Poster Sessions MONDAY. JULY 14, 2008

18:30 – 21:00 POSTER SESSION 1

Hotel Metropolitan Room Asama C: 14P-I

ENVIRONMENT AND ENERGY

ADSORPTION, SURFACES AND POROUS MATERIALS

14P-I-18 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) 153

14P-I-19 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) 153

14P-I-20 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) 154

14P-I-21 Ab Initio and Density Functional Theory Potential Energy Curves for the Reaction of Atomic Hydrogen with Coronene
Ying Wang (Nagoya Univ., Japan) 154

14P-I-22 Effect of Pyrolysis Conditions on the Porosity of PPTA-derived Activated Carbon Fibers
Alberto Castro-Muñiz[1], Amelia Martínez-Alonso[1], Juan M D Tascon[1], ([1]Instituto Nacional of Carbon, CSIC, Spain) 155

14P-I-23 PPTA-Derived Activated Carbon Fibers. Effect of Phosphoric Acid as an Additive in their Preparation
Alberto Castro-Muñiz[1], Amelia Martínez-Alonso[1], Juan M D Tascón[1] ([1]Instituto Nacional del Carbón, CSIC, Spain) 155

14P-I-24 Stable Dispersion of Graphite Nanoplatelets in Organic Solvent
Wei Tong (Harbin Engineering Univ., China) 156

14P-I-25 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) 156

14P-I-26 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) 157

14P-I-27 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) 157

NANOTUBES

14P-I-28 External Electric Field Enhancement by Carbon Nanotubes
Leonid Grigorian[1], Alex E Moser[1] ([1]YTC America Inc., USA) 158

14P-I-29 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) 158

14P-I-30 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) 159

14P-I-31 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) 159

14P-I-32 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) 160

14P-I-33 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) 160

14P-I-34 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) 161

14P-I-35 Structure - Properties - Performance Relation-ship of Carbon Nanofiber Supported Pt Catalysts
De Chen[1], Ingvar Kvande[1], Magnus Rønning[1] ([1]NTNU, Norway) 162

14P-I-36 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) 163

14P-I-37 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) 163

NANOFORMS

ELECTOROCHEMISTRY, BATTERIES AND CAPACITORS

14P-I-57 Electrochemical Properties of Surface Fluorinated Graphite in Propylene Carbonate Containing Solvent
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]Univ. Bordeaux I, France) 173

14P-I-58 Preparation and Performances of Pitches-based Carbon Aerogel Electrodes for the Application of Electrochemical Capacitor
Ruowen Fu[1], Xianhua Zeng [1], Dingcai Wu[1] ([1]Sun Yat-sen Univ., China) 174

14P-I-59 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) 174

14P-I-60 Performance of B-C and B-C-N Composites as Electrodes for Electrochemical Capacitors
Hidetaka Konno[1], Teruhiko Ito[1] ([1]Hokkaido Univ., Japan) 175

14P-I-61 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., Japan) ([2]Chiba Univ., Japan) 175

14P-I-62 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) 176

14P-I-63 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) 176

14P-I-64 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) 177

14P-I-65 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) 177

14P-I-66 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) 178

14P-I-67 Anode Performance of Poly(p-phenylene terephthalamide)-based Carbon Electrodes as Secondary Li Ion Battery
Alberto Castro-Muñiz[1], Yong J Kim[2], Morinobu Endo[2], Amelia Martínez-Alonso[1], Juan M D Tascón[1] ([1]Instituto Nacional of Carbón, Spain) ([2]Shinshu Univ., Japan) 178

14P-I-68 Graphite with Enhanced Surface Area for Capacitor Electrode
Yasushi Soneda[1], Hiroaki Hatori[1] ([1]AIST, Japan) 179

14P-I-69 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) 179

14P-I-70 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) 180

14P-I-71 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) 180

CARBON FIBERS AND COMPOSITES

14P-I-72 Silicon Carbide and Carbon Open-cell Foams: CVD Processing and Characterization
Sophie Delettrez[1], Francis Langlais[1], Georges Chollon[1], Gerard Vignoles[1] ([1]LCTS, France) 181

14P-I-73 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) 181

14P-I-74 Effect of Impregnating Precursor and Carbon-ization 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) 182

Hotel Metropolitan Room Kurohime: 14P-II

DIAMOND AND GICS

BIOLOGICAL AND MEDICAL APPLICATIONS

CHARACTERIZATION

Poster Sessions TUESDAY, JULY 15, 2008

18:00 – 21:00 POSTER SESSION 2

Hotel Metropolitan Room Asama C: 15P-I

ENVIRONMENT AND ENERGY

15P-I-01 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) 206

15P-I-02 Measuring Cycle Efficiency and Capacitance of Chemically Activated Carbons
Diego Cazorla-Amoros[1], Dolores Lozano-Castello[1], Emilia Morallon[1], Angel Linares-Solano[1], Soshi Shiraishi[2]([1]Univ. of Alicante, Spain) ([2]Gunma Univ., Japan) 207

15P-I-03 Activated Carbon Fiber for Super-capacitor Electrode
Xuejun Zhang[1], Qiufei Chen[1] ([1]Beijing Univ. of Chemical Technology, China) 207

15P-I-04 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) 208

15P-I-05 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) 208

15P-I-06 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) 209

15P-I-07 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],Takahiro Hirotsu[1] (National Institute of Advanced Industrial Science and Technology, Japan) ([2]Chiba Univ., Japan) 209

15P-I-08 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) 210

15P-I-09 Improvement of Soil Quality around Red Pines in Forest by Sowing Biomass Charcoal Powder
Shuji Yoshizawa[1], Michio Ohata[1], Satoko Tanaka[1], Teiko Omori[2] ([1]Meisei Univ., Japan) ([2]Toho Univ., Japan) 210

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) 211

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) 211

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) 212

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) 212

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) 213

15P-I-15 Preparation of PAN-based Porous Carbon Nanofibers Using MgO as the Substrate
Min-Jung Jung[1], Jeong-Min Lee[1], Young-Seak Lee[1] ([1]Chungnam National Univ., Korea) 213

15P-I-16 Surface Modification of ACFs for Hydrogen Storage
Ohseob Kwon[1], Ji Sun Im[1], Soo-Jin Park[2], Young-Seak Lee[1] ([1]Chungnam National Univ., Korea) ([2]Inha Univ., Korea) 214

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) 214

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) 215

15P-I-19 Preparation and Characterization of Carbon/TiO_2 Composites
Won-Chun-Oh[1], Ming-Liang Chen[1], Young-Shin Ko[1] (Hanseo Univ., Korea) 216

15P-I-20 Synthesis and Characterization of Fe Containing C/TiO2 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) 216

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) 217

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) 217

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) 218

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) 218

15P-I-25 Removal of Zinc from Aqueous Solution by Adsorption onto Carbonaceous Materials Activated Using Oyster Shell
Takashi Asada[1], Masayuki Takano[2], Yuri Igari[2], Kuniaki Kawata[2], Kikuo Oikawa[2]

([1]Fukushima Univ., Japan)([2]Niigata Univ. of Pharmacy and Applied Life Sciences, Japan) 219

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[2], Kuniaki Kawata[2], Kikuo Oikawa[2] ([1]Fukushima Univ., Japan) ([2]Niigata Univ. of Pharmacy and Applied Life Sciences, Japan) 219

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) 220

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) 220

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) 221

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) 221

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) 222

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) 222

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) 223

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) 223

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) 224

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) 224

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) 225

15P-I-38 Simulations of Continuous Flow through Carbon Nanotubes
James J Cannon[1], Ortwin Hess[1] ([1]Univ. of Surrey, UK) 225

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) 226

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) 226

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) 227

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) 227

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) 228

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) 228

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) 229

15P-I-46

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) 230

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) 230

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) 231

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) 231

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) 232

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) 232

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) 233

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) 233

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) 234

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, Spain) 234

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) 235

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) 235

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) 236

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) 236

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], Rui Zhang[1], Xiaoyi Liang[1], Licheng Ling[1] ([1]East China Univ. of Science and Technology, China) 237

15P-I-62 The Effect of Surface Chemistry of Activated Carbon on its Electrochemical Properties
Wenming Qiao[1],Yingbo Xie[1], Rui Zhang[1], Liang Zhan[1], Licheng Ling [1] ([1]East China Univ. of Science and Technology, China) 237

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) 238

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-Univ. Orléans, USA) 238

15P-I-65 Formation of Cathodic Oxygen Reduction Catalyst with FeNx 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) 239

15P-I-66 Performance of Carbon Supercapacitors Using RTIL Electrolytes
Anthony G. Pandolfo, Claude Sacchetta, Graeme Snook, Gregory Wilson (CSIRO - Energy Technology, Australia) 239

15P-I-67 Preparation and Characterization of High-Power Anode Materials Using
Myung Soo Kim, Dae-Yong Park, Yun-Soo Lim (Myongji Univ., Korea) 240

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 Hirono[3], 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) 240

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) 241

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) 241

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) 242

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) 242

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) 243

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) 243

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) 244

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) 244

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) 245

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) 245

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) 246

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) 246

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) 247

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) 247

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) 248

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) 248

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) 249

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) 249

15P-I-87 Development of CNFs/Natural Rubber Composite
Qing-Qing Ni[1], Hongxia Jiang[1], Toshiaki Natsuki[1] ([1]Shinshu Univ., Japan) 250

15P-I-88 High Frequency Viscoelastic Properties of Nanocomposites by Ultrasonic Measurement
Qing-Qing Ni[1], Tetsuya Kunizawa[1]
([1]Shinshu Univ., Japan) 250

15P-I-89 Development of Functionally Graded Al/CNTs Composite
Qing-Qing Ni[1], Kouhei Kubota[1], Isao Nakamura[1] ([1]Shinshu Univ., Japan) 250

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) 251

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) 251

15P-I-92 Application to High Damping Material of MWNT/elastomer Nanocomposites
Yuichi Nakamura[1], Takashi Yazaki[1], Katsuo Okamoto[1],

Hotel Metropolitan Room Kurohime: 15P-II

PHYSICAL PROPERTIES

INDUSTRIAL APPLICATIONS

CHARACTERIZATION

Poster Sessions WEDNESDAY, JULY 16, 2008

18:00 – 21:00 POSTER SESSION 3

Hotel Metropolitan Room Asama C: 16P-I

ENVIRONMENT AND ENERGY

ADSORPTION, SURFACES AND POROUS MATERIALS

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) 275

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) 275

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) 276

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) 276

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) 277

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) 277

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) 278

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) 278

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) ([2]Univ. of Tokyo, Japan) 279

NANOTUBES

16P-I-25 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) 279

16P-I-26 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) 280

16P-I-27 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) 280

16P-I-28 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) 281

16P-I-29 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) 281

16P-I-30 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) ([2]Kyunghee Univ., Korea) ([3]Inha Univ., Korea) 282

16P-I-31 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] ([1]Yokohama City Univ., Japan) ([2]Kanazawa Univ., Japan) 282

16P-I-32 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) 283

16P-I-33 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) 283

16P-I-34 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) ([2]Univ. of Cambridge, United Kingdom) ([3]Univ. of Manchester, United Kingdom) 284

16P-I-35 Effect of Rubidium Flouride on the field Emission Properties of Carbon Nanostructures
Sandeep Chhoker[1], Vasant D Vankar[1] ([1]IIT Delhi, Hauzkhas, India) 284

16P-I-36 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) 285

16P-I-37 Patterned Growth of CNTs by AFM Nano-oxidation
Chien-Chao Chiu[1], Masamichi Yoshimura[1], Kazuyuki Ueda[1] ([1]Toyota Technological Institute, Japan) 285

16P-I-38 Carbon arc Synthesis of SWCNTs and Plasma Diagnostics
Hubert Lange[1], Michal Bystrzejewski[1], Andrzej Huczko[1] ([1]Warsaw Univ., Poland) 286

16P-I-39 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) 286

16P-I-40 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) 287

16P-I-41 Ultrasonic Vibration of Fluid-Filled Double-walled Carbon Nanotubes
Toshiaki Natsuki[1], Qing-Qing Ni[1], Morinobu Endo[1] ([1]Shinshu Univ., Japan) 287

16P-I-42 Mechanical Properties of Carbon Nanotubes under Hydrostatic Pressure
Naoki Fujita[1], Toshiaki natsuki[1], Qing-Qing Ni[1] ([1]Shinshu Univ., Japan) 288

16P-I-43 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) 288

16P-I-44 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) 289

16P-I-45 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) 289

NANOFORMS

16P-I-46 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) 290

16P-I-47 Application of Polymer Blend to Construct Concentric Multiple-layered Hollow Shell Carbons
Terukazu Sandou[1], Jun-ichi Ozaki[1] ([1]Gunma Univ., Japan) 290

16P-I-48 Self-assembling, Hierarchy and Architectures of Carbon Nanoobjects
Sergey V. Kozyrev[1], Alexey E. Madison[1] ([1]Petersburg State Polytechnical Univ., Russia) 291

16P-I-49 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.) 292

16P-I-50 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.) 292

16P-I-51 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) 293

ELECTOROCHEMISTRY, BATTERIES AND CAPACITORS

16P-I-52 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) 293

16P-I-53 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) 294

16P-I-54 Improvement of Electrode/electrolyte Interface Resistance at Activated Carbon/DNA Composite Electrodes for Aqueous EDLC

CARBON FIBERS AND COMPOSITES

LATE SUBMISSION

16P-I-91 Evaluation Research of MWCNT / Elastomer Nanocomposites and Cellulation Model for Valve Sealing Components
Yuichi Asano[1], Toru Noguchi[2], Hiroyuki Ueki[2], Shigeki Inukai[2], Akira Magario[2],Mitsufumi Soyama[3], Morinobu Endo[4] ([1]KITZ Co, Japan) ([2]Nissin Kogyo Co., Ltd., Japan) ([3] Kowa Rubber Industries Co., Ltd., Japan) ([4] Shinshu Univ., Japan) 313

16P-I-92 Mechanical Properties of MWCNT/Elastomer Nanocomposites at Low Hardness
Mitsufumi Soyama[1], Kouki Miyagawa[1], Takashi Yanagisawa[1], Shigeki Inukai[2], Hiroyuki Ueki[2], Akira Magario[2], Toru Noguchi[2], Morinobu Endo[3] ([1] Kowagomu Kogyo Co., Ltd., Japan) ([2] Nissin Kogyo Co., Ltd., Japan) ([3] Shinshu Univ., Japan) 314

16P-I-93 A Highly-Dispersed Attachment of Silver Nanoparticles on Surface-Functionalized Multi-Walled Carbon Nanotubes by an Electrostatic Interaction
Feng Wang[1], Dongsheng Yan[1], Yongbin Zhao[1], Jingjun Liu[1] ([1]Beijing Univ. of Chemical Technology, China) 314

16P-I-94 A Facile Route to Synthesize Carbon-Nanotube /Cadmium-Sulfide Hybrid Heterostructures and Their Optical Properties
Feng Wang[1], Yongbin Zhao[1], Haijing Liu[1], Jingjun Liu[1] ([1]Beijing Univ. of Chemical Technology, China) 315

16P-I-95 Towards Ultrasensitive Method for Determination of Metal Impurities in Carbon Nanotubes: Comparative Study of Magnetic Susceptibility, EPR, EDX, XPS and TGA Methods
Martin Pumera[1], Taras Kolodiazhnyi[1] ([1]National Institute for Materials Research, Japan) 315

Hotel Metropolitan Room Kurohime: 16P-II

CHEMICAL PROPERTIES

16P-II-01 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) 316

16P-II-02 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) 316

16P-II-03 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) 317

16P-II-04 Oxidation Behaviors of Selected Nuclear Grade Graphites
Eung-Seon Kim[1], Yong-Wan Kim[1] ([1]Korea Atomic Energy Research Institute, Korea) 317

16P-II-05 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) 318

16P-II-06 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) 318

16P-II-07 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) 319

16P-II-08 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) 319

16P-II-09 Removal of Ni Using Electrochemically Activated Carbon
Ilknur Kucuk[1], Berat Yilmaz[1], Mustafa Cankaya[1] ([1]Yildiz Technical Univ., Turkey) 320

16P-II-10 Oxidation of Graphites for Future Nuclear Systems
Baerbel Schloegl[1], Hans K. Hinssen[1], Rainer Moormann[1] ([1]Research Center Juelich, Germany) 320

CARBONIZATION AND GRAPHITIZATION

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) 321

16P-II-12 A Hybrid Process for the Synthesis of High Density Carbon/Carbon Composites Using Moderate Pressure
Alixe Dekeyrel[1], Marie-Anne Dourges[1], Rene Pailler[1], Nicolas Teneze[2] ([1]LCTS, France) ([2]CEA Le Ripault, France) 321

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) 322

16P-II-14 Porous Carbons Derived from Dried Gel and Micelle of Pi-conjugated Molecules Having Carbon-carbon Triple Bonds

CHARACTERIZATION