², Akira NAKASUGA², Taro KINUMOTO¹, Tomoki TSUMURA¹, Masahiro TOYODA^{1*}</i> (¹ Oita University, ² Sekisui Chemical Co, Ltd, Japan)
POT1-43	Stable Metal-Free Electrodes for Electrochromic Applications <i>Joo Yeon KIM, Ji-Young OH, Hyunkoo LEE, Jonghee LEE, Nam Sung CHO, Jeong-Ik LEE, Seong M. CHO, Hojun RYU, Hye Yong CHU*</i> (ETRI, Korea)
POT1-44	Tuning the Mechanical Properties of Nitroxide-Functionalized Graphene Oxide Paper by Controlling of the Amount of Functional Groups <i>Márquez-Lamas U, Toxqui-Terán A., Pérez-García SA, Bonilla-Cruz J*</i> (Research Center for Advanced Materials (CIMAV-Monterrey Unit), Mexico)
POT1-45	EELS Analysis of Nylon 6 Nanofibers Reinforced with Nitroxide-Functionalized Graphene Oxide <i>Leyva-Porras C¹, Avila-Vega YI¹, Macossay J², Bonilla-Cruz J^{1*}</i> (¹ Research Center for Advanced Materials (CIMAV-Monterrey Unit), Mexico, ² The University of Texas-Pan American, USA)
POT1-46	Period Doubling of Wrinkled Graphene on Soft Substrates <i>Jong Hyun JUNG*, Yea-Lee LEE, Jaehyun BAE, Jeongwoon HWANG, Dongwook KIM, Seung-Wook SON, Hyo-Won MOON, Jisoon IHM</i> (Seoul National University, Korea)
POT1-47	Synthesis of Large-Area Tungsten Disulphide (WS₂) Atomic Layer on Tungsten Foil by Chemical Vapor Deposition <i>Ji Sun KIM, Yooseok KIM, Seung-Ho PARK, Yong Hun KO, Chong-Yun PARK*</i> (Sungkyunkwan University, Korea)
POT1-48	Synthesis of Large-Area Molybdenum Disulphide Atomic Layer on Foil by Chemical Vapor Deposition <i>Seung-Ho PARK, Yooseok KIM, Ji Sun Kim, Su-Il LEE, Myoung-Jun CHA, Chong-Yun PARK*</i> (Sungkyunkwan University, Korea)
POT1-49	Synthesis of Transfer-free Graphene on Insulating Substrates by Rapid Thermal Processing <i>Yong-hun KO, Yooseok KIM, Chong-Yun PARK*</i> (Sungkyunkwan University, Korea)
POT1-50	Enhancement on Thermal Conductivity of Graphene Nanoplatelet/Epoxy Composites Using a Polyethersulfone Modifier <i>Ting-Yu WU^{1*}, Ting-Yu CHANG¹, Bo-Fan LIN^{1*}, Shan LI¹, Shinn-Shyong TZENG²</i> (¹ Taiwan Textile Research Institute, ² Tatung University, Taiwan)
POT1-51	Solar Thermal Storage of Azobenzene-Functionalized Graphene Hybrids based on Molecular Hydrogen Bonds <i>Wen LUO, Chengqun QIN, Yiyu FENG, Wei FENG*</i> (Tianjin University, China)
POT1-52	Fluorographene Exfoliated by the Intercalation of Organic Molecules for Lithium Primary Batteries <i>Yu LI, Mengmeng QIN, Yiyu FENG, Wei FENG*</i> (Tianjin University, China)
POT1-53	Self-assembly of Functionalized Graphene-based Composite Membranes at Interface <i>Si-Da WU^{1, 2}, Wei LV³, Zhao XU^{1, 2}, Quan-Hong YANG^{1, 2, 3*}</i> (¹ Tianjin University, ² The Synergistic Innovation Center of Chemistry and Chemical Engineering of Tianjin, ³ Tsinghua University, China)
POT1-54	Nitrogen-Doped Graphene/Carbon Nanotube Hybrids: In-Situ Formation on Bifunctional Catalysts and Their Superior Electrocatalytic Activity for Oxygen Evolution/Reduction Reaction <i>Gui-Li TIAN¹, Meng-Qiang ZHAO¹, Dingshan YU², Xiang-Yi KONG¹, Jia-Qi HUANG¹, Qiang ZHANG^{1*}, Fei WEI^{1*}</i> (¹ Tsinghua University, China, ² Nanyang Technological University, Singapore)

Carbon2014_Poster Presentation_Day 2_July 3 (Thu)

POT1-55	A Single Particle Hamiltonian for Electro-magnetic Properties of Graphene Nanoribbons <i>Hosik LEE^{1*}, Katsunori WAKABAYASHI², Young-Woo SON³, Yoshiyuki MIYAMOTO⁴</i> (¹ Ulsan National Institute of Science and Technology (UNIST), Korea, ² National Institute for Materials Science (NIMS), International Center for Materials Nanoarchitectonics(WPI-MANA), Japan, ³ Korea Institute for Advanced Study (KIAS), Korea ⁴ National Institute of Advanced Industrial Science and Technology (AIST), Japan)
POT1-56	Direct Solvothermal Synthesis of B/N-Doped Graphene <i>Sun-Min JUNG, Eun Kwang LEE, Min CHOI, Dongbin SHIN, In-Yup JEON, Jeong-Min SEO, Hu Young JEONG, Noejung PARK, Joon Hak OH, Jong-Beom BAEK*</i> (Ulsan National Institute of Science and Technology (UNIST), Korea)
POT1-57	Mechanochemically Driven Solid-state Diels–Alder reaction of Graphite into Graphene <i>Jeong-Min SEO, In-Yup JEON, Jong-Beom BAEK*</i> (Ulsan National Institute of Science and Technology (UNIST), Korea)
POT1-58	Facile, Scalable Synthesis of Edge-halogenated Graphene Nanoplatelets as Efficient Metal-free Electro-catalysts for Oxygen Reduction Reaction <i>Hyun-Jung CHOI¹, In-Yup JEON¹, Min CHOI¹, Jeong-Min SEO¹, Sun-Min JUNG¹, Min-Jung KIM¹, Sheng ZHANG², Lipeng ZHANG³, Zhenhai XIA³, Liming DAI², Noejung PARK¹, Jong-Beom BAEK^{1*}</i> (¹ Ulsan National Institute of Science and Technology (UNIST), Korea, ² Case Western Reserve University, USA, ³ University of North Texas, USA)
POT1-59	Sulfur Doped Graphene/Polymer Composites as an Efficient Material for Electrical Applications <i>Faisal SHAHZAD^{1,2}, Jang-Woo LEE¹, Seunggun YU¹, Soon Man HONG¹, Chong Min KOO^{1,2*}</i> (¹ Korea Institute of Science and Technology (KIST), ² University of Science and Technology, Korea)
POT1-60	Graphene/Li4Ti5O12 Microsphere as High Rate Anode Materials <i>Jun Hui JEONG, Hyun-Kyung KIM, Sang-Hoon PARK, Kwang-Bum KIM*</i> (Yonsei University, Korea)
POT1-61	Carbon Structural Changes in Manganese Dioxide/Graphene Hybrid Material synthesized by Direct redox Deposition <i>Suk-Woo LEE¹, Seong-Min BAK^{1,2}, Chang-Wook LEE¹, Chernoo JAYE³, Daniel A. FISCHER³, Bae-Kyun KIM⁴, Xiao-Qing YANG², Kyung-Wan NAM², Kwang-Bum KIM*</i> (¹ Yonsei University, Korea, ² Brookhaven National Laboratory Upton, USA, ³ National Institute of Standards and Technology Gaithersburg, USA, ⁴ Samsung Electro-Mechanics Co., LTD, Korea)
POT1-62	Recovery of Kish Graphite from Steel-making Process and Utilization as the Graphene Nanoplatelets Resource Thereof <i>J. C. AN, Y. J. KIM, B. J. KIM, I. J. BAE, H. J. KIM, S. Y. LEE, S. M. PARK, I. P. HONG*</i> (Research Institute of Industrial Science & Technology, Korea)
Presentation No.	T2: CNTs and Related Carbon Nanomaterials
POT2-36	Quadruple Hydrogen Bonded Nanocarbon Networks for High Performance Dispersant-Free Conducting Pastes <i>Joong Tark HAN*</i> Jeong In JANG, Sua CHOI, Byung Kuk KIM, Jong Seok WOO, Seung Yol JEONG, Hee Jin JEONG, Kang-Jun BAEG, Geon-Woong LEE* (Korea Electrotechnology Research Institute, Korea)
POT2-37	Supercompressible Porous Foam Network made of Single-Walled Carbon Nanotubes <i>Youngseok OH*</i> , Kyu-Hun KIM ² , Mohammad F. ISLAM ² (¹ Korea Institute of Materials Science, Korea, ² Carnegie Mellon University, USA)
POT2-38	Investigation on the Growth Termination Mechanism of Aligned Carbon Nanotube Arrays using a Transmission Electron Microscopy for Improving the Properties of Carbon nanotube Fiber <i>Seojeong JEONG^{1,2}, Hwanchul KIM², Seungmin KIM^{1*}</i> (¹ Korea Institute of Science and Technology, ² Chonbuk National University, Korea)
POT2-39	Carbon Nanotube Flexible Field Emitters <i>Dong Hoon SHIN, Seung Il JUNG, Guohai CHEN, Ki Nam YUN, Cheol Jin LEE*</i> (Korea University, Korea)
POT2-40	Carbon Nanotube Field Emitters Fabricated by a Filtration-Transfer Method <i>Dong Hoon SHIN, Seung Il JUNG, Yanan SONG, Yuning SUN, Cheol Jin LEE*</i> (Korea University, Korea)
POT2-41	Field Emission Behavior of the Point-Typed Carbon Nanotube Field Emitter <i>Yuning SUN, Dong Hoon SHIN, Yanan SONG, Ki Nam YUN, Cheol Jin LEE*</i> (Korea University, Korea)
POT2-42	Electro-deposition of Poly(3,4-ethylenedioxythiophene) on Carbon Nanotubes for Electrochemical Energy Storage Applications <i>Wonbin KIM, Woong KIM*</i> (Korea University, Korea)
POT2-43	Synthesis of Thin Multi-Walled Carbon Nanotubes with an Extremely High Yield and High Dispersion Ability <i>Yosub KANG², Ju Hee KIM¹, Bawl KIM², Cheol Jin LEE^{2*}</i> (Korea University, Korea)
POT2-44	Large-Scale Synthesis of Super-Bundle Single-Walled Carbon Nanotubes by Water-Assisted Chemical Vapor Deposition and Their Electrical Properties <i>Yu ZHAO, Bawl KIM, Chang Soo PARK, Cheol Jin LEE*</i> (Korea University, Korea)
POT2-45	Blue-light Emission from SiO₂ Thin Films with Carbon Nanotube Electron Beam Exposure <i>Ji Hwan HONG, Jung Su KANG, Seon Yong PARK, Su Woong LEE, Ha Rim LEE, Kyu Chang PARK*</i> (Kyung Hee University, Korea)
POT2-46	The weight reduction of automotive parts using CNT enforced Polyamide <i>Mi Ro KIM*, Dong Heon HA</i> (Mando Global R&D Center, Korea)
POT2-47	Hydrogen-assisted Growth of Carbon Nanoribbons on Carbon Black Surface using Metal-catalyst-free Chemical Vapour Deposition <i>Zhi-Yang ZENG, Jarrn-Horng LIN*</i> (National University of Tainan, Taiwan)
POT2-48	Controlled Growth of Ultrahigh-Density Single-Walled Carbon Nanotube Arrays on Sapphire Surface <i>Yue HU, Jin ZHANG*</i> (Peking University, China)
POT2-49	Growth of Aligned Semiconducting Single-walled Carbon Nanotubes by using Semiconductor Oxide Nanoparticles as Catalysts <i>Lixing KANG^{1,2}, Qingwen LI², Jin ZHANG^{1*}</i> (¹ Peking University, ² Chinese Academy of Science, China)
POT2-50	Promoter-assisted Hydrothermal Preparation of N-doped MWCNT Hydrogel and the Applications of Corresponding Aerogel <i>Ran DU, Jin ZHANG*</i> (Peking University, China)

Carbon2014_Poster Presentation_Day 2_July 3 (Thu)

POT2-51	CNTs Hybrids with CeZrO₂ as Novel Catalysts for Preferential CO Oxidation and Water Gas Shift Reactions <i>Agata ŁAMACZ[*], Barbara LISZKA, Andrzej KRZTOŃ (Polish Academy of Sciences, Poland)</i>
POT2-52	Electrochemical Properties of Carbon Materials Functionalized by Redox Active Biopolymer <i>T. REBIŚ[*], M. SOBKOWIAK, G. MILCZAREK (Poznań University of Technology, Poland)</i>
POT2-53	One-pot Synthesis of Hybrid Ag/C Nanoparticles <i>Yamin HAO, Weijia YANG, Lingpeng YAN, Yongzhen YANG[*], Xuguang LIU[*], Bingshe XU (Taiyuan University of Technology, China)</i>
POT2-54	Reactivity of Short Single and Double-Walled Carbon Nanotubes in Ar and Ar/H₂ Heat Treatments <i>Aaron MORELOS-GOMEZ¹, Rodolfo Cruz SILVA¹, Hiroyuki MURAMATSU², Kazunori FUJISAWA¹, Morinobu ENDO¹, Mauricio TERRONES^{1,3*} (¹Shinshu University, Japan, ²Nagaoka University of Technology, Japan, ³The Pennsylvania State University, USA)</i>
POT2-55	New Graphene-like Films Synthesis on Liquid Surface <i>Evlashin SA^{1,2*}, Suetin NV¹, Minaeva SA³, Dagesyan SA¹ (¹Lomonosov Moscow State University, ²Lebedev Physical Institute RAS, ³Institute on laser and information technologies, Russia)</i>
POT2-56	Mapping of Stress Distribution along the Fibre in FRPs using Carbon-based Nanomaterials <i>Bin HAO, Peng-Cheng MA[*] (Chinese Academy of Sciences, China)</i>
POT2-57	In Situ Monitoring the Role of Working Metal Catalyst Nanoparticles for Ultrahigh Purity Single-Walled Carbon Nanotubes <i>Qiang ZHANG[*], Tian-Chi CHEN, Meng-Qiang ZHAO, Gui-Li TIAN, Jia-Qi HUANG, and Fei WEI (Tsinghua University, China)</i>
POT2-58	The Catalytic Activity and Electrochemical Behaviors of the CNT– TiO₂ Composite as a Catalyst Support for PEMFCs <i>Yong il CHO, Yu kwon JEON, Jeong ho PARK, Myoung-geun PARK, Gi-cheon LEE, Yong-Gun SHUL[*] (Yonsei University, Korea)</i>
POT2-59	Plasticized Spinning and Characterization of PAN/CNTS Composite Fibers <i>Xiang LI, Chunju HE[*], Chunyi LIU, Aiwen QIN, Xinzhen ZHAO (Donghua University, China)</i>
Presentation No.	T3: Precursors, Carbon Fibers, and Composites
POT3-49	Preparation and Characterization of Chemically Functionalized Graphene Oxide/Polyimide nanocomposites <i>Do Hoon LEE^{1,2}, Seok Hoon AHN¹, Munju-GOH¹, Bon-Cheol KU¹, Joong Hee LEE², Nam-Ho YOU^{1*} (¹Korea institute of Science and Technology(KIST), ²Chonbuk National University, Korea)</i>
POT3-50	Preparation Studies of Multiscale Carbon Fibers by Emulsion Sizing with Carbon Nanotubes <i>Yu YANG[*], Li-Juan CAO (Chinese Academy of Sciences, China)</i>
POT3-51	Rheological Behaviors of Isotropic Pitches Prepared from Coal Tar and Ethylene Bottom Oil <i>Byung-Jun KIM¹, Youngho EOM², Osamu KATO¹, Jin MIYAWAKI¹, Byoung Chul KIM², Ik-Pyo HONG³, Seong-Ho YOON^{1*} (¹Kyushu University, Japan, ²Hanyang University, Korea, ³Research Institute of Industrial Science & Technology, Korea)</i>
POT3-52	Effect of Carbon Black and Carbon Nanotube Additives on the Microstructure and Graphitization Temperature of Polyvinyl Chloride <i>Hesam Fallah ARANI¹, Alireza MIRHABIBI^{1,2*}, Roya AGHABABAZADEH³, Rahim NAGHIZADEH¹ (¹Iran University of Science and Technology, Iran, ²Leeds University, UK, ³Institute for Color Science and Technology, Iran)</i>
POT3-53	Effect of MoO₃ on Friction and Wear Properties of Carbon/Carbon Composites <i>Seoung-Eun YOQ¹, Min-Kang SEO², Byoung-Suhk KIM¹, Soo-Jin PARK^{3*} (¹Jeonbuk National University, ²Korea Institute of Carbon Convergence Technology, ³Inha University, Korea)</i>
POT3-54	Effect of Halogen Groups of Functionalized Carbon Nanotubes on Mechanical Properties of Polyacrylonitrile(PAN)-based Carbon Fibers <i>Han-seok CHAE^{1,3}, Rowoon LEE¹, Hyeonuk YEO¹, Youngsoo PARK², Ok-Kyung PARK¹, Sungho LEE¹, Nam-Ho YOU¹, Seongmu JO¹, Yooyoung KIM³, Bon-Cheol KU^{1*} (¹Korea Institute of Science and Technology (KIST), ²Korea Institute of Carbon Convergence Technology, ³Jeonju University, Korea)</i>
POT3-55	Preparation of 2D High Thermal Conductivity Carbon/Carbon Composites and Its Structural Evolution at High Temperatures <i>Zhen FAN[*], Zhihai FENG, Qing KONG (Aerospace Research Institute of Materials and Processing Technology, China)</i>
POT3-56	Complex Mechanical Characteristics of 2D Carbon/Carbon Composites <i>L. XU^{1*}, W.B. YANG¹, Z.CHEN¹, Y.Z.SONG¹, C.H.XU², Zh.H.FENG¹ (¹Aerospace Research Institute of Materials & Processing Technology, ²Harbin Institute of Technology, China)</i>
POT3-57	Study of Stabilization and Carbonization Treatment on Textile PAN based Carbon Fiber <i>Ro-Woon LEE^{1,2}, Sung-Ho LEE¹, Sung-Mu JO^{1*} (¹Institute of Advanced Composite Materials Korea Institute of Science and Technology, ²Korea University, Korea)</i>
POT3-58	Studies on the Improvement of the Thermal Conductivity of the Thermoplastic Composite using a Pitch-based Carbon Fiber <i>Mee Hye OH[*], Yeo Seong YOON, Hyun Ju CHOI, Nam Il KIM, Ki Hoon KIM, Ah Young KIM, Dong Joon MOON (Korea Automotive Technology institute, Korea)</i>
POT3-59	Thermal Conductivity Enhancement of Epoxy/Three-Dimensional Carbon Hybrid Filler Composites <i>Ji Sun PARK[*], You Jin AN, Kwon Woo SHIN, Yoon Jin KIM, Churl Seung LEE[*] (Korea Electronics Technology Institute (KETI), Korea)</i>
POT3-60	Study on the Process and Performance of Microwave cured CFRP : Engine Acoustic Cover <i>Min Hye JUNG¹, Hyun Kyu SHIN¹, Joung Hwan LEE^{2*}, R. SCAIFE², Soon Sig KIM³ (¹Korea Institute of Carbon Convergence Technology, Korea, ²The University of Sheffield, United Kingdom, ³Ssangyong Motor Company, Korea)</i>
POT3-61	Preparation of PAN Precursor for Highly Conductive Carbon Fiber <i>Hyun Do SONG^{1,2}, Min Hye JUNG¹, Hyun Kyu SHIN¹, Shin Jae KANG¹, Hwan Chul KIM^{2*} (¹Korea Institute of Carbon Convergence Technology, ²Chonbuk National University, Korea)</i>

Carbon2014_Poster Presentation_Day 2_July 3 (Thu)

POT3-62	The study on Process Parameters for CFRP Stabilizer Bar using Braiding Process <i>Woong KI^{1*}, Jeong-seok KANG¹, Hyun-kyu SHIN¹, Shin-jae KANG¹, Tobias WEHRKAMP-RICHTER², Soon-sig KIM³ (¹Korea Institute of Carbon Convergence Technology, Korea, ²Technische Universität München, Germany, ³Ssangyong motor company, Korea)</i>
POT3-63	Effects of Malic Anhydride (MA) Content on Mechanical Interfacial Adhesion and Morphological Properties of Chopped Carbon Fibers-reinforced MA-co-polypropylene Matrix Composites <i>Hyun-Il KIM^{1,2}, Woong-Ki CHOI¹, Sang-Yub OH¹, Chi-Hoon CHOI³, SungWon MA⁴, Min-Kang SEO¹, Kay-Hyeok AN¹, Byung-Joo KIM^{1*} (¹Korea Institute of Carbon Convergence Technology, ²Jeonju University, ³Hyundai-Kia Motor Corporation, ⁴Lotte Chemical Corporation, Korea)</i>
POT3-64	Synergistic Improvement of Thermal Conductivity of Polypropylene Composites with Reinforced by Boron Nitride- modified Carbon Fibers and Graphite Flakes <i>Woong HAN¹, Hong-Gun KIM², Kay-Hyeok AN¹, Byoung-Joo KIM^{1*} (¹Korea Institute of Carbon Convergence Technology, ²Jeonju University, Korea)</i>
POT3-65	A Study on Ultimate Torque Behavior in Different Effect of CFRP Drive Shaft <i>Woong KI^{1*}, Jeong-seok KANG, Won-tae KIM, Shin-jae KANG (Korea Institute of Carbon Convergence Technology, Korea)</i>
POT3-66	Design and Analysis of a Carbon Fiber Braided Stabilizer Bar <i>Tobias WEHRKAMP-RICHTER¹, Michael BRAND¹, Paul BOCKELMANN¹, Woong KI², Roland HINTERHÖLZL¹ (¹Technische Universität München, Germany, ² Korea Institute of Carbon Convergence Technology, Korea)</i>
POT3-67	Effect of Ozone Treatment on Oxidative Stabilization and Carbonization Behaviors of Isotropic Pitch-based Carbon Fibers <i>Jae-Yeon YANG^{1,2}, Yun-Su KUK¹, Woong-Ki CHOI¹, Lee-Ku KWAC², Jae-Kyoung KO³, Min-Kang SEO^{1*} (¹Korea Institute of Carbon Convergence Technology, ²Jeonju University, ³ Korea Institute for Knit Industry, Korea)</i>
POT3-68	Synthesis of Fine Mosaic Structured Carbon Matrix of Pitch and Phenol Resin for the Enhanced Ablation Properties <i>Ok Hyoung LEE, Tae-Eon KIM, Kwang Yeon CHO[*] (Korea institute of Ceramic Engineering and Technology, Korea)</i>
POT3-69	Fabrication of Electrospun Silicon Carbide-titanium Carbide Fiber/Phenolic Resin Composites for Insulated-thermal Conductive Composites <i>Tae-Eon KIM, Ok Hyung LEE, So Yoon MUN, Hyung Mi LIM, Kwang Yeon CHO[*] (Korea Institute of Ceramic Engineering and Technology, Korea)</i>
POT3-70	Fabrication of Carbon Papers Using Polyacrylonitrile Fibers as a Binder <i>Hyunuk KIM^{1*}, Young-Ju LEE¹, Sung-Jin LEE¹, Yong-Sik CHUNG², Yoonjong YOO¹ (¹Korea Institute of Energy Research, ²Chonbuk National University, Korea)</i>
POT3-71	Upgrading of Deasphalted Oil with Transition Metal Catalysts <i>Dipali P. UPARE^{1,2}, Min Sik KIM¹, Young-Pyo JEON¹, Ji Sun IM¹, Chul Wee LEE^{1,2*} (¹Korea Research Institute of Chemical Technology (KRICT), ²University of Science and Technology (UST), Korea)</i>
POT3-72	Petroleum based Pitch Precursors from Pyrolyzed Fuel Oil <i>Paulus Halim HUMALA^{1,2}, Seungwoo KO¹, Young-Pyo JEON¹, Ji-Sun IM¹, Chul Wee LEE^{1,2*} (¹Korea Research Institute of Chemical Technology (KRICT), ²University of Science and Technology (UST), Korea)</i>
POT3-73	Development of Bimetallic Catalysts for Hydrocracking of Vacuum Residue <i>Ramakanta SAHU^{1,2}, Byung jin SONG^{1,3}, Ji Sun IM¹, Young-Pyo JEON¹, Chul Wee LEE^{1*} (¹Korea Research Institute of Chemical Technology (KRICT), Korea, ²KIIT University, India, ³Sungkyunkwan University, Korea)</i>
POT3-74	Petroleum Pitch-based Carbon/Silicon Nano Composite as an Anode Material for Lithium-ion Batteries <i>Seung Hyun KO^{1,2}, Chul Wee LEE^{1,2}, Yoong-Pyo JEON¹, Ji Sun IM^{1*} (¹Korea Research Institute of Chemical Technology (KRICT), ²University of Science and Technology (UST), Korea)</i>
POT3-75	Effects of Flame Resisting Treatment on the Thermal Property of Carbon Fabric from Lyocell <i>Eun Ae KIM^{1,2}, Byong Chol BAI^{1,2}, Young-Pyo JEON¹, Chul Wee LEE^{1,3}, Young Seak LEE², Ji Sun IM^{1*} (¹Korea Research Institute of Chemical Technology (KRICT), ²Chungnam National University, ³University of Science and Technology, Korea)</i>
POT3-76	Pyrolysis Fuel Oil based Boron-doped Carbon for Li-ion Battery Anode <i>Jong Gu KIM^{1,2}, Fei LIU¹, Young-Seak LEE², Chul Wee LEE^{1,3}, Ji Sun IM^{1*} (¹Korea Research Institute of Chemical Technology (KRICT), ²Chungnam National University, ³University of Science and Technology, Korea)</i>
POT3-77	Improved Target Gas Adsorption Properties of Lyocell-based ACF <i>Byong Chol BAI^{1,2}, Eun Ae KIM^{1,2}, Young-Pyo JEON¹, Chul Wee LEE^{1,3}, Young Seak LEE², Ji Sun IM^{1*} (¹Korea Research Institute of Chemical Technology (KRICT), ²Chungnam National University, ³University of Science and Technology, Korea)</i>
POT3-78	Study of the Effects of Additives SAGD Process for Bitumen Recovery from Oil Sand <i>Byung Jin SONG^{1,2}, Min Sik KIM¹, Young-Pyo JEON¹, Chul Wee LEE^{1*} (¹Korea Research Institute of Chemical Technology (KRICT), ²Sungkyunkwan University, Korea)</i>
POT3-79	Improved Lithium-ion Battery Prepared by Li[Ni_xMn_{1-x}]O₂ Cathode and Pitch Anode <i>Seul-Ki JUNG¹, Seung Hyun KO^{1,2}, Young-Pyo JEON¹, Chul Wee LEE^{1,2}, Ji Sun IM^{1*} (¹Korea Research Institute of Chemical Technology (KRICT), ²University of Science and Technology, Korea)</i>
POT3-80	Non-covalent Functionalization of Multi-walled Carbon nanotubes for better Dispersion Properties and their uses in Polymeric Nanocomposites <i>Mijeong HAN[*], Hyunwha LIM, Jung RYU (Korea Research Institute of Chemical Technology, Korea)</i>
POT3-81	Effect of Aluminum phosphate and Boron nitride on Anti-oxidation Behavior of Carbon/Carbon Brake Discs <i>Jin Sil CHEON¹, Donghwan CHO^{1*}, Chaewook CHO² (¹Kumoh National Institute of Technology, ²DACC Co., Ltd., Korea)</i>
POT3-82	Optimization and Characterization of Curing Process of Anti-oxidants for Carbon/Carbon Composites. <i>Jin Sil CHEON¹, Donghwan CHO^{1*}, Chaewook CHO² (¹Kumoh National Institute of Technology, ²DACC Co., Ltd., Korea)</i>
POT3-83	Catalytic Oxidation Behavior by Deicing Agents, Thermal Properties and Morphology of C/C Composites Coated with Anti-oxidants <i>Jin Sil CHEON¹, Hwi Yong LEE¹, Donghwan CHO^{1*}, Chaewook CHO² (¹Kumoh National Institute of Technology, ²DACC Co., Ltd., Korea)</i>

Carbon2014_Poster Presentation_Day 2_July 3 (Thu)

POT3-84	UV Curing and Thermal Characterization of Epoxy Composites Reinforced by Carbon Fabrics Distributed with Multi-walled Carbon Nanotubes <i>Bo Ram PARK, Jin Sil CHEON, Donghwan CHO*</i> (Kumoh National Institute of Technology, Korea)
POT3-85	Preparation of Carbon Fiber using Biotar as an Effective Precursor <i>Jian-Xiao YANG*, Byung-Jun KIM, Osamu KATO, Jin MIYAWAKI, Isao MOCHIDA, Seong-Ho YOON</i> (Kyushu University, Japan)
POT3-86	The Effect of the Coupling agent on Mechanical properties of Carbon fiber based Thermoplastic Composites <i>Sang Woo KIM, Dae Gun KIM, Young Koan KO*</i> (Lotte Chemical Research Institute, Korea)
POT3-87	Intercalation of Calcium into a Graphite-Like Layered Material of Composition BC_xN (2 ≤ x ≤ 4) <i>Hikomichi ISHIKAWA¹, Masayuki KAWAGUCHI^{1*}, Mélissa FAUCHARD², Sébastien CAHEN², Claire HEROLD², Akira NAKASUGA³, Shoji NOZATO³, Takuya WADA³, Akihiko FUJIWARA³</i> (¹ Osaka Electro-Communication University, Japan, ² Universite de Lorraine, France, ³ Sekisui Chemical Co. Ltd., Japan)
POT3-88	Preparation and Properties of Pyrolytic Carbon Coating on Carbon Materials Used in Czochraski Single Crystal Silicon Furnace <i>Wei ZHAO*, Bo ZHU, Weiwei CAO</i> (Shandong University, China)
POT3-89	Preparation of Carbon-alumina Nanocomposite with Excellent Electrical Conductivity from Carbon-coated Alumina Nanoparticles <i>Keita NOMURA¹, Yasuto HOSHIKAWA^{1*}, Takafumi ISHII¹, Makoto OKAI², Takashi AKATSU³, Yutaka SHINODA³, Takashi KYOTANI¹</i> (¹ Tohoku University, ² Hitachi Research Laboratory, ³ Tokyo Institute of Technology, Japan)
POT3-90	Electrospinning of P-containing Lignin solution for the Preparation of Carbon Fibers with Enhanced Surface Area and Oxidation Resistance <i>J. RODRIGUEZ-MIRASOL*, R. BERENGUER, F.J. GARCIA-MATEOS, T. CORDERO</i> (University of Malaga, Spain)
POT3-91	Synthesis of the Silicon Carbide Derived from Polycarbosilane using Electro-spinning Method <i>Ho-jung HWANG, Tae-eon KIM, Jin-goo LEE, Ye-yeon LEE, Yong Gun SHUL*</i> (Yonsei University, Korea)
Presentation No.	T4: Industrial Graphites, Carbon Industry News, and Carbon Blacks
POT4-04	Observations of Mechanical Characteristics and Microstructures of Artificial Graphite Joined by Phenolic Resin <i>Un Gyeong BAEK, Dong Su KANG, Jae Seung ROH*</i> (Kumoh National Institute of Technology, Korea)
POT4-05	Recovery of Carbon Black from Waste Tires by Thermal Decomposition <i>Seong Moon OH¹, Dong Su KANG¹, Bong Seok KIM², Jae Seung ROH^{1*}</i> (¹ Kumoh National Institute of Technology, ² Dasung Corporation, Korea)
POT4-06	Observations of Mechanical Characteristics and Microstructures of Artificial Graphite Joined by Organic Binder <i>Un Gyeong BAEK, Dong Su KANG, Jae Seung ROH*</i> (Kumoh National Institute of Technology, Korea)
Presentation No.	T5: Porous Carbons, Carbons for Health and Environmental Protection
POT5-32	Synthesis of Highly Porous Carbon Materials Derived from Polythiophene Polymer <i>In-Gi HAN, Soo-Jin PARK*</i> (Inha University, Korea)
POT5-33	Effect of Carbonization Temperature on Electrochemical Performance of Nitrogen-doped Microporous Carbons <i>In-Gi HAN, Eun-A CHO, Soo-Jin PARK*</i> (Inha University, Korea)
POT5-34	Preparation and Characterization of N-doped Carbon Aerogel for CO₂ Capture <i>Yong-Ki CHOI, Da-Hee JUN, Soo-Jin PARK*</i> (Inha University, Korea)
POT5-35	Facile Synthesis of N-doped Microporous Carbon for CO₂ Capture <i>Yong-Ki CHOI, Seul-Yi LEE, Han-Jin YOO, Soo-Jin PARK*</i> (Inha University, Korea)
POT5-36	Preparation and Characterization of Nitrogen-doped TiO₂/Polyethylene Oxide Nanofibers <i>Min-Sang LEE, Dae-Kyu YEOM, Soo-Jin PARK*</i> (Inha University, Korea)
POT5-37	Fabrication of MgO-doped Carbon Sorbent for CO₂ Capture <i>Minh Uyen Thi LE, Sang-Un LEE, Soo-Jin PARK*</i> (Inha University, Korea)
POT5-38	A Study on Surface Characteristics of Chemically Treated Activated Carbons for Metal Ion Adsorption <i>Minh Uyen Thi LE, Ji-Moon JEONG, Soo-Jin PARK*</i> (Inha University, Korea)
POT5-39	Effect of Hydroxyl Groups on Elemental Mercury Adsorption of Nanoporous Carbons <i>Jeong-Ran CHOI^{1,2}, Kyong-Min BAE¹, Soo-Jin PARK^{1*}</i> (¹ Inha University, ² Evertech Enterprise Co., Ltd, Korea)
POT5-40	Preparation of Ordered Mesoporous Carbons with Different Structure using Reverse-Type Copolymer as a Template <i>Yan SONG^{1*}, Peng LI²</i> (¹ Institute of Coal Chemistry, ² University of Shanghai, China)
POT5-41	Elimination of Uraemic Toxins and Inflammatory Cytokines from Human Plasma by Biomass-derived Carbon Adsorbents <i>Jandosov J.M^{1*}, Mansurov Z.A¹, Baimenov A. Zh.¹, Orazbekov A.T¹, Howell C.A², Mikhalovsky S.V^{2,3}, Sandeman S.R²</i> (¹ Institute of Combustion Problems, Kazakhstan, ² University of Brighton, United Kingdom, ³ Nazarbayev University, Kazakhstan)
POT5-42	Carbon and Carbon Ceramic Sorbents for Separation and Purification <i>Kerimkulova A.R^{1*}, Seytzhanova M.A², Kerimkulova M.R², Azat S¹, Mansurov Z.A²</i> (¹ Al-Farabi Kazakh National University, ² Institute of Combustion Problems, Kazakhstan)
POT5-43	Photochemical Synthesis of Silver Nanoparticles Supported onto Graphene Oxide and Graphite Nanofibers and their Catalytic Activity for the Reduction of 4-Nitrophenol <i>Juan M.D. TASCÓN*, María J. FERNÁNDEZ-MERINO, Laura GUARDIA, Juan I. PAREDES, Silvia VILLAR-RODIL, Amelia MARTÍNEZ-ALONSO</i> (Instituto Nacional del Carbón, Spain)
POT5-44	Polyamides as New Precursors of Nitrogen and Oxygen-Doped Ordered Mesoporous Carbons

Carbon2014_Poster Presentation_Day 2_July 3 (Thu)

	<i>Juan M. D. TASCÓN*</i> , <i>Ángela SÁNCHEZ-SÁNCHEZ</i> , <i>Fabián SUÁREZ-GARCÍA</i> , <i>Amelia MARTÍNEZ-ALONSO</i> , (Instituto Nacional del Carbón, Spain)
POT5-45	Influence of the Acidic and Basic Sites on the CO₂ Adsorption Capacity of Doped Ordered Mesoporous Carbons <i>Juan M. D. TASCÓN*</i> , <i>Ángela SÁNCHEZ-SÁNCHEZ</i> , <i>Fabián SUÁREZ-GARCÍA</i> , <i>Amelia MARTÍNEZ-ALONSO</i> , (Instituto Nacional del Carbón, Spain)
POT5-46	Heavy Metal Ions Adsorption Characteristics of Coal Tar Pitch-based Activated Carbon Fibers with Steam Activation Conditions <i>Bo-Kyung CHOI</i> ^{1,2} , <i>Lee-Ku KWAC</i> ² , <i>Kyong-Min BAE</i> ³ , <i>Yun-Su KUK</i> ¹ , and <i>Min-Kang SEO</i> ^{1*} (¹ Korea Institute of Carbon Convergence Technology, ² Jeonju University, ³ Inha University, Korea)
POT5-47	Fiber Type Binder Reinforced Carbon Air Filter to Improve Durable Stability <i>Tae Hwan LIM</i> ¹ , <i>Dae Young LIM</i> ² , <i>Sang Young YEO</i> ^{1*} (Korea Institute of Industrial Technology, Korea)
POT5-48	Removal of Contaminants by ACF in the Passenger Vehicle <i>Hyung Suk MOON</i> ^{1*} , <i>In Soo KIM</i> ¹ , <i>Sin Jae KANG</i> ² , <i>Seung Kon RYU</i> ² (¹ Korea Maritime University, ² Korea Institute of Carbon Convergence Technology, Korea)
POT5-49	Ecotoxicity Risk Assessment of the Photocatalytic Degradation Effluent of Pharmaceutical Compounds using TiO₂/Carbon Composites <i>Conchi O. ANIA</i> ^{3*} , <i>Marta ANDRADE</i> ^{1,3*} , <i>Ana Sofia MESTRE</i> ¹ , <i>Nuno LAPA</i> ² , <i>Benilde MENDES</i> ² , <i>Ana Paula CARVALHO</i> ¹ , (¹ Faculdade de Ciências da Universidade de Lisboa, ² Universidade Nova de Lisboa, Portugal, ³ Instituto Nacional del Carbón (INCAR, CSIC) Spain.)
POT5-50	Investigation Structure and Sorption Properties of Nanoporous Molecular Sieves from Anthracite and Coal Tar Pitch <i>Berveno AV</i> ¹ , <i>Berveno VP</i> ¹ (¹ Kuzbass Sorbents Company, ² Institute of Solid-State Chemistry and Mechanochemistry, Russian Federation),
POT5-51	Synthesis of Magnetic CNTs for Antibiotics Removal <i>Sergey V MIKHALOVSKY*</i> , <i>Andrey TOROPOV</i> , <i>Moulay-Rachid BABAA</i> (Nazarbayev University, Kazakhstan)
POT5-52	Exploratory Work in Impregnation of Copper and Zinc over activated Carbon for Use in Respirator Filter <i>Amjad FAROOQ*</i> , <i>Tahira FATIMA</i> , <i>Naseem IRFAN</i> (Pakistan Institute of Engineering and Applied Sciences, Pakistan)
POT5-53	The Electrochemical Response of Cu-Doped Nanoporous Carbons for the Electro-Oxidation of Alcohols <i>Leticia GARCÍA-CRUZ</i> ^{1*} , <i>Alicia GOMIS-BERENGUER</i> ² , <i>Conchi O. ANIA</i> ² , <i>Vicente MONTIEL</i> ¹ , <i>Jesús INIESTA</i> ¹ (¹ Universidad de Alicante, ² Instituto Nacional del Carbón (INCAR, CSIC), Spain)
POT5-54	Preparation of Thermosensitive Fe₃O₄@Carbon@P(N-isopropylacrylamide) Magnetic Composite Microspheres and Their Controlled Release Properties <i>Yongzhen YANG</i> ^{1,3*} , <i>Lin CHEN</i> ^{1,2} , <i>Longfei LI</i> ^{1,4} , <i>Xuguang LIU</i> ^{1,2*} , <i>Bingshe XU</i> ^{1,3} (Taiyuan University, China)
POT5-55	Preparation of C60 Nanowhiskers-ZrO₂ Nanocomposites under Electric Furnace and Photocatalytic Degradation of Methylene Blue <i>Hae Soo PARK</i> , <i>Weon Bae Ko</i> * (Sahmyook University, Korea.)
POT5-56	Adsorption of Pesticide onto Activated Carbon Derived from Sesame Stalk <i>Çisem KIRBIYIK</i> ¹ , <i>Ersan PÜTÜN</i> ^{2*} (¹ Selçuk University, ² Anadolu University, TURKEY)
POT5-57	Mechanical and Chemical Activation of Porous Activated Carbon Materials <i>Hyun Jae LEE</i> , <i>Choongkwon PARK</i> , <i>Shinhoo KANG</i> * (Seoul National University, Korea)
POT5-58	CO₂ Capturing using Metal Ions Dispersed in Porous Carbon via Carbonization Method <i>Daegwon HA</i> ¹ , <i>Jisun HAN</i> ¹ , <i>Shinhoo KANG</i> ^{1*} (Seoul National University, Korea)
POT5-59	Dispersion of Nanoparticles in Porous Activated Carbon <i>Choongkwon PARK</i> , <i>Hyun Jae LEE</i> , <i>Shinhoo KANG</i> * (Seoul National University, Korea)
POT5-60	Influence of Grinding Method on the Formation of the Chemical Structure of the Surface of the Carbon Material <i>Soldatov A.I.*</i> , <i>Askarov R.T.</i> , <i>Vershkova E.A.</i> (South Ural State University (National Research University, Russia)
POT5-61	Polymer Carbon Sieves and Graphitized Polymer Carbons for Sample Preparation Processes <i>William R. BETZ</i> , <i>Michael J. KEELER</i> , <i>Jay M. JONES</i> , <i>Wendy S. ROE</i> (Supelco, Inc., USA)
POT5-62	The Carbothermal Synthesis of Beta-Silicon Carbide Microbeads with Mesoporous Microstructure <i>Ting-Yu WU</i> ^{1*} , <i>Ting-Yu Chang</i> ¹ , <i>Bo-Fan LIN</i> ^{1*} , <i>Shan LI</i> ¹ , <i>Shinn-Shyong TZENG</i> ² (¹ Taiwan Textile Research Institute, ² Tatung University, Taiwan)
POT5-63	Nanoarchitected Graphene/CNT@Porous Carbon with Extraordinary Electrical Conductivity and Interconnected Micro/Mesopores <i>Qiang ZHANG*</i> , <i>Hong-Jie PENG</i> , <i>Jia-Qi HUANG</i> , <i>Meng-Qiang ZHAO</i> , <i>Xin-Bing CHENG</i> , <i>Xin-Yan LIU</i> , <i>Wei-Zhong QIAN</i> , <i>Fei WEI</i> (Tsinghua University China)
POT5-64	Carbon Materials as Template for the Preparation of Mixed Oxides with Controlled Morphology <i>T. CORDERO</i> , <i>M.J. Valero-ROMERO</i> , <i>J. Rodriguez-MIRASOL</i> , <i>M.O. GUERRERO-PÉREZ*</i> (Universidad de Málaga, Spain)
POT5-65	Preparation of Micro/Mesoporous Carbons from Rice Husks for Electrode Materials of Capacitive Deionization <i>Jiyoung KIM</i> ^{1,2} , <i>Yilhoon YI</i> ^{2,3} , <i>Dong-Hyun PECK</i> ² , <i>Byungrok LEE</i> ² , <i>Doo-Hwan JUNG</i> ^{1,2*} (¹ University of Science and Technology, ² Korea Institute of Energy Research, ³ Yonsei University, Korea)
POT5-66	Template Synthesis of Porous Carbons by Using Halogen-Treated Carboxymethylcellulose <i>Taiyu MATSUMURA</i> ¹ , <i>Hideto SAKANE</i> ¹ , <i>Osamu TANAIKE</i> ² , <i>Naoya MIYAJIMA</i> ^{1*} (¹ University of Yamanashi, ² National Institute of Advanced Industrial Science and Technology, Japan)
POT5-67	Highly Active Palladium Nanocatalysts Supported on Magnetically Recoverable Porous Carbon for Heterogeneous Catalytic Transformations <i>Mohammadreza SHOKOUHIMEHR</i> ^{1,2} , <i>Taeghwan HYEON</i> ^{1,2*} (¹ Institute for Basic Science (IBS), ² Seoul National University, Korea)
POT5-68	Scalable Preparation of Nitrogen-enriched Carbon Microspheres and the Utilization as Efficient CO₂ Adsorbents

Carbon2014_Poster Presentation_Day 2_July 3 (Thu)

	<i>Mei WANG, Huanhuan ZHOU, Jitong WANG, Donghui LONG*, Wenming QIAO, Licheng LING (East China University of Science and Technology, China)</i>
POT5-69	Large-Scale Production for an Extruded Activated Carbon based on Brewers Grains <i>Yong-Jung KIM*, Seong-Young LEE, Sei Min PARK, Il-Joon BAE, Jeong Chul AN, Byung Ju KIM (Research Institute of Industrial Science & Technology, Korea)</i>
Presentation No.	T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving
POT6-39	Performance Improvement of Carbon Nanotube based Supercapacitors by a Redox Additive <i>Byungwoo KIM, Woong KIM*(Korea University, Korea)</i>
POT6-40	Carbon-Supported α-Fe₂O₃ Nanoparticles as High Performance Electrode Material for Supercapacitor <i>Jong-Sung YU*, Hyeon-Yeol PARK, Nitin K. CHAUDHARI, Sung Soo KIM (Korea University, Korea)</i>
POT6-41	Enhancing the Energy Density of Supercapacitors by Adding Redox Material to Organic Electrolyte <i>Jinwoo PARK¹, Woong KIM^{1*}(Korea University, Korea)</i>
POT6-42	Fabrication of FlexibleEDLC Based on Carbon Nanotubes: Enhanced Interfacial Properties <i>Yu Jin KANG¹, WoongKIM^{1*}(Korea University, Korea)</i>
POT6-43	Effect of Synthesis Conditions on the Porosity, Microtexture, and Surface Chemistry of Nitrogen-doped Carbonized Wood <i>Toshimitsu HATA^{1*}, Yoshiharu UCHIMOTO², Roland BENOIT², Sylvie BONNAMY², Paul BRONSVELD³ (¹Kyoto University, Japan, ²CRMD, CNRS-Université, France, ³ University of Groningen, Netherlands)</i>
POT6-44	Phosphorus Intercalated Single-Walled Carbon Nanotubes for Rechargeable Alkali Metal Ion Batteries <i>Hayong SONG, Yosuke ISHII, Taichi HAYAKAWA, Shinji KAWASAKI*(Nagoya Institute of Technology, Japan)</i>
POT6-45	Preparation of Functionalized Nanoporous Graphene Nanofluid by Hydrothermal Method and Study the Thermal Conductivity and Stability <i>Alimorad RASHIDI*, Roghayeh LOTFI, Azadeh AMROLLAHI (Nanotechnology Research Center, Iran)</i>
POT6-46	Preparation of Nanoporous Activated Carbon from Bagasses and Its Application as Nano Adsorbent for CH₄ Storage <i>Ali Morad RASHIDI^{1*}, Leila MAHMUDI^{1,2}, Hosein Dehghani² (¹Nano technology Research Center, ²Kashan University, Iran)</i>
POT6-47	Evaluation of Electrode Properties of Li-O₂ Battery Using Porous Carbon after Charge and Discharge <i>Yasuhiko ARAI, Kazuki MATSUMURA, Taro KINUMOTO, Tomoki TSUMURA, Masahiro TOYODA*(Oita University, Japan)</i>
POT6-48	Preparation and Electrochemical Properties of Boron/carbon Material as an Anode of Sodium Ion Batteries <i>Chikara KAMIWAKI, Takayuki KASEDA, Masayuki KAWAGUCHI*(Osaka Electro-Communication University, Japan)</i>
POT6-49	Self-Discharge of Carbon/Carbon Supercapacitors in Salt Aqueous Electrolyte. <i>Leticia GARCÍA-CRUZ^{1*}, Paula RATAJCZAK², Jesús INIESTA¹, Vicente MONTIEL¹, François BÉGUIN² (¹Universidad de Alicante, Spain, ²Poznan University of Technology, Poland)</i>
POT6-50	Carbon Electrodes with Good Properties of Hydrogen Electrosorption <i>Mikolaj MELLER, Krzysztof FIC, Elzbieta FRACKOWIAK*(Poznan University of Technology, Poland)</i>
POT6-51	Enhancement of Li-Ion Batteries Anodes and Li-Ion Hybrid Capacitor Performance by Utilization of Fluorinated Carbonates as Electrolyte Solvents <i>Jakub MENZEL¹, Mikolaj MELLER¹, Grzegorz LOTA¹, Fernand GAUTHY², Elzbieta FRACKOWIAK¹ (¹Poznan University of Technology, Poland, ² SOLVAY S.A., Belgium)</i>
POT6-52	Capacitor Materials from Activated Carbons Based on Plant Waste Precursors <i>Krzysztof JUREWICZ^{1*}, Agata PAWLICKA², Katarzyna SZATKOWSKA¹, Sergiusz BIELAWNY¹, Beata Doczekalska² (¹Poznan University of Technology, ²Poznan University of Life Sciences, Poland)</i>
POT6-53	Effects of Microwave Heating on Capacitance Properties of Nitrogen-Enriched Activated Carbons. <i>Krzysztof JUREWICZ^{1*}, Sergiusz BIELAWNY¹, Piotr NOWICKI², Robert PIETRZAK² (¹Poznan University of Technology, ²Adam Mickiewicz University, Poland)</i>
POT6-54	Nitrogen-Doped Graphene Supported Pt Nanocomposites as Efficient Electrocatalysts for Methanol Oxidation Reaction <i>Qizhong SUN, ChangYoon SONG, SungSang KWON, Seok KIM*(Pusan National University, Korea)</i>
POT6-55	Carbon Nanotubes Addition Effect on the Electrochemical properties of Graphene/Cobalt Hydroxide Composites Electrodes <i>Yuna KIM¹, Eun-saem JO¹, Seok KIM^{1*}(Pusan National University, Korea)</i>
POT6-56	Electrochemical Characterization of GNS-Sulfur Electrodes by Using SWCNTs Additives for Lithium Batteries <i>Ki-Soo SON, Hee-Yoon LEE, Ki-Yong KIM, Seok KIM*(Pusan National University, Korea)</i>
POT6-57	Influence of the Ionic liquid Additive in Organic Solvent on the Interface of Activated Carbon Based Electrodes. <i>Kyungmin KIM¹, Bo-ra CHOI¹, Seok KIM^{1*}(Pusan National University, Korea)</i>
POT6-58	Preparation and Electrochemical Analysis of Graphene Oxide Having Nitrogen Atoms Supported Pt Nanocatalysts <i>Chang-Yoon SONG, Hee-Yoon LEE, Bo-Ra CHOI, Seok KIM*(Pusan National University, Korea)</i>
POT6-59	Carbon Felt Electrode Modification by Graphene Oxide (GO) for the Vanadium Redox Flow Battery (VRB) <i>Young Hwan CHU^{1*}, Yong Gun SHUL², Kwanhyun SONG¹ (¹ Sangji University, ²Yonsei University, Korea)</i>
POT6-60	Improvement of Device Performance of Organic Solar Cells Employing Dual Exciton Blocking Layer <i>Hyung-Jun SONG, Jun Young KIM, Hyunho LEE, Jeahun KIM, Changhee LEE*(Seoul National University, Korea)</i>
POT6-61	Hydrogen Binding with Metal Ions in Porous Carbon via Carbonization Method <i>Jisun HAN, Daegwon HA, Shinhoo KANG*(Seoul National University, Korea)</i>

Carbon2014_Poster Presentation_Day 2_July 3 (Thu)

POT6-62	A Simple Synthesis of N-Doped Graphene-Mn3O4 Nanocomposites as High-Performance Anode Materials for Lithium Ion Batteries <i>Seung-Keun PARK¹, Byungchul JANG¹, Yuanzhe PIAO^{1,2}*</i> (¹ Seoul National University, ² Advanced Institutes of Convergence Technology, Korea)
POT6-63	Preparation of Iron-Oxide/Graphene Nanocomposite as Anode Material in Li-Ion Secondary Batteries <i>Byungchul JANG, Sohee LEE, Yuanzhe PIAO*</i> (Seoul National University, Korea)
POT6-64	Graphene Oxide Self-Assembles into a Gel in the Salt Solution and Apply in Supercapacitor With two-Electrode Cell Configuration <i>Mingxi CHEN, Huan WANG, Lingzhi LI, Jianping GAO*</i> (Tianjin University, China)
POT6-65	Hydrogen Adsorption in Zeolite-Templated Carbon Decorated with Metal Nanoparticles Prepared by Using Metallocene as a Metal Source <i>Fumihide OHTAKE¹, Hiroyuki ITO², Masashi ITO^{1,3}, Takashi KYOTANI¹, Hirotomo NISHIHARA¹*</i> (¹ Tohoku University, ² Aichi Institute of Technology, ³ Nissan Motor Co., Ltd., Japan)
POT6-66	Graphene/Carbon Nanotube Hybrids for Energy Conversion and Storage <i>Qiang ZHANG¹*</i> , Meng-Qiang ZHAO ¹ , Xiao-Fei LIU ^{1,2} , Gui-Li TIAN ¹ , Jia-Qi HUANG ¹ , Wancheng ZHU ² , Fei WEI ¹ (¹ Tsinghua University, ² Qufu Normal University, China)
POT6-67	Shield for Polysulfides toward High-Stable Lithium Sulfur Battery <i>Qiang ZHANG, * Jia-Qi HUANG, Hong-Jie PENG, Xin-Yan LIU, Wei-Zhong QIAN, Fei WEI</i> (Tsinghua University, China)
POT6-68	Fe3O4@C Composite as Anode Material for Lithium-Ion Batteries <i>Xianying QIN, Haoran ZHANG, Junxiong WU, Ranbing HE, Feiyu KANG, Baohua LI</i> (Tsinghua University, China)
POT6-69	Improvement of Capacitance Retention Using N-doped Activated Carbon Fibres as Electrodes in Electrochemical Supercapacitors <i>D.Cazorla-AMORÓS¹*</i> , David Salinas-TORRES ¹ , Soshi SHIRAIISHI ² , Emilia MORALLÓN ¹ (¹ Alicante University, Spain, ² Gunma University, Japan)
POT6-70	Methane Clathrate Formation in Carbon Nanopores <i>Joaquín SILVESTRE-ALBERO¹, Mirian CASCO¹, Manuel MARTINEZ-ESCANDELL¹, Francisco RODRÍGUEZ-REINOSO¹*</i> (Alicante University, Spain)
POT6-71	Preparation of SiOx-Coated Carbon NanoFibers and Their Durability Test for the Fuel Cell Catalyst Supports <i>Jin-Sung JANG^{1,2}, Dong-Hyun PECK², Doo-Hwan JUNG^{1,2}*</i> (¹ University of Science & Technology (UST), ² Korea Institute of Energy Research (KIER), Korea)
POT6-72	The Size Controlled LiFePO4/Reduce Graphene Oxide (RGO) Microspheres for High-Rate Lithium Ion Batteries <i>Myeong-Seong KIM¹, Jong-Pil JEGAL¹, Kwang-Bum KIM¹*</i> (Yonsei University, Korea)
POT6-73	Effect of Silica in Carbon Supported Catalysts Prepared from Rice Husk for DMFC <i>Yilhoon YI^{1,2}, Jiyoung KIM^{1,3}, Doo-Hwan JUNG^{1,3}, Se-Young CHO², Dong-Hyun PECK¹*</i> (¹ Korea Institute of Energy Research, ² Yonsei university, ³ University of Science and Technology, Korea)
POT6-74	Catalytic Effects of Carbon-Metal Composite Electrode for High-Performance Vanadium Redox Flow Battery <i>Se-jun PARK¹, Hyeong-su KIM¹, Ho-jung HWANG¹, Young-hwan CHU², Yong Gun SHUL¹*</i> (¹ Yonsei University, ² Sangji University, Korea)
POT6-75	Self-Assembled Fe3O4 Nanoparticle Clusters as High-Performance Anodes for Lithium Ion Batteries via Geometric Confinement <i>Soo Hong LEE, Seung-Ho YU, Yung-Eun SUNG*, Taeghwan HYEON*</i> (Seoul National University, Korea)
POT6-76	Nitrogen-doped Carbon Aerogel Electrodes for Hybrid Supercapacitor <i>Min Eui LEE¹, Young Soo YUN², Se Youn CHO¹ and Hyoung-Joon JIN¹,*</i> (¹ Inha University, ² Seoul National University, Korea)
Presentation No.	T7: Analysis, Characterization, Computation and Modelling of Carbons
POT7-16	Densities and Microstructures with Varying Viscosity of Impregnant for Bulk Graphite Production <i>SangMin LEE, DongSu KANG, JaeSeung ROH*</i> (Kumoh National Institute of Technology, Korea)
POT7-17	Removal of Friction-Noise of Natural Graphite/Polyamide Composite with Varying Amounts of Graphite Powder <i>Ji Hoon JUNG, Dong Su KANG, Jae Seung ROH*</i> (Kumoh National Institute of Technology, Korea)
POT7-18	Microstructure Changes of Hollow Carbon Balls with Varying Carbonization Temperatures <i>Dong Su KANG, Sung Moon OH, Jea Seung ROH*</i> (Kumoh National Institute of Technology, Korea)
POT7-19	Thermal Emissivity Changes by Elimination of Binder of Graphite Paste Which was Coated on Al Substrate <i>Dong Su KANG¹, Woo Suk KIM², Heui Sook CHO², Ho Yeon JEON², Jae Seung ROH¹*</i> (¹ Kumoh National Institute of Technology, ² Carbolab co., Ltd., Korea)
POT7-20	The Particle Size Paradox <i>J. G. Saad*</i> (Micromeritics Instrument Corp., USA)
POT7-21	Space Structural Analysis of Porous Carbons by Transmission Electron Microscopy and Image Analysis <i>Kyoichi OSHIDA¹*</i> , Masahiko MURATA ¹ , Misako YAJIMA ¹ , Tatsuo NAKAZAWA ² , Toshimitsu HATA ³ , Yoshiyuki SUDA ⁴ , Takuya HAYASHI ² , Morinobu ENDO ² (¹ Nagano National College of Technology, ² Shinshu University, ³ Kyoto University, ⁴ Toyohashi University of Technology, Japan)
POT7-22	Mechanism of Microwave Heating of Solid Carbons <i>Teawon KIM¹, Kun-Hong LEE¹*</i> (POSTECH, Korea)
POT7-23	Influence of the Surface Oxygen Content of the Material on the Specific Interactions Taking Place at the First Stages of Water Sorption <i>Leticia F. VELASCO¹*</i> , Didier SNOECK ² , Arn MIGNON ² , Sandra VAN VLIERBERGHE ² , Peter DUBRUEL ² , Nele DE BELIE ² , Peter LODWYCKX ¹ (¹ Royal Military Academy, ² Ghent University, Belgium)

Carbon2014_Poster Presentation_Day 2_July 3 (Thu)

POT7-24	Redistribution of Mixture of Organic Vapors inside an Activated Carbon Filter <i>Inna BEREZOVSKA¹*</i> , <i>Thierry SALMON²</i> , <i>Dominique TOYE²</i> , <i>Peter LODEWYCKX¹</i> (<i>1 Royal Military Academy, 2 University of Liege, Belgium</i>)
POT7-25	Approximation of Properties of the Synthesized Carbon Nanoparticles on Natural Substance Containing Carbon <i>V.A.GLAGOLEV</i> , <i>T.A. SHABANOVA*</i> (<i>Satpaev Institute of Geological Sciences, Kazakhstan</i>)
POT7-26	Carbon Containing Materials Synthesized On the Basis of Mechanically Activated Commercial “Taurit” <i>Glagolev B.A.²</i> , <i>Mansurov Z.A.¹</i> , <i>Mofa N.N.¹</i> , <i>Orashbaev M.T.³</i> , <i>Sadykov B.S.¹</i> , <i>Shabanova T.A.^{2*}</i> (<i>¹Combustion Problems Institute, ²Satpaev Institute of Geological Sciences, ³Koksu mining company LLC, Kazakhstan</i>)
POT7-27	Reconciling TPD and XPS Analysis for an Activated Carbon <i>Mark J. BIGGS¹*</i> , <i>Saeid SEDGHI¹</i> , <i>Cheng HU¹</i> , <i>S. Hadi MADANI²</i> , <i>Silvestre-ALBERO³</i> , <i>Chee W. KWONG¹</i> , <i>Phillip PENDLETON²</i> , <i>Ronald J. SMERNIK¹</i> , <i>Francisco RODRÍGUEZ-REINOSO³</i> , <i>W. SKINNER²</i> (<i>¹The University of Adelaide, ²University of South Australia, Australia, ³Universidad de Alicante, Spain</i>)
POT7-28	Raman and Transmission Electron Microscopy Investigations for Carbonization of Kapton Polyimide by Microwave Plasma Irradiation <i>Zhipeng WANG¹*</i> , <i>Hironori OGATA²</i> , <i>Shingo MORIMOTO¹</i> , <i>Takuya HAYASHI¹</i> , <i>Masatsugu FUJISHIGE¹</i> , <i>Kenji TAKEUCHI¹</i> , <i>Yoshio HASHIMOTO¹</i> , <i>Morinobu ENDO¹</i> (<i>¹Shinshu University, ²Hosei University, Japan</i>)
POT7-29	Putting the Chemistry into Virtual Porous Carbon Models <i>Mark J. BIGGS*</i> , <i>Luis Herrera DIAZ</i> (<i>The University of Adelaide, Australia</i>)
POT7-30	Causes of High and Stable Electrical Conductivity in Graphite Intercalation Compounds Prepared from Flexible Graphite Sheets <i>Rika MATSUMOTO¹*</i> , <i>Yusuke OKABE¹</i> , <i>Noboru AKUZAWA²</i> (<i>¹Tokyo Polytechnic University, ²Tokyo National College of Technology Japan</i>)
POT7-31	Quantum Chemistry of Lithium-Graphene Interactions: Catalytic Activity of the Phenolate <i>Adolfo SALGADO¹</i> , <i>Ljubisa R. RADOVIC^{1,2}*</i> (<i>¹University of Concepción, Chile, ²Penn State University, USA</i>)
POT7-32	Characterisation of Graphitisation Process in Ion Implanted Diamond <i>S. RUBANOV¹*</i> , <i>V.P. POPOV²</i> , <i>V.A. ANTONOV²</i> , <i>L.N. SAFRONOV²</i> , <i>I.N. KUPRIYANOV³</i> , <i>Yu.N. PAL'YANOV³</i> (<i>¹University of Melbourne, Australia, ²Rhzanov Institute of Semiconductor Physic, ³Sobolev Institute of Geology and Mineralogy, Russia</i>)