CARBON 2008 Conference Program (Tentative 08.04.09)

Poster Sessions MONDAY. JULY 14, 2008

18:30 – 21:00 POSTER SESSION 1

Hotel Metropolitan Room Asama C: 14P-I

ENVIRONMENT AND ENERGY

14P-I-1 Applied Study of Carbon Fibers Biofilm Carriers in Two-phase Anaerobic Reactors
Zhaokun Ma[1], Hui Song[1], Jieying Liang[1], Jie Liu[1] ([1]Beijing Univ. of Chemical Technology, China)

14P-I-2 Sowing Fossil Hydrocarbons to Offset Global Warming
Jorge Laine (I.V.I.C., Venezuela)

14P-I -3 Adsorption of Methane over Activated Carbons at 50 Bar Pressure
Tamas Szabo[1], Daniel Sebok[1], Agnes Patzko[1], András Erdohelyi[1], Imre Kiricsi1, Imre Dekany[1] ([1]Univ. of Szeged, Hungary)

14P-I-4 Adsorption of Dibenzothiophene on Activated Carbons in Hydrocarbon Solvents
Seiji Kumagai[1], Hirotaka Ishizawa[1], Junya Sasaki[1], Koichi Takeda[1], Yasuhiro Toida[1] ([1]Akita Prefectural Univ., Japan)

14P-I-5 Molecular Sieving Property of Porous Carbon Prepared from Phenol-formaldehyde Resin
Takumi Nishii[1], Takefumi Ishikura[1], Jun'ichi Hayashi[2] ([1]Tokyo Gas Co. Ltd, Japan) ([2]Kansai Univ., Japan)

14P-I-6 VOCs Removal Using Activated Carbon: Effect of Porosity and Surface Chemistry
Joaquin Silvestre-albero[1], Ana Maria Silvestre-Albero[1], Zinap Abdelouahab-Reddam[1], Antonio Sepúlveda-Escribano[1], Francisco Rodríguez-Reinoso[1] ([1]Univ. de Alicante, Spain)

14P-I-7 The Diamond Like Carbon (DLC) Deposited on Metal Plate for Polymer Electrolyte Membrane (PEM) Fuel Cell Bipolar Plate
Yu-Lin hsin[1] ([1]Industrial Technology Research Institute, Taiwan)

14P-I-8 Fullerene Derivatives in PEMFC Electrocatalyst
Hiroshi Shioyama[1], Atsushi Ueda[1], Nobuhiro Kuriyama[1] ([1]AIST, Japan)

14P-I-9 Preparation of Activated Carbons from a Food Waste of Carbohydrate and their Electrochemical Performance
Yutaka Kaburagi[1], Yuji Hattori[1], Akira Yoshida[1] ([1]Musashi Institute of Technology, Japan)

14P-I-10 Characterization of Lithium-Ion Cell Based on Carbonized Wood Sintered under High Pressure
Toshimitsu Hata[1], Yasin Eker[2], Sylvie Bonnamy[2], François Béguin[2] ([1]Kyoto Univ., Japan) ([2]CNRS-Univ., France)

14P-I-11 Structure and Thermoelectric Properties of Porous SiC from Carbonized Wood
Masashi Fujisawa[1], Toshimitsu Hata[2], Hiroyuki Kitagawa[3], Paul Bronsveld[4], Yasuji Kurimoto[1], Yuji Imamura[2] ([1]Akita Prefectural Univ., Japan) ([2]Kyoto Univ., Japan) ([3]Shimane Univ., Japan) ([4]Univ. of Groningen, Netherlands)

14P-I-12 Effect of the Humidity on the Photocatalytic Oxidation of VOC at Low Concentration
Maria Angeles Lillo-Rodenas [1], Nadia Bouazza[1], Ange[1] Linares-Solano[1] ([1]Univ. of Alicante, Spain)

14P-I-13 Effect of N, B, F and C Doping of Titanium Dioxide Prepared by Sol-gel Process on the Photodegradation
Sang Jin Kim[1], Ji-Sun Im[1], Young-Seak Lee[1] ([1]Chungnam National Univ., Korea)

14P-I-14 Formation Mechanism of Polycyclic Aromatic Hydrocarbons in the Benzene Flame: Density Functional Tight Binding Molecular Dynamics Simulations
Biswajit Saha[1], S. Irle[2], K. Morokuma[1] ([1]Kyoto Univ., Japan) ([2]Nagoya Univ., Japan)

14P-I-15 High Activity PtRu Supported on Mass-Produced Multi-Walled Carbon
Nanotubes for the Anode of Direct Methanol Fuel Cells
In Young Jang[1],Yong Jung Kim[1], Ki Chul Park[1], Morinobu Endo[1] ([1]Shinshu Univ., Japan)

ADSORPTION, SURFACES AND POROUS MATERIALS

14P-I-16 A Study of Adsorption-desorption Mechanism of Ions in Electrosorption Desalination
Hirokazu Oda[1], Takaya Nakamura[1], Masaki Yamamoto[1], Kohei Mizutaki[1] ([1]Kansai Univ., Japan)

14P-I-17 Porous Carbons From Poly(p-phenylene Benzobisoxazole)
Juan M. D. Tascon[1], Beatriz Vazquez-Santos[1], Amelia Martinez-Alonso[1], ([1]Instituto Nacional of Carbon, CSIC,

Spain)

14P-I-18 PPTA-Derived Activated Carbon Fibers. Effect of Phosphoric Acid as an Additive in their Preparation
Alberto Catro-Muniz[1], Yong J Kim[2], Morinobu Endo[2], Amelia Martínez-Alonso[1], Juan M D Tascón[1] ([1]Instituto Nacional of Carbon, Spain) ([2]Shinshu Univ., Japan) (CSIC, Spain)

14P-I-19 NO Adsorption on Activated Carbon Fibers from Iron-containing Pitch
Maria Angeles Lillo-Rodenas[1], Juan Alcańiz-Monge[1], Agustin Bueno-Lopez[1], Maria Jose Illan-Gomez[1] ([1]Univ. of Alicante, Spain)

14P-I-20 Preparation of Electrode for EDLC from Commercial Activated Carbon
Ikpyo Hong[1], Jingyu Wu[2], Sei-Min Park[3], Seong-Young Lee[3], Myung-Soo Kim[2] ([1]Research Institute of Industrial Science & Technology, Korea) ([2] Myongji Univ., Korea) ([3]RIST, Korea)

14P-I-21 Effect of Pyrolysis Conditions on the Porosity of PPTA-derived Activated Carbon Fibers
Alberto Castro-Muniz[1], Amelia Martínez-Alonso[1], Juan M D Tascon[1], ([1]Instituto Nacional of Carbon, CSIC, Spain)

14P-I-22 Ab Initio and Density Functional Theory Potential Energy Curves for the Reaction of Atomic Hydrogen with Coronene
Ying Wang (Nagoya Univ., Japan)

14P-I-23 Heat-treated Phthalocyanines as Surrogate Carbon Catalysts: Initial Insights into Oxygen-transfer Catalysis
Fernando E. Vallejos-Burgos[1], Shigenori Utsumi[2], Yoshiyuki Hattori[3], Ximena Garcia[1], Alfredo L Gordon[1], Katsumi Kaneko[2], Hirofumi Kanoh[2], Ljubisa R Radovic[4] ([1]Univ. de Concepcion, Chile) ([2]Chiba Univ., Japan) ([3]Shinshu Univ., Japan) ([4]Penn State University, USA)

14P-I-24 Surface Modification of Graphite by Dielectric Barrier Discharge Plasma
Juan M. D. Tascon[1], Pablo Solis-Fernandez[1], Juan I. Paredes[1], Amelia Martinez-Alonso[1] ([1]Instituto Nacional del Carbon, CSIC, Spain)

14P-I-25 Stable Dispersion of Graphite Nanoplatelets in Organic Solvent
Wei Tong (Harbin Engineering Univ., China)

14P-I-26 Relaxation of Porous Hard Carbons Upon Water Adsorption
Gudrun Reichenauer[1], Philipp Eitelwein[1], Stefan Braxmeier[1], Christian Scherdel[1] ([1]Bavarian Center for Applied Energy Research, Germany)

14P-I-27 Synthesis and Properties of Amorphous Carbon Material for Various Application
Alexey P. Kozlov[1], Chingiz N. Barnakov[1], Zinfer R. Ismagilov[2], Mikhail A. Kerzhentsev[2] ([1]Institute of Coal and Coal Chemistry SB RAS, Russia) ([2]Boreskov Institute of Catalysis SB RAS, Russia)

14P-I-28 Graphite Oxide Based Materials as Adsorbents of Small Molecule Gases
Teresa J Bandosz[1], Mykola Seredych[1] ([1]The City College of New York, USA)

NANOTUBES

14P-I-29 External Electric Field Fnhancement by Carbon Nanotubes
Leonid Grigorian[1], Alex E Moser[1] ([1]YTC America Inc., USA)

14P-I-30 The Influence of Carbon Support on the Structure and the Productivity of Carbon Nanofibers
Ali Rinaldi[1], Jean-Philippe Tessonnier[1], Norly Abdullah[2], Dang Sheng Su[1], Robert Schlögl[1], Sharifah Bee Abdul Hamid[2] ([1]Fritz-Haber-Institut der Max-Planck- Gesell-schaft, Germany) ([2]Combicat University Malaya, Malaysia)

14P-I-31 A Facile Method for Fe_3O_4 on Carbon Nanotubes
Yunfang Liu[1], Bo Liu[1], Weidong Chi[1], Zengmin Shen1, Lin Hu[1] ([1]Beijing Univ. of Chemical Technology, China)

14P-I-32 Dispersion of MWCNT with and without Polyaniline for Transparent Conductive Thin Layer
Teruya Goto[1], Hiroki Arai[1], Hiroshi Awano[1], Tatsuhiro Takahashi[1], Koichiro Yonetake[1], Osamu Haba[1], Noriyuki Kuramoto[1] ([1]Yamagata Univ., Japan)

14P-I-33 Microwave Absorption and Complex Permittivity and Permeability of Continuous Ni-layer Coated Carbon Nanotubes
Dong-Lin Zhao[1], Zeng-Min Shen[1] ([1]Beijing Univ. of Chemical Technology, China)

14P-I-34 Synthesis of Highly Aligned Carbon Nanotubes by One-step Process in Liquid-phase
Kiyofumi Yamagiwa[1], Yoshihiro Yamaguchi[1], Tsuneharu Takeuchi[1], Morihiro Saito[1], Jun Kuwano[1] ([1]Tokyo Univ. of Science, Japan)

14P-I-35 Fabrication of Carbon Nanotube Reinforced Aluminium Alloy Composites by High Pressure Die Casting
Qianqian Li[1], Christian A. Rottmair[1], Robert F. Singer[1] ([1]Univ. Erlangen-Nuremberg, Germany)

14P-I-36 Structure - Properties - Performance Relationship of Carbon Nanofiber Supported Pt Catalysts
De Chen[1], Ingvar Kvande[1], Magnu Rřnning[1] ([1]NTNU, Norway)

14P-I-37 Synthesis of Platinum Nanowire Networks Using a Carbon Nanotube Template
Jong Hak Lee[1], Sung Min Park[1], Do-Yoon Kim[1], Jae-Hong Park[1], S. P. Patole[1], Ji Beom Yoo[1] ([1]Sungkyunkwan Univ., Korea)

14P-I-38 Process Gas Species Induced Structural Effects on Carbon Nanotube Growth
Fumitaka Ohashi[1], Guan Yow Chen[2], Vlad Stolojan[3], Ravi Silva[3] ([1]Univ. of Surrey, United Kingdom) ([2]Surrey Nanosystems, United Kingdom) ([3]Advanced Technology Institute, United Kingdom)

14P-I-39 Novel Self-templated Growth Mode in Catalytic Synthesis of Carbon Nanostructures
Tiejun Zhao[1], Jun Zhu[2], Zhixin Yu[1], Ingvar Kvande[1], De Chen[1], Xinggui Zhou[2] ([1]Norwegian Univ. of Science and Technology, Norway) ([2]East China University of Science and Technology, China)

14P-I-40 Catalytic Growth of Carbon Nanofibers Using Co-precipitated Ni-Mg and Co-Mg Catalysts
Ting-Yu Wu (Tatung Univ., Taiwan)

14P-I-41 A Simple Method to Prepare Carbon Nanotube Film by Inkjet Printing
Fan Zhuang Jun (Harbin Engineering Univ., China)

14P-I-42 Effect of Carbon Dioxide on Carbon Nanotube growth in Chemical Vapor Deposition using Methane Gas
Yoshiyuki Suda[1], Junichi Takayama[1], Atsushi Okita[1], Junji Nakamura[2], Yosuke Sakai[1], Hirotake Sugawara[1] ([1]Hokkaido Univ., Japan) ([2]Univ. of Tsukuba, Japan)

14P-I-43 Manufacturing and Properties of Carbon Nanotube Actuator
Yong Chae Jung[1], Hyang Hwa So[2], Hye Jin Yoo[2], Jae Whan Cho[2] ([1]Shinshu Univ., Japan) ([2]Konkuk Univ., Korea)

14P-I-44 Surface Functionalisation of Multi-Walled Carbon Nanotubes
Aurik Andreu[1], Robert H Bradley[1], Rodney Andrews[2], Mark S Meier[2] ([1]The Robert Gordon Univ., United Kingdom) ([2]Univ. of Kentucky, USA)

14P-I-45 Electroactive Shape Memory Effect of Polyurethane-carbon Nanotube Nanocomposites
Yong Chae Jung[1], Sun Young Lee[2], Hyun Hee Kim[2], Jae Whan Cho[2] ([1]Shinshu Univ., Japan) ([2]Konkuk Univ., Korea)

14P-I-46 Boron Nitride Microtubes Exhibiting Intense Near-band-gap UV Emission
Yang Huang[1], Yoshio Bando[1], Chengchun Tang[2], Chunyi Zhi[2], Takeshi Terao[1], Takashi Sekiguchi[1], Dmitri Golberg[1] ([1]Univ. of Tsukuba, Japan) ([2]Nanoscale Materials Center, Japan)

14P-I-47 Carbon Nanotubes Inhibit Cell Proliferation by Adsorption of Essential Micronutrients from Cell Culture Medium
Robert H Hurt[1], Lin Guo[1], Annette Von Dem Bussche[1], Agnes Kane[1] ([1]Brown Univ., USA)

14P-I-48 TPGS – an Active Antioxidant Surfactant for Green Processing of Carbon Nanotubes and Fullerenes
Robert H Hurt[1], Aihui Yan[1], Annette Von Dem Bussche[1], Agnes Kane[1] ([1]Brown Univ., USA)

14P-I-49 Structures of Activated Carbon Nanotubes Prepared by Two-step Activation
Yunfang Liu[1], Bo Liu[1], Weidong Chi[1], Zengmin Shen[1] ([1]Beijing Univ. of Chemical Technology, China)

14P-I-50 Determination of Functional Groups after Nitric Acids Oxidation of Multi-walled Carbon Nanotubes and the Significance of Fulvic Acids
Zhaowei Wang[1], Raymond L.D. Whitby[1], Steven T. Meikle[1], Sergey V. Mikhalovsky[1] ([1]Univ. of Brighton, United Kingdom)

14P-I-51 The Preparation and Characteristics of Oxyfluorinated MWCNT/epoxy Composites by E-beam Irradiation Cure Method
Seok-Min Yun[1], Ju-Wan Kim[1], Young-Seak Lee[1] ([1]Chungnam National Univ., Korea)

NANOFORMS

14P-I-52 Growth of Carbon Nanofibers on Carbon Fiber Cloth Using Electrodeposited Catalysts
Shinn-Shyong Tzeng[1], Po-Kai Chuang[1], Mei-Hsueh Nien[1] ([1]Tatung Univ., Taiwan)

14P-I-53 Difference of the Pre-oxidation Mechanism between Electrospun PAN Fibers and Common PAN Fibers
Jie Liu[1], Peixun ZHOU[1], Hao FENG[2], Zhaokun Ma[1], Jieying Liang[1] ([1]Beijing Univ. of Chemical Technology, China) ([2]South Dakota School of Mines and Technology Rapid City, USA)

14P-I-54 Orbicular Graphite in Oshirabetsu, Hokkaido, Japan
Chuan Xiu Yun (Peking Univ., China)

14P-I-55 Synthesis and Photocataytic Effects for the Pt-Fullerene/TiO_2 Composites Derived from Pt Treated Fullerene and TNB
Won-Chun-Oh[1], Ah-Reum Jung[1], Weon-Bae Ko[2]
([1]Hanseo Univ., Korea) ([2]Sahmyook Univ., Korea)

14P-I-56 Solution Synthesis of Carbon Nanoparticles from Deoiled Asphalt
Xuguang Liu[1], Hairong Wen[1], Yongzhen Yang[1], Wenfang Ren[1], Xingmei Guo[1], Bingshe Xu[1]
([1]Taiyuan Univ. of Technology, China)

14P-I-57 Hollow Carbon Nanospheres Prepared by Carbonizing PMMA/PAN Core-shell Polymer Particles
Wenming Qiao[1], Guangzhi Yang[1], Risheng Xu[1], Licheng Ling[1], Junhe Yang[2] ([1]East China Univ. of Science and Technology, China) ([2]Shanghai Institute of Technology, China)

14P-I-58 Template Synthesis of Cross-linked Fullerene like Nanocarbon with Three-dimensional Regularity

Hirotomo Nishihara[1], Katsuaki Imai[1], Juan I Paredes[2], Amelia Martínez-Alonso[2], Juan M.D. Tascón[2], Takashi Kyotani[1] ([1]Tohoku Univ., Japan) ([2]Instituto Nacional del Carbón, Spain)

14P-I-59 Preparation of Carbon-encapsulated Iron Nanoparticles from Mesophase Pitch and Ferrocene
Huaihe Song[1], Wentao Lian[1], Huaihe Song[1], Xiaohong Chen[1], Junping Huo[1] ([1]Beijing Univ. of Chemical Technology, China)

ELECTOROCHEMISTRY, BATTERIES AND CAPACITORS

14P-I-60 Electrochemical Properties of Surface Fluorinated Graphite in Propylene Carbonate Containing Solvent
Takashi Achiha[1], Takashi Achiha[1], Seiko Shibata[1], Tsuyoshi Nakajima[1], Yoshimi Ozawa[1], Alain Tressaud[2], Etienne Durand[2] ([1]Aichi Institute of Technology, Japan) ([2]Université Bordeaux I, France)

14P-I-61 Preparation and Performances of Pitches-based Carbon Aerogel Electrodes for the Application of Electrochemical Capacitor
Ruowen Fu[1], Guifen Lv[1], Dingcai Wu[1] ([1]Sun Yat-sen Univ., China)

14P-I-62 Pre- and Post-Combustion Carbon Capture Using Latent Porous Crystal Copper-Organic Framework Adsorbents
Christian M Lastoskie[1], Christian M Lastoskie[1], Craig M Tenney [1], Tran D Trinh[1],Katsumi Kaneko[2] ([1]Univ. of Michigan, USA)([2]Chiba Univ., Japan)

14P-I-63 Performance of B-C and B-C-N Composites as Electrodes for Electrochemical Capacitors
Hidetaka Konno[1], Teruhiko Ito[1] ([1]Hokkaido Univ., Japan)

14P-I-64 Concerning of More Precise System to Clarify the Size Effect on Capacitance Uptake of Supercapacitors
Yong Jung Kim[1], Cheol-Min Yang[2], Masaaki Kitani[1], Tsuyoshi Kodama[1], Keita Higuchi[1], Naohiro Aoyama[1], Takayuki Oka[1], Akane Kobayashi[1], Morinobu Endo[1]
([1]Shinshu Univ., [2]Chiba Univ., Japan)

14P-I-65 Influence of the Electrolyte on Capacitive Properties of the C/N Materials Prepared by Pyrolysis of Organic Molecular Crystals
Yoshiki Hayashi[1], Youichi Yano[1], Masayuki Kawaguchi[1]
([1]Osaka Electro-Communication Univ., Japan)

14P-I-66 Charge/discharge Properties of Chars Derived from the Polyimide Containing Hetero-atoms
Hidetaka Konno[1], Mariko Ushiro[1], Atsuo Yoneda[1]
([1]Hokkaido Univ., Japan)

14P-I-67 Single-walled Carbon Nanotubes with High Surface Area and Their Capacitor Properties
Osamu Kimizuka[1], Susumu Saeki[1], Yoshio Yamada[1], Osamu Tanaike[2], Junya Yamashita[2], Futaba Don[2], Kenji Hata[2], Hiroaki Hatori[2], Kenji Machida[3], Shunzo Suematsu[3], Kenji Tamamitsu[3] ([1]Univ. of Fukui, Japan) ([2]AIST, Japan) ([3]Nippon Chemi-Con Corporation, Japan)

14P-I-68 Structure and EDLC Performance of Oxidized Carbons and Pyrolized Carbons
Ick Jun Kim[1], Sunhye Yang[1] Min Je Jeon [1], Seong In Moon[1], Hyun Soo Kim[1], Kye Hyeok An[2] ([1]Korea Electrotechnology Research Institute, Korea) ([2]Jeonju Machinery Research Center, Korea)

14P-I-69 Influence of Metal Plating Treatment in the Electrochemical Performance of Activated Carbon Fabric Electrodes for Electrical Double Layer Capacitors
Yongming Tian[1], Yan Song[1], Yu Geng[1], Zhihong Tang[1], Quangui Guo[1], Lang Liu[1] ([1]Institute of Coal Chemistry, Chinese Academy of Sciences, China)

14P-I-70 Anode Performance of Poly(p-phenylene terephthalamide)-based Carbon Electrodes as Secondary Li Ion Battery
Alberto Castro-Muniz[1], Yong J Kim[2], Morinobu Endo[2], Amelia Martínez-Alonso[1], Juan M D Tascón[1]
([1]Instituto Nacional of Carbon, Spain) ([2]Shinshu Univ., Japan)

14P-I-71 Graphite with Enhanced Surface Area for Capacitor Electrode
Yasushi Soneda[1], Hiroaki Hatori[1] ([1]AIST, Japan)

14P-I-72 Structural and Electrochemical Characteristics of Hard-carbon Particles Coated with Pyrocarbon at Several Temperatures
Yoshimi Ohzawa[1], Hideki Sakakibara[1], Tsuyoshi Nakajima[1]
([1]Aichi Institute of Technology, Japan)

14P-I-73 Electrochemical Property of Sulfur-Containing Carbon Microsphere
Miyuki Arai[1], Michiya Ota[1], Takanori Tago[1], Yoshihiro Takizawa[1], Masaya Kodama[2]
([1]Gunma College of Technology, Japan) ([2]AIST, Japan)

14P-I-74 The Effect of Surface Functional Groups of Porous Carbon Materials on Its Electrochemical Properties
Yanhong Tian[1], Jiaoping Yang[1]
([1]Beijing Univ. of Chemical Technology, China)

CARBON FIBERS AND COMPOSITES

14P-I-75 Silicon Carbide and Carbon Open-cell Foams: CVD Processing and Characterization
Sophie Delettrez[1], Sophie Delettrez[1], Francis Langlais[1], Georges Chollon[1], Gerard Vignoles[1] ([1]LCTS, France)

14P-I-76 Fabrication of Carbon Nano-fiber/alumina Composites by Vacuum Sintering and Hot Isostatic Pressing

Seiichi Taruta[1], Tomohiro Yamaguchi[1], Kunio Kitajima[1], Yuki Usui[1], Kaoru Aoki[1], Morinobu Endo[1], Naoto Saito[1] ([1]Shinshu Univ., Japan)

14P-I-77 Effect of Impregnating Precursor and Carbonization Temperature on Tribological Behavior of Carbon -Carbon Composites
Kuo-Jung Lee[1], Min-Jet Tsai[1], Huy –Zu Cheng[1] ([1]I-SHOU Univ., Taiwan)

14P-I-78 Hydrophylic Ordered Mesoporous Carbon Materials and Their Surface Functionalization
Maria M Titirici[1], Rezan Demir-Cakan[1], Farnoosh Rohi[1], Markus Antonietti[1] ([1]Max-Planck Institute for Colloids and Interfaces, Germany)

14P-I-79 The Problems of Intercalation of Nanographites -Structural Blocks of Activated Carbons
Albert M. Ziatdinov (Far-East Branch of the Russian Academy of Sciences, Russia)

14P-I-80 Influence of Gas Partial Pressure on the Density and Texture of C/C Composites Prepared by Microwave Pyrolysis Chemical Vapor Infiltration
Jizhao Zou[1], xierong zeng[1], xiaohua li[1], xinbo xiong[1] ([1]Shenzhen Univ., China)

14P-I-81 Oxidation Behavior of SiC/$LaCrO_3$ Multi-layer Coated Carbon/Carbon Composites at 1650ºC
Long Li[1], Xierong Zeng[1], Xinbo Xiong[1], Shenghui Xie[1], Jizhao Zou[1] ([1]Shenzhen Univ., China)

14P-I-82 Investigation of Stress Graphitization of Carbon-Carbon Composites using Raman Spectroscopy
Shinn-Shyong Tzeng[1], Yu-Hun Lin[1], Horng-Yu Lin[2], Mei-Hsueh Nien[1], Jin-Chein Lin[2] ([1]Tatung Univ., Taiwan) ([2]Technology and Science Institute of Northern Taiwan, Taiwan)

14P-I-83 Study on the Electrical Conductivity of Copper-coated Graphite Fibers
Zechao Tao (Institute of Coal Chemistry, Chinese Academy of Sciences, China)

14P-I-84 Silicon Carbide Foams Produced by Siliciding Carbon Foams Derived From Mesophase Pitch
Yu Yang[1], Quangui Guo[1] ([1]Institute of Coal Chemistry, Chinese Academy of Sciences, China)

14P-I-85 Thermal and Nanomechanical Characteristics of Multi-walled Carbon Nanotubes Reinforced PLA Nanocomposites
Sheng-Rui Jian[1], I-Ju Teng[2], Cheng-Tzu Kuo[3], Wei-Ming Chiu[4] Huy-Zu Cheng[1] ([1]I-Shou Univ., Taiwan) ([2]National Chiao Tung Univ., Taiwan) ([3]Ming Dao Univ., Taiwan) ([4]National Chin-Yi Univ., Taiwan)

14P-I-86 Study on Effect of Electrochemical Oxidation Modification on Physical and Chemical State of Carbon Fiber Surface
YuLi Tian[1], Jie Liu[1] Yujia Chen[1] Jieying Liang[1], Zhaokun Ma[1] ([1]Beijing Univ. of Chemical Technology, China)

14P-I-87 Carbon Nanotube Inorganic Nanowires Core-shell Heterostructures: Synthesis, Properties and Prospects
Ujjal K. Gautam[1], Yoshio Bando[1], Pedro M. F. J. Costa[1], Dmitri Golberg[1] ([1]National Institute for Materials Sciences, Japan)

14P-I-88 The Effect of Tension on PAN-based Stabilization Fiber During Low Temperature Carbonization
Jie Liu[1], Feng Lian[1], Zhaokun Ma[1], jieying liang[1] ([1]Bbeijing Univ. of Chemical Technology, China)

14P-I-89 Effect of Modification of Electrolyte Temperature on Surface Properties Carbon Fiber
Jie Liu[1], Yujia Chen[1], Yuli Tian[1], Jieying Liang[1], Zhaokun Ma[1] ([1]Beijing Univ. of Chemical Technology, China)

14P-I-90 Lasersynthesized Nanocarbons in Some Polymerbased Composites for Industrial Applications)
Ion Voicu[1], Lavinia Gavrila-Florescu[1], Iuliana Soare[1], Ion Sandu[1], Ion Dinca[1], Constantin Serghie[1], Liviu Dumitrache[1], Zina Vuluga[1], Gabriel Prodan[2], Ion Morjan[1], Ion Voicu[1] ([1]National Institute for Lasers, Plasma and Radiation Physics, Romania) ([2]Ovidius Univ. of Constanta, Romania)

14P-I-91 The Effect of Oxidized PAN Fiber Modification on the Structure and Properties of Carbon Fiber
Jie Liu[1], Xiaoguang Sun[1], Zhaokun Ma[1], jieying liang[1] ([1]Beijing Univ. of Chemical Technology, China)

14P-I-92 Methane Storage Using Chemically Activated Electrospun Carbon Fibers
Min-il Kim[1], Ji-Sun Im[1], Young-Seak Lee[1] ([1]Chungnam National Univ., Korea)

14P-I-93 ESR of Activated Carbon Fibers with Different Sorbates
Maxim A, Ziatdinov[1], Vladimir V. Kainara[1] ([1]Institute of Chemistry, Far-East Branch of the Russian Academy of Sciences, Russia)

14P-I-94 The Investigation of Nylon-12/Carbon Black Nano Composites for High Temperature Positive Temperature Coefficient
Tsao Keng-Yu[1], Huang Chi-Yuan[1], Tsai Ching-Shan[1] ([1]Tatung Univ., Taiwan)

14P-I-95 The Improvement of Mechanical Strength for LDPCF with Limited Shrinkage During Oxidation
Song Zhao (Institute of Coal Chemistry, Chinese Academy of Sciences, China)

Hotel Metropolitan Room Kurohime: 14P-II

DIAMOND AND GICS

14P-II-1 Intercalation of Potassium into Graphite-like Layered Material of Composition BC_2N
Katsuya Ohnishi[1], Masayuki Kawaguchi[1] ([1]Osaka Electro-Communication Univ., Japan)

14P-II-2 Preparation of Pillared Carbons from Graphite Oxide Silylated by 3-aminopropylethoxysilanes
Yoshimasa Sakai[1], Yoshiaki Matsuo[1], Tomokazu Fukutsuka[2], Yosohiro Sugie[1] ([1]Univ. of Hyogo, Japan) ([2]Kyoto Univ., Japan)

14P-II-3 Graphite Intercalation Compounds as Potential Thermoelectric Materials
Rika Matsumoto[1], Yutaro Hoshina[1], Noboru Akuzawa[1] ([1]Tokyo Polytechnic Univ., Japan)

14P-II-4 Change of Electrical Resistivity of Cathode Graphite during Electrolysis in Alumina Molten Salt
Morio Chiwata[1], Noboru Akuzawa[1], Hayato Nambu[1], Hirosi Imagawa[2] ([1]Tokyo National College of Technology, Japan) ([2]SEC Carbon, Ltd., Japan)

14P-II-5 SR Structure Analysis of New Detonation Nanodiamonds and Method of Their Production
Valery Yurievich Dolmatov[1], Gennadiy Stepanovich Yuriev[2], Marina Viktorovna Veretennikova[3]
([1]FSUP SCTB "Technolog", Russia) ([2]Institute of Inorganic Chemistry SB RAS, Russia) ([3]FSUP SCTB, Russia)

14P-II-6 Scanning Tunneling Microscopy Studies of Superconducting CaC_6
Kaveh C Rahnejat[1], Christopher Howard[1], Benjamin Bryant[1], Katsuya Iwaya[1], Mark Ellerby[1] ([1]Univ. College London/London Centre for Nanotechnology, United Kingdom)

14P-II-7 Structural and Adsorptive Properties of $C_{14}nAsF_6$ Prepared by the Reaction of O_2AsF_6 with Graphitic Carbons
Fujio Okino[1], Shohei Nakamura[1], Yoshiyuki Hattori[1], Masanori Tomita[2], Takashi Yanagisawa[2] ([1]Shinshu Univ., Japan) ([2]GSI Creos Corporation.,Japan)

14P-II-8 Single Nano Size Diamond Separated from Powdered HPHT Diamond
Naoki Komatsu[1], Yo Morita[1], Tatsuya Takimoto[1], Shuji Aonuma[2], Takahide Kimura[1] ([2]Shiga Univ. of Medical Science, Japan) ([2]Osaka Electro.Univ., Japan)

14P-II-9 Synthesis of Ca-GIC Using Various Carbon Materials and its Superconductivity
Asami Takenaka[1], Yoshihiko Takano[2], Noboru Akuzawa[3], Akira Yoshida[4], Yutaka Kaburagi[4], Tomoki Tsumura[1], Masahiro Toyoda[1] ([1]Oita Univ., Japan) ([2]National Institute for Materials Science, Japan) ([3]Tokyo National College of Technology, Japan) ([4]Musashi Institute of Technology, Japan)

BIOLOGICAL AND MEDICAL APPLICATIONS

14P-II-10 Cytotoxicity and Reactivity of Carbon Nanotubes
Yuriy I. Prylutskyy[1], S. V. Prylutska[2], I. I. Grynyuk[2], O.P.Matyshevska[2], O. V.Remenyaka[2], A.P.Burlaka[3] ([1]Kiev National Shevchenko Univ., Ukraine) ([2]Kyiv National Shevchenko University, Dept. of Biochemistry, Kiev, Ukraine) ([3]R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, Kiev, Ukraine)

14P-II-11 Water-dispersible Carbon Nano Test Tubes Including Magnetic Particles ~Towards the Application to Magnetically Targeted Drug Delivery System~
Hironori Orikasa[1], Somlak Ittisanronnachai[2], Xiao-Hui Wang[2], Nobuhiro Inokuma[2], Takashi Kyotani[2], Yoshihiro Uozu[3] ([1]Tohoku Univ., Japan) ([2]Institute for Multidisciplinary Research for Advanced Materials, Tohoku Univ., Japan) ([3]Mitsubishi Rayon Co., LTD., Japan)

14P-II -12 Nanocarbon Materials for Noninstrumental Immunochemical Diagnosticums
Valery Y. Dolmatov[1], Irina Shugalei[2], Nataliya Zhdanova[2], Andrey Ivanov[3], Eiji Osawa[4], Nataliya Rozhkova[5], Veronika Sokolova[2], Tatijana Ilyushina[2], Valery Marchukov[6] ([1]FSUP SCTB "Technolog", Russia) ([2]Saint-Petersburg State Technology Institute (Technical University), Saint-Petersburg, Russia) ([3]Saint-Petersburg Army Medical College, Saint-Petersburg, Russia) ([4]Nanocarbon Research Institute Asama Research Extension Center, Shinshu University, Japan) ([5]Institute of Geology of Karelian scientific center, Russia) ([6]FSUP SCTB, Russia)

14P-II-13 Adsorption of Double-stranded DNAs onto Multi-walled Carbon Nanotubes
Toru Maekawa[1], Koji Ishii[2], Takahiro Fukuda[2], Mio Kojima[2], Akira Inoue[2] ([1]Toyo Univ., Japan) ([2]Bio-Nano Electronics Research Centre, Toyo Univ., Japan)

14P-II-14 Study on the Biocompatibility of SiC Coated Carbon/Carbon Composites in Vitro
Lei lei Zhang[1], He Jun Li, Qian Gang Fu, Xin Tao Li (Northwestern Polytechnical Univ., China)

14P-II-15 Evaluation of Protein Expressions on Multi -walled Carbon Nanotubes by Proteomics Approach
Hisao Haniu[1], Shozo Koyama[1], Yoong Ahm Kim[1], Takuya Hayashi[1], Kenji Takeuchi[1], Morinobu Endo[1] ([1]Shinshu Univ., Japan)

14P-II-16 The Influence of Silver Content and Biologically Active Layers on the Changes of Porous Structure and Sorption Capacity of Carbon Dressing Material
Krzysztof Babel[1], Krzysztof Maria Babel[2], Izabella Krucinska[3], Eulalia Gliscinska[3] ([1]Institute of Chemical

Technology of Wood, Academy of Agriculture, Poland) ([2]Agricultural Academy of Poznan,Poland) ([3]Technical Univ. of Lodz, Poland)

14P-II-17 Sorption of LRS Toxic Shock by Nanoparticles on Base of Carbonized Vegetable Raw Materials
Zulkhair A Mansurov1[1], G Artmann[2], A Artmann[2], I Digel[2], A Zhubanova[3], A Kozhalakova[3] ([1]Institute of combustion problems (al-Farabi Kazakh National Univ., Kazakhstan) ([2]Aachen University of Applied Sciences, Germany) ([3]Al-Farabi Kazakh National Univ,. Kazakhstan)

14P-II-18 New Nanostructural Carbon-silica Sorbent for Bioregulators Purification
Zulkhair A Mansurov[1], A R Kerimkulova[2], M A Biisenbaev[2], S A Ibragimova[3], Zh N Basygaraev[3], M K Gilmanov[3] (Institute of combustion problems ([1]al-Farabi Kazakh National Univ., Kazakhstan) ([2]al-Faraby Kazakh national univ., Almaty, Kazakhstan) ([3]Institute of molecular biology and biochemistry, Almaty, Kazakhstan)

CHARACTERIZATION

14P-II-19 Quantitative and Qualitative Analysis Method of Surface Oxygen on Carbon Materials by Total-Electron-Yield Soft X-ray Absorption Spectroscopy using Synchrotron Radiation
Yasuji Muramatsu[1], Satoshi Ueda1, Keishi Kamamoto[1], Eric Gullikson[2] ([1]Univ. of Hyogo, Japan) ([2]Lawrence Berkeley National Laboratory, USA)

14P-II-20 Structural Analysis of PPP-based Carbons for Electrode of Li Ion Batteries by High Energy X-ray
Kyoichi Oshida[1], Kozo Osawa[1], Tatsuo Nakazawa[1], Katsuyuki Fujiwara[1], Takuya Hasegawa[2] ([1]Nagano National College of Technology, Japan) ([2]Shinshyu Univ., Japan)

14P-II-21 Electrical Resistance and Thermal Diffusivity of Isotropic Graphite Blocks under a High Temperature
Norio Iwashita[1], Fumito Morikawa[2] ([1]AIST, Japan) ([2]Nippon Techno-Carbon Co., Ltd, Japan)

14P-II-22 Multivariate Analysis Applied to Ftir Spectroscopy of Petroleum Pitches
Alexandre T Castro (Centro Tecnológico do Exército, Brazil)

14P-II-23 Raman Frequency of the G Band of Carbon Material as a Parameter for Graphitization
Akira Yoshida[1], Yutaka Kaburagi[1], Yoshihiro Hishiyama[1] ([1]Musashi Institute of Technology, Japan)

14P-II-24 Boron doping of multi-walled carbon nano-tubes as studied by EELS
Emi Shindou[1], Akira Yoshida[1], Yutaka Kaburagi[1], Yoshihiro Hishiyama[1] ([1]Musashi Institute of Technology, Japan)

Poster Sessions TUESDAY, JULY 15, 2008

18:00 – 21:00 POSTER SESSION 2

ENVIRONMENT AND ENERGY

15P-I-1 Comparison of the Emissivity Changes due to Oxidation of Nuclear Graphites IG-11, IG-110 and PCEA
Seung Kuk Seo[1], Gyeong Hwa Kim[1], Jae Seung Roh[1], Se-Hwan Chi[2], Eung Seon Kim[2] ([1]Kumoh National Institute of Technology, Korea) ([2]Korea Atomic Energy Research Institute (KAERI), Korea)

15P-I-2 Measuring Cycle Efficiency and Capacitance of Chemically Activated Carbons
Diego Cazorla-Amoros[1], Dolores Lozano-Castello[2], Emilia Morallon[3], Angel Linares-Solano[2], Soshi Shiraishi[4]([1]Univ. of Alicante, Spain) ([2]Departamento de Quimica Inorganica. Univ. de Alicante., Spain) ([3]Departamento de Quimica Inorganica. Univ. de Alicante, Spain) ([4]Gunma Univ., Japan)

15P-I-3 Activated Carbon Fiber for Super-capacitor Electrode
Xuejun Zhang[1], Qiufei Chen[1] ([1]Beijing Univ. of Chemical Technology, China)

15P-I-4 Capacitive Deionization of NaCl Solution with Carbon Aerogel-phenolic Resin Composite Electrodes
Qing-han Meng[1], Ling Liu[1] ([1]Beijing Univ. of Chemical Technology, China)

15P-I-5 Preparation of Activated Carbon from Industrial Wastewater Treatment Sludge and its Possible Use in Retention of Cr(VI) and Pb (II)
Juan Moreno[1], Liliana Giraldo[2], Nestor Rojas[3], Tomas Uribe[3], Vanessa Garcia[3] ([1]Andes Univ., Colombia) ([2]Universidad Nacional de Colombia, Colombia) ([3]Universidad de Los Andes, Colombia)

15P-I-6 Synthesis of Magnetically Separable Porous Carbon from Oil Residues
Zheng-Hong Huang[1], Can Li[1], Feiyu Kang[1], Jifeng Liang[2], Yuzhen Zhang[2] ([1]Tsinghua Univ., China) ([2]China National Offshore Oil Corporation, China)

15P-I-7 Titania Nanocrystal-bridged Carbon Nanosheet Composites
Zheng-Ming Wang[1], Yong-Jun Liu[1], Mami Aizawa[1], Wen-Qin Peng[1], Hiroaki Hatori[1], Hirofumi Kanoh[2] (National Institute of Advanced Industrial Science and Technology, Japan) ([2]Chiba Univ., Japan)

15P-I-8 Carbon Nanosheet-titania Nanoparticle Composite with Controlled Growth of Single Anatase Phase
Yong-Jun Liu[1], Mami Aizawa[1], Wen-Qin Peng[1], Zheng-Ming Wang[1], Hiroaki Hatori[1], Hirofumi Kanoh[2], Takahiro Hirotsu[1] ([1]National Institute of Advanced Industrial Science and Technology, Japan) ([2]Chiba Univ., Japan)

15P-I-9 Improvement of Soil Quality around Red Pines in Forest by Sowing Biomass Charcoal Powder
Shuji Yoshizawa[1], Satoko Tanaka[1], Teiko Omori[2] ([1]Meisei Univ., Japan) ([2]Toho Univ., Japan)

15P-I-10 Carbon/Graphite Composites from Carbonized Wood for Thermal Management Application of Solar Power Satellite
Joko Sulistyo[1], Toshimitsu Hata[1], Masashi Fujisawa[2], Kozo Hashimoto[1], Yuji Imamura[1] ([1]Kyoto Univ., Japan) ([2]Akita Prefectural University, Japan)

15P-I-11 A New Preparation Method of Carbon-Supported Platinum-Ruthenium Alloyed Nanoparticles for Direct Methanol Fuel Cells
Ki Chul Park[1], Shingo Morimoto[2], Morinobu Endo[1] (Shinshu Univ., Japan) ([2]Nagano Techno Foundation, Japan)

15P-I-12 Density Functional Simulation on Hydrogen Adsorption to Transition-metal-decorated Carbon Nanotube
Syogo Tejima[1], Terumi Huruta[2], Hisashi Nakamura[1] ([1]Research Organization for Information Science and Technology (RIST), Japan) ([2]HONDA R&D Co.,LTD, Japan)

ADSORPTION, SURFACES AND POROUS MATERIALS

15P-I-13 The Effect of Acid Treatment of AECFs on Hydrogen Storage
Ji Sun Im[1], Ohseob Kwon[1], Soo-Jin Park[2], Young-Seak Lee[1] ([1]Chungnam National Univ., Korea)([2]Inha Univ., Korea)

15P-I-14 The Preparation and Characterization of Carbide-Derived Carbon Produced Using Metal Carbide for Hydrogen Storage
Jeongmin Lee[1], Ji Sun Im[1], Young-seak Lee[1] ([1]Chungnam National Univ., Korea)

15P-I-15 Preparation of PAN-based Porous Carbon Nanofibers Using MgO as the Substrate
Min-Jung Jung[1], Jeong-Min[1] Lee[1], Young-Seak Lee[1] ([1]Chungnam National Univ., Korea)

15P-I-16 Surface Modification of ACFs for Hydrogen Storage
Ohseob Kwon[1], Ji Sun Im[1], Soo-Jin Park[2], Young-Seak[1] Lee ([1]Chungnam National Univ., Korea) ([2]Inha Univ., Korea)

15P-I-17 Characterization of Polymer Carbon Sieves and Graphitized Polymer Carbons for Sample Preparation Applications
William R. Betz[1], Michael Keeler[1], Leonard Sidisky[1] ([1]Supelco, USA)

15P-I-18 Adsorption of Hidroxilated Phenols from Activated Carbons. Reaction between Adsorption Isotherms and Inmersion Enthalpies
Juan C Moreno[1], Diego Blanco[2], Liliana Giraldo[2] ([1]Andes Univ., Colombia) ([2]Universidad Nacional De Colombia, Colombia)

15P-I-19 Preparation and Characterization of Carbon/TiO2 Composites
Won-Chun-Oh[1], Ming-Liang Chen[1], Young-Shin Ko[1] (Hanseo Univ., Korea)

15P-I-20 Synthesis and characterization of Fe containing C/TiO_2 composites and their degradation effect for the piggery waste
Won-Chun-Oh[1], Wei-Wei Lu[1], Chong-Hun Jung[2] ([1]Hanseo Univ., Korea) ([2]KAERI, Korea)

15P-1-21 Characterization of Metal (Cu_2^+, Zn_2^+)-Carbon/TiO_2 Composites Derived from Metal Containing Phenolic Resin and their Photocatalytic Effects
Won-Chun-Oh[1], Yu-Ri Na1, Jang-Soon Bae[2] ([1]Hanseo Univ., Korea) ([2]Dankook Univ., Korea)

15P-I-22 Thermodynamic Approach to Study Methane Adsorption on Microporous Carbons.
Diego Cazorla-Amoros[1], Juan Alcaniz-Monge[1], Dolores Lozano-Castello[1], Angel Linares-Solano[1] ([1]Univ. of Alicante, Spain)

15P-I-23 A Simple Method to Disperse Graphene Sheets in Alcohol
Bryan Tsu-Te Chu[1], Vivian Chang[1], Gordon Lee[1], Edman Tsang[1], Malcolm Green[1] ([1]Univ. of Oxford, UK)

15P-I-24 How to Get Highly Concentrated Salt Solutions Into Activated Carbon Pores: the Influence of Ion Size and Type on their Interactions with Activated Carbon Surfaces
Philippe Westreich[1], Paul Filbee-Dexter[1], Mark McArthur[1], Ing-Jye Lan[1], Jock Smith[1], Jeff Dahn[1] ([1]Dalhousie Univ., Canada)

15P-I-25 Removal of Zinc from Aqueous Solution by Adsorption onto Carbonaceous Materials Activated Using Oyster Shell
Takashi Asada[1], Masayuki Takano[1], Yuri Igari[1], Kuniaki Kawata[1], Kikuo Oikawa[1] ([1]Niigata Univ. of Pharmacy and Applied Life Sciences, Japan)

15P-I-26 Removal of Free Chlorine and Chloramine with Bamboo Charcoal -Influence of Carbonization Temperature and pH of Solution-
Takashi Asada[1], Ayako Okazaki[1], Kuniaki Kawata[1], Kikuo Oikawa[1] ([1]Niigata Univ. of Pharmacy and Applied Life Sciences, Japan)

15P-I-27 Adsorption and Transport Properties of Carbon Dioxide– Methane – Water Mixtures in Coal–like Structures by Molecular Simulation
Alaaeldin Salih[1], Erich A Muller[1] ([1]Imperial College London, United Kingdom)

NANOTUBES

15P-I-28 Comparative Photoluminescence Studies of Single- and Double-Wall Carbon Nanotube Suspensions
Daisuke Shimamoto[1], Yoong Ahm Kim[1], Hiroyuki Muramatsu[1], Takuya Hayashi[1], Morinobu Endo[1], Takuo Imanaga[2], Takashi Kawasaki[2], Teruyoshi Kita[2] ([1]Shinshu Univ., Japan) ([2]Honda R&D Co.,Ltd.Automobile R&D Cente, Japan)

15P-I-29 Surface Chemical and Textural Properties of Fluorinated MWCNTs at Various Temperatures
Seung Hun Jeong[1], Seok Min Yun[1], Young-Seak Lee[1] ([1]Chungnam National Univ., Korea)

15P-I-30 Fabrication of Carbon Nanotubes Through Metal-free Chemical Vapor Deposition
Jarrn-Horng Lin[1], Ching-Shiun Chen[2] ([1]National Univ. of Tainan, Taiwan) ([2]Chang Gung Univ., China)

15P-I-31 Totally Dry Processing Purification of Arc-generated Single-wall Carbon Nanotubes
Takashi Inoue[1], Yuji Takimoto[1], Naoto Ohta[1], Tetsuro Tojo[1] ([1]ToyoTanso Co., Ltd., Japan)

15P-I-32 MP2 and SCC-DFTB-D Studies of Acetone Adsorption on Pristine and Oxidized SWNTs
Yoshifumi Nishimura[1], Stephan Irle[1] (Nagoya Univ., Japan)

15P-I-33 Polymeric Composite Films Containing Modified BN Nanotubes as Fillers
Takeshi Terao[1], Yoshio Bando[1], Masanori Mitome[2], Chunyi Zhi[2], Chengchun Tang[2], Dmitri Golberg[1] ([1]Univ. of Tsukuba and National Institute for Materials Science, Japan) ([2]National Institute for Materials Science, Japan)

15P-I-34 Control of Orientation of Carbon Nanotubes Using High Magnetic Fields
Akio Katsuki[1], Hiromi Yamamoto[2], Yoshihisa Fujiwara[2], Masao Fujiwara[2], Morinobu Endo[1], Yoshifumi Tanimoto[2] ([1]Shinshu Univ., Japan) ([2]Hiroshima Univ., Japan)

15P-I-35 Application of Multi-walled Carbon Nanotubes (MWCNTs) for Heterojunction Photovoltaic Device
Golap Kalita[1], Sudip Adhikari[1], Hare Ram Aryal[1], Rakesh Afre[2], Tetsuo Soga[2], Maheshwar Sharon[3], Masayoshi Umeno[1] ([1]Chubu Univ., Japan) ([2]Nagoya Institute of Technology, Japan) ([3]Birla College, India)

15P-I-36 Characterization and Dispersion Properties of Single-Walled Carbon Nanotubes/Poly(ethylene oxide)

Composites
Yong Chae Jung[1], Yoong Ahm Kim[1], Daisuke Shimamoto[1], Hiroyuki Muramatsu[1], Morinobu Endo[1] ([1]Shinshu Univ., Japan)

15P-I-37 Study the Growth Mechanisms of Y-type Carbon Nanotubes
Yongzhen Wang (College of Materials Science and Engineering, Taiyuan Univ. of Technology, China)

15P-I-38 Simulations of Continuous Flow through Carbon Nanotubes
James J Cannon[1], Ortwin Hess[1] ([1]Univ. of Surrey, UK)

15P-I-39 Visible Luminescence of Functionalized Single Walled Carbon Nanotubes
Kazuhiro Kainuma[1], Yoshiyuki Hattori[1], Fujio Okino[1], Kunimitsu Takahashi[2], Tomonori Ohba[3], Hirofumi Kanoh[3], Katsumi Kaneko[3] ([1]Shinshu Univ., Japan) ([2]Institute of Research and Innovation, Japan)([3]Chiba University, Japan)

15P-I-40 Novel CVD Growth of Boron-doped Multi -walled Carbon Nanotubes
Tohru Watanabe[1], Satoshi Ishii[1], Syunsuke Tsuda[1], Takahide Yamaguchi[1], Yoshihiko Takano[1] ([1]National Institute for Material Science, Japan)

15P-I-41 Probing the Structural and Electronic Properties of HgTe-filled SWNTs by Scanning Tunneling Microscopy and Spectroscopy
Yann Tison[1], Cristina Giusca[2], Daniel Henwood[2], David Carey[2], Jeremy Sloan[2], S. Ravi P. Silva[2] ([1]Technical Univ. of Denmark, Denmark) ([2]Univ.of Surrey, UK)

15P-I-42 Kinetics Study on the SWNTs Synthesis by the CVD of Methane on a Nanoporous CoMo/MgO Supported Catalyst
Ali Morad Rashidi[1], Nosrat Ezadi[1], Bahman Amini Horri[1] ([1]Research Institute of Petroleum Industry, Iran)

15P-I-43 Platinum Nanoparticles Decorated Multi-walled Carbon Nanotubes as Electrodes for Polymer Electrolyte Membrane Fuel Cell
Savita P Somani[1], Prakash Somani[1], A. Sato[1], Masayoshi Umeno[1] ([1]Chubu Univ., Japan)

15P-I-44 Thermal Stability of Peapod-derived Double Walled Carbon Nanotubes.
Hiroyuki Muramatsu[1], Yoong Ahm Kim[1], Takuya Hayashi[1], Morinobu Endo[1] ([1]Shinshu Univ., Japan)

15P-I-45 A Computational Approach to Reduce the Time for Innovative Finding of Nano Carbon Field
Kazuo Minami[1], Syogo Tejima[1], Mikio Iizuka[1], Hisashi Nakamura[1] ([1]RIST, Japan)

15P-I-46 Size Dependence of Fracture Strain of Carbon Nanotubes by Atomistic Simulations
Kiyoshi Yokogawa[1], M Wen, A Ngan[2], B An[1], S Fukuyama[1] ([1]AIST, Japan) ([2]The Univ. of Hong Kong, China)

15P-I-47 Laser Enhanced Dispersion of Carbon Nanotubes in Acetonitrile
Nobuaki Tanaka[1], Hiromasa Nishikiori[1], Atsushi Iinuma[1], Morinobu Endo[1], Tsuneo Fujii[1] (Shinshu Univ., Japan)

15P-I-48 CdSe Nanoparticles Decorated on Fluorinated Double Walled Carbon Nanotubes
Yoong Ahm Kim[1], Hiroyuki Muramatsu[1], Daisuke Shimamoto[1], Ki Chul Park[1], Takuya Hayashi[1], Yasunori Saito[1], Morinobu Endo[1], Fujino Okino[1], Hidekazu Touhara[1], Mauricio Terrones[2], Mildred Dresselhaus[3] ([1]Shinshu Univ., Japan) ([2]IPICYT, Mexico) ([3]MIT, USA)

NANOFORMS

15P-I-49 The Atmospheric Effect on the Nano-Structuring of Graphite During Milling
Takayuki Ichikawa[1], Wataru Ishida[1], Shigehito Isobe[1], Hiroki Miyaoka[1], Yoshitsugu Kojima[1] ([1]Hiroshima Univ., Japan)

15P-I-50 Electrical Transport and Superconductivity in Reduced Dimension: Studies of Graphitic Nanostructures
Nicholas E Shuttleworth[1], Mark Ellerby[1], Paul Warburton[1] ([1]UCL, UK)

15P-I-51 Iron Effect for Hydrogen Absorption and Desorption Properties of Ball-milled Graphite
Hiroki Miyaoka[1], Takayuki Ichikawa[1], Shigehito Isobe[1], Yoshitsugu Kojima[1] ([1]Hiroshima Univ., Japan)

15P-I-52 Creation of C_{60}-clusters in Near-critical Fluids
Toru Maekawa[1], Takahiro Fukuda[1], Shunji Kurosu[1], Raymond Whitby[2] ([1]Toyo Univ., Japan) ([2]School of Pharmacy and Biomolecular Sciences, Brighton)

15P-I-53 Preparation and Characterization of Lignin-Based Pt-Carbon Nanofibers
Jose Rodriguez-Mirasol[1], Ramiro Ruiz-Rosas[1], Jorge Bedia[1], Tomás Cordero[1], Manuel Lallave[2], Ignacio Loscertales[1], Antonio Barrero[3] ([1]Univ. of Málaga, Spain) ([2]YFLOW S.L., Parque Tecnológico de Andalucía, Málaga , Spain) (Univ. of Sevilla, Spain)

15P-I-54 Effect of Series Resistance on Field Emission Characteristics of Nanocarbon Film
Kiichi Kamimura[1], Kei Miyazaki[1], Yoshiyuki Taguchi[1], Tomohiko Yamakami[1], Rinpei Hayashibe[1], Katsuya Abe[1] ([1]Shinshu Univ., Japan)

15P-I-55 In-situ Synthesis of Magnetically Separable Ordered Mesoporous Carbons from F_{127}/$[Ni(H_2O)_6](NO_3)_2$/resorcinol-formaldehyde Composites
Huaihe Song[1], Jingyuan Yao[1], Huaihe Song[1], Lixia Li[1], Changyi Liu[1], Xiaohong Chen[1] ([1]Beijing Univ. of Chemical Technology, China)

ELECTOROCHEMISTRY, BATTERIES AND CAPACITORS

15P-I-56 Novel Carbon-based Monoliths as Attractive Electrode for Supercapacitors
Vanesa Ruiz[1], C. Blanco[1], R. Santamaría[2], J. Ramos-Fernández[2], M. Martínez-Escandell[2], F. Rodríguez-Reinoso[2] ([1]Instituto Nacional of Carbon, CSIC, Spain) ([2]Universidad de Alicante, Dept. Química Inorgánica, Apartado 99, E-3080, Alicante, Spain)

15P-I-57 An Attempt to Apply Si-C-O Glass-like Compounds for Lithium Ion Hybrid Capacitors
Hidetaka Konno[1], Takashi Kasashima[1] ([1]Hokkaido Univ., Japan)

15P-I-58 An Investigation on the Oxygen Diffusion in Carbon Materials
Hongda Du[1], Baohua Li[1], Feiyu Kang[1] ([1]Tsinghua Univ., China)

15P-I-59 Study of Electrochemical Characteristics of Supercapacitor Using Nanogate Carbon
Wenming Qiao[1], Guo Cheng[1], Na Teng[1], Yingbo Xie[1], Rui Zhang[1], Licheng Ling[1] ([1]East China Univ. of Science and Technology, China)

15P-I-60 Effect of Ball-milling on the Pore Structure and Electrochemical Properties of Activated Carbon
Wenming Qiao[1], Liang Zhan[1], Liming Zhang[1], Rui Zhang[1], Xiaoyi Liang[1], Licheng Ling[1] ([1]East China Univ. of Science and Technology, China)

15P-I-61 Effect of High Temperature Treatment on the Pore Texture and Electric Properties of Activated Carbon
Wenming Qiao[1], Liang Zhan[1], Liming Zhang[1], Wenming Qiao, Rui Zhang[1], Xiaoyi Liang[1], Licheng Ling[1] ([1]East China Univ. of Science and Technology, China)

15P-I-62 The Effect of Surface Chemistry of Activated Carbon on its Electrochemical Properties
Wenming Qiao Yingbo Xie, Rui Zhang, Liang Zhan, Licheng Ling (East China Univ. of Science and Technology, China)

15P-I-63 Electrochemical Performance of Carbon Nanofiber Anode for Lithium Ion Batteries
Wenming Qiao, Hongpeng Liu, Rui hang, Liang Zhan, Licheng Ling (East China Univ. of Science and Technology, China)

15P-I-64 Properties of Carbon Nano-composites for Electrodes of Lithium Ion Battery
Kozo Osawa[1], Kyoichi Oshida[1], Tatsuo Nakazawa[1], Takuya Hasegawa[2], Morinobu Endo[2], Sylvie Bonnamy[3] ([1]Nagano National College of Technology, Japan) ([2]Shinshu Univ, Japan) ([3]CNRS-Université d'Orléans, USA)

15P-I-65 Formation of Cathodic Oxygen Reduction Catalyst with Fe–Nx Active Site Using a Raw Material for Phthalocyanine Synthesis
Nobutaka Fukui[1], Jun Maruyama[2], Masayuki Kawaguchi[1], Ikuo Abe[2] ([1]Osaka Electro-Communication Univ., Japan) ([2]Osaka Municipal Technical Research Institute, Japan)

15P-I-66 Performance of Carbon Supercapacitors Using RTIL Electrolytes
Anthony G. Pandolfo, Claude Sacchetta, Graeme Snook, Gregory Wilson (CSIRO - Energy Technology, Australia)

15P-I-67 Preparation and Characterization of High-Power Anode Materials Using
Myung Soo Kim, Dae-Yong Park, Yun-Soo Lim (Myongji Univ., Korea)

15P-I-68 Electrochemical Properties of a New Kind of Fluorocarbon Materials Prepared by ECR Sputtering Method
Yoshiyuki Hattori[1], Yuji Tamai[1], Yuta Okuno[1], Yuki Hosoda[1], Yukari Shibuya[1], Fujio Okino[1], Tomoyuki Kamata[2], Shigeru Umemura[2], Shigeru Hirono3, Osamu Niwa[4], Hidekazu Touhara[1] ([1]Shinshu Univ., Japan) (Chiba Institute of Technology, Japan) ([3]MES AFTY Corporation, Japan) ([4]National Institute of Advanced Industrial Science and Technology (AIST), Japan)

15P-I-69 The Performance of DMFC Anode Catalysts Supported on High Dispersed Very Thin Carbon Nanofibers using Nano-dispersion Apparatus.
Munsuk Jun[1], Seong-Hwa Hong[1], Seong-Ho Yoon[1], Masaharu Tsuji[1], Isao Mochida[1] ([1]Kyushu Univ., Japan)

CARBON FIBERS AND COMPOSITES

15P-I-70 Preparation and Performance of Mesophase Pitch Based Graphite Foam
Wenming Qiao[1], Liang Zhan[1], Xiaojun Wang[1], Junhe Yang[2], Rui Zhang[1], Xiaoyi Liang[1], Licheng Ling[1] ([1]East China Univ. of Science and Technology, China) ([2]Shanghai Institute of Technology, China)

15P-I-71 Nanostructured Carbon Nanotubes/Organic Semiconductor Hybrid Multilayers Prepared Using Layer-by-Layer Self-Assembly Approach
Akira Baba[1], Yoshinori Kanetsuna[1], Taihei Matsuzawa[1], Yasuo Ohdaira[1], Kazunari Shinbo[1], Keizo Kato[1], Futao Kaneko[1] ([1]Niigata Univ., Japan)

15P-I-72 Size Effect of Palladium Particles on Carbon Nanofiber for Heck Reaction
Jun Zhu[1], Tiejun Zhao[2], Jinghong zhou[1], Xinggui Zhou[1], De Chen[2], Weikang Yuan[1] ([1]East China Univ. of Science and Technology, China) ([2]Norwegian University, Norway)

15P-I-73 Characterization Textural, Structural and Calorimetric of Activated Carbons Cloths Prepared from Cotton Textiles
Juan C Moreno[1], Gyovanny Rodriguez[2], Liliana Giraldo[2] ([1]Andes Univ., Colombia) ([2]Universidad Nacional de Colombia, Colombia)

15P-I-74 One-dimensional Array of Graphitic Cones in Vertically Aligned Carbon Nanofibers
Akira Koshio[1], Yuta Tango[1], Takayuki Yamasaki[1], Kentaro Suzuki[1], Fumio Kokai[1] ([1]Mie Univ., Japan)

15P-I-75 Rheostructural Studies of Mesophase Pitch using WAXD and Microscopy
Amod A Ogale[1], Santanu Kundu[1], Sungho Lee[1], David Anderson[2] ([1]Clemson Univ., United States) ([2]UDRI, USA)

15P-I-76 Thermal Characteristics and Electrical Resistivity of Carbon Nanofiber Web/Polymer Composites
Donghwan Cho[1], Sung Hwan Kim[1], Chae Wook Cho[1], Jae Young Lee[1], Oh-Hyeong Kwon[1]
([1]Kumoh National Institute of Technology, Korea)

15P-I-77 Influence of Chemical Cross-linking on the Over Voltage Positive Temperature Coefficient of Linear Low Density Polyethylene/Carbon Black/Aluminum hydroxide Composites
Tsai Ching-Shan[1], Huang Chi-Yuan[1], Tsao Keng-Yu[1], ([1]Tatung Univ., Taiwan)

15P-I-78 Application of Micro-capsulation Technology in the Preparation of a Carbon Foam
Kezhi Li[1], Zhenhai Shi[1], Hejun Li[1], Zhuo Tian[1], Chuang Wang[1]
([1]Northwestern Polytechnical Univ., China)

15P-I-79 Synergistic Effect of Carbon Fibers and Dicyclopentadienyl Iron on the Electromagnetic Interference of Carbon-cement Composites
Kezhi Li[1], Chuang Wang[1], Hejun Li[1], Gengsheng Jiao[1] ([1]Northwestern Polytechnical Univ., China)

15P-I-80 Synthesis and Properties of VGCF Composites with Metal Nanoparticles
Katsuyuki Fujiwara[1], Tomoyuki Itaya[1], Kyoichi Oshida[1] ([1]Nagano National College of Technology, Japan)

15P-I-81 Tube-like Carbon Fiber Fabricated by Carbonization of Wood
Michio Ohata[1], Noriko Yoshizawa[2], Shuji Yoshizawa[1]
([1]Meisei Univ., Japan) ([2]AIST, Japan)

15P-I-82 Coating of Short Carbon Fibers with Silicon Carbide and Pyrolytic Carbon Layers
Haibo Ouyang[1], Hejun Li[1], Lehua Qi[1], Zhengjia Li[1], Jian Wei[1], Jianfeng Wei[1]
([1]Northwestern Polytechnical Univ., China)

15P-I-83 Pullout Behavior of Carbon Nanotube-attached Carbon Fibers
Wen-Shyong Kuo[1], Tse-Hao Ko[1], Kai-Hsuan Hung[1], Ciao-Fang Yan[1]
([1]Feng Chia Univ., Taiwan)

15P-I-84 Mechanical Interfacial Properties of Oxyfluorinated Carbon Fibers-reinforced Composites
Woong Ki Choi[1], Byung-Gak Min[2], Soo-Jin Park[3]
([1]Krict, Korea) ([2]Chungju National Univ., Korea) ([3]Inha Univ., Korea)

15P-I-85 A Novel Synthesis of Carbon Precursors by Suspension Polymerization
Jung Min Lee[1], Joon Hyung Kim[1], Shin Jae Kang[1], Soo-Jin Park[2]
([1]Jeonju Machinery Research Center, Korea) ([2]Inha Univ., Korea)

15P-I-86 High Thermal Performance Nanocomposite with Polybenzimidazole (PBI) and VGNF
Qing-Qing Ni[1], Li Zhang, Toshiaki Natsuki[1], Akihiko Shiga[2],
([1]Shinshu Univ., Japan) ([2]AZ Electronic Materials, Japan)

15P-I-87 Development of CNFs/Natural Rubber Composite
Qing-Qing Ni[1], Hongxia Jiang[1], Toshiaki Natsuki[1]
([1]Shinshu Univ., Japan)

15P-I-88 High Frequency Viscoelastic Properties of Nanocomposites by Ultrasonic Measurement
Qing-Qing Ni[1], Tetsuya Kunizawa[1]
([1]Shinshu Univ., Japan)

15P-I-89 Development of Functionally Graded Al/CNTs Composite
Qing-Qing Ni[1], Kouhei Kubota[1], Isao Nakamura[1]
([1]Shinshu Univ., Japan)

15P-I-90 Free standing thin webs of porous carbon nanofibers of polyacrylonitrile containing iron-oxide by electrospinning
S. K. Nataraj[1], Bo-Hey Kim[1], B. T. N. Ngoc[1], J. Ferraris[2], T.M. Aminabhavi[2], K. S. Yang[1] ([1]Chonnam National University, Korea) ([2]University of Texas at Dallas, USA)

15P-I-91 Morphology and Thermal Properties of MWCNT/Elastomer Nanocomposites
Hiroyuki Ueki[1], Shigeki Inukai[1], Akira Magario[1], Toru Noguchi[1], Morinobu Endo[2] ([1] Nissin Kogyo Co., Ltd., Japan) ([2] Shinshu Univ., Japan)

15P-I-92 Application to high damping material of MWNT/elastomer nanocomposites
Yuichi Nakamura[1], Takashi Yazaki[1], Katsuo Okamoto[1], Hiroyuki Ueki[2], Akira Magario[2], Toru Noguchi[3], Morinobu Endo[3]([1]Miyasaka Rubber Co. Ltd., Japan) ([2]Nissin Kogyo Co. Ltd.,Japan) ([3]Shinshu Univ., Japan)

Hotel Metropolitan Room Kurohime: 15P-II

PHYSICAL PROPERTIES

15P-II-1 The Rheologycal Behavior of Petroleum Pitches during Pyrolysis
Alexandre T Castro[1], Carolina P Braga[1], Carlos Henrique MC Dutra[1], Luiz D Castro[1], Cristina T Andrade[2]
([1]Centro Tecnológico do Exército, Brazil) ([2]Federal do Rio de Janeiro Univ., Brazil)

15P-II-2 Quantification of Mesophase in Pitches by Centrifugation
Alexandre T Castro[1], Carlos Henrique MC Dutra[1], Luiz C Freitas[1], Fabio F Pereira[1]
(Centro Tecnológico do Exército, Brazil)

15P-II-3 Synthesis and Performance of Powdered Fe/C Composite from Oil Residues
Chen Wang[1], Can Li[1], Zheng-Hong Huang[1], Feiyu Kang[1], Jialin Gu[1]
([1]Tsinghua Univ., China)

15P-II-4 Effects of Ion Acceleration Voltages on the Synthesis of Conductive and Hard Fluorinated Carbon Thin Films in Electron Cyclotron Resonance Plasma Sputtering
Tomoyuki Kmata[1], Hirokazu Kawase[1], Tetsuya itagaki[1], Yukihiko kawashima[1], Shigeru uemura[1], Shigeru Hirono[2], Hidekazu Touhara[3], Fujio Okino[3], Yoshiyuki Hattori[3], Osamu Niwa[3]
([1]Chiba Institute of Technology, Japan) ([2]MES AFTY Corporation, Japan) ([3]Shinshu Univ., Japan)

15P-II-5 Metastable Melting of Graphite under Diamond Stable P-T Region
Motohiro Togaya (Osaka Univ., Japan)

15P-II-6 Tribological Properties of Carbon Onions as Lubricant Additives
Xiaomin Wang[1], Yanli Yao[1], Junjie Guo[1], Bingshe Xu[1]
([1]Taiyuan Univ. of Technology, China)

15P-II-7 Effect of Fast Neutron Irradiation on the Superconducting Characteristics of Rb_3C_{60}
Toshiharu Kubo[1], Takayuki Terai[1], Akihiro Suzuki[1], Noriko Tikumoto[2]
([1]The Univ. of Tokyo, Japan) ([2]Superconductivity Research Laboratory, ISTEC, Japan)

15P-II-8 Electrical and Structural Properties of Metal Incorporated Amorphous Carbon Films
Sudip Adhikari[1], Golap Kalita[1], Hare Ram Aryal[1], Dilip Chandra Ghimire[1], Hideo Uchida[1], Masayoshi Umeno[1]
([1]Chubu Univ., Japan)

15P-II-9 Unpaired Electrons Relaxation Characteristics and the Pitch-based Fibers Basic Units Adjustment
Alexander A. Blizniyk[1], Victor P. Berveno[1], Lyudmila V. Bryuhoveckaya[1]
([1]ISSCM, SB RAS, Russia)

15P-II-10 Novel Tactile/Proximity Sensing Properties of Carbon Microcoils
Xiuqin Chen[1], Shaoming Yang[2], Izumi Ozeki[2], Seiji motojima[2], Hideki Sakai[1], Masahiko Abe[1]
([1]Tokyo Univ. of Science, Japan) ([2]Gifu Univ., Japan)

15P-II-11 Properties of Light Metal Infiltrated Graphites
Joachim Metz[1], Matthias Wimmler[1]
([1]Schunk Kohlenstofftechnik GmbH, Germany)

15P-II-12 Shear Microscopy of Mesophase Pitch
Brian Rand[1], Walter Focke[2], Lesego Moitsheki[2], Thabani Mhlongo[2]
([1]Univ. of Leeds, United Kingdom) ([2]Univ. of Pretoria, UK)

15P-II-13 Defects in Graphite and their Effect on Phonon Spectra
Thomas E Weller[1], Steven M Bennington[1], Ayano Chiba[1], Daniele Pontiroli[2]
([1]ISIS, RAL, United Kingdom) ([2]Univ. of Parma, Italy)

15P-II-14 Micro and Mesoporous Activated Carbon Made from Rice Husk and Beet Sugar
Hirotaka Ishizawa[1], Junya Sasaki[1], Seiji Kumagai[1], Koichi Takeda[1], Yasuhiro Toida[2]
([1]Akita Prefectural Univ., Japan) ([2]Japan Energy Corporation, Japan)

15P-II-15 Hydrogen Storage Properties of Space-confined $NaAlH_4$ Nanoparticles in Ordered Mesoporous Silica
Dalin Sun[1], Guorong Chen[1], Huahua Xu[1], Min Dong[1], Qian Zhang [1] (Fudan Univ., China)

INDUSTRIAL APPLICATIONS

15P-II-16 Application of Metal-impregnated Carbon-carbon Composite to Contact Strips of Pantograph of Electric Railway Vehicles
Shunichi Kubo[1], Hiroshi Tsuchiya[1], Yoshitaka Kubota[1]
([1]Railway Technical Research Institute, Japan)

15P-II-17 Electroconductive Properties of Wood Char Prepared by Nickel- and Iron-catalyzed Carbonization
Tsutomu Suzuki[1], Hiroshi Matsuzaki[1], Kyoko Suzuki[1], Yukie Saito[2]
([1]Kitami Institute of Technology, Japan) ([2]The Univ. of Tokyo, Japan)

15P-II-18 Fabrication and Properties of Graphite Flakes/Metal Composites for Thermal Management Applications
Javier Narciso[1], Jose M Molina[1], Richard Prieto[1], Enrique Louis[1]
([1]Alicante Univ., Spain)

15P-II-19 Adherent Carbon-based Films Exhibiting High Electrical Conductivity

Yasuhrio Yamada[1], Deborah D.L. Chung[1]
([1]Univ. of New York, U.S.A)

15P-II-20 Mesophase Development in a Coal Gasification Pitch and Subsequent Coke Microstructure
Brian Rand[1],
([1]Univ. of Leeds, United Kingdom)

15P-II-21 A Study on PTC/NTC Behaviors of CBs/Ionomer/HDPE Composites
Jeon-Mo Choi[1], Jae-Rock Lee[2], Soo-Jin Park[3]
([1]Chungnam National Univ., Korea) ([2]Korea Research Institute of Chemical Technology, Korea) ([3]Inha Univ., Korea)

15P-II-22 The characterization of the resin bonded graphite composite bipolar plate using isotropic graphite powder for PEM fuel cell
Kwang Youn – Cho[1], Doh Hyung - Riu[1], Seung Hun - Huh[1], Dong Guen - Shin[1] ([1]Korea Institute of Ceramic Engineering and Technology, Korea)

CHARACTERIZATION

15P-II-23 Preparation of Activated Carbon from Industrial Wastewater Treatment Sludge and its Possible Use in Retention of Cr (6) and Pb (2)
Juan C Moreno[1], Jaime E Vargas[2], Liliana Giraldo[2]
([1]Andes Univ., Colombia) ([2]Colombia Nacional Univ., Colombia)

15P-II-24 Surface Characterization of Carbon Nanoribbon
Yu Okuno[1], Tomonori Ohba[1], Hirofumi Kanoh[1], Jessica R Campos Delgado[2], José M Romo Herrera[2], Humberto Terrones[2], Mauricio Terrones[2], Kastsumi Kaneko[1]
([1]Chiba Univ., Japan) ([2]IPICYT, Mexico)

15P-II-25 Solid State NMR Study of Carbon Nanodiamonds Produced by Detonation Technique
Marc Dubois[1], Naoki Komatsu[2], Katia Guérin[3], André Hamwi[3] Jérôme Giraudet[4], Francis Masin[4]
([1]Université Blaise Pascal, Clermont-Ferrand, France) ([2]Shiga Univ., Japan) ([3]Clermont Université, France) ([4]Université Libre de Bruxelles, France)

15P-II-26 The Characterization of out-of-order Structure in Carbon Fiber Paper by Fractal Dimension
Xuejun Zhang[1], Hao Pei[1], Zengmin Shen[1]
(Beijing Univ. of Chemical Technology[1], China)

15P-II-27 Microstructural Changes of Nuclear Graphites due to a 3 MeV Proton Irradiation
Eung-Seon Kim[1], Yong-Wan Kim[1]
([1]Korea Atomic Energy Research Institute, Korea)

15P-II-28 Using the Density Functional Theory for the Pore Structure Analysis of Ordered Microporous Carbons: Effects of the Pore Walls Curvature
Jacek Jagiello[1], Roland J.-M. Pellenq[2]
([1]The Univ. of Kentucky, U.S.A) ([2]CNRS, France)

15P-II-29 HRTEM and XPS Characterization of Nanoscale Carbons
Randy L Vander Wal[1], Vicky Bryg[1], Michael Hays[2] ([1]USRA c/o NASA-Glenn, USA) ([2]U.S. EPA, USA)

18:00 – 21:00 POSTER SESSION 3

Hotel Metropolitan Room Asama
C: 16P-I

ENVIRONMENT AND ENERGY

16P-I-1 Structure, Surface Chemistry and Adsorption Properties of Nanostructured Microporous Carbon Materials
Roger Gadiou[1], Antoine Didion[1], Cathie Vix-Guterl[1]
([1]Institute of Chemistry of Surfaces and Interfaces, France)

16P-I-2 Carbon Modified Anatase TiO_2 (TiO_2/C) Obtained by Pressure Technique for Phenol and Azo Dyes Decomposition
Beata Tryba[1], Magdalena Janus[1], Ewelina Kusiak[1], Antoni W Morawski[1]
([1]Szczecin Univ. of Technology, Poland)

16P-I-3 Efficiency of Texture-Tailored Carbon Xerogels for the Removal of Organic Vapours
Angelique Leonard[1], Maria Del Carmen Almazan-Almazan[2], Emeline Verdin[1], Ivonne Escalona[3], Hilda Wullens[4], Claudio Olivera-Fuentes[3], Silvia Blacher[2], Francisco J Lopez Garzon[1], Nathalie Job[1], Peter Lodewyckx[5], Angélique Léonard[1],
([1]Univ. of Ličge, Belgium) ([2]Univ. of Granada, Spain) ([3]University Simon Bolivar, Venezuela) ([4]Defence Laboratoria Department, Belgium) ([5]Royal Military Academy, Belgium)

16P-I-4 Regeneration of Activated Carbon Saturated with Chromium (VI)
Dilek Duranoglu Gulbayir[1], Ulker Gurbuz Beker[1]
([1]Yildiz Technical Univ., Turkey)

16P-I-5 Effects of The Kind of Bamboo on The Basic Properties and Absorbability of WoodsCeramics
Ying Pin Huang[1], Chuan Chi Chien[1]
([1]ITRI, Taiwan)

16P-I-6 Controlled Removal of Ionogenic Pesticides on Activated Carbon Textiles
Sandrine Delpeux-Ouldriane[1],Sandrine Delpeux-Ouldriane[1], Nathalie Cohaut[1], Francois Beguin[1],
([1]CNRS-CRMD, France)

16P-I-7
The Influence of Electrode Density on the Electrochemical Performance of Highly Crystalline Graphites in Li-Ion Batteries
See How Ng [1], Fabio La Mantia [1], Wolfgang Maerkle [1], Michael E. Spahr [2],Cathie Vix-Guterl [3], Petr Novak [1] ([1]Paul Scherrer Institute, Switzerland) ([2] TIMCAL SA, Switzerland)([3] Institut de Chimie des Surfaces et Interfaces, France)

16P-I-8 Wastewater Treatment System Applying Charcoal as Biological Media
Michio Ohata[1], Satoko Tanaka[1], Shuji Yoshizawa[1],
([1]Meisei Univ., Japan)

16P-I-9 Influence of Mixed Acid Ratio on Hydrogen Storage Behaviors of Graphites
Byung-Joo KIM[1], Young-Seak LEE[2], Soo-Jin PARK[3]
([1]Univ. of Science and Technology, Korea) ([2]Chungnam National Univ., Korea) ([3]InhaUniv., Korea)

16P-I-10 Resonance Effect of Electromagnetic Waves on a Single Walled Nanotube
Mikio Iizuka[1], Satoshi Nakamura[1], Hisashi Nakamura[1]
([1]Research Organization for Information Science and Technology (RIST, Japan)

16P-I-11 Sorption of Radioactive Isotopes and Toxic Metal Ions by Nanostructural Carbon Materials
Zulkhair A Mansurov[1], Mikhail M Yemuranov[1], Nurzhamal K Zhylybaeva[1], Makhmut A Bijsenbaev[1]
([1]Kazakh National Univ., Republic of Kazakhstan)

16P-I-12 Anode Performance of Herringbone-type Carbon Nanofiber in Lithium Ion Secondary Batteries
Takuya Hasegawa[1], Hideaki Ishikawa[1], Ryo Hisayama[1], Naoki Saeki[1], Takumi Miyamori[1], Yoong-Ahm Kim[1], Takuya Hayashi[1], Morinobu Endo[1]
([1]Shinshu Univ. Japan)

16P-I-13 Analysis of CNT T-junction Formation 1
Hirokazu Suzuki[1],
([1]Shinshu Univ., Japan)

ADSORPTION, SURFACES AND POROUS MATERIALS

16P-I-14 Preparation of Porous Carbons by Defluorination of Perfluorooctane and Octafluorotoluene and Enhanced Porosity Obtained by Mixing them
Osamu Tanaike[1], Jun Kawabuchi[2], Hiroaki Hatori[1], Ryohei Asakura[3], Naoya Miyajima[4], Yoahio Yamada[2]
([1]AIST Tsukuba, Japan) ([2]Fukui Univ., Japan) ([3]Fukuoka Prefectural Institute of Technology, Japan) ([4]Yamanaahi Univ., Japan)

16P-I-15 The Surface Structure of Nitrogen-doped Carbon Aerogels Synthesized by Sol-gel Process
Wenming Qiao[1], Donghui Long[1], Rui Zhang[1], Liang Zhan[1], , Licheng Ling[1]
([1]East China Univ. of Science and Technology, China)

16P-I-16 Surface Modification of Pitch-based Spherical

Activated Carbon to Enhance Uric Acid Adsorption
Wenming Qiao[1], Chaojun Liu[1], Xiaoyi Liang[1], Xiaojun Liu[1], Qin Wang[1], Liang Zhan[1], Licheng Ling[1]
([1]East China Univ. of Science and Technology, China)

16P-I-17 Wettability Modification of Pitch-based Spherical Activated Carbon and Its Phenol Adsorption Study
Wenming Qiao, Chaojun Liu[1], Xiaojun Liu[1], Liang Zhan[1], Xiaoyi Liang[1], Licheng Ling[1]
([1]East China Univ. of Science and Technology, China)

16P-I-18 Effects of different metals and their dispersibility of metal-loaded polystyrene-based activated carbon spheres on adsorption of dibenzothiophene
Qing-han Meng[1], Qin Wang[1], Xiaoyi Liang[1], Chaojun Liu[1], Xiaojun Liu[1], Liang Zhan[1], Wenming Qiao[1], Licheng Ling[1]
([1]East China Univ. of Science and Technology, China)

16P-I-19 Removal of Heavy Metal Ions from Aqueous Solution by Bamboo Charcoals Nested with Carbon Nanotubes
Zheng-Hong Huang[1], Jiangnan Zhang[1], Feiyu Kang[1]
([1]Tsinghua Univ., China)

16P-I-20 Physical Activation of Russion Stone
Murat Kılıç[1], Esin Apaydin Varol[1], Basak Burcu Uzun[1], Ayse Eren Pütün[1]
([1]Anadolu Univ., Turkey)

16P-1-21 Modification of the Adsorption Capacity of Kraft's Lignin by Changing the Flocculation Conditions During Its Preparation
Luisa A Delgado[1], Rafael Urbina[1], Narciso Perez[1], Jenny Fernandez[1]
([1]Univ. Simon Bolivar, Venezuela)

16P-I-22 Hydrogen Adsorption of Metal/Organic/CNT Hybrid Material: First Principal Calculation
Jung Hyun Cho[1], Chong Rae Park[1]
([1]Seoul National Univ., Korea)

16P-I-23 Changes in I_2/CO separation efficiency in the oxidized and reduced molecular sieve carbon fibers
Alexander V. Berveno[1], Victor P. Berveno[1], Sergey Yu. Lyrshchikov[1]
([1]Kemerovo State Univ., Russia)

16P-I-24 Adsorption Behavior of Wood Charcoal - Selectivity of Toluene from the Mixed Gas with Alpha-pinene
Rie Yamashita[1], Yukie Saito[2]
([1]Industrial Research Institute of Shizuoka Prefecture, Japan) (Univ. of Tokyo, Japan)

16P-I-25 Field Emission Property of the Needle-shaped Carbons by Cold Plasma Improvement
Masaaki Katoh[1], Takeo Ohte[1], Michiya Ota[1], Eiichi[1], Yasuda[2]
([1]Gunma National College of Technology, Japan) (Tokyo Institute of Technology, Japan)

NANOTUBES

16P-I-26 Nano Structure of Carbon Nano Tube Products
Khe C. Nguyen[1], Tv Le[2], Cdt Nguyen[2], P T Huynh[2], Tnn Nguyen[2], D V Nguyen[2], Atn Mai[2]
([1]KTube Technology LLC, San Jose CA, USA) ([2]Saigon Hi Tech Park Research Laboratories, Vietnam)

16P-I-27 Synthesis and Structure Characterization of Thin Multi-walled Carbon Nanotubes by a Catalytic Chemical Vapor Deposition Method
Takuya Ichiki[1], Yoong Ahm Kim[1], Hiroyuki Muramatsu[1], Daisuke Shimamoto[1], Yuki Kakegawa[1], Hiroshi Kakegawa[1], Kazunori Fujisawa[1], Takuya Hayashi[1], Moronobu Endo[1]
([1]Shinshu Univ., Japan)

16P-I-28 Properties and Dispersion of the MWNT Produced by a Floating Reactant Method
Naohiro Tarumoto[1], Takayuki Tsukada[1]
([1]Nano Carbon Technologies Co., Ltd., Japan)

16P-I-29 Isolation of Double Walled Carbon Nanotubes via Single Stranded DNA
Jin Hee Kim[1], Masakatsu Kataoka[1], Daisuke shimamoto[1], Hiroyuki Muramatsu[1], Yoong AhmKim[1], Takuya Hayashi[1], Morinobu Endo[1]
([1]Shinshu Univ., Japan)

16P-I-30 Atomic Hydrogen Interaction with SWCNT
Liv Hornekaer[1], Saoud Baouche[1], Bjarke Joergensen[1], Wei Xu[1], Louis Nilsson[1], Flemming Besenbacher[1]
([1]Univ. of Aarhus, Denmark)

16P-I-31 Studies on Thermal, Mechanical, and Electrical Properties of CBs/MWNTs/Polyimide Nanocomposites
Sung-Won Chae[1], Kyong-Yop Rhee[2], Soo-Jin Park[3]
([1]Chonbuk National Univ., Korea) (Kyunghee Univ., Korea) (Inha Univ., Korea)

16P-I-32 Bending Deformation of Carbon Nanotubes Caused by a Five-seven Pair Couple Defect
Kei Wako[1], Tatsuki Oda[2], Maasaru Tachibana[1], Kenichi Kojima[1]
(Yokohama City Univ., Japan) (Kanazawa Univ., Japan)

16P-I-33 Transport Property of Boron Doped Multi-Walled Carbon Nanotubes
Yuki Kakegawa, Yoong Ahm Kim[1], Hiroyuki Muramatsu[1], Daisuke Shimamoto[1], Takuya Ichiki[1], Hiroshi Kakegawa[1], Kazunori Fujisawa[1], Takuya Hayashi[1], Morinobu Endo[1]
([1]Shinshu Univ., Japan)

16P-I-34 Application of Carbon Nanomaterials to Space and Aerospace Lubrication
Randy L Vander Wal[1], Kenneth W Street[1]
(USRA c/o NASA-Glenn, U.S.A)

16P-I-35 Inner-Tube Chirality Determination for

Double-Walled Carbon Nanotubes by Scanning Tunneling Microscopy
Cristina E Giusca[1], Yann Tison[2], Vlad Stolojan[1], S. Ravi P. Silva[1]
([1]Univ. of Surrey, United Kingdom) ([2]Univ. of Denmark, Denmark)

16P-I-36 New Generation of Carbon-carbon Composites with Carbon Nanotubes
Bojan O Boskovic[1], Krzysztof K Koziol[2], Ian A Kinloch[3], Alan H Windle[2]
([1]Dunlop Aerospace Braking Systems, Meggitt PLC, United Kingdom) ([1]Univ. of Cambridge, United Kingdom) ([3]Univ. of Manchester, United Kingdom)

16P-I-37 Effect of Rubidium Flouride on the field Emission Properties of Carbon Nanostructures
Sandeep Chhoker[1], Vasant D Vankar[1]
([1]IIT Delhi, Hauzkhas, India)

16P-I-38 Development of Multiwalled Carbon Nanotubes and Polyaniline Based Hybrid Material
Sippy Kalra Chauhan[1], Dr Lalit Mohan Bharadwaj[2]
([1]Traffic Planning and environment division, Central Road Research Laboratory, India) ([2]BEND, Biomolecular Electronics & Nanotechnology, Chandigarh, India)

16P-I-39 Patterned Growth of CNTs by AFM Nano-oxidation
Chien-Chao Chiu[1], Masamichi Yoshimura[1], Kazuyuki Ueda[1]
([1]Toyota Technological Institute, Japan)

16P-I-40 Carbon arc Synthesis of SWCNTs and Plasma Diagnostics
Hubert Lange[1], Michal Bystrzejewski[1], Andrzej Huczko[1]
([1]Warsaw Univ., Poland)

16P-I-41 The Surface and Dispersion Properties of Modified MWCNT by Acid Treatment
Se Ho Cho[1], Ji Sun Im[1], Young-Seak Lee[1]
([1]Chungnam National Univ., Korea)

16P-I-42 Low Cost and Large Scale production Method of Multi-Walled Carbon Nanotubes by Natural Resources
Tomoyuki Fukuyo[1], Kenji Takeuchi[2], Takuya Ichiki[2], Satoshi iinou[2], Ki Chul Park[2], Y.A. Kim[2], Takuya Hayashi[2], Morinobu Endo[2]
([1]MEFS Co. Ltd., Japan) ([2]Shinshu Univ., Japan)

16P-I-43 Ultrasonic Vibration of Fluid-Filled Double-walled Carbon Nanotubes
Toshiaki Natsuki[1], Qing-Qing Ni[1], Morinobu Endo[1]
([1]Shinshu Univ., Japan)

16P-I-44 Mechanical Properties of Carbon Nanotubes under Hydrostatic Pressure
Naoki Fujita[1], Toshiaki natsuki[1], Qing-Qing Ni[1]
([1]Shinshu Univ., Japan)

16P-I-45 An Investigation of Iron Nanoparticle Formation by Ferrocene Pyrolysis for CNTs Production
Keisuke Watanabe[1], Tomonori Sato[1], Taku Shindoh[1], Yohsuke Matsusita[1], Hideyuki Aoki[1], Takatoshi Miura[1], Fuminori Munekane[2]
([1]Tohoku Univ., Japan) ([2]Nano Carbon Technologies Co., Ltd., Japan)

16P-I-46 Molecular Dynamics Simulation on Nitrogen Doping in Carbon Nanotube
Ozora Yoshino[1], Yuta Shiba[1], Hirokazu Suzuki[1], Takuya Hayashi[1], Morinobu Endo[1]
([1]Shinshu Univ., Japan)

NANOFORMS

16P-I-47 Preparation of Various Structures of Fibrous Nano Silicon Carbide (SiC) Using CNF as a Template
Naoki Watanabe[1], Seongho Yoon[1], Isao Mochida[1]
([1]Kyushu Univ., Japan)

16P-I-48 Application of Polymer Blend to Construct Concentric Multiple-Layered Hollow Shell Carbons
Terukazu Sandou[1], Jun-ichi Ozaki[1]
([1]Gunma Univ., Japan)

16P-I-49 Self-Assembling, Hierarchy and Architectures of Carbon Nanoobjects
Sergey V. Kozyrev[1], Alexey E. Madison[1]
([1]Petersburg State Polytechnical Univ., Russia)

16P-I-50 Synthesis of Fullerenes and Carbon Nanotubes in Flames
Zulkhair A Mansurov[1], Bakhytzhan T Lesbaev[1], Dmitriy I Chenchik[1], Nikolay G Prikhodko[1], Esen E Dilmukhambetov[1], S T Kazakbaev[1]
([1]Kazakh National Univ.)

16P-I-51 Synthesis of Carbon-Silicon Nanocomposite
Zulkhair A Mansurov[1], Tat'yana A Shabanova[1], Rosa G Abdulkarimova[1], Nina N Mofa[1], Makhmut A Bijsenbaev[1]
([1]Kazakh National Univ.)

16P-I-52 Synthesis and Morphology of Carbon Microcoils Produced from Methane
Shaoming Yangu[1],
([1]Xiamen Univ. of Technology, China)

16P-I-53 Small-Angle Scattering Measurement of Highly Ordered Pyrolytic Graphite and Nano-Scale Defects caused by Neutron Irradiation
Ayano Chiba[1], Thomas E Weller[2], Anuj Shukla[3], Daniele Pontiroli[4], Sanjay Rastogi[5], Stephen M Bennington[2]
([1]Keio Univ., Japan) ([2]Rutherford Appleton Laboratory, UK) ([3]European Synchrotron Radiation Facility, France) ([4]Univ. of Parma, Italy) ([5]Loughborough University, UK)

16P-I-54 Three-dimensional structure of multi wall carbon nano-tube in natural rubber studied by transmission electron microtomography
Ken-ichi Niihara[1], Hiroshi Jinnai[1], Shigeki Inukai[2], Hiroyuki

Ueki[2], Akira Magario[2], Toru Noguchi[2], Morinobu Endo[3]
([1]Kyoto Institute of Technology, Japan), ([2]Nissin Kogyo Co. Ltd., Japan), ([3]Shinshu Univ., Japan)

ELECTOROCHEMISTRY, BATTERIES AND CAPACITORS

16P-I-55 Electrochemical Oxygen Reduction Activity of Nanoshells formed in Confined Space of Electrospun PAN Nanofibers
Takeaki Kishimoto[1], Shin-ichiHoriguchi[1], Kazuo Saito[1], Jun-ichi Ozaki[2]
([1]Nisshinbo Industries, Inc., Japan) ([2]Gunma Univ., Japan)

16P-I-56 Influence of Some Dimensional Parameters of CNT at Aligned MWCNT Sheet Electrode
Yuichi Honda[1], Masayuki Takeshige[1], Hideki Shiozaki[2], Takharu Kitamura[2], Kenji Yoshikawa[2], Masashi Ishikawa[1]
([1]Kansai Univ., Japan) ([2]Hitachi Zosen Corp., Japan)

16P-I-57 Improvement of Electrode/electrolyte Interface Resistance at Activated Carbon/DNA Composite Electrodes for Aqueous EDLC
Shigeaki Yamazaki[1], Kazushi Nitta[1], Keigo Obata[2], Yoshiaki Okuhama[2], Yoshiharu Matsuda[3], Masashi Ishikawa[1]
([1]Kansai Univ., Japan) ([2]Daiwa Fine Chemicals Co., Ltd., Japan) ([3]Kensei Inc., Japan)

16P-I-58 On the Contribution of Heteroatoms to the Capacitance Properties of Nitrogen Enriched Carbons
Jacek Machnikowski[1], Helena Machnikowska[2], Grzegorz Lota[2], Elzbieta Frackowiak[2] ([1]Wroclaw Univ. of Technology, Poland) ([2]Poznan University of Technology, Poland)

16P-I-59 Preparation of N- and/or B-doped Carbons by Copolymerization and their Catalytic Activity for Electrochemical Reduction Reaction
Guang Feng Liu[1], Jun-ichi Ozaki[1], Naofumi Kimura[1]
([1]Gunma Univ., Japan)

16P-I-60 Correlation of Hydrogen Capacity into Carbon
Krzysztof Jurewicz[1], Grzegorz Lota[1], Elżbieta Frackowiak[1]
(Poznan Univ., Poland)

16P-I-61 Electroactivity of Platinum Alloy Nanoclusters on Carbon Supports Prepared by Electrochemical Deposition
Seok Kim[1], Jae-Rock Lee[1], Soo-Jin Park[2] ([1]Korea Research Institute of Chemical Technology, Korea) ([2]Inha University, Korea)

16P-I-62 Platinum and Ruthenium Alloy Electrocatalysts for Direct Methanol Fuel Cells
Hee Jin Sohn[1], Seok Kim[1], Jae-Rock Lee[1], Soo-Jin Park[2]
([1]Korean Research Institute of Chemical Technology, Korea) ([2]Inha Univ., Korea)

16P-I-63 Effect of Surface Functionality on the Electrochemical Hydrogen Storage Properties of Nanoporous Carbons
Krzysztof Kierzek[1] Marie-Pierre Bichat[2], Jacek Machnikowski[1], Encarnation Raymundo-Pinero[2], Elzbieta Frackowiak[3], François Beguin[2], ([1]Wroclaw Univ. of Technology, Poland) ([2]CNRS, France) ([3]Poznan Univ. of Technology, Poland)

16P-I-64 Pore-dependence of Capacitance in the Typical Pitch and PAN-based ACFs
Taegon Kim[1], Masaharu Tsuji[1], Isao Mochida[1], Seong-Ho Yoon[1] ([1]IMCE, Kyushu Univ., Japan)

16P-I-65 Carbon Nanowalls as a Negative Electrode in Lithium-ion Battery
Norihiro Kitada[1], Hirohumi Yoshimura[1], Osamu Tanaike[2], Kenichi Kobayashi[3], Hiroshi Nakai[4], Kenichi Kojima[1], Masaru Tachibana[1] ([1]Yokohama City Univ., Japan) ([2]AIST, Japan) ([3]NISSAN ARC, LTD., Japan) ([4]IHI Corporation, Ltd., Japan)

16P-I-66 Effect of Addition of Surfactants to Acid or Alkaline Aqueous Solutions on Performance of Electric Double Layer Capacitor
Akinori Muto[1], Yoshiki Sasada[1], Thallda Bhaskar[2], Yusaku Sakata[1] ([1]Okayama Univ., Japan) ([2]Indian Institute of Petroleum, India)

16P-I-67 The Application of Vapor Grown Carbon Fiber (VGCF^{TM}) to Lithium Ion Battery Technology
Chiaki Sotowa[1], Masataka Takeuchi[1] ([1]Showa Denko K.K., Japan)

16P-I-68 Preparation of Oxidation-treated of Oxidized Carbons and its Electrochemical Performance for Electric Double Layer Capacitor
Sunhye Yang[1], Ick-Jun Kim[1], Min-Je Jeon[1], Seong-In Moon[1], Hyun-Soo Kim[1], Kye-Hyeok An[2] ([1]Korea Electrotechnology Research Institite, Korea) ([2]Jeonju Machinery Research Center, Korea)

16P-I-69 Comparative Study of the Electric Double Layer Capacitors for KOH-Activated Anisotropic and Isotropic Pitches-based Porous Carbons
Takayuki Oka[1], Yoong Jung Kim[1], Masaaki Kitani[1], Tsuyoshi Kodama[1], Keita Higuchi[1], Naohiro Aoyama[1], Akane Kobayashi[1], Takehiro Okumoto[1], Mitsuhiro Fujita[1], Takuya Hayashi[1], Morinobu Endo[1] ([1]Shinshu Univ., Japan)

CARBON FIBERS AND COMPOSITES

16P-I-70 Shape Memory and Actuator Characteristics of CNTs and Shape Memory Polymer Composites
Qing-Qing Ni[1], Mitsuhiro Yasuda[1] ([1]Shinshu Univ., Japan)

16P-I-71 Innovative Sandwich Composite Structure based on Biomimetics of the Beetle
Qing-Qing Ni[1], Hideaki Shirai[1], Toshiaki Natsuki[1] ([1]Shishu Univ., Japan)

16P-I-72 High-Alignment of Carbon Nanotubes/

Polyacrylonitrile Nanofibers
Xiaoping Yang[1], Gang Sui[1], Yunhua Yu[1], Jianying Ji[1], Seungkon Ryu[2] ([1]Beijing Univ. of Chemical Technology, China) ([2]Chungnam National University, Korea)

16P-I-73 Mechanical Properties of MWCNT/Elastomer Nanocomposites and Cellulation Model
Toru Noguchi[1], Shigeki Inukai[1], Hiroyuki Ueki[1], Akira Magario[1], Morinobu Endo[2] ([1]Nissin Kogyo Co., Ltd., Japan) ([2]Shinshu Univ., Japan)

16P-I-74 Mechanical and Electrical Properties of Carbon Nanofiber/Semi-crystalline Polymers Composites
Gang Sui[1], Xiaoping Yang[1], Yunhua Yu[1] ([1]Beijing Univ. of Chemical Technology, China)

16P-I-75 An Approach to Mass-producing Individually-alumina-decorated Multi-walled Carbon Nanotubes with Optimized and Controlled Compositions
Mehdi Estili[1], Akira Kawasaki[1], Kenta Takagi[1] ([1]Tohoku Univ., Japan)

16P-I-76 A gradient SiC-MoSi2 coating for carbon /carbon composites
Qian-Gang Fu[1], He-Jun Li[1], Ke-Zhi Li[1], Xiao-Hong Shi[1] ([1]Northwestern Polytechnical Univ., China)

16P-I-77 Carbon-Carbon Composites: Mesophase Pitch Based Carbon Matrices Containing Ultra Dilute Concentrations of Carbon Nanoparticles
Rebecca M Alway-Cooper[1], Amod Ogale[1] ([1]Clemson Univ., USA)

16P-I-78 Influence of Texture of Carbon Matrix on the Oxidation of Carbon-Carbon Composites
Shouquan Yu[1], Weigang Zhang[2] ([1]Institute of Process Engineering, Chinese Academy of Sciences, China) ([2]Institute of Process Engineering, CAS, China)

16P-I-79 Mechanical and Heat-resistant Properties of Surface Modified Multi-walled Carbon Nanotube-filled Rubber Composites
Kenji Takeuchi[1], Satoshi Iinou[2], Hiroyuki Ueki[3], Toru Noguchi[3], Morinobu Endo[1] ([1]Shinshu Univ., Japan) ([2]MEFS Corporation, Japan) ([3]Nissin Kogyo Co. Ltd, Japan)

16P-I-80 Thermal and Mechanical Properties of CNT/Natural Rubber Composites
Haruyuki Sano[1], Yoshihiko Komori[1], Kiyoshige Muraoka[1], Tetsuo Mizoguchi[1], Hitoshi Iwabuki[2], Masashi Urabe[2], Kazuya Nagata[2], Hiroyuki Ueki[3], Akira Magario[3], Toru Noguchi[3], Morinobu Endo[4] ([1]SRI R&D Ltd., Japan) ([2]Industrial Technology Center of Okayama Prefecture, Japan) ([3]Nissin Kogyo Co., Ltd) ([4]Shinshu Univ., Japan)

16P-I-81 Mechanical Properties of Low Heat-treated Multi-walled Carbon Nanotube/Elastomer Nanocomposites
Satoshi Iinou[1], Kenji Takeuchi[2], Hiroyuki Ueki[3], Toru Noguchi[3], Morinobu Endo[2] ([1]MEFS Co. Ltd., Japan) ([2]Shinshu Univ., Japan) ([3]Nissin Kogyo Co., Ltd., Japan)

16P-I-82 Effect of MWCNT on Molecular Mobility of EPDM Investigated by Pulsed NMR
Masashi Urabe[1], Hitoshi Iwabuki[1], Kazuya Nagata[1], Shigeki Inukai[2], Hiroyuki Ueki[2], Akira Magario[2], Toru Noguchi[2], Morinobu Endo[3] (Industrial Technology Center of Okayama Prefecture, Japan) ([2]Nissin Kogyo Co., Ltd., Japan) ([3]Shinshu Univ., Japan)

16P-I-83 Structural Characterization of Carbon Nanotube/Elastomer Composites by Thermally Stimulated Current Measurement
Shigeki Inukai[1], Hiroyuki Ueki[1], Akira Magario[1], Toru Noguchi[1], Taisei Hirayama[2], Morinobu Endo[3] ([1]Nissin Kogyo Co.,Ltd., Japan) (Rigaku Co,.Ltd., Japan) ([3]Shinshu Univ., Japan)

16P-I-84 Mechanical Properties of CNT-FKM Rubber Composites
Masaei Ito[1], Canyun Wang[1], Haruo Unosawa[1], Tsutomo Yamate[1], Toru Noguchi[2], Shigeki Inukai[2], Hiroyuki Ueki[2], Akira Magario[2], Morinobu Endo[3] ([1]Schlumberger K.K., Japan) ([2]Nissin Kogyo Co., Ltd., Japan) ([3]Shinshu Univ., Japan)

16P-I-85 Dynamic Viscoelastic Behaviors of CNT/Elastomer Composites
Eisuke Yamada[1], Takahide Kumagai[1], Shigeki Inukai[2], Hiroyuki Ueki[2], Akira Magario[2], Toru Noguchi[2], Morinobu Endo[3] ([1]Aichi Institute of Technology, Japan) ([2]Nissin Kogyo Co., Ltd.,) ([3]Shinshu Univ., Japan)

16P-I-86 Nano-scale Structural and Mechanical Analysis of CNT/Elastomer Composite
Ken Nakajima[1], Takaaki Igarashi[1], Shigeki Inukai[2], Hiroyuki Ueki[2], Akira Magario[2], Toru Noguchi[2], Morinobu Endo[3], Toshio Nishi[1] ([1]Tokyo Institute of Technology, Japan) ([2]Nissin Kogyo Co., Ltd., Japan) ([3]Shinshu Univ., Japan)

16P-I-87 Electrical Resistivity of Sheet-type Heaters Made of Polyimide with Nanocarbon Fillers
Tetsuya Isshiki[1], Yuki Ota[1], Yoshiyuki Hattori[1], Fujio Okino[1], Masanori Tomita[2], Takashi Yanagisawa[2] ([1]Shinshu Univ., Japan) ([2]GSI Creos Corporation, Japan)

16P-I-88 Improvement of the Properties of Insulating Polymers Using Choppedcarbon Fiber for Solid Rocket Motor Insulation
Ashraf Ahmed[1], Suong Hoa[1] ([1]Concordia Univ., Canada)

16P-I-89 Carbon Fiber Reinforced SiC Materials for Friction Application
Andreas Kienzle[1], Wilhelm Frohs[1] (SGL Group, Germany)

16P-I-90 Microstructures of Pyrocarbons Deposited on Different Carbon Fibers
Tongqi Li[1], Zi-Jun Hu[1] ([1]Aerospace Research Institute of Materials & Processing Technology)

16P-I-91 Bright Flexible Field Emission Display Device Using Carbon Nanofiber
Takashi Kita[1], M. Kawamura[1], O. Wada[1], H. Nakamura[2], H.

Yanagi[2], A. Magario[3], T. Noguchi[3] (Kobe University, Japan) ([2]Nara Institute of Science and Technology)([3]Nisshin Kogyo Co., Ltd.)

16P-I-92 Strength Enhancement of Carbon Nanofiber Reinforced Magnesium Alloy Composites Using Mechanical Alloying Technique at a Higher Milling Energy

Takashi Hosono[1], Yasuo Shimizu[1], Kiyofumi Shirouzu[1], Kei Tsukamoto[1], Teppei Takagi[1],Isamu Itoh[1], Kazuhiko Sakaki[1], Morinobu Endo[1] ([1]Shinshu Univ., Japan)

Hotel Metropolitan Room Kurohime: 16P-II

CHEMICAL PROPERTIES

16P-II-1 The Effect of $ZnCl_2$ Modifying on Structure and Mechanic Properties of Spin-use Large Tow Flame Retardant Polyacrylonitrile Fiber
Jie Liu[1], Chao Wang[1], Zhaokun Ma[1] ([1]Beijing Univ. of Chemical Technology, China)

16P-II-2 Nitrogen Enriched Active Carbons Obtained by Ammoxidation and their Physico-Chemical Properties
Robert Pietrzak[1], Piotr Nowicki[1], Helena Wachowska[1] ([1]Adam Mickiewicz Univ., Poland)

16P-II-3 Characterization of Brazilian Decant Oils and Pitches by Extrography and Gas Chromatography Coupled with Mass Spectrometry
Alexandre T Castro[1], Maria Helena Pereira[1], Luiz Castro[1], Ricardo Michel[2] ([1]Centro Tecnológico do Exército, Brazil) ([2]Universidade Federal do Rio de Janeiro, Brazil)

16P-II-4 Oxidation Behaviors of Selected Nuclear Grade Graphites
Eung-Seon Kim[1], Yong-Wan Kim[1] ([1]Korea Atomic Energy Research Institute, Korea)

16P-II-5 Study on Adsorption Property of Carbon Microspheres
Liu Guanghua[1], Guo Qiao-Mei[1], Wang Xiao-Min[1], Xu Bing-She[1] ([1]Taiyuan Univ. of Technology, China)

16P-II-6 A Simple Synthesis of Hollow Carbon Microspheres
Bingshe Xu[1], Qiuping Luo[1], Yongzhen Yang[1], Chunyi Zhang[1], Xuguang Liu[1] ([1]Taiyuan Univ. of Technology, China)

16P-II-7 Behavior of C_{60} during High-Temperature Treatment in Solutions of Hydrocarbons
Otakar Frank[1], Zdenka Pokorna[2], Vera Hamplova[2], Milan Bousa[3], Petr Vitek[3], Libor Juha[2], Jan Jehlicka[3] ([1]J.Heyrovsky Institute of Physical Chemistry, Czech Republic) ([2]Institute of Physics of the ASCR, v.v.i., Czech Republic) ([3]Charles Univ., Czech Republic)

16P-II-8 Effect of SiC on the Ablation Behavior of ZrB_2-SiC/C Composites
Tao Xiu Li[1] ([1]Aerospace Research Institute of Materials and Processing Technology)

16P-II-9
Removal of Ni Using Electrochemically Activated Carbon
Ilknur Kucuk[1], Berat Yilmaz[1], Mustafa Cankaya[1]
([1]Yildiz Technical Univ., Turkey)

CARBONIZATION AND GRAPHITIZATION

16P-II-10 Carbonization and Structure Properties of Film-typed Products Obtained from Cellulose Polymers
Naoya Miyajima[1], Naoto Ishikawa[1], Hideto Sakane[1], Hiroaki Hatori[2] ([1]Univ. of Yamanashi, Japan) ([2]AIST, Japan)

16P-II-11 Study on carbonization of Carbon Foam Precursor Derived from Phenolic Resin
ShiWen Lei[1], Quangui Guo[1], Jingli Shi[1], Lang Liu[1], Jinren Song[1] ([1]Institute of Coal Chemistry, Chinese Academy of Sciences, China)

16P-II-12 Study on carbonization of Carbon Foam Precursor Derived from Phenolic Resin
Alixe Dekeyrel[1], Marie-Anne Dourges[1], Rene Pailler[1], Nicolas Teneze[2] ([1]LCTS, France) ([2]CEA Le Ripault, France)

16P-II-13 Surface Structure of Graphitized Carbon Black
Jian Chen[1], Jin-ping[1] Zhao, Jing-yu Zhang[1] ([1]Sichuan Univ. of Science & Engineering, China)

16P-II-14 Porous Carbons Derived from Dried Gel and Micelle of Pi-conjugated Molecules Having Carbon-Carbon Triple Bonds
Yuichi Ichikawa[1], Yoshiaki Ayuta[1], Masashi Kijima[1] ([1]Univ. of Tsukuba, Japan)

16P-II-15 Preparation of Needle Coke from Anthracene; Oil-based Pitches
Juan Sutil[1], P. Álvarez[1], M. Granda[1], R. Menéndez[1] ([1]CSIC, Spain)

16P-II-16 Study on HNO_3 Oxidation and Carbonization Behaviors of Pitch Spheres
Wenming Qiao[1], Xiaojun Liu[1], Xiaoyi Liang[1], Chaojun Liu[1], Liang Zhan[1], Rui Zhang[1], Licheng Ling[1] ([1]East China Univ. of Science and Technology, China)

16P-II-17 Preparation of High Surface Area Activated Carbons through NaOH/KOH Activation
Wenming Qiao[1], Chuanxiang Zhang[1], Hongpeng Liu[1], Yingbo Xie[1], Rui Zhang[1], Liang Zhan[1], Licheng Ling[1] ([1]East China Univ. of Science and Technology, China)

16P-II-18 Microwave Arcing Induced Formation and Growth Mechanism of Core-shell Metal/Carbon Nanoparticles in Organic Solution
Yu-Lin Hsin[1], Kuo Chu Hwang[2] ([1]Industrial Technology Research Institute, Taiwan) ([2]National Tsing Hua Univ. Taiwan)

16P-II-19 Pyrolytic Conversion of Alkaline Lignin to Porous Carbon
Takaharu Hirukawa[1], Masashi Kijima[1], Toshimitsu Hata[2] (Univ. of Tsukuba, Japan) (Univ. of Kyoto, Japan)

16P-II-20 Template-free Preparation of Polymer and Carbon Hollow Spheres
Sang Won Kim[1], Chong Rae Park[1] ([1]Seoul National Univ., Korea)

16P-II-21 Catalyst Free Growth of Amorphous Carbon Needles at Low Temperature
Nyrki J. K. Rantonen[1], Toru Toyabe[1], Toru Maekawa[1] ([1]Toyo Univ., Japan)

16P-II-22 Graphite Nanostructures and the Graphitisation of Diamond (111) Face
Thomas E Weller[1], Steven Bennington[1], Kate Ronayne[1], Richard Jackman[1] ([1]RAL, UK)

16P-II-23 Modification of pyrolised oil shale to increase of phenol adsorption capacity
Dulce Maria de Ara_jo Melo[1], Marcus Antônio de Freitas Melo[1], Ary Leonídio do Carmo Assunção[1], Rodrigo César Santiago[1], Renata Martins Braga[1], Jardeylde Rosendo do Amaral[1], Danilo Brasil Ribeiro[1] ([1]Universidade Federal do Rio Grande do Norte., Brazil)

16P-II-24 Eutectic effect in the formation of coal based mesophase pitch
Qingfang Zha[1], Xianglin Cheng[1], Yansheng Guo[1], Xiaojun Yang[1], Huixin Zhang[1] ([1]China Univ. of Petroleum, China)

CHARACTERIZATION

16P-II-25 Pore Structure Analysis Using Small-angle X-ray Scattering(SAXS) Curve Simulation Technique based on the Relativity Concept
Se Hoon Gihm[1], Chong Rae Park[1] ([1]Seoul National Univ., Korea)

16P-II-26 Study on Porosity and Pore Size Distribution of Carbon and Graphite Strips Prepared from Mesocarbon Microbeads
Yongzhong Song (Institute of Coal Chemistry, Chinese Academy of Sciences, China)

16P-II-27 Production of Iron Oxide Coated Modified Activated Carbon
Dilek Duranoglu Gulbayir[1], Asli Avci[1], Ulker Gurbuz Beker[1], Ilknur Kucuk[1] ([1]Yildiz Technical Univ., Turkey)

16P-II-28 Potential of Coal-derived Precursors in the Development of Porous Carbons via Alkali Activation
Jacek Machnikowski[1], Krzysztof Kierzek[1], Helena Machnikowska[1] ([1]Wroclaw Univ. of Technology, Poland)

16P-II-29 Definition of Pseudocomponent Structures for Narrow Cuts of Petroleum Pitch
Ward A Burgess[1], Mark Thies[1] ([1]Clemson Univ., USA)