

Annual World Conference on Carbon 2010

**Clemson, South Carolina, USA
11-16 July 2010**

ISBN: 978-1-61782-959-8

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2010) by the American Carbon Society
All rights reserved.

Printed by Curran Associates, Inc. (2011)

For permission requests, please contact the American Carbon Society
at the address below.

American Carbon Society
c/o Dr. Wesley Hoffman, Chairman
Air Force Research Laboratory
AFRL/PRSM
10 E. Saturn Blvd.
Edwards California 93524-7680

Phone: (661)-275-5768
Fax: (661)-275-5007 or 5073

wesley.hoffman@edwards.af.mil

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

SIMULATION OF AN ELECTROLYTE CONFINED WITHIN A CHARGED POROUS CARBON MEDIA	1
<i>Laure Delfour, Roland Pelleng, Guy Tréglià</i>	
OXYCARBIDE-DERIVED CARBON (OCDC): A NOVEL FORM OF HIGHLY POROUS CARBON	3
<i>Gian D. Soraru, P. R. Aravind, Raquel Pena-Alonso, Hans-Joachim Kleebe</i>	
PCM/HYBRID FOAM SYSTEM IN TEMPERATURE CONTROL APPLICATION	5
<i>Mohammad Almajali, Khalid Lafdi, Paul Prodhomme</i>	
EFFECT OF COPPER COATING ON THERMO-PHYSICAL PROPERTIES OF CARBON FOAM	7
<i>Mohammad Almajali, Khalid Lafdi, Paul Prodhomme</i>	
DESIGN OF CARBON FOAM HEAT EXCHANGER FOR THERMOELECTRIC COOLER SYSTEM	9
<i>Mohammad Almajali, Khalid Lafdi, Antoine Delort</i>	
ELECTRICAL DETECTION OF DNA HYBRIDIZATION USING TRANSISTORS BASED ON CVD-GROWN GRAPHENE SHEETS	11
<i>Lain-Jong Li, Xiaochen Dong, Peng Chen, Yumeng Shi</i>	
DIRECT GROWTH OF GRAPHENE ON SPUTTER-DEPOSITED AL₂O₃ THIN LAYER ON SiO₂/Si SUBSTRATE BY THERMAL CHEMICAL VAPOR DEPOSITION METHOD	13
<i>Makoto Okai, Kumiko Tokumoto, Takashi Kyotani, Masahide Tokuda, Ken Tsutsui, Yasuo Wada</i>	
UTILIZATION OF SHUNGITE FOR IMPROVING QUALITY AND SAFETY OF JUICES	15
<i>L. M. Melnyk, T. B. Sheiko</i>	
MODELING THE ADSORPTION OF VOLATILE ORGANIC COMPOUNDS ONTO ACTIVATED CARBONS	17
<i>Sylvain Giraudet, Pascaline Pré, Olivier Baudouin, Stéphane Dechelotte, Pierre Le Cloirec</i>	
THE DEVELOPMENT OF FLEXIBLE GRAPHITE HEAT SPREADERS FOR ELECTRONICS COOLING APPLICATIONS	19
<i>Julian Norley, Helen Mayer, John Chang, Marty Smalc, Yin Xiong, John Southard</i>	
HIGH CONCENTRATION PREFERENTIAL ADSORPTION OF ZINC CHLORIDE ONTO ACID TREATED ACTIVATED CARBON AND COMPARISON TO COPPER ACETATE AND ZINC ACETATE	21
<i>Afnad Farooq, Muhammad Irfan, Sheeraz Mehboob, Asif Mahmood, Muhammad Mansha Chaudhary, Naseem Irfan</i>	
PILOT-SCALE STUDY ON ARSENIC REMOVAL WITH IRON-TAILORED ACTIVATED CARBON AND CARBON COUPLED WITH ZERO-VALENT IRON	23
<i>Weifang Chen, Robert Parette, Fred S. Cannon, Will Sheehan</i>	
REMOVING UNDESIRABLE VOCs FROM BIOGASES USING THE ELECTROCHEMICAL SWING ADSORPTION ONTO ACTIVATED CARBON FIBER CLOTHS	25
<i>Benoît Boulinguez, Sylvain Giraudet, Pierre Le Cloirec</i>	
EVALUATION OF DIFFERENT CONDITIONS IN THE MELT-SPINNING PROCESS OF PETROLEUM PITCHES	27
<i>Fabio Franceschi, Luiz Depine De Castro, Ricardo C. Michel</i>	
THE INFLUENCE OF MESOPORES ON THE KINETICS OF ORGANIC VAPOUR ADSORPTION BY ACTIVATED CARBONS	29
<i>P. Lodewyckx, M. Vaclavikova, I. Berezovska, S. Tennison, O. Kozynchenko, M. Giles</i>	
COAXIAL CARBON NANOTUBES: DOUBLE-WALLED CARBON NANOTUBES	31
<i>Morinobu Endo, Hiroyuki Muramatsu, Takuya Hayashi, Yoong Ahn Kim</i>	
HG(II) REMOVAL FROM AQUEOUS SOLUTION BY MAGNETIC POWDERED ACTIVATED CARBON: CLOSING THE MASS BALANCE	33
<i>Emily Faulconer, Natalia Hoogesteijn, David Mazyck</i>	
PREPARATION AND CHARACTERIZATION OF HIGH SURFACE AREA ACTIVATED CARBONS FROM PALM SHELLS SUITABLE FOR ADSORPTION OF HIGHER MOLECULAR WEIGHT COMPOUNDS	35
<i>W. C. Lim, C. Srinivasakannan</i>	
DEVELOPMENTS IN LASER SYNTHESIS OF NANOSCALE CARBONS FOR POLYMER-BASED COMPOSITES	37
<i>Lavinia Gavrița-Florescu, Eugeniu Vasile, Liviu Dumitrache, Ana Stan, Raluca Ianchis, Ion Sandu, Ruxandra Birjega</i>	
COMPARISON OF NOVEL CARBON-BASED SCAFFOLDS TO GRAFTJACKET IN TENDON REPAIR	39
<i>J. S. Czarnecki, K. Lafdi, R. M. Joseph, P. A. Tsonis</i>	
NOVEL CARBON FOAM/POLYCAPROLACTONE SCAFFOLDS FOR TISSUE ENGINEERING APPLICATIONS	41
<i>J. S. Czarnecki, K. Lafdi, P. A. Tsonis</i>	
CARBON NANOTUBE FORMATION IN BULK CARBONACEOUS SOLIDS VIA IN-SITU CARBONIZATION OF LOW-COST ORGANIC PRECURSORS IN THE PRESENCE OF METALLIC NANOPARTICLES	44
<i>Teddy M. Keller, Matthew Laskoski, Jeffrey W. Long, Syed B. Qadri</i>	
INFLUENCE OF RESIN-DERIVED CARBON ON WEAR PERFORMANCE OF CARBON CARBON COMPOSITES	46
<i>Bao-Ling Lei, Mao-Zhong Yi, Hui-Juan Xu, Li-Ping Ran, Yi-Cheng Ge, Ke Peng</i>	
SYNTHESIS AND CHARACTERISTICS OF CARBON ENCAPSULATED NANOPARTICLES MODIFIED BY NOBLE METALS	48
<i>Boris B. Bokhonov</i>	

CARBON MATERIALS AS ULTRACAPACITOR ELECTRODES	50
<i>X. S. Zhao, Li Li Zhang, Zhibin Lei</i>	
ALIGNED CARBON NANOTUBES TO REDUCE CONTACT THERMAL IMPEDANCE	52
<i>K. Lafdi, R. Harris, M. O. Memon</i>	
PRODUCTION OF CARBON NANOFIBERS/TUBES FROM VARIOUS ALCOHOLS USING THE LIQUID PULSE INJECTION TECHNIQUE	54
<i>Shin R. Mukai, Atsushi Ikeshita, Hitoshi Shibashita, Riku Furukawa</i>	
ELECTROCHEMICAL CHARACTERIZATION OF GRAPHENE BASED MATERIALS FOR SUPERCAPACITOR APPLICATIONS	56
<i>Seong-Min Bak, Sang-Bok Ma, Kwang-Bum Kim</i>	
GRAPHENE-OXIDE-POLYMER COMPOSITES AS HIGH-PERFORMANCE SUPERCAPACITOR ELECTRODES	58
<i>Li Li Zhang, Shanyu Zhao, Xiao Ning Tian, X. S. Zhao</i>	
IN SITU SYNTHESIS OF ENCAPSULATED TIN/TIN OXIDES PARTICLES IN POROUS CARBON NANO FIBERS WITH RESIDUAL SPACES AROUND THE PARTICLES AND ITS ELECTROCHEMICAL PERFORMANCE	60
<i>Lin Zou, Lin Gan, Ruitao Lv, Mingxi Wang, Zhenghong Huang, Feiyu Kang, Wanci Shen</i>	
CONTINUOUS GRAPHITE MATRIX COMPOSITES FOR HIGH TEMPERATURE PEM FUEL CELLS	61
<i>Ryan J. Wayne, Orest L. Adrianowycz, Julian Norley, David Stuart</i>	
ABLATION OF C/C COMPOSITES: ROUGHNESS AND REACTIVITY	63
<i>G. L. Vignoles, J. Lachaud, Y. Aspa, M. Quintard</i>	
FRICITION OF CARBONS PART 1: FRICTION WEAR AND TRANSITION	65
<i>Khalid Lafdi, Kia Moh Teo</i>	
FRICITION OF CARBONS PART 2: SURFACE ANALYSIS	67
<i>Khalid Lafdi, Kia Moh Teo</i>	
ACOUSTIC PROPERTY DEVELOPMENT FROM WOOD TO CARBON COMPOSITE	69
<i>Kurt Woods, Christopher Byrne</i>	
NANOSTRUCTURED CARBON CATALYSTS: EFFECT OF SURFACE CHEMISTRY AND POROSITY ON GOLD NANOPARTICLE ACTIVITY	71
<i>Christopher Karwacki, Jun Jie Niu, Yury Gogotsi</i>	
PREPARATION AND APPLICATIONS OF THIN-WALLED CARBON NANOTUBES FILLED WITH MAGNETIC NANOWIRES	73
<i>Ruitao Lv, Feiyu Kang</i>	
CARBONACEOUS MATERIALS OBTAINED FROM SUNFLOWER HUSKS FOR NO₂ REMOVAL	75
<i>Angelika Rutkowska, Piotr Nowicki, Robert Pietrzak</i>	
REMOVAL OF NO₂ ON ACTIVE CARBONS OBTAINED FROM WASTE TIRES	77
<i>M. Hofman, R. Pietrzak</i>	
NO₂ REMOVAL ON ADSORBENTS OBTAINED BY PYROLYSIS OF CARDBOARD	79
<i>Marta Suplat, Piotr Nowicki, Helena Wachowska, Robert Pietrzak</i>	
SORPTION PERFORMANCE TOWARDS NO₂ OF NITROGEN-ENRICHED ADSORBENTS OBTAINED FROM SAWDUST PINE	81
<i>Katarzyna Sawicka, Piotr Nowicki, Helena Wachowska, Robert Pietrzak</i>	
A NEW METHODOLOGY FOR MODELLING THE FAILURE CHARACTERISTICS OF NUCLEAR GRAPHITES	83
<i>Gary D. Kipling, Gareth B. Neighbour</i>	
THE CONTRIBUTION OF SURFACE FIELD INDUCED DIPOLES TO FLUID-FLUID AND FLUID-SOLID ADSORPTIVE POTENTIALS AS MODELED BY NLDFT	85
<i>James P. Olivier, Jacek Jagiello</i>	
REMOVAL OF IONIC LIQUIDS AND METHYLENE BLUE USING VARIOUS ACTIVATED CARBONS	87
<i>Amjad Farooq, Laurence Reinert, Jean-Marc Leveque, Nicolas Papaiconomou, Naseem Irfan, Laurent Duclaux</i>	
STRUCTURAL ANALYSIS OF KI CRYSTALS PRODUCED IN CARBON NANOSPACES	89
<i>Koki Urita, Yuichi Shiga, Toshihiko Fujimori, Yoshiyuki Hattori, Hirofumi Kanoh, Masako Yudasaka, Sumio Iijima, Fujio Okino, Isamu Moriguchi, Katsumi Kaneko</i>	
INFLUENCE OF THERMAL TREATMENT ON MECHANICAL PROPERTIES OF ACTIVATED CARBON FIBERS	91
<i>Jossano S. Marcuzzo, Choyu Otani, Heitor A. Polidoro, Satika Otani</i>	
VERTICALLY ALIGNED CARBON NANOTUBES: FROM NANOSCALE SELF-ORGANIZATION TO MACROSCALE PRODUCTION AND APPLICATION	93
<i>Qiang Zhang, Meng-Qiang Zhao, Jia-Qi Huang, Guang-Hui Xu, Wei-Zhong Qian, Fei Wei</i>	
PYROLYSIS OF CARBON-BASED WASTE MATERIALS - A REVIEW	95
<i>Michael A. McGuire, Gareth B. Neighbour</i>	
ELECTROCHEMICAL BEHAVIOR OF HALOGENDOPED CARBON MATERIALS	97
<i>O. Tanaïke, Y. Yamada, K. Yamada, M. Kodama, H. Hatori, N. Miyajima</i>	
PREPARATION OF POROUS CARBON WITH NANOTUBE-LIKE PORE STRUCTURE AND THEIR ELECTROCHEMICAL PROPERTIES FOR SUPERCAPACITOR	99
<i>Wenfeng Zhang, Zheng-Hong Huang, Gaoping Cao, Yusheng Yang, Feiyu Kang</i>	
ENHANCED HYDROGEN ADSORPTIVITY OF FULLERENE-PILLARED SINGLE WALL CARBON NANOTUBE	101
<i>Miki Arai, Shigenori Utsumi, Mamiko Kanamaru, Koki Urita, Toshihiko Fujimori, Noriko Yoshizawa, Daisuke Noguchi, Katsuhiko Nishiyama, Yoshiyuki Hattori, Fujio Okino, Tomonori Ohba, Hideki Tanaka, Hirofumi Kanoh, Katsumi Kaneko</i>	

NON-COVALENTLY FUNCTIONALIZED MULTIWALLED CARBON NANOTUBES AS NOVEL ACTIVE AND REUSABLE ACID CATALYSTS	103
<i>J. Souquet-Grumey, H. Plaisantin, J. Thébaud, F. Jérôme, J. Barraut, J. -M. Tatibouët, S. Valange</i>	
CHARACTERIZATION OF CARBONACEOUS MATERIALS WITH RESPECT TO SLURRY-ABRASION	105
<i>Martin Kucher, Frank Hiltmann, Oswin Oettinger</i>	
EARLY STAGE IN THE NUCLEATION PROCESS OF CARBON NANOTUBES: DENSITY-FUNCTIONAL TIGHT-BINDING MOLECULAR DYNAMICS SIMULATIONS OF ACETYLENE OLIGOMERIZATION AND CROSS-LINKING ON AN Fe₃₈ PARTICAL	107
<i>Ying Wang, Yasuhito Ohta, Hujun Qian, Keiji Morokuma, Stephan Irle</i>	
HIERARCHICALLY STRUCTURED SULFUR/CARBON NANOCOMPOSITE FOR HIGH ENERGY LITHIUM BATTERIES	109
<i>Jane Y. Howe, Chengdu Liang, Nancy J. Dudney</i>	
EFFECT OF THE SUPPORT ON THE CATALYTIC ACTIVITY OF PALLADIUM NANOPARTICLES: CARBON NANOTUBES VERSUS ALUMINA	111
<i>Izaskun Miguel-García, Ángel Berenguer-Murcia, Diego Cazorla-Amorós</i>	
HYDROTHERMAL CARBON MATERIALS- ECONOMICAL, GREEN AND VALUABLE	113
<i>Maria-Magdalena Titirici, Rezan Demir-Cakan, Niki Baccile, Li Zhao, Shiori Kubo, Robin J White, Jelena Popovic, Markus Antonietti</i>	
FORMATION OF SILICON CARBIDE NANOWIRES FROM ANTRACITE SURFACES	115
<i>He Huang, Fred S. Cannon, Sridhar Komarneni</i>	
ADSORPTION OF BIOMOLECULES ON NANOSHELL CARBON	117
<i>Masayoshi Matsui, Nozomi Takahashi, Jun-Ichi Ozaki</i>	
THE EFFECT OF OXIDATIVE STABILIZATION ON THE SINTERING OF MESOCARBON MICROBEADS AND IN-SITU OBSERVATION OF THEIR CARBONIZATION PROCESS	119
<i>Ke Shen, Zheng-Hong Huang, Feiyu Kang, Wanci Shen, Junhe Yang</i>	
THE EFFECT OF AN IRON OXIDE CATALYST (Fe₃O₄) ON THE CHARACTERISTICS OF WAXY OIL COKE	121
<i>J. G. Clark, B. Rand, M. P. Hayes, W. Barnard, S. Lubhelwana</i>	
FIXED BED ADSORPTIVE REMOVAL OF Pb (II) IONS FROM AQUEOUS SOLUTION USING ACTIVATED CARBONS	123
<i>Meenakshi Goyal, Mamta Bhagat</i>	
FRACTURE BEHAVIOR OF COARSE GRAIN GRAPHITES INVESTIGATED BY ACOUSTICE-MISSION AND CT-ANALYSIS	126
<i>Thomas Köck, Wolfgang Skopalik, Markus G. R. Sause, Siegfried Horn</i>	
OXIDATION OF FILLED CARBON NANOTUBES INSIDE A TRANSMISSION ELECTRON MICROSCOPE	128
<i>Pedro M. F. J. Costa, Thomas W. Hansen, Jakob B. Wagner, Rafal E. Dunin-Borkowski</i>	
MOF-GRAPHENE COMPOSITES: AN INSIGHT INTO THE TEXTURE AND ADSORPTION PROPERTIES OF NEW MATERIALS	130
<i>Camille Petit, Teresa J. Bandoz</i>	
REACTIVE ADSORPTION OF ARSINE ON SULFUR -CONTAINING CARBONS: ROLE OF SURFACE CHEMISTRY IN THE OXIDATION PROCESS AT AMBIENT CONDITIONS	132
<i>Camille Petit, Gregory W. Peterson, John Mahle, Teresa J. Bandoz</i>	
ADSORPTION OF DIBENZOTHIOPHENES ON NANOPOROUS CARBONS: IDENTIFICATION OF SPECIFIC ADSORPTION SITES GOVERNING CAPACITY AND SELECTIVITY	134
<i>Mykola Serebych, Teresa J. Bandoz</i>	
TEMPLATE SYNTHESIS METHODS OF MESOPOROUS CARBONS WITH ZEOLITES	136
<i>M. J. Valero, J. Bedia, J. Rodríguez-Mirasol, T. Cordero</i>	
FLUORESCENT CARBON NANOPARTICLES FROM HYDROTHERMAL CARBON	138
<i>S. A. Wohlgenuth, R. J. White, M. M. Titirici</i>	
THE ELECTRICAL CONDUCTIVITY OF THE HIGH CONTACTS BETWEEN NATURAL CRYSTALLINE GRAPHITE FLAKES	140
<i>Anton V. Dmitriev, Alexandr A. Ershov, Igor A. Basharin</i>	
BIOMASS DERIVED POROUS CARBONACEOUS MATERIALS	142
<i>Robin J. White, Maria-Magdalena Titirici, Markus Antonietti</i>	
HYDROTHERMAL CARBONISATION OF AGRICULTURAL WASTES	144
<i>Camillo Falco, Maria-Magdalena Titirici, Markus Antonietti</i>	
CARBON NANOTUBES AS CONDUCTIVE AGENT FOR LITHIUM-ION BATTERIES ELECTRODES	146
<i>Alberto Varzi, Corina Täubert, Margret Wohlfahrt-Mehrens, Martin Kreis, Walter Schütz</i>	
IN-SITU MONITORING OF THE CATALYTIC CHEMICAL VAPOR DEPOSITION OF CARBON NANOTUBES	148
<i>K. Reinhold-López, A. Schmitt, A. Braeuer, N. Popovska, A. Leipertz</i>	
ACTIVATED HYBRID COMPOSITES FOR ENERGY STORAGES	150
<i>Bakheet Alreshedi, Lingchuan Li, Khalid Lafdi</i>	
HIGH-THROUGHPUT IMAGING OF GRAPHENE BASED SHEETS ON ARBITRARY SUBSTRATES AND IN SOLUTION BY FLUORESCENCE QUENCHING MICROSCOPY	152
<i>Jaemyung Kim, Laura J. Cote, Franklin Kim, Jiaying Huang</i>	
GRAPHISATION IN PRESENCE OF IRON - ASTRONOMICAL IMPLICATIONS	154
<i>Emeline Charon, Jean-Noël Rouzaud, Jérôme Aleon, Mohamed Ramzi Ammar</i>	
ROOM TEMPERATURE IONIC LIQUID MIXTURES AS EDLC ELECTROLYTES	156
<i>V. Ruiz, T. Huynh, S. R. Sivakkumar, A. G. Pandolfo</i>	

HIGH FREQUENCY BEHAVIOUR OF MICROPOROUS CARBONS IN SUPERCAPACITORS	158
<i>V. Ruiz, A. G. Pandolfo</i>	
INFLUENCE OF CARBURIZATION BY USING CHARCOAL FOR CAST IRON AS RECARBURIZER	160
<i>Toyoshi Manabe, Mitsuhiro Sakawa, Masato Inada, Sakae Horisawa, Yusuke Doi, Hiroaki Ido</i>	
GRAPHITIZATION BEHAVIOR RELATED TO TEXTURE OF KAPTON DERIVED CARBON FILM STUDIED BY RAMAN SPECTROSCOPY, XRAY DIFFRACTOMETRY AND SCANNING ELECTRON MICROSCOPY	162
<i>Akira Yoshida, Yutaka Kaburagi, Yoshihiro Hishiyama</i>	
SELECTIVE ADSORPTION OF SOFT HEAVY METAL IONS WITH THIOLATED CARBON NANOTUBES PREPARED BY PLASMA FUNCTIONALIZATION	164
<i>Shahab Boroon, Yadollah Mortazavi, Abbasali Khodadadi</i>	
SYNTHESIS OF AMINO-FUNCTIONALIZED CARBON NANOTUBES WITH PLASMA ACTIVATION FOLLOWED BY CHEMICAL TREATMENT	166
<i>Shahab Boroon, Yadollah Mortazavi, Abbasali Khodadadi, Fathollah Pourfayaz</i>	
METAL ADSORPTION STUDY OF CARBON NANOTUBES FUNCTIONALIZED BY CARBOXYLIC ACID GROUPS USING DIELECTRIC BARRIER DISCHARGE PLASMA	168
<i>Masoud Vesali Naseh, Abbasali Khodadadi, Yadollah Mortazavi, Shahab Boroon, Fathollah Pourfayaz</i>	
FABRICATION OF POROUS SIC MAT FOR RADIATION HEATER BY CONTROLLING RHEOLOGY OF POLYCARBOSILANE	170
<i>K. Y. Cho, D. G. Shin, E. B. Park, D. H. Riu</i>	
MICROSTRUCTURAL DIFFERENCE BETWEEN THE CORE AND SKIN OF A T700 CARBON FIBER IN THE C/C COMPOSITE AFTER HEAT-TREATED	172
<i>G. H. Zhou, Y. Q. Liu, L. L. He</i>	
INFLUENCE OF PLASMA AND ACID TREATMENTS ON ELECTRICAL PROPERTIES OF MULTI-WALL CARBON NANOTUBES	174
<i>Fathollah Pourfayaz, Yadollah Mortazavi, Abbas-Ali Khodadadi, Seyed-Hassan Jafari, Masoud Vesali Naseh, Shahab Boroon</i>	
CRYPTOCRYSTALLINE GRAPHITE ORE DESTRUCTION UNDER PRESSURE OF PAIRS OF POREWATER	176
<i>Anton V. Dmitriev</i>	
EFFECTS OF SYNTHESIS TEMPERATURE OF PF RESIN AND TRIBLOCK COPOLYMERS ON ORDERED MESOPOROUS CARBONS	178
<i>Xuejun Zhang, Yaxin Zhang, Zengmin Shen</i>	
TERMINATION OF CARBON NANOTUBE GROWTH: EFFECT OF SUBSTRATE STRUCTURE	180
<i>Placidus Amama, Cary Pint, Seung Min Kim, Eric Stach, Robert Hauge, Benji Maruyama</i>	
HIGH DENSITY CARBON/CARBON MANUFACTURED BY AN HYBRID PROCESS, INVOLVING PITCH IMPREGNATION UNDER MODERATE PRESSURES	182
<i>A. Dekeyrel, A. Allemand, M.-A. Dourges, R. Pailler, N. Teneze, J. Blein, P. David</i>	
HOMOGENIZATION OF THE THERMOELASTIC PROPERTIES OF PYROLYTIC CARBON	184
<i>S. Lin, T. Böhlke, R. Piat, I. Tsukrov, T. Grossand, B. Reznik</i>	
COMPLETE CHARACTERIZATION OF STRUCTURAL HETEROGENEITY OF SINGLE WALLED CARBON NANOTUBES: NEW T-PLOT METHOD	186
<i>Sandeep Agnihotri</i>	
THERMAL CONDUCTIVITY OF CARBON FIBER FABRIC/PHENOLIC RESIN COMPOSITES WITH CNT OR CNF ADDITION	188
<i>Shinn-Shyong Tzeng, Yu-Hon Lin</i>	
STUDY OF OXIDATION OF CARBON FIBERS USING RESISTANCE MEASUREMENT	190
<i>Shinn-Shyong Tzeng, Ting-Yu Wu, Tin-Yu Chang, Cai-Ting Yang, Chao-Ling Chou, Ching-Jang Lin</i>	
TEN YEARS OF RESEARCH ON ORDERED MESOPOROUS CARBONS: MAJOR ADVANCES IN SYNTHESIS, PROPERTIES AND POTENTIAL APPLICATIONS	192
<i>Mietek Jaroniec</i>	
HIERARCHICAL PHENOLIC RESIN-BASED CARBONS WITH HIGH SURFACE AREA AND PORE VOLUME OBTAINED BY SOFT-TEMPLATING AND ACTIVATION	194
<i>Joanna Gorka, Mietek Jaroniec</i>	
CHARACTERIZATION OF POLYMER CARBON SIEVES AND GRAPHITIZED POLYMER CARBONS COATINGS FOR SAMPLE PREPARATION APPLICATIONS	196
<i>W. R. Betz, M. J. Keeler, D. L. Shollenberger, L. M. Sidisky</i>	
ADSORPTION PROPERTIES OF WHEAT STRAW, REED AND DOUGLAS FIR CHARS	198
<i>Indrek Külaots, Siim Link, Stelios Arvelakis</i>	
PREPARATION OF ACTIVATED CARBON FROM GRAPE SEEDS BY CHEMICAL ACTIVATION AND APPLICATION TO THE ADSORPTION OF HERBICIDES IN WATER	200
<i>Mounia Al Bahri, Luisa Calvo, Miguel A. Gilarranz, Juan J. Rodriguez</i>	
ADSORPTION SITE ANALYSIS FOR CARBONACEOUS ADSORBENTS	202
<i>S. J. Zhang, T. Shao, S. Kose, T. Karanfil</i>	
AN EMPIRICAL EQUATION TO RELATE THE ADSORPTION AFFINITY AND STRUCTURAL CHARACTERISTICS OF CARBONACEOUS ADSORBENTS	204
<i>S. J. Zhang, T. Shao, T. Karanfil</i>	
ADSORPTION OF ORGANIC CHEMICALS ON CARBON NANOTUBES IN AQUATIC ENVIRONMENT	206
<i>Ting Shao, Shujuan Zhang, Tanju Karanfil</i>	
ARE CARBON NANOTUBES PROMISING ADSORBENTS FOR WATER TREATMENT?	208
<i>Ting Shao, Shujuan Zhang, Tanju Karanfil</i>	

PORE STRUCTURE AND ADSORPTION AFFINITY OF ACTIVATED CARBONS	210
<i>Selcen Kose, Shujuan Zhang, S. Sule Kaplan Bekaroglu, Tanju Karanfil</i>	
SURFACE CHEMISTRY AND ADSORPTION AFFINITY OF ACTIVATED CARBONS	212
<i>Selcen Kose, Shujuan Zhang, Tanju Karanfil</i>	
ASSEMBLY AND TESTING OF LITHIUM-ION CAPACITORS	214
<i>S. R. Sivakkumar, V. Ruiz, A. G. Pandolfo</i>	
HIERARCHICAL ARCHITECTURES BASED ON ONE-DIMENSIONAL CARBON NANOTUBES AND TWO-DIMENSIONAL LAYERED DOUBLE HYDROXIDE FLAKES	216
<i>Qiang Zhang, Meng-Qiang Zhao, Jia-Qi Huang, Fei Wei</i>	
FABRICATION OF PT/CNT/TIO₂ COMPOSITES AND THE INFLUENCE OF PT PARTICLES ON CATALYTIC PROPERTIES	218
<i>Ming-Liang Chen, Feng-Jun Zhang, Won-Chun Oh</i>	
PHOTOELECTROCATALYTIC DEGRADATION OF METHYLENE BLUE USING PT-CNT/TIO₂ COMPOSITES UNDER VISIBLE LIGHT	220
<i>Feng-Jun Zhang, Ming-Liang Chen, Won-Chun Oh</i>	
DEVELOPMENT OF CHARCOAL PLANTING BED AND ENVIRONMENTAL MATERIALS MADE FROM WASTE PAPER AND FOREST RESOURCES	222
<i>Mitsuhiro Sakawa, Shinpei Yamasaki, Sakae Horisawa, Yasunori Matsumoto, Masahiro Ikeue, Yuichi Shinoda, Toyosi Manabe, Takao Imanish, Takashi Ichihara, Masato Inada, Daisuke Oomori</i>	
EFFECT OF MOLECULAR ADSORPTION ON SWCNT USING SURFACE-ENHANCED RAMAN SCATTERING	224
<i>Toshihiko Fujimori, Tomonori Ohba, Hirofumi Kanoh, Katsumi Kaneko</i>	
SYNTHESIS AND ELECTROCHEMICAL PROPERTIES OF METAL OXIDE/GRAPHENE NANOCOMPOSITES	226
<i>Sang-Hoon Park, Kwang-Bum Kim</i>	
EFFECTS OF THE PARTICLE SIZE OF NI- AND FE-CATALYST ON CRYSTALLINE STRUCTURE AND MORPHOLOGIES OF CARBONS PREPARED VIA CATALYTIC GRAPHITIZATION	228
<i>Katsuya Inomata, Takashi Fujimoto, Yoshinobu Otake</i>	
CHARACTERIZATION OF CARBON ACTIVE SITE BY CO₂ GASIFICATION	230
<i>Takuya Isobe, Katsuya Inomata, Yoshinobu Otake</i>	
MUON SPIN ROTATION EVIDENCE OF MAGNETISM IN GRAPHENE	232
<i>Mauro Riccò, Daniele Pontiroli, Marcello Mazzani, Mohammad Choucair, John A. Stride, Oleg V. Yazyev</i>	
PREPARATION AND CHARACTERIZATION OF TRANSPARENT AND CONDUCTING CARBON FILMS FROM SILYLATED GRAHITE OXIDE	234
<i>Yoshiaki Matsuo, Kenshiro Iwasa, Yosohiro Sugie</i>	
PREPARATION AND PROPERTIES OF MICROPOROUS PILLARED CARBONS	236
<i>Yoshiaki Matsuo, Sakae Ueda, Yosohiro Sugie</i>	
ACTIVATED NANOPOROUS CARBON FROM WALNUT SHELL AS PROMISING PHENOL ADSORBENT FOR WASTEWATER TREATMENT	238
<i>H. Arabzadeh, A. M. Rashidi, M. Mehrnia, A. Nouralishahia</i>	
CHANGES OF MICROSTRUCTURES AND LITHIUM-ION STORAGE PERFORMANCE INDUCED IN QUADRANGULAR CARBON NANOTUBES BY HEAT TREATMENT	240
<i>Jisheng Zhou, Huaihe Song, Bin Wu, Xiaohong Chen</i>	
CHEMISTRY AND KINETICS OF CHEMICAL VAPOR INFILTRATION OF PYROCARBON FROM ETHANOL	242
<i>A. Li, S. Zhang, B. Reznik, O. Deutschmann, R. Piat, T. Boehlke, I. Tsukrov, T. Gross</i>	
EFFECT OF DIFFERENT PARAMETERS ON ACTIVATED CARBON METHANE STORAGE	244
<i>A. Nouralishahi, A. M. Rashidi, H. Arabzadeh, H. Rohollahi, M. Soltanei</i>	
V₂O₅-MWNT NANOCOMPOSITE AS A PROMISING SUPPORT FOR PLATINIUM IN METHANOL ELECTRO – OXIDATION	246
<i>A. Nouralishahi, Y. Mortazavi, A. A. Khodadadi, A. M. Rashidi</i>	
INFLUENCE OF CERIA-DOPED PTRU/MWNTS NANOALLOY AS ANODE CATALYST FOR DIRECT METHANOL FUEL CELLS	248
<i>A. R. Rashidi, E. Esmaeili, K. H. Jafari Jozani</i>	
THE COMPARISON OF FUEL AND ELECTROLYTE TYPE IN FUEL CELL APPLICATIONS USING PTRUCE/MWNTS ELECTROCATALYSTS	250
<i>E. Esmaeili, K. H. Jafari Jozani, A. M. Rashidi</i>	
ELECTROCHEMICAL OXIDATION OF METHANOL ON MULTI-WALLED CARBON NANOTUBE SUPPORTED PTRUCE AS ANODE ELECTROCATALYST	252
<i>K. H. Jafari Jozani, E. Esmaeili, A. M. Rashidi</i>	
EFFECT OF CURVATURE ON C-F BONDING IN FLUORINATED CARBONS : FROM FULLERENES AND DERIVATES TO GRAPHITE	254
<i>Marc Dubois, Katia Guérin, Wei Zhang, Pierre Bonnet, Hayat Kharbache, Francis Masin, Alexander P. Kharitonov, André Hamwi</i>	
BIOMORPHIC DERIVED MICROPOROUS CARBONS AS NATURAL GAS STORAGE MATERIALS	256
<i>Stefan Gütlein, Friedrich Glenk, Bastian J. M. Etzold</i>	
CO₂ ADSORPTION ON NANOPOROUS ACTIVATED CARBON	258
<i>A. Ghorbanali, A. M. Rashidi, M. M. Montazer Rahmati, A. Nouralishahi</i>	

ORDERED NANOPOROUS CARBON AS PROMISING NOVEL METHANE ADSORBENT FOR ADSORBED NATURAL GAS TECHNOLOGY	260
<i>Ali Morad Rashidi, Amideddin Nouralishahi, Mohammad Ali Khodagholi, Seyed Jafar Hajseyedjavadi, Amir Hossain Jalili, Faeghe Eslampour, Aliakbar Jalilian</i>	
MODIFICATION OF EXPANDABLE GRAPHITE BY BORON COMPOUNDS	262
<i>N. V. Maksimova, M. I. Saidaminov, O. N. Shornikova, N. E. Sorokina</i>	
PERSPECTIVE MEMBRANES BASED ON EXPANDED GRAPHITE	264
<i>N. E. Sorokina, A. Yu. Alent'Ev, O. N. Shornikova, V. V. Teplyakov, A. S. Tikhomirov, V. V. Avdeev</i>	
CHANGES IN PARAMAGNETIC CHARACTERISTICS OF PITCH AND PITCH FIBER DURING THEIR OXIDATION IN LOW TEMPERATURE OXYGEN PLASMA	266
<i>A. A. Bliznyuk, V. P. Berveno, V. G. Grigoriev, S. Yu. Larshchikov</i>	
PREPARATION OF THIN-WALLED CARBON NANOTUBES WITH LARGER INNER DIAMETER BY ACID TREATMENT	268
<i>Yunfang Liu, Weidong Chi, Bo Liu, Yan Pan, Zengmin Shen</i>	
REACTION DEPENDENT PARTICLE SIZE EFFECTS IN CARBON SUPPORTED COBALT CATALYSTS	270
<i>J. H. Bitter, J. P. Den Breejen, G. L. Bezemer, A. L. Macedo, L. V. Mattos, F. B. Noronha, P. B. Radstake, V. Frøseth, A. Holmen, K. P. De Jong</i>	
POROUS B/N-DOPED CARBONS	272
<i>Tim-Patrick Fellingner, Markus Antonietti</i>	
SYNTHESIS AND ELECTROCHEMICAL PROPERTIES OF IRON SULFIDE-EMBEDDED CARBON MICROSPHERES	274
<i>Bin Wu, Huaihe Song, Jisheng Zhou, Xiaohong Chen</i>	
IMULATION OF THE STRUCTURE OF SCREW DISLOCATIONS IN THE INTER-LAYER OF GRAPHITE	276
<i>Kei Wako, Tatsuki Oda, Masaru Tachibana, Kenichi Kojima</i>	
ELECTROCHEMICAL CAPACITIVE DESALINATION BEHAVIOR OF ACTIVATED CARBON FIBERS	278
<i>Ming Wang, Zheng-Hong Huang, Lei Wang, Feiyu Kang</i>	
INFLUENCE OF THE STRUCTURE AND THE MORPHOLOGY ON THE FRICTION PROPERTIES OF FLUORINATED CARBON NANO/MICRO PARTICLES	280
<i>P. Thomas, J. L. Mansot, W. Zhang, M. Dubois, K. Guérin, A. Hamwi</i>	
MOLECULAR DYNAMICS MODELING OF TEMPERATURE, POROSITY AND TORTUOSITY INFLUENCES ON DIFFUSION INSIDE CNT FORESTS	282
<i>Thomas Siegfried, Aijun Li, Olaf Deutschmann</i>	
ASSESSING THE CYTOTOXICITY OF MULTIMODAL CARBON BEADS	284
<i>C. A. Howell, S. Sandeman, Y. Zheng, G. J. Phillips, S. V. Mikhalovsky, S. R. Tennison, O. P. Kozynchenko, A. P. Rawlinson</i>	
REDUCTION OF PUFFING BY NITROGEN COMPOUNDS IN COAL-BASED NEEDLE COKE PRECURSORS FOR ELECTRODE GRAPHITE	286
<i>Peter G. Stansberry, C. F. Chang</i>	
CHARACTERIZATION OF SUPERCAPACITORS BASED ON ACTIVATED CARBON FIBRES/CONDUCTING POLYMERS BY POSITION-RESOLVED μSAXS	288
<i>A. L. Tomás-García, D. Lozano-Castelló, J. A. Maciá-Agulló, E. Morallón, D. Cazorla-Amorós, M. Burghammer, C. Riekkel</i>	
STUDY OF THE NEUTRON SHIELDING CAPACITY OF DIFFERENT CARBON MATERIALS FOR SPACE APPLICATIONS	290
<i>S. Navas, J. L. Navarro, Y. Morilla, D. Lozano-Castelló, S. Ibarria, J. García-López, S. Esteve, M. Cebollero, D. Cazorla-Amorós, A. Bueno-López</i>	
PREPARATION AND BIOLOGICAL PROPERTIES OF BIOACTIVE CARBON-BASED MATERIALS	292
<i>Qing Cai, Haiyang Liu, Pengfei Lian, Zhou Fang, Xiaoping Yang, Xuliang Deng, Seungkon Ryu</i>	
CARBON NANOFIBERS LOADED WITH SM-DOPED TiO₂ FROM ELECTROSPUN POLYACRYLONITRILE/ TITANIUM OXOACETATE AS PHOTOCATALYSTS	294
<i>Yunhua Yu, Jiangwei Yu, Liying Zhu, Xiaoping Yang, Seungkon Ryu</i>	
PREPARATION AND CHARACTERIZATION OF MONOLITHS WITH HIERARCHICAL POROSITY FOR SUPERCAPACITOR APPLICATIONS	296
<i>A. L. Tomás-García, D. Lozano-Castelló, E. Morallón, D. Cazorla-Amorós, C. Barbero</i>	
STUDY ON REACTIVE CARBON NANOTUBE REINFORCEMENT AND ITS APPLICATION IN ADVANCED CARBON FIBERS COMPOSITES	298
<i>Gang Sui, Shengbiao Liang, Zhuo Li, Lingfei Shi, Xiaoping Yang</i>	
H₂S CATALYTIC OXIDATION OVER Na₂CO₃ IMPREGNATED MESOPOROUS CARBON AEROGELS: PROGRESS FROM MICROPORES TO MESOPORES	300
<i>Qingjun Chen, Donghui Long, Zhi Wang, Xiaojun Liu, Wenming Qiao, Xiaoyi Liang, Licheng Ling</i>	
POLYETHYLENIMINE-LOADED SILICA WITH A HIERARCHICAL PORE STRUCTURE FOR H₂S ADSORPTIVE REMOVAL	302
<i>Qingjun Chen, Feichao Fan, Zhi Wang, Xiaojun Liu, Wenming Qiao, Xiaoyi Liang, Licheng Ling</i>	
SELECTIVE CATALYTIC REDUCTION OF NO WITH UREA SUPPORTED ON PITCH-BASED SPHERICAL ACTIVATED CARBON AT LOW TEMPERATURES	304
<i>Zhi Wang, Dengjun Wang, Qingjun Chen, Yanli Wang, Wenming Qiao, Liang Zhan, Licheng Ling</i>	
DESIGN AND ELECTROCHEMICAL PERFORMANCE OF NOVEL CARBIDE-DERIVED CARBON WITH AN OPTIMIZED MICROSTRUCTURE FOR KINETIC PROCESS	306
<i>Gang-Wei Sun, Wen-Hua Song, Wen-Ming Qiao, Liang Zhan, Xiao-Yi Liang, Li-Cheng Ling</i>	
CONTROL OF THE POROSITY DEVELOPMENT IN WASTE TYRES CHAR ACTIVATION BY CYCLIC OXYGEN CHEMISORPTION/DESORPTION	308
<i>Francisco Heras, Diana Jiménez, Miguel A. Gilarranz, Noelia Alonso, Juan J. Rodriguez</i>	

MOLECULAR SIEVE CARBONS FOR GAS SEPARATIONS	309
<i>M. A. Petruska, S. M. Wilson, E. A. Sturm, J. D. Carruthers</i>	
SCREENING IMPREGNATED CARBON RESPIRATOR MATERIALS VIA THE COMBINATORIAL MATERIALS SCIENCE APPROACH	311
<i>Jennifer V. Romero, Jock W. H. Smith, Chris L. White, Jeff R. Dahn</i>	
INJECTION-MOLDABLE COKE-PITCH BLENDS	313
<i>Sicebiso R. Hlatshwayo, Brian Rand, Walter W. Focke</i>	
REMOVAL OF BORON FROM MEDIUM TEMPERATURE GASIFIER PITCH	315
<i>Gedion J. Papole, Brian Rand, Walter W. Focke</i>	
PREPARATION OF GRAPHITIZABLE COKE FROM ANTHRACENE OIL	317
<i>Holo Luxolo, Walter W. Focke, Brian Rand</i>	
KINETIC ANALYSIS OF OXIDATIVE STABILIZATION PROCESSES IN PAN FIBERS	319
<i>Stanislav S. Belyaev, Igor V. Arkhangelsky, Irina V. Makarenko</i>	
SOLVENT-BASED VS. SOLVENT-FREE SAMPLE PREPARATION METHODS FOR THE QUANTITATIVE ANALYSIS OF PETROLEUM PITCH OLIGOMERS BY MALDI MASS SPECTROMETRY	321
<i>Sourabh U. Kulkarni, Mark C. Thies</i>	
HIERARCHICAL URCHIN-LIKE LFP MESOCRYSTALS COATED WITH N-CONTAINING CARBON FOR LI-ION BATTERIES	323
<i>Jelena Popovic, Robin J. White, Markus Antonietti, Maria-Magdalena Titirici</i>	
NANOFUIDS FOR IMPROVED THERMAL MANAGEMENT	325
<i>Carla Leer, Patrick Lake, Andrew Palmer, David Burton, D. Gerald Glasgow, Matthew Boehle, Khalid Lafdi</i>	
CATALYTIC ACTIVITY OF NI-NANOCLUSTER DENDRITIC AGGREGATES INSIDE OF NANOPOROUS CARBON	327
<i>Leonid V. Golovko, Yuri P. Gomza, Valeri A. Bortyshevsky, Vladimir A. Povazhny, Alexandr V. Melnichuk, Dmitri S. Kamenskyh, Tatiana V. Tkachenko</i>	
MECHANISMS OF THE CYTOTOXICITY OF CARBON NANOTUBES	329
<i>Mykola T. Kartel, Valentyn P. Chernykh, Leonid V. Ivanov, Eugen A. Gordienko, Sergiy M. Kovalenko, Yuri I. Gubin, Oleg A. Nardid, Olena I. Smolyaninova</i>	
PRESSURE PYROLYSIS OF PYRENE UNDER NITROGEN AT MODERATE TEMPERATURES	331
<i>Gilceia L. S. Vasseem, Francisco G. Enmerich, Alfredo G. Cunha, Jair C. C. Freitas, André A. De Souza, Tito J. Bonagamba</i>	
REMOVAL OF HEAVY METALS FROM WASTEWATER USING COW BONE CHARCOAL	333
<i>Liliana Giraldo, Rigoberto Gómez, J. C. Moreno-Piraján</i>	
LOW-PRESSURE HYSTERESIS IN MOLECULAR SIEVE CARBONS	335
<i>Melissa A. Petruska, J. Donald Carruthers</i>	
FUNCTIONALIZATION AND CHARACTERIZATION OF NANODIAMOND-DERIVED MULTI-LAYERED FULLERENES (CARBON NANO-ONIONS)	337
<i>Mahendra K. Sreeramaju, John P. Selegue</i>	
ENZYME ENTRAPMENT IN SILICA NANOPARTICLES: MEDIATED BY SINGLE WALLED CARBON NANOTUBES-LYSOZYME FOR BIOSENSOR APPLICATIONS	339
<i>Saroja Mantha, Madhumati Ramanathan, Virginia Davis, Aleksandr Simonian</i>	
ELECTRON LOCALIZATION EFFECT ON THE EDGE-STATE MAGNETISM OF DISORDERED NETWORK OF NANOGRAFENE SHEETS	341
<i>T. Enoki, V. L. Joseph Joly, K Takahara, K. Takai, K. Sugihara</i>	
THE EFFECT OF KH570 CONTENT ON THE PREPARATION OF MOLECULAR IMPRINTED MATERIALS	343
<i>Xuguang Liu, Sha Li, Yongzhen Yang, Feifei Duan, Bingshe Xu</i>	
PREPARATION AND PROPERTY OF SURFACE-MOLECULARLY IMPRINTED POLYMER ON CARBON MICROSPHERES	345
<i>Xuguang Liu, Yongzhen Yang, Mingcong Guo, Sha Li, Weifeng Liu, Bingshe Xu</i>	
SURFACE MODIFICATION OF CARBON MICROSPHERES WITH CHITOSAN	347
<i>Husheng Jia, Yanxing Han, Yongzhen Yang, Xuguang Liu, Bingshe Xu</i>	
CARBON NANOTUBES PREPARED USING FE/MCM-41 AS CATALYST TEMPLATE	349
<i>Yongzhen Yang, Yanxing Han, Guanghuan Liu, Xuguang Liu, Bingshe Xu</i>	
CHARGE TRANSFER INTERACTION BETWEEN SUPER GROWTH SINGLE WALL CARBON NANOTUBES AND METHYLENE BLUE	351
<i>Fitri Khoerunnisa, Toshihiko Fujimori, Tsutomu Itoh, Tomonori Ohba, Hirofumi Kanoh, Kenji Hata, Katsumi Kaneko</i>	
PREFERENTIAL π INTERACTION OF CYCLIC ORGANIC MOLECULES WITH GRAPHITIC NANOPOROUS CARBON	353
<i>Tomonori Ohba, Natsuko Kojima, Hirofumi Kanoh, Katsumi Kaneko</i>	
EFFECT OF OXYFLUORINATION ON GAS SENSING BEHAVIOR OF POLYANILINE-COATED MULTI-WALLED CARBON NANOTUBES	355
<i>Jumi Yun, So Nyeo Jeon, Ji Sun Im, Young-Seak Lee, Hyung-Il Kim</i>	
PVA/PAAC/MULTI-WALLED CARBON NANOTUBES COMPOSITE HYDROGELS COATED WITH POLYANILINE AND THEIR ELECTROCHEMICAL ACTUATOR CHARACTERISTICS	357
<i>Jumi Yun, Minhee Han, Ji Sun Im, Young-Seak Lee, Hyung-Il Kim</i>	
SYNTHESIS OF POLYANILINE-COATED MULTI-WALLED CARBON NANOTUBES/MAGHEMITE NANOCOMPOSITES AND THEIR ELECTROMAGNETIC SHIELDING PROPERTIES	359
<i>Jumi Yun, Yeon Ee Kim, Ji Sun Im, Young-Seak Lee, Hyung-Il Kim</i>	

LIQUID CRYSTALLINITY AND FIBER SPINNING OF DOUBLE-STRANDED DNA STABILIZED SINGLE-WALLED CARBON NANOTUBE DISPERSION	361
<i>Geyou Ao, Dhriti Nepal, Michelle Aono, Virginia A. Davis</i>	
CHEMICAL AND PHYSICAL PROPERTIES OF EXPANDED GRAPHITE MODIFIED BY BORON OXIDE	363
<i>A. I. Gabelchenko, D. V. Savchenko, S. G. Ionov</i>	
PHYSICAL AND CHEMICAL PROPERTIES OF CARBON-CARBON COMPOSITE BASED ON EXPANDED GRAPHITE	365
<i>A. I. Gabelchenko, D. V. Savchenko, A. I. Sizov, S. G. Ionov</i>	
EQUILIBRIUM ADSORPTIVE REMOVAL OF MALACHITE GREEN DYE FROM AQUEOUS SOLUTION USING ACTIVATED CARBONS	367
<i>Meenakshi Goyal, Kumari Reena, Mamta Bhagat</i>	
SYNTHESIS OF CARBON-SUPPORTED IRON NANOPARTICLES USING ULTRASONIC SPRAY PYROLYSIS	369
<i>John D. Atkinson, Seyed A. Dastgheib, Massoud Rostam-Abadi, Mark J. Rood</i>	
SYNTHESIS TiO₂-CARBON AEROGEL THROUGH SOL-GEL POLYMERIZATION AND APPLICATION IN ELECTROCHEMISTRY	371
<i>Xingchao Li, Qinghan Meng, Ling Liu, Bing Cao</i>	
TEXTURAL ANALYSIS OF CARBON MATERIALS BY OPTICAL MICROSCOPY AND IMAGE PROCESSING	373
<i>Kyoichi Oshida, Kensuke Ogasawara, Masahiko Murata, Tatsuo Nakazawa, Morinobu Endo, Sylvie Bonnamy</i>	
STRUCTURE AND ELECTROCHEMICAL PROPERTIES OF RF CARBON AERIGELS MODIFIED BY GLUCOSE	375
<i>Zi-Zhao Pang, Ling Liu, Qing-Han Meng, Bing Cao</i>	
CHARACTERISATION OF PHENOLIC RESIN FOR THE LARGE SCALE PRODUCTION OF STRUCTURED PHENOLIC RESIN DERIVED CARBONS	377
<i>S. Bremner, R. Busquets, O. Kozynchenko, S. Tennison, T. Mays</i>	
PHOTOCATALYTIC CHARACTERISTICS OF TITANIUM DIOXIDE CONTAINING DIAMOND-LIKE CARBON THIN FILM	379
<i>Masahito Ban, Naoya Hasegawa</i>	
THE IMPACTS OF TI-N FILM PROPERTIES ON THE SYNTHESIS OF VERTICALLY ALIGNED CARBON NANOFIBERS	381
<i>Farzan A. Ghavanini, Maria L. Damian, Damon Rafieian, Per Lundgren</i>	
GENERATION OF REACTIVE OXYGEN SPECIES BY CRYSTALLINE C₆₀ PARTICLES SYNTHESIZED USING THE INK-JET METHOD	383
<i>Fusako Sasaki, Masahito Ban</i>	
DYNAMICS OF METHYLAMINE GROUPS IN (CH₃NH₂)K₂C₆₀ UNDER HIGH PRESSURE	385
<i>Anton Potocnik, Peter Jeglic, Yasuhiro Takabayashi, Alexey Y. Ganin, Kosmas Prassides, Matthew J. Rosseinsky, Denis Arcon</i>	
PREPARATION OF Pt CATALYSTS ON REDUCED GRAPHITE OXIDE AND ITS ELECTROCHEMICAL PERFORMANCE FOR PEMFC	387
<i>A. V. Dunaev, A. A. Belmesov, I. V. Archangelsky, V. V. Avdeev</i>	
INDIGO CARMINE AS ELECTROLYTIC ADDITIVE FOR ELECTROCHEMICAL DOUBLE LAYER CAPACITORS	389
<i>Silvia Roldán, Clara Blanco, Marcos Granda, Rosa Menéndez, Ricardo Santamaría</i>	
PREPARATION AND CHARACTERIZATION OF POLYMER BASED SPHERICAL ACTIVATED CARBONS ON AN INDUSTRIAL SCALE	391
<i>Sven Fichtner, Jann-Michael Giebelhausen, Bertram Böhrringer</i>	
ENHANCEMENT OF CAPACITANCE OF CARBON-BASED SUPERCAPACITORS BY THE QUINONE/HYDROQUINONE SYSTEM	393
<i>Silvia Roldán, Clara Blanco, Marcos Granda, Rosa Menéndez, Ricardo Santamaría</i>	
PERFORMANCE OF SPHERICAL ACTIVATED CARBON IN STRUCTURED FILTER MEDIA	395
<i>Omar Guerra Gonzalez, Ilsebill Eckle, Bertram Böhrringer, Jann M. Giebelhausen</i>	
PREPARATION OF MESOPHASE PITCH-BASED HIGH THERMAL CONDUCTIVITY CARBON MATERIALS	397
<i>Weidong Chi, Yinying Zhang, Zengmin Shen, Hui Liu</i>	
PREPARATION AND RESEARCH OF TAC COATINGS ON THE SURFACE OF MESOPHASE PITCHCARBON FIBERS	399
<i>Wedong Ch, Qin Chang, Cuihong Mu, Zengmin Shen, Hui Liu</i>	
RECENT DEVELOPMENTS IN THE PRODUCTION AND INVESTIGATION OF CARBON FIBER REINFORCED COKE	401
<i>Felix Eckstorff, Wilhelm Frohs</i>	
CONVERSION OF GLYCEROL OVER GRAPHITE-NANOPLATELET CATALYST	403
<i>Yasuhiro Yamada, Masato Miyauchi, Toshiaki Sodesawa, Satoshi Sato</i>	
ELECTROCHEMICAL BEHAVIOR OF METALLIC AND SEMICONDUCTING SINGLE-WALL CARBON NANOTUBES	405
<i>Yasuhiro Yamada, Takeshi Tanaka, Kenji Machida, Shunzo Suematsu, Kenji Tamamitsu, Hiromichi Kataura, Hiroaki Hatori</i>	
OXIDATIVE MODIFICATION OF CARBON FIBER SURFACES	407
<i>A. S. Tikhomirov, N. E. Sorokina, O. N. Shornikova, V. V. Avdeev</i>	
EXPLORING THE MECHANISM OF LONGITUDINAL CUTTING IN NITROGEN-DOPED MULTIWALLED CARBON NANOTUBES (N-MWCNTS)	409
<i>Nikhil D. Patil, Dali Qian, Mark S. Meier</i>	

ISOLATING PITCH OLIGOMERS BY CONTINUOUS, COUNTERCURRENT, DENSE-GAS EXTRACTION-PART II. MESOPHASE PITCHES OF NARROW MOLECULAR WEIGHT	411
<i>David F. Esguerra, Eduardo G. Cervo, Mark C. Thies</i>	
ISOLATING PITCH OLIGOMERS BY CONTINUOUS, COUNTERCURRENT, DENSE-GAS EXTRACTION-PART I. ISOTROPIC PITCHES OF NARROW MOLECULAR WEIGHT DISTRIBUTION	413
<i>Eduardo G. Cervo, David F. Esguerra, Mark C. Thies</i>	
QUANTITATIVE ANALYSIS OF PETROLEUM PITCH OLIGOMERS USING MALDI MASS SPECTROMETRY	415
<i>Sourabh U. Kulkarni, Mark C. Thies</i>	
RAMAN ANALYSES OF HOPG EXPOSED TO HELIUM OR HYDROGEN PLASMA: APPLICATION TO MAGNETIC FUSION	417
<i>Cedric Pardanaud, Ahmad Ahmad, Celine Martin, Loic Schiesko, Remy Ruffe, Gilles Cartry, Marcel Carrere, Pascale Roubin</i>	
THE IMPACT OF NANOPOROUS CARBON ON THE HYDROGEN STORAGE PROPERTIES OF LIGHT METAL HYDRIDES	419
<i>J. Gao, R. Bogerd, P. Ngene, P. Adelhelm, K. P. De Jong, P. E. De Jongh</i>	
PORE STRUCTURE OF EXFOLIATED GRAPHITE	421
<i>O. N. Shornikova, E. V. Kogan, D. V. Petrov, N. V. Maksimova, N. E. Sorokina</i>	
PREPARATION OF MESOPOROUS SUGAR CATALYST	423
<i>Jidon Janaun, Naoko Ellis</i>	
INVESTIGATING CHEMISTRY OF NITROGEN DOPED MULTIWALLED CARBON NANOTUBES (N-MWCNTS)	425
<i>Aman Preet Kaur, Mark S. Meier, Dali Qian</i>	
RHEOLOGY OF MELTS OF MIXTURES "POLYPROPYLENE /CO-POLYAMIDE/CNT"	427
<i>Natalia M. Rezanova, Mykola T. Kartel, Yuri I. Sementsov, Gennadiy P. Prikhod'Ko, Iryna A. Mel'Nik, Maria V. Tsebrenko</i>	
BIOFUNCTIONAL COMPOSITES "POLYMER/CARBON NANOTUBES"	429
<i>Mykola T. Kartel, Yuri I. Sementsov, Gennadiy P. Prikhod'Ko, Tatiana A. Aleksyeyeva</i>	
PATTERNING OF THREE-DIMENSIONAL CARBON NANOTUBE ARCHITECTURES BY A COMPOSITION TRANSFER APPROACH	431
<i>Jia-Qi Huang, Qiang Zhang, Meng-Qiang Zhao, Guang-Hui Xu, Fei Wei</i>	
OXIDANT DURING ALIGNED CARBON NANOTUBE GROWTH: A POWERFUL TOOL IN STRUCTURE MODULATION AND RELEASE OF ARRAYS	433
<i>Jia-Qi Huang, Qiang Zhang, Meng-Qiang Zhao, Fei Wei</i>	
THE FUEL CELL APPLICATIONS OF CHEMICALLY FUNCTIONALIZED GRAPHENE SUPPORTED PLATINUM NANOPARTICLES	435
<i>Shifeng Hou, Marzena S. Wietecha, Clemonne J. Madarang</i>	
CONTRASTING FUNCTIONAL ADVANTAGES OF PITCH-BASED AND PAN-BASED CARON FIBERS IN CEMENT-MATRIX COMPOSITES	437
<i>David G. Meehan, Sivaraaja Muthusamy, D. D. L. Chung</i>	
ONE-LAMINA CARBON FIBER POLYMER-MATRIX COMPOSITE AS A SENSOR OF STRAIN AND DAMAGE	439
<i>Daojun Wang, D. D. L. Chung</i>	
FLEXIBLE-GRAPHITE-BASED POROUS COMPOSITE ELECTROCHEMICAL ELECTRODE EXHIBITING HIGH ELECTRICAL CONDUCTIVITY	441
<i>Shoukai Wang, D. D. L. Chung</i>	
FLEXIBLE-GRAPHITE-BASED POROUS COMPOSITE ELECTROCHEMICAL ELECTRODE EXHIBITING HIGH ELECTRICAL CONDUCTIVITY	443
<i>Shoukai Wang, D. D. L. Chung</i>	
EXFOLIATED GRAPHITE FOR ENHANCING THE VIBRATION DAMPING OF CEMENT-MATRIX AND POLYMER-MATRIX STRUCTURAL MATERIALS	445
<i>Seungjin Han, S. Muthusamy, Po-Hsiu Chen, Shoukai Wang, D. D. L. Chung</i>	
PREPARATION, SURFACE FUNCTIONALIZATION AND CHARACTERIZATION OF CARBON MICRO AND NANO FIBERS IN ADSORPTION APPLICATIONS	447
<i>Jarapala Naik, Mekala Bikshpathi, Anindita Chakraborty, Rohitashaw K. Singh, Ashutosh Sharma, Nishith Verma, Harish C. Joshi, Anurag Srivastava</i>	
HIGHLY EFFECTIVE HYDROGEN SORPTION ON GRAPHENE EDGE PLANES THROUGH ELECTROREDUCTION OF AQUEOUS ELECTROLYTES	449
<i>Laurent Demarconay, Encarnación Raymundo-Piñero, François Béguin</i>	
HIGH ENERGY SYMMETRIC AND ASYMMETRIC CARBON BASED CAPACITORS IN NEUTRAL AQUEOUS ELECTROLYTE	451
<i>Laurent Demarconay, Encarnación Raymundo-Piñero, François Béguin</i>	
CARBON MODIFIED FIBROUS TiO₂ CERAMIC COMPOSITES WITH ENHANCED PHOTO CATALYTIC ACTIVITY	453
<i>Nadejda Popovska, Hanadi Ghanem</i>	
CARBON EFFICIENCY FOR BIOENERGY A EUROPEAN CASE STUDY	455
<i>Florian Castagno, Delphine Garnaud, Laurent Lelait</i>	
COMPARATIVE STRUCTURAL ANALYSIS OF MESOPOROUS CARBON FDU-16 WITH 3D-TEM, XRD REFINEMENT AND GAS SORPTION POROSIMETRY	457
<i>Julien Parmentier, Roiban Lucian, Claire Ducrot-Boisgontier, Cathie Vix-Guterl, Ovidiu Ersen, Leonid Solovyov</i>	
CONTROLLABLE SYNTHESIS OF CARBON ROPES SUPPORTED ON CAREON FOAM	459
<i>Nan Xiao, Liman Fan, Zheng Ling, Ying Zhou, Zongbin Zhao, Jieshan Qiu</i>	

PREPARATION OF GRAPHITIZABLE ORDERED MESOPOROUS CARBON FROM ASPHALTENE AND THEIR ELECTROCHEMICAL PERFORMANCE	461
<i>Liuping Wang, Ying Zhou, Xiaoxue Liu, Jieshan Qiu</i>	
A NEW APPROACH TO DIRECT PRODUCTION OF CARBON NANOTUBES AND RELATED NANOCARBONS OVER COAL ASH	463
<i>Han Hu, Zongbin Zhao, Quan Zhou, Jieshan Qiu</i>	
ISOTROPIC CARBON FIBRES FROM ANTHRACENE OIL DERIVATIVES	465
<i>N. Diez, P. Alvarez, R. Menendez, R. Santamaria, C. Blanco, M. Granda</i>	
PHOTOCATALYTIC PROPERTIES OF NOVEL ACTIVATED CARBONS OF HIGH SURFACE AREA DOPED WITH TiO₂ NANOPARTICLES	467
<i>N. Garcia, P. Alvarez, M. Granda, C. Blanco, R. Santamaria, R. Menedez</i>	
DEFECT MEDIATED FUNCTIONALIZATION OF MULTIWALLED CARBON NANOTUBES: A NOVEL ROUTE TO DESIGN BASIC HETEROGENEOUS CATALYSTS FOR THE SYNTHESIS OF FUELS AND CHEMICALS FROM BIOMASS	469
<i>Jean-Philippe Tessonnier, Alberto Villa, Olivier Majoulet, Dang Sheng Su, Robert Schlögl</i>	
STUDY OF THE FORMATION MECHANISMS OF SELF-ASSEMBLY MESOSTRUCTURED POLYMERS PRECURSOR FOR ORDERED MESOPOROUS CARBONS	471
<i>Sebastien Schlienger, Claire Ducrot-Boisgontier, Jean-Louis Guth, Joël Patarin, Laure Michelin, Cathie Vix-Guterl, Julien Parmentier</i>	
FAU-TYPE ZEOLITE NANOCASTED CARBON REPLICAS FOR THE H₂ PURIFICATION	473
<i>Claire Ducrot-Boisgontier, Julien Parmentier, Azzam Faour, Joël Patarin, Cathie Vix-Guterl, Gerhard D. Pirngruber</i>	
EFFECT OF THE ZEOLITE STRUCTURE TYPE ON THE PROPERTIES OF CARBONS REPLICAS MADE BY A NANOCASTING PROCESS	475
<i>Claire Ducrot-Boisgontier, Julien Parmentier, Ovidiu Ersen, Joël Patarin, Cathie Vix-Guterl</i>	
ADSORPTION ON MWCNTS FROM AQUEOUS SOLUTIONS IN ENVIROMENTALLY RELEVANT CONDITIONS	477
<i>Ajna Tóth, Erik Geissler, Erwin Klumpp, Erzsébet Oláh, Krisztina László</i>	
LARGE-SCALE SYNTHESIS OF HELICAL CARBON NANOFIBERS OVER FE-CU NANOPARTICLES	479
<i>Xiaosi Qi, Wei Zhong, Chaktong Au, Youwei Du</i>	
RELEVANCE OF INNER-STRESS TO ORIENTATION OF PAN FIBERS DURING THE THERMAL TREATMENT AT 120° TO 160°	481
<i>Feng Lian, Jie Liu, Zhaokun Ma, Jieying Liang</i>	
MECHANICAL AND INTERFACIAL PROPERTIES OF CARBON FIBER MODIFIED BY ELECTROCHEMICAL OXIDATION IN (NH₄HCO₃)/ (NH₄)₂C₂O₄•H₂O AQUEOUS COMPOUND SOLUTION	483
<i>Yuli Tian, Jie Liu, Jieying Liang, Zhaokun Ma</i>	
THE KINETIC STUDY OF DEHYDROGENATION REACTION FOR PAN-BASED CARBON FIBER PRECURSOR DURING THERMAL STABILIZATION	485
<i>Yan Xue, Jie Liu, Zhaokun Ma, Jieying Liang</i>	
STUDY ON THERMAL STABILIZATION AND HYDROPHILICITY OF POLY(ACRYLONITRILE-CO-β-MONISOBUTYL ITACONATE)	487
<i>Huitao Bai, Sai Ma, Jie Liu</i>	
SYNTHESIS OF SERIES OF β-MONOALKYL ITACONATE AND DETERMINATION OF APPARENT REACTIVITY RATIO OF COPOLYMERIZATION WITH ACRYLONITRILE	489
<i>Sai Ma, Hui-Tao Bai, Zhao-Kun Ma, Jieying Liang, Jie Liu</i>	
STRUCTURES AND PROPERTIES OF ELECTROSPUN PAN NANOFIBERS COLLECTED FROM TWO DIFFERENT METHODS INCLUDING WATER FLOW AND ROTATIONAL DEVICE	491
<i>Jie Liu, Hui Gao, Hao Fong</i>	
EFFECTS OF STRETCHING ON STRUCTURES AND PROPERTIES OF CONTINUOUS AND UNIAXIALLY ALIGNED ELECTROSPUN POLYACRYLONITRILE NANOFIBER BUNDLES	493
<i>Jie Liu, Gui Chen, Hao Fong</i>	
SORPTION PROPERTIES OF EXFOLIATED GRAPHITE DOPED WITH IRON COMPOUNDS	495
<i>M. A. Lutfullin, O. N. Shornikova, V. V. Avdeev</i>	
IMMERSION ENTHALPY OF ACTIVATED CARBON IN AQUEOUS SOLUTION OF 3-CHLOROPHENOL	497
<i>Liliana Girado, Juan C. Moreno</i>	
ELECTROCHEMICAL CAPACITANCE OF DEFLUORINATED GRAPHITE FLUORIDE	499
<i>Soshi Shiraishi, Daisuke Ajima</i>	
FREQUENCY RESONANCE STUDIES ON METAL-DOPED NANOPOROUS CARBONS	501
<i>György Onyestyák, Aranka Pilbáth, Krisztina László</i>	
THE MICROSTRUCTURE OF ISOTROPIC PYROCARBON OBTAINED BY ISOTHERMAL CHEMICAL VAPOR DEPOSITION	503
<i>Ke-Zhi Li, Dong-Sheng Zhang, Ling-Jun Guo, He-Jun Li</i>	
ABLATION OF THE CARBON/CARBON COMPOSITE NOZZLE-THROAT IN A SMALL SOLID ROCKET MOTOR	505
<i>Ke-Zhi Li, Xue-Tao Shen, He-Jun Li, Shou-Yang Zhang, Tao Feng, Lei-Lei Zhang</i>	
DEVELOPMENT AND APPLICATION OF CARBON NANOFIBERS BASED NANOSTRUCTURED CATALYST SUPPORT LAYER FOR MICROREACTION SYSTEMS	507
<i>Digvijay B. Thakur, Roald M. Tiggelaar, Han (J. G. E.) Gar-Deniers, Leon Lefferts, Kulathuier Seshan</i>	
ELECTRICAL AND THERMAL PROPERTIES OF CARBON NANOFIBER AND MICROFIBERS	509
<i>Byron Villacorta, Amod A. Ogale</i>	

INFLUENCE OF A LIQUID ORGANIC COMPOUND ON TRIBOLOGIC PROPERTIES OF GRAPHITE PARTICLES	511
<i>N. Nomede Martyr, J. L. Mansot, P. Thomas, Y. Bercion, A. Sauldubois, P. Bilas, L. Romana</i>	
HYDROGEN ADSORPTION BY ACTIVATED CARBONS CONTAINING IRON OR COPPER	513
<i>Mateus Carvalho Monteiro De Castro, Miriam Casco, Miguel Molina-Sabio, Manuel Martínez-Escandell, Francisco Rodríguez-Reinoso</i>	
PHOTO-INDUCED CROSSLINKING AND CYCLIZATION OF SOLUTION-SPUN POLYACRYLONITRILE COPOLYMER	515
<i>Marlon S. Morales, Amod A. Ogale</i>	
ON THE STRUCTURAL AND REACTIVITY DIFFERENCES BETWEEN BIOMASS- AND COAL-DERIVED CHARS	517
<i>F. Vallejos-Burgos, N. Díaz-Pérez, A. Silva-Villalobos, R. Jiménez, X. García, L. R. Radovic</i>	
GRAPHITE PAPER PREPARED FROM BACTERIA CELLULOSE	519
<i>Yutaka Kaburagi, Yhuki Yamaguchi, Akira Yoshida</i>	
HIGHLY ORIENTED POROUS GRAPHITE FILM PREPARED FROM POROUS AROMATIC POLYIMIDE FILM	521
<i>Yutaka Kaburagi, Hazumu Aoki, Akira Yoshida</i>	
ELASTIC CARBON FOAM/SILICONE COMPOSITE AS A HEATER AT AN AMBIENT TEMPERATURE	523
<i>Satoshi Nakagome, Akira Yoshida, Yutaka Kaburagi</i>	
ELECTRODEPOSITION OF CARBON NANOFIBERS ON SI ELECTRODE FROM ALCOHOL ELECTROLYTES AT ROOM TEMPERATURE	525
<i>Kenji Watahiki, Emi Shindou, Akira Yoshida, Yutaka Kaburagi</i>	
BRIGHT WHITE LIGHT EMISSION FROM MESOPOROUS CARBON-SILICA COMPOSITES	527
<i>S. Kawasaki, Y. Ishii, A. Matsumura, Y. Ishikawa</i>	
MECHANISM OF DIRECT TRANSFORMATION OF GRAPHENE TO FULLERENE	529
<i>Andrey Chuvilin, Elena Bichoutskaia, Nicholas A. Besley, Ute Kaiser, Andrei N. Khlobystov</i>	
INSIGHT INTO THE FORMATION OF MULTIPLY CHARGED FULLERENE CLUSTERS	531
<i>Elena Bichoutskaia, Adrian L. Boatwright, Anthony J. Stace</i>	
QUANTUM MOLECULAR SIEVING IN CARBONS	533
<i>Suresh K. Bhatia, Thanh X. Nguyen, Hervé Jobic, Yang Wang</i>	
INFLUENCE OF THE GENERATION PROCESS ON THE TEXTURAL CHARACTERISTICS OF ACTIVATED CARBONS PRODUCED FROM OLIVE STONES BY THERMAL ACTIVATION, CHEMICAL ACTIVATION, AND CHEMICAL - WET ACTIVATION	535
<i>Abdelmottaleb Ouederni, Mahla Elamami, Souad Najar, Naima Jaber</i>	
MICROSTRUCTURE AND ELECTRICAL PROPERTIES OF NANO MODIFIED MESOPHASE PITCH-BASED CARBON FIBERS	537
<i>Rebecca M. Alway-Cooper, David P. Anderson, Amod A. Ogale</i>	
USING FINITE ELEMENT MODELING TO ANALYZE THERMAL DIFFUSIVITY MEASUREMENTS ON UNIDIRECTIONAL CARBON FIBER-EPOXY COMPOSITES	539
<i>Rebecca M. Alway-Cooper, Merlin Theodore, David P. Anderson, Amod A. Ogale</i>	
NANOTOXICOLOGY: DEPLETION OF ANTIOXIDANTS BY HETEROGENEOUS CATALYSIS ON CARBON SURFACES	541
<i>Xinyuan Liu, Sujat Sen, Indrek Kulaots, David Geohegan, Alex Puzetzy, Tayhas Palmore, Agnes Kane, Robert Hurt</i>	
DEVELOPMENT AND DEGRADATION OF GRAPHITIC MICROTTEXTURE IN CARBON NANOSPHERES UNDER A MORPHOLOGICALLY-RESTRAINED CONDITION	543
<i>Noriko Yoshizawa, Yasushi Soneda, Hiroaki Hatori, Hitoshi Ue, Takeshi Abe</i>	
DNA ENCAPSULATION AND RELEASE FROM WATER-DISPERSIBLE CARBON NANO-TEST-TUBES	545
<i>Yasuto Hoshikawa, Yasuyuki Kanno, Hironori Orikasa, Ittisanromachai Somlak, Takehiko Wada, Fumi Nagatsugi, Takashi Kyotani</i>	
ETCHING OF COMPLEX NANOPORES IN CRYSTALLOGRAPHIC DIRECTIONS BY COBALT-CATALYZED CARBON HYDROGENATION	547
<i>Fei Guo, Indrek Kulaots, Robert Hurt</i>	
INFLUENCE OF HEAT TREATMENT ON THE PROPERTIES OF HIGH THERMAL CONDUCTIVITY GRAPHITE COMPOSITES	549
<i>Chris Stirling</i>	
SYNTHESIS OF CARBON NANOSPHERES FROM PETROLEUM RESIDUES	551
<i>Alexandre T. Castro, Luiz D. Castro, Cristina T. Andrade</i>	
NANOCRYSTALLINE GRAPHITE AS A MATERIAL FOR ELECTROCHEMICAL SUPERCAPACITORS	553
<i>V. A. Krivchenko, Yu. M. Maksimov, A. T. Rakhimov, N. V. Suetin, M. A. Timofeyev</i>	
ELECTRICAL AND THERMAL PROPERTIES OF GRAPHITE INTERCALATION COMPOUNDS CONTAINING CALCIUM AND LITHIUM	555
<i>Rika Matsumoto, Mutsuki Nakajima, Noboru Akuzawa</i>	
CARBON FOAMS WITH TUNABLE MICROSCOPIC AND MACROSCOPIC PROPERTIES	557
<i>Tilman Knorr, Bastian Etzold</i>	
LASER-INDUCED INCANDESCENCE STUDY OF THE INFLUENCE OF NITROGEN DILUTION ON SOOT FORMATION IN LAMINAR FLAMES	559
<i>Alfred Leipertz, Alexandre Flügel, Tobias Knorsch, Johannes Kieffer</i>	
C/C COMPOSITE, CARBON NANOTUBES AND PARAFFIN WAX HYBRID SYSTEMS FOR THE THERMAL CONTROL OF PULSED POWER IN ELECTRONICS	561
<i>Shadab Shaikh, Khalid Lafdi</i>	

APPLICATIONS OF HIGH PRESSURE THERMOGRAVIMETRY IN CARBON RESEARCH	563
<i>Carlton G. Slough, Steven R. Aubuchon</i>	
IN-SITU SYNTHESIS OF CARBON NANOTUBES ON FUNCTIONAL SUBSTRATES AND APPLICATIONS IN NANO-COMPOSITE	565
<i>Gajanana Prabhu-Gaunkar</i>	
EPOXY-FILLED MULTIWALL CARBON NANOTUBE ARRAYS FOR THERMAL INTERFACE APPLICATION	567
<i>Carissa Dowden, Matthew C. Weisenberger, John Craddock, Karen Petty, Toni Shields, A. T. Owens, Rich Foedinger, Simon Chung</i>	
PREPARATION AND CARBONIZATION OF POROUS SARAN CARBON MONOLITHS USING HIGH INTERNAL PHASE EMULSION TEMPLATING	569
<i>E. F. Gudgin Dickson, M. J. B. Evans, J. A. Hern</i>	
HYDROGEN ADSORPTION ON CARBON MATERIALS AT LOW TEMPERATURE	571
<i>Akira Kubota, Satoshi Hino, Hiroki Miyaoka, Kyoichi Tange, Katsuhiko Hirose, Takayuki Ichikawa, Yoshitsugu Kojima</i>	
FLUORINATED ACTIVATED CARBONS FOR MECHANICAL ENERGY STORAGE	573
<i>Sébastien Schlienger, Julien Parmentier, Marc Dubois, André Hamwi, Hayat Kharbache, Francis Masin</i>	
LUBRICATING PERFORMANCES OF THIN LAYERS FILMS OF SILICON CARBIDE DERIVED CARBON	575
<i>Nicolas Batisse, Katia Guérin, Marc Dubois, André Hamwi, Eric Tomasella, Joel Cellier, Philippe Thomas, Jean-Louis Mansot</i>	
A COMPARISON OF GRAPHITE OXIDATION KINETICS	577
<i>Heinrich Badenhorst, Brian Rand, Walter Focke</i>	
SUPERCAPACITY OF TITANIUM CARBIDE DERIVED CARBON OBTAINED BY FLUORINATION	579
<i>Nicolas Batisse, Katia Guérin, Marc Dubois, André Hamwi</i>	
FABRICATION OF HIGHLY CONDUCTING AND TRANSPARENT GRAPHENE FILMS	581
<i>Shu Jun Wang, Yan Geng, Qingbin Zheng, Jang-Kyo Kim</i>	
SPHERICAL ACTIVATED CARBONS FOR LOW CONCENTRATION VOCS ADSORPTION	583
<i>A. J. Romero-Anaya, J. P. Marco-Lozar, M. A. Lillo-Ródenas, A. Linares-Solano</i>	
TiO₂ NANOTUBES USING CARBON TEMPLATE MATERIALS FOR THE PHOTOCATALYTIC OXIDATION OF VOC AT LOW CONCENTRATION	585
<i>M. Ouzzine, J. P. Marco-Lozar, M. A. Lillo-Ródenas, A. Linares-Solano</i>	
OPTIMIZING THE PECVD-PROCESS FOR LOW TEMPERATURE GROWTH OF CARBON NANOTUBES	587
<i>Kerstin Schneider, Michael Häffner, Ines Dreilling, Boris Stamm, Claus Burkhardt, Alfred Stett, Thomas Chassé, Monika Fleischer, Dieter P. Kern</i>	
GRAPHITE NANOPLATELET/SILICONE COMPOSITES FOR THERMAL INTERFACE APPLICATIONS	589
<i>M. A. Raza, A. V. K. Westwood, C. Stirling</i>	
HIGH ENERGY ANODE MATERIALS AND NOVEL ELECTRODE ARCHITECTURE FOR LITHIUM ION BATTERIES	591
<i>Junbing Yang, Wenquan Lu, Khalil Amine</i>	
UTILIZATION OF SUSTAINABLE RESOURCE MATERIALS FOR PRODUCTION OF CARBON FIBER MATERIALS FOR STRUCTURAL AND ENERGY EFFICIENCY APPLICATIONS	593
<i>Frederick S. Baker, Nidia C. Gallego, Darren A. Baker</i>	
DETERMINATION AND ENHANCEMENT OF THE CAPACITANCE CONTRIBUTIONS IN CARBON NANOTUBE BASED ELECTRODE SYSTEMS FOR CNT BASED ELECTROCHEMICAL CAPACITORS/SUPERCAPACITORS	595
<i>M. Hoefler, P. R. Bandaru</i>	
SUPERIOR MECHANICAL PROPERTIES OF CARBON NANOTUBE / POLYMER COMPOSITES THROUGH THE USE OF CARBOXYL-EPOXIDE FUNCTIONAL GROUP LINKAGES	597
<i>S. Park, P. R. Bandaru</i>	
THE INFLUENCE OF COILED NANOSTRUCTURE ON THE ENHANCEMENT OF DIELECTRIC CONSTANTS AND ELECTROMAGNETIC SHIELDING EFFICIENCY IN POLYMER COMPOSITES	599
<i>S. Park, P. R. Bandaru, A. M. Rao</i>	
AUTOMATED IMAGE ANALYSIS CHARACTERIZATION OF OXIDATION PROFILES AND POROSITY DEVELOPMENT DURING AIR OXIDATION OF NUCLEAR GRAPHITE	601
<i>Cristian I. Contescu, Timothy D. Burchell</i>	
MODIFIED MULTILAYER GRAPHENES FOR SUPERCAPACITORS	603
<i>Vinay V. Bhat, Nidia C. Gallego, Cristian I. Contescu</i>	
EFFECT OF METAL ADDITIONS ON THE HYDROGEN UPTAKE OF MICROPOROUS CARBON AT NEAR-AMBIENT TEMPERATURE	605
<i>Cristian I. Contescu, Nidia C. Gallego, Vinay V. Bhat</i>	
CARBON NANOTUBE BASED COILS AND HELICES: THERMAL EFFECTS AND MECHANICAL PROPERTIES	607
<i>P. R. Bandaru, C. Daraio, A. M. Rao</i>	
DEVELOPMENT OF ACTIVATED CARBON NANOFIBER ELECTRODE MATERIALS FOR SUPERCAPACITORS	609
<i>Ravinder Nagireddy, Jayesh Doshi</i>	
A SOLUTION FOR AN ACCURATE STRUCTURAL CHARACTERIZATION OF GRAPHITIZED CARBONS ON POLISHED SECTIONS BY RAMAN MICROSPECTROMETRY	611
<i>M. R. Ammar, J. N. Rouzaud, E. Charon, N. Findling</i>	
PREPARATION AND CHARACTERIZATION OF HIGH SURFACE AREA BC_x COATED CARBON	613
<i>Ali Qajar, Billy Paul M. Holbrook, Ramakrishnan Rajagopalan, Henry C. Foley</i>	

NOVEL CARBON-BASED MATERIALS FOR ADVANCED SUPERCAPACITORS AND LI-ION BATTERIES	615
<i>Benjamin Hertzberg, Sofiane Boukhalfa, Alexandre Magasinski, Igor Kovalenko, Patrick Dixon, Gleb Yushin</i>	
OVERVIEW OF 100 FILAMENT BENCH SCALE SPINNING METHODS FOR EXPERIMENTAL PAN-BASED PRECURSOR FIBER	616
<i>Ashley Morris, Matthew C. Weisenberger, John Craddock, Keith Roberts, Rich Foedinger</i>	
DEVELOPMENT OF A "FUZZY FIBER" SENSOR FOR REAL TIME STRUCTURAL HEALTH MONITORING	618
<i>M. Boehle, Q. Jiang, L. Li, A. Lagounov, K. Lafdi</i>	
EXFOLIATED GRAPHITE AS A FILLER TO ENHANCE THE EMI SHIELDING OF POLYMERS	620
<i>M. Boehle, K. Lafdi, E. Zinsser, P. Collins</i>	
QUALITY FACTOR DETERMINATION FOR A MWNT USING THE HARMONIC DETECTION OF RESONANCE METHOD	622
<i>Doyl Dickel, Apparao M. Rao</i>	
TUNING ELECTRICAL AND THERMAL CONNECTIVITY IN MULTIWALLED CARBON NANOTUBE BUCKYPAPER	624
<i>Keqin Yang, Jian He, Pooja Puneet, Malcolm J. Skove, Terry M. Tritt, Apparao M. Rao</i>	
CONSTRUCTION OF HIERARCHICAL ARCHITECTURE IN WORMHOLELIKE NANOPOROUS CARBON FOR SUPERCAPACITORS	626
<i>Yeru Liang, Fengxue Liang, Dingcai Wu, Zhenghui Li, Ruowen Fu</i>	
AN APPROACH TO MICROPORE-ENRICHED CARBON AEROGEL BY EMPLOYING NITROGEN AS AN ATOM LEVEL TEMPLATE	628
<i>Xiaoqing Yang, Dingcai Wu, Xiaomei Chen, Ruowen Fu</i>	
REMOVAL OF ISOPROPYL MERCAPTAN FROM GAS STREAM USING CO-MO SUPPORTED CARBON NANOTUBE NANO CATALYST	630
<i>M. Farahzadi, J. Towfighi, A. Mohamadizadeh, A. M. Rashidi</i>	
JOINING OF C/C COMPOSITES AND GH3128 NI-BASED SUPERALLOY BY NI-TI MIXED POWDER AS AN INTERLAYER	632
<i>Ling-Jun Guo, He-Jun Li, Chen Guo, Ke-Zhi Li, Tao Feng</i>	
NANOCARBONS : CHEMICAL FILTERS FOR THE SELECTIVE DETECTION OF NITROGEN DIOXIDE AND OZONE	634
<i>L. Spinelle, M. Dubois, J. Brunet, A. Pauly, K Guérin, C. Varenne, B. Lauron, A. Hamwi</i>	
NOVEL SOURCES OF RAMAN D-BANDS IN NANOCARBONS: INCOMMENSURATE STACKINGS AND FOLDS	636
<i>Awnish Gupta, Youjian Tang, C. Nisoli, Paul E. Lammert, Cristiano Nisoli, Vincent H. Crespi, Peter C. Eklund</i>	
STRUCTURAL CHARACTERIZATION OF THE MAJOR COMPONENTS OF PETROLEUM PITCH	637
<i>Ward A. Burgess, Mark C. Thies</i>	
CARBON EROSION AND DEPOSITION OF TOKAMAK PLASMA FACING COMPONENTS	639
<i>Rémi Ruffe, Céline Martin, Cédric. Pardanaud, Grégory Giacometti, Thierry Angot, Timo Dittmar, Pascal Languille, Bernard Pégourié, Emmanuelle Tsitroné, Christian Dominici, Martiane Cabié, Pascale Roubin</i>	
PREPARATION AND CHARACTERIZATION OF COELECTROSPUN LIGNIN/ALUMINA MICROFIBERS AND TUBES	641
<i>R. Ruiz-Rosas, J. Bedia, M. Lallave, A. Barrero, I. G. Loscertales, J. Rodríguez-Mirasol, T. Cordero</i>	
SYNTHESIS AND ELECTROCHEMICAL PROPERTIES OF PANI/CARBON NANOSTRUCTURE COMPOSITE	643
<i>Guangmin Zhou, Dawei Wang, Hui-Ming Cheng, Feng Li</i>	
COMPACTED EXPANDED GRAPHITE WITH A LOW THERMAL CONDUCTIVITY	645
<i>Ivan M. Afanasov, Irina V. Makarenko, Igor I. Vlasov, Gustaaf Van Tendeloo</i>	
HYDROCARBONS GAS STORAGE ON ACTIVATED CARBON PRODUCED FROM OLIVE STONES	647
<i>Sonia Ben Yahia, Abdelmottaleb Ouederni</i>	
A GRADIENT SELF-SEALING OXIDATION PROTECTIVE COATING FOR CARBON/CARBON COMPOSITES	649
<i>Yulei Zhang, Hejun Li, Kezhi Li</i>	
GROWTH OF CARBON MICROCOILS ON CARBON FIBERS BY CATALYTIC CHEMICAL VAPOR DEPOSITION	651
<i>Tengfei Chen, Lei Liu, Dongbo Zhu, Kechao Zhou</i>	
PREPARATION AND MICROSTRUCTURAL INVESTIGATION OF CARBON FIBERS/CARBON NANOFIBERS REINFORCED CARBON COMPOSITES BY CHEMICAL VAPOR INFILTRATION	653
<i>Dongbo Zhu, Tengfei Chen, Lei Liu, Kechao Zhou</i>	
MICROSTRUCTURE EVOLUTION OF WOOD DURING CARBONIZATION	655
<i>Christopher Byrne</i>	
REACTIVE CARBON NANOTUBES FOR STRONG INTERFACES IN POLYMER COMPOSITES	657
<i>Maria C. Paiva, Rui M. Novais, Tânia Ferreira, Maria F. Proença, Frank Simon, Petra Pötschke, Flemming Besenbacher, Wei Xu</i>	
CHARACTERIZATION OF CARBON NANOTUBES FOR EXACT STRUCTURE OF THE CNTS IN RANGE OF TENS OF NM	659
<i>Bhaven Mehta, Jerry Wu, Mona Zaghloul</i>	
RELATIONSHIP BETWEEN GRAPHENE STRUCTURE IN BALL MILLED GRAPHITE AND ELECTROCHEMICAL PERFORMANCE OF LITHIUM-ION BATTERY/CAPACITOR	661
<i>Yasuhiro Matsumura, Takayuki Ichikawa, Hiroki Miyaoka, Yoshiki Fukuyama, Yoshitsugu Kojima</i>	

PREPARATION OF NANOSILICON/CARBON COMPOSITES VIA AN ELECTROCHEMICAL REDUCTION OF NANO-SIZED SILICA EMBEDDED IN CARBON MATRICES	663
<i>Hiroto Nishihara, Takashi Suzuki, Hiroyuki Itoi, Bai-Gang An, Takashi Kyotani</i>	
COAL TAR PITCH DERIVED CARBONS FOR ASYMMETRIC ELECTROCHEMICAL CAPACITORS	665
<i>Timothy Tomko, Dustin Bauknight, Ramakrishnan Rajagopalan</i>	
PROPERTIES OF ACTIVATED CARBON PREPARED FROM BARLEY HUSK OF BEER PROCESS RESIDUE	667
<i>Ikpyo Hong, Hyeon-Seok Ko, Sei-Min Park, Seong-Young Lee, Hoon Park</i>	
METAL-OXIDE / CARBON NANOCOMPOSITES FOR USE IN SUPERCAPACITORS	669
<i>Softiane Boukhalfa, Alexandre Magasinski, Benjamin Hertzberg, Lu Wei, Gleb Yushin</i>	
PREPARATION OF PULP WASTE BASED ADSORBENTS AND THEIR PROPERTIES	670
<i>Ikpyo Hong, Ki-Hyeon Kim, Sei-Min Park, Seong-Young Lee, Hoon Park</i>	
SYNTHESIS OF SI/C COMPOSITES WITH NANOCAVITIES AROUND SI NANOPARTICLES AND THEIR PERFORMANCE FOR LI INSERTION/EXTRACTION	672
<i>Shinichiroh Iwamura, Hiroto Nishihara, Takashi Kyotani</i>	
PREPARATION AND PHYSICOCHEMICAL MODIFICATION OF ELECTRIC ARC-PREPARED CARBON NANO-ONIONS	674
<i>Rituraj Borgohain, John Craddock, John P. Selegue</i>	
PREPARATION, REDUCTION AND TRANSPARENT CONDUCTING FILM APPLICATION OF LARGE GRAPHENE OXIDE SHEETS	676
<i>Hui-Ming Cheng, Jinping Zhao, Songfeng Pei, Wencai Ren, Jinhong Du</i>	
A STUDY ON CARBON/GRAPHITE COATING FOR THE HEAT DISSIPATION OF PHOTOVOLTAIC MODULE	678
<i>Un-Yong Eom, Seung-Kuk Seo, Jae-Hong Kim, Gwang-Ju Lee, Seung-Kuk Seo, Ji Eun Ha, Jae-Seung Roh</i>	
A STUDY ON THE MANUFACTURING OF GRAPHITE BIPOLAR PLATES FOR PROTON-EXCHANGE MEMBRANE FUEL CELL	680
<i>Dong-Su Kang, Jai-Sang Ahn, Jae-Hong Kim, So-Young Lee, Jae-Hoon Lee, Seung-Kuk Seo, Jae-Seung Roh</i>	
NOVEL GAS SENSITIVITY OF ELECTROSPUN CARBON NANO-FIBERS BY DEVELOPED PRE STRUCTURE AND INDUCED FUNCTIONAL GROUP	682
<i>Seok Chang Kang, Ji Sun Im, Sei-Hyun Lee, Young-Seak Lee</i>	
EFFECT OF HETEROATOM-DOPING ON THE PHYSICAL PROPERTIES OF ZEOLITETEMPLATED CARBONS	684
<i>Hiroyuki Itoi, Hiroto Nishihara, Peng-Xiang Hou, Li-Xiang Li, Takashi Kyotani</i>	
DISCHARGE CHARACTERIZATION OF CARBON NANOTUBES COATED ELECTRODE USED IN GAS DISCHARGE TUBE	686
<i>Min Il Kim, Sei-Hyun Lee, Young-Seak Lee</i>	
NANOSTRUCTURED CARBONS OBTAINED BY TEMPLATE METHOD FOR SELECTIVE ADSORPTION OF BIOMOLECULES	688
<i>A. M. Puziy, O. I. Poddubnaya, C. A. Reinish, T. I. Mironiuk, M. M. Tsyba, L. I. Mikhalovska, S. V. Mikhalovsky</i>	
ADSORPTION OF AMMONIA ON OXYGEN-CONTAINING ACTIVATED CARBONS	690
<i>Nobumitsu Nakanishi, Soichiro Tahara, Yoshinobu Otake</i>	
A NEW AND HIGHLY SELECTIVE VANADIUM CARBON-BASED CATALYSTS	692
<i>M. Olga Guerrero-Pérez, Ricardo López-Medina, Miguel A. Bñares, Juana M. Rosas, José Rodríguez-Mirasol, Tomás Cordero</i>	
THE ANTI-OXIDATION CHARACTERIZATION OF ILLITE/PHENOL/CARBON COMPOSITES	694
<i>Euiyoung Jeong, Min Il Kim, Seho Cho, In-Sub Han, Se-Young Kim, Young-Seak Lee</i>	
THERMAL CHARACTERIZATION OF PHENOL FORMALDEHYDE/NEEDLE PUNCHED CARBON COMPOSITES BY OXY-FLUORINATION TREATMENT	696
<i>Min Il Kim, Euiyoung Jeong, Seho Cho, Young-Seak Lee</i>	
IMPROVED HYDROGEN ADSORPTION OF ELECTROSPUN ACTIVATED CARBON FIBERS BY DIFFERENT ELECTRONEGATIVITY LEVELS OF TWO CATALYSTS	698
<i>Ji Sun Im, Byong Chol Bai, Sung Kyu Lee, Young-Seak Lee</i>	
EFFECTS OF CARBON OF CARBON BLACK FOR CONTROLLED DRUG RELEASE IN ELECTRO-RESPONSIVE TRANSDERMAL DRUG RELEASE SYSTEM	700
<i>Jong Gu Kim, Ji Sun Im, Young-Seak Lee</i>	
IMPROVED ELECTROMAGNETIC INTERFERENCE SHIELDING EFFICIENCY OF EPOXY COMPOSITE RESIN BY FLUORINATED CARBON NANOTUBE ADDITIVES	702
<i>Byong Chol Bai, Ji Sun Im, Young-Seak Lee</i>	
DENSITY, MICROSTRUCTURE AND PROPERTY OF LARGE-SCALE CARBON/CARBON COMPOSITES PREPARED BY FAST THERMAL GRADIENT CVI	704
<i>Weifeng Cao, Hejun Li, Lingjun Guo, Kezhi Li, Xuetao Shen</i>	
IMPROVED DYNAMIC MECHANICAL MECHANICAL PROPERTIES OF E-BEAM-CURED EPOXY COMPOSITE BY MWCNT ADDITIVES	706
<i>Sung Kyu Lee, Ji Sun Im, Young-Seak Lee</i>	
PREPARATION AND CHARACTERIZATION OF SI/CARBON COMPLEX AS ANODE MATERIALS FOR LITHIUM HYBRID BATTERY	708
<i>Min-Jung Jun, Ji Sun Im, Sang Ick Lee, Jeon-Seok Jang, Young-Seak Lee</i>	
EFFECT OF METAL INSERTION ON THE HYDROGEN STORAGE PROPERTIES OF CARBON NANOFIBERS PREPARED BY ELECTROSPINNING	710
<i>Mehraj-Ud-Din Naik, Jong Gu Kim, Ji Sun Im, Young-Seak Lee</i>	

GRAPHENE UNDER UNIAXIAL STRAIN: A RAMAN STUDY	712
<i>Otakar Frank, Georgia Tsoukleri, John Parthenios, Konstantinos Papagelis, Ibsam Riaz, Rashid Jalil, Kostya S. Novoselov, Ladislav Kavan, Costas Galiotis</i>	
CONTROLLED DISPERSION OF CARBON NANOTUBES BY AMPHIPHILIC POLYELECTROLYTES	714
<i>Otakar Frank, Zdeno Spitalsky, Dimitrios Tasis, Konstantinos Papagelis, Constantinos Tsitsilianis, Costas Galiotis</i>	
DIRECT SYNTHESIS OF MESOSTRUCTURED CARBON-METAL OR CARBON-INTERMETALLIC NANOPARTICLES USED AS POTENTIAL ABSORBENTS FOR HYDROGEN STORAGE	716
<i>Philippe Dibandjo, Claudia Zlotea, Roger Gadiou, Fermin Cuevas, Michel Latroche, Cathie Vix-Guterl</i>	
INFLUENCE OF THE THERMAL REDUCTION PROCESS ON THE SIZE OF PD NANOPARTICLES DURING THE SPACE CONFINED SYNTHESIS INSIDE MESOPOROUS CARBONS MATERIALS	718
<i>Philippe Dibandjo, Claudia Zlotea, Roger Gadiou, Fermin Cuevas, Michel Latroche, Cathie Vix-Guterl</i>	
PRODUCTION AND STRUCTURE OF EXPANDED GRAPHITE/COKE/ZRC COMPOSITES	720
<i>Ivan M. Afanasov, Gustaaf Van Tendeloo, Andrei T. Matveev</i>	
WATER ADSORPTION ON MICROPOROSITY-CONTROLLED SINGLE WALL CARBON NANOTUBE	722
<i>Michimi Nakamura, Tomonori Ohba, P. Branton, Hirofumi Kanoh, Yoshiyuki Hattori, Fujio Okino, Masahiro Yamamoto, Kenji Hata, Katsumi Kaneko</i>	
NEW INSIGHTS ON THE ADSORPTION OF ORGANIC BINARY MIXTURES ON CARBON USING TPD AND XPS TECHNIQUES	724
<i>Camelia Matei Ghimbeu, Roger Gadiou, Joseph Dentzer, Patrice Brender, Philippe Fioux, Christine Liétard, Cathie Vix-Guterl</i>	
ORDERED POROUS CARBON/METAL COMPOSITES FOR HYDROGEN STORAGE	726
<i>Camelia Matei-Ghimbeu, Claudia Zlotea, Roger Gadiou, Fermin Cuevas, Eric Leroy, Michel Latroche, Cathie Vix-Guterl</i>	
CATALYTIC ACTIVITIES OF K₂CO₃ SUPPORTED ON PEROVSKITES FOR COMBUSTION OF COAL CHARS	728
<i>Young-Kwang Kim, Lijiang Hao, Jin Miyawaki, Isao Mochida, Seong-Ho Yoon</i>	
INFLUENCE OF PORE STRUCTURES ON THE ELECTROLYTE BEHAVIOR IN EDLC BY ¹¹B SOLID STATE NMR	730
<i>Masanori Saito, Tae-Gon Kim, Sang-Min Jang, Keiko Ideta, Jin Miyawaki, Koji Saito, Seong-Ho Yoon, Isao Mochida</i>	
CONTROL OF PORE STRUCTURE OF ACTIVATED CARBONS FOR EDLC THROUGH TWO-STEP ACTIVATION	732
<i>Masanori Saito, Jin Miyawaki, Seong-Ho Yoon, Isao Mochida</i>	
THE MANGANESE OXIDE PHASE STUDY ON THE DECOMPOSITION MECHANISM OF FORMALDEHYDE AND LONGEVITY	734
<i>Naoki Watanabe, Joon-Young Yeh, Gang-Ho Lee, Jin Miyawaki, Isao Mochida, Seong-Ho Yoon</i>	
PREPARATION OF NANOSHELL FROM POLYOXINE COBALT COMPLEX AND ITS ELECTROCATALYTIC ACTIVITY FOR AN OXYGEN REDUCTION REACTION	736
<i>Naokatsu Kannari, Rieko Kobayashi, Jun-Ichi Ozaki</i>	
SYNTHESIS OF ISOTROPIC PITCH WITH HIGH SOLVENT SOLUBILITY USING HALOGEN	738
<i>Naoki Watanabe, Jin Miyawaki, Isao Mochida, Seong-Ho Yoon</i>	
SIZE AND SURFACE EFFECTS OF ACTIVATED CARBONS ON THE ADSORPTION BEHAVIORS OF INDOLE AND AMYLASE	740
<i>Joonyoung Yeh, Jin Miyawaki, Isao Mochida, Seong-Ho Yoon</i>	
INVESTIGATION OF THE CATALYTIC EFFECT OF MnO₂ IN THE COMBINATION WITH ACTIVATED CARBON FIBER ON THE REMOVAL OF NO	742
<i>Nor Azizi Bin Othman, Takaaki Shimohara, Masaaki Yoshikawa, Jin Miyawaki, Isao Mochida, Seong-Ho Yoon</i>	
SURFACE TREATMENT OF NANOSHELL CARBON WITH IRON CATION	744
<i>Yuka Koshigoe, Yutaka Nakamura, Naokatsu Kannari, Jun-Ichi Ozaki</i>	
VALENCE CHARGE MAPPING AND POTENTIAL TRAP DEPRESSION IN GRAPHENE MEMBRANES AND CARBON NANOTUBES	746
<i>Luca Ortolani, Florent Houdellier, Etienne Snoeck, Marc Monthieux, Vittorio Morandi</i>	
TRANSVERSAL CUTTING OF PLATELET CARBON NANOFIBERS TO ISOLATE GRAPHENE DISCS	748
<i>Donghui Long, Wei Li, Jin Miyawaki, Seong-Ho Yoon, Isao Mochida</i>	
SYNTHESIS AND STRUCTURAL ANALYSES OF PLATELET CARBON NANOFIBERS COMPOSED OF TWIN-FLAT FIBRILS	750
<i>Wei Li, Jin Miyawaki, Seong-Ho Yoon, Isao Mochida</i>	
CO₂ MIXING EFFECT ON PREPARATION OF FE-CATALYZED CARBON NANOFIBERS	752
<i>Yoshinori Matsuo, Li Wei, Jin Miyawaki, Isao Mochida, Seong-Ho Yoon</i>	
CHARACTERIZATION OF ADSORPTION BEHAVIORS OF MOLECULES TO WELL-DEFINED CARBON SURFACES USING SOLID STATE NMR	754
<i>Yoshinori Matsuo, Keiko Ideta, Wei Li, Koji Saito, Jin Miyawaki, Isao Mochida, Seong-Ho Yoon</i>	
IMPROVEMENTS OF STRENGTH OF REFRACTORY BRICKS BY CNF COMPOSITENESS	756
<i>Yoshinori Matsuo, Li Wei, Masato Tanaka, Jin Miyawaki, Isao Mochida, Seong-Ho Yoon</i>	
ADDITION OF SPECIALLY DESIGNED SiO₂-CNF AND Si-CNF COMPOSITES TO IMPROVE CAPACITY AND RATE PERFORMANCES OF ANODIC GRAPHITE FOR LI-ION BATTERIES	758
<i>Tae-Hwan Park, Sang-Min Jang, Jin Miyawaki, Isao Mochida, Seong-Ho Yoon</i>	
SEI FORMATION BEHAVIORS ON WELL DEFINED CARBON SURFACES FOR LITHIUM ION BATTERY SYSTEM	761
<i>Jae-Seong Yeo, Jin Miyawaki, Isao Mochida, Seong-Ho Yoon</i>	
PREPARATION OF THE HIGH RATE GRAPHITIC CARBON MATERIALS FOR THE ANODE OF LI-ION BATTERY	763
<i>Yuzo Ohata, Jin Miyawaki, Seong-Ho Yoon, Isao Mochida</i>	

MONOFILAMENT COMPOSITES WITH CARBON NANOTUBES AND CO-CONTINUOUS POLYAMIDE12 / POLY (METHYL METHACRYLATE) BLENDS	765
<i>Bruno A. Oliveira, Marlene F. Barbosa, Maria C. Paiva, José A. Covas, Alexandre Ferreira, António Almeida, Fernando Ferreira</i>	
ELASTIC ENERGY IN FOLDED GRAPHENE SHEETS	767
<i>James Boone, Gemma Haffenden, Malcolm Heggie</i>	
A STUDY OF THE REACTIONS BETWEEN WATER AND GRAPHITE IN TRIBOCHEMICAL SYSTEMS	769
<i>Jean-Christophe Rietsch, Patrice Brender, Roger Gadiou, Joseph Dentzer, Cathie Vix-Guterl</i>	
CARBON FOAM PRODUCTION FROM A THERMO-CHEMICALLY MODIFIED COMMERCIAL COAL TAR PITCH	771
<i>M. Ferhat Yardim, E. Ekinci, B. Tsyntsarski, B. Petrova, T. Budinova, N. Petrov</i>	
HIGH CRYSTALLINE GRAPHENE NANORIBBONS FROM HELICAL-RIBBON CARBON NANOFIBERS	773
<i>Helena Varela-Rizo, Iluminada Rodriguez-Pastor, César Merino, Ignacio Martin-Gullon</i>	
EXPERIMENTAL STUDY OF COLD HYDROGEN ATOMS IN INTERACTION WITH GRAPHITE	775
<i>E. Aréou, C. Thomas, G. Cartry, J.-M. Layet, T. Angot</i>	
DEVELOPMENT OF ENHANCED INTERLAMINAR STRENGTH CARBON-CARBON MATERIALS FOR HIGH TEMPERATURE PROPULSION COMPONENTS	776
<i>Brian J. Sullivan, Kerry Hopp, Dan Howren, Dan Yurus, Wei Shih, Rogelio Ramirez, Stephen M. Jones, Jacques Cuneo, John Koenig, Cheri Moss, Steve Clarke, Sean Kroszner, Jim Kaufmann</i>	
FRICITION COEFFICIENTS OF NUCLEAR GRADE GRAPHITES FOR VERY HIGH TEMPERATURE GAS-COOLED REACTOR AT ROOM TEMPERATURE	778
<i>Eung-Seon Kim, Yong-Wan Kim</i>	
SH - SYNTHESIS OF CARBON - METALCARBIDE CRUCIBLES	780
<i>Z. A. Mansurov, I. M. Vongay, O. V. Chervyakova, I. V. Tancereva, A. A. Nesmashnyi</i>	
FRACTURE AND CRACK GROWTH BEHAVIORS OF NUCLEAR GRADE GRAPHITES	782
<i>Eung-Seon Kim, Yong-Wan Kim</i>	
STUDY OF H₂ STORAGE PERFORMANCE OF PHYSICALLY ACTIVATED CARBON NANOFIBRES	784
<i>M. Kumowsky, J. P. Marco-Lozar, A. Oyab, A. Linares-Solano</i>	
A COMPARISON OF GAS STORAGE CAPACITIES IN MOF-5 AND ACTIVATED CARBONS	786
<i>J. P. Marco-Lozar, J. Juan-Juan, F. Suárez-García, D. Cazorla-Amorós, A. Linares-Solano</i>	
WET SPINNING OF POLYMERIC FIBERS WITH HIGH LOADING OF CARBON NANOTUBES	788
<i>Vijaya Sa, Bogdan Zdyrko, Chen-Chih Tsai, Igor Luzinov, Konstantin G. Kornev</i>	
INVESTIGATION OF THE NON-ANNEALED GRAPHENE PAPER AS A BINDER-FREE ANODE FOR LITHIUM BATTERIES	790
<i>Ali Abouimrane, Owen Compton, Sonbinh T. Nguyen, Khalil Amine</i>	
SYNTHESIS AND CHARACTERIZATION OF NANO-GRAPHENE PLANES VIA LOW TEMPERATURE THERMAL EXFOLIATION	792
<i>L. M. Manocha, Vishal S. Makadia, S. Manocha</i>	
QUANTUM CHEMISTRY OF GRAPHENE EDGES: PROGRESS, COMPARISON WITH EXPERIMENT AND CHALLENGES	794
<i>Ljubisa R. Radovic</i>	
SH - SYNTHESIS OF CARBON - METALCARBIDE CRUCIBLES	796
<i>Z. A. Mansurov, I. M. Vongay, O. V. Chervyakova, I. V. Tancereva, A. A. Nesmashnyi</i>	
STRUCTURAL STUDY OF THE NUCLEAR GRAPHITE MODIFIED BY ION BEAM IRRADIATION	798
<i>M. R. Ammar, J. N. Rouzaud, C. E. Vaudey, N. Toulhoat, N. Moncoffre</i>	
COMBINING SMALL ANGLE AND WIDE ANGLE XRAY SCATTERING TECHNIQUES FOR IN-SITU STUDIES OF PARTICLE FORMATION PROCESSES IN REACTIVE SYSTEMS USING A NEW DETECTOR PROTOTYPE	800
<i>Frederik Ossler, Linda Vallenhag, Sophie E. Canton, Peter Sondhauss</i>	
THE EFFECT OF MOLECULAR COMPOSITION ON DEVELOPMENT OF POROSITY IN PITCH-BASED ACTIVATED CARBON FIBERS	802
<i>Halil Tekinalp, Eduardo Cervo, Mark C. Thies, Dan D. Edie, Bahram Fathollahi, Nidia C. Gallego, Cristian I. Contescu</i>	
SELECTIVE SYNTHESIS OF SUB-NANOMETER DIAMETER SEMICONDUCTING SWNTS	804
<i>Jason Reppert, Ramakrishna Podila, Codruta Zoican Loebick, Joel Chudow, Fang Ren, Gary L. Haller, Lisa D. Pfefferle, Apparao M. Rao</i>	
CURVATURE-INDUCED SYMMETRY LOWERING AND ANOMALOUS DISPERSION OF PHONONS IN CARBON NANOTUBES	806
<i>R. Podila, J. Reppert, N. Li, C. Z. Loebick, S. J. Stuart, L. D. Pfefferle, A. M. Rao</i>	
EFFECT OF THE ANODE ON THE ELECTROCHEMICAL REGENERATION AND POROSITY RECOVERY OF PHENOL-SATURATED ACTIVATED CARBON	808
<i>R. Berenguer, J. P. Marco-Lozar, C. Quijada, D. Cazorla-Amorós, E. Morallón</i>	
ACCELERATED FIRST-PRINCIPLES MOLECULAR DYNAMICS TO STUDY HYDROGEN INTERACTION WITH TRANSITION METAL DOPED CARBON MATERIALS	810
<i>Samir H. Mushrif, Gilles H. Peslherbe, Alejandro D. Rey</i>	
THERMOELECTRIC POWER OF CVD GROWN GRAPHENE AS SURFACE CHARGE DOPING INDICATOR	812
<i>A. N. Sidorov, A. Sherehiy, R. Jayasinghe, R. Stallard, D. K. Benjamin, Q. K. Yu, H. L. Cao, W. Wu, Z. H. Liu, J. M. Bao, S. S. Pei, Y. P. Chen, Z. Jiang, G. U. Sumanasekera</i>	
AN UPDATE ON CARBON-BASED CONCRETE-FRIENDLY MERCURY SORBENT	814
<i>Yinzh Zhang, Sid Nelson Jr., Quihui Zhou, Ronald Landreth</i>	

STRUCTURE AND PROCESS DEPENDENT PROPERTIES OF SOLID-STATE SPUN CARBON NANOTUBE YARNS	816
<i>Shaoli Fang, Mei Zhang, Anvar A. Zakhidov, Ray H. Baughman</i>	
CHARACTERIZATION OF FIBER STRUCTURES DEVELOPED DURING CARBON FIBER CONVERSION PROCESS	818
<i>Shao C. Chiu, Edward J. Ryan</i>	
UNDERSTANDING THE EFFECT OF THE INTERPHASE IN POLYMER NANOCOMPOSITES	820
<i>Mehdi Karevan, Md A Bhuiyan, Kyriaki Kalaitzidou</i>	
MICROSTRUCTURAL CHARACTERIZATION OF SILICON/CARBON NANOFIBER COMPOSITES FOR USE IN LI-ION BATTERIES	822
<i>Jane Y. Howe, Harry M. Meyer III, David J. Burton, Maryam Nazri, G. Abbas Nazri, Andrew C. Palmer, Patrick D. Lake</i>	
ELASTIC LAYERED METAL-ORGANIC FRAMEWORK SORBENTS FOR CARBON CAPTURE	824
<i>Trinh D. Tran, Christian M. Lastoskie, Hirofumi Kanoh, Katsumi Kaneko</i>	
CUSTOMIZED HUMIDITY CONTROL FILTERS FOR ENCLOSED AND VENTED SYSTEMS	825
<i>Yehya Elsayed, Dustin Zastera, John Frein, Andrew J. Dallas</i>	
A NANOFIBER/ CARBON COMPOSITE FOR OSTOMY VENTS	827
<i>Mike Hebert, Yehya Elsayed, Lloyd Keleny, Dave Mulder, Andrew J. Dallas</i>	
CARBON NANOMATERIAL SHEET GOODS FOR MULTI-FUNCTIONAL STRUCTURAL COMPOSITES	829
<i>Patrick Lake, Carla Leer-Lake, David Burton</i>	
SILICON-DECORATED CARBON NANOTUBES AS HIGH CAPACITY ANODES FOR LITHIUM ION BATTERIES	831
<i>Kara Evanoff, Benjamin Hertzberg, Thomas F. Fuller, W. Jud Ready, G. Yushin</i>	
CARBON NANO-ONIONS FROM ARC DISCHARGE AND NANODIAMOND GRAPHITIZATION: COMPARISON OF THEIR PROPERTIES AND CHEMISTRY	833
<i>John P. Selegue, Mahendra Kumar Sreeramoju, Rituraj Borgohain, John D. Craddock</i>	
CARBON/IODIDE INTERACTIONS FOR SUPERCAPACITOR APPLICATIONS	835
<i>Elzbieta Frackowiak, Grzegorz Lota, Krzysztof Fic</i>	
TWO-DIMENSIONAL FINITE CARBON PORE MODELS. EFFECTS OF PORE WALL SHAPE AND LENGTH ON NLDFT ADSORPTION ISOTHERMS	837
<i>Jacek Jagiello, James P. Olivier</i>	
ENHANCEMENT OF CARBON/ELECTROLYTE INTERFACE BY SURFACTANTS FOR ELECTROCHEMICAL APPLICATIONS	839
<i>Elzbieta Frackowiak, Krzysztof Fic, Grzegorz Lota</i>	
CARBON/LAYERED DOUBLE HYDROXIDE COMPOSITES FOR CAPACITOR USE	841
<i>Elzbieta Frackowiak, Agnieszka Polaczyk, Cathie Vix-Guterl</i>	
ACTIVATED CARBON SURFACE GROUPS INFLUENCE ON THE ANCHORAGE OF IRON NANOPARTICLES AND THEIR CONTRIBUTION TO THEIR ARSENIC ADSORPTION FROM WATER	843
<i>César Nieto-Delgado, M. Terrones, José-René Rangel-Mendez</i>	
ADVANCED PHYSICAL ADSORPTION CHARACTERIZATION OF NANOPOROUS CARBONS: ASSESSING SURFACE (CHEMISTRY) PROPERTIES AND PORE STRUCTURE BY A COMBINATION OF WATER, ARGON/NITROGEN AND CARBON DIOXIDE ADSORPTION	845
<i>Mathias Thommes, Catherine Morlay, Zheling Zhang, Riaz Ahmad, Jean-Pierre Joly</i>	
EFFECT OF STRUCTURAL CHANGES ON ORR REACTIVITY OF N-DOPED CARBONIZED SUGI WOOD	847
<i>T. Hata, Y. Uchimoto, R. Benoit, S. Bonnamy, P. Bronsveld</i>	
PREPARATION OF GRAPHENE LIKE SHEETS OBTAIN THROUGH ELECTROCHEMICAL PROCESSING	849
<i>M. Toyoda, H. Masuda, T. Kinumoto, T. Tsumura</i>	
DISCUSSION OF INTERCALATION BEHAVIOR FOR THE PITCH-BASED CARBON FIBERS	851
<i>M. Toyoda, Y. Ouchi, A. Takenaka, T. Kinumoto, T. Tsumura</i>	
ADSORPTION OF LEAD FROM WATER SOLUTION ONTO A ACTIVATED CARBON FROM BOIS CARRÉ SEEDS	853
<i>L. Largette, P. Couespel Dumesnil, S. Gervelas</i>	
CHARACTERIZATION OF GRAPHENE FILMS PRODUCED BY LB GO FILM FORMATION, GO REDUCTION AND THERMAL ANNEALING	855
<i>Yo-Rhin Rhim, Marcia W. Patchan, Lance M. Baird, Jennifer L. Sample, Robert Oslander</i>	
THE MICROSTRUCTURAL EVOLUTION OF MICROCRYSTALLINE CELLULOSE DURING CARBONIZATION	857
<i>Yo-Rhin Rhim, Dajie Zhang, Dennis C. Nagle</i>	
PARAMETRIC STUDY OF THE CARBON NANOTUBES PRODUCED BY MPECVD	859
<i>El-Shazly M. Duraia, Z. A. Mansurov, S. Tokmoldin, Gary W. Beall</i>	
COMPARATIVE STUDY OF PHYSICO-CHEMICAL PROPERTIES OF ULTRADISPERSE DIAMOND AND SHUNGITE NANOCARBON	861
<i>Natalia N. Rozhkova, Sergey S. Rozhkov, Lyubov E. Gortlenko, Galina I. Yemel'yanova, Valeri V. Lumin, Eiji Ôsawa</i>	
RHEOLOGICAL AND ELECTRICAL PROPERTIES OF MULTIWALLED CARBON NANOTUBE - EPOXY COMPOSITES	863
<i>Karen Petty, Christopher L. Fitzwater, Delphine Franchi, Douglass S. Kalika, Mark S. Meier, Mathew Weisenberger</i>	
CRYSTALLINITY AND STRUCTURE OF SHUNGITEFILLED THERMOPLASTIC COMPOSITES REVEALED BY DSC AND AFM METHODS	865
<i>S. S. Rozhkov, V. A. Timofeeva, A. B. Solov'Eva</i>	
DEVELOPING ENERGY-RELATED APPLICATIONS AND SOURCES OF NATURAL GRAPHITE	867
<i>George C. Hawley</i>	

CONTACT ANGLE HYSTERESIS AT THE NANOMETER SCALE STUDIED WITH CVD-PREPARED CARBON CONES ATTACHED TOAFM TIPS	869
<i>Mathieu Delmas, Marc Monthieux, Thierry Ondarçuhu</i>	
MAGNETO-TRANSPORT IN CARBON-NANOTUBETEMPLATED 1D-COBALT-CRYSTALS	871
<i>Jean-Pierre Cleuziou, Wolfgang Wernsdorfer, Thierry Ondarçuhu, Marc Monthieux</i>	
MULTI-SCALE QUANTITATIVE ANALYSIS OF CARBON STRUCTURE AND TEXTURE: III. LATTICE FRINGE IMAGING ANALYSIS	873
<i>P. I. Raynal, M. Monthieux, J. P. Da Costa, O. Dugne</i>	
BULK CARBON NANOTUBE YARN CONDUCTIVITY AND STRENGTH ENHANCEMENT THROUGH HIGH TEMPERATURE ANNEALING	875
<i>John S. Bulmer, Larry M. Christie, David P. Anderson, Gregory Kozlowski, Jared M. Petry, Betty T. Quinton, Chaminda Jayasinghe, Ge Li, Joon Hwan Lee, Haiyan Wan, Breanna Ruter-Schoppman, Kevin Yost, Paul N. Barnes</i>	
EFFECTS OF SEVERAL FACTORS ON MORPHOLOGY AND MICROSTRUCTURE OF CARBON FILMS FORMED ON STAINLESS STEEL SUBSTRATES BY DC ARC DISCHARGE	877
<i>Shen Cui, Yan Xu, Lei Guan, Lan Cui, Hui Wang, Tao Xue, Kui Lin, Pei Yao, Xiao P. Chen</i>	
THE USE OF PHOSPOROUS COMPOUNDS AS POLYMERIZATION CATALYSTS IN THE SYNTHESIS PROCESS OF CARBON AEROGELS	879
<i>Nelson O. Briceño Gamba, María H. García Rosero, Salome Vargas Ruiz, José De J. Díaz Velasquez</i>	
THERMAL ANALYSIS OF COBALT CATALYST SUPPORTED ON CARBON AEROGELS	881
<i>María Helena García, Nelson Oswaldo Briceño, Ariel Oswaldo Cadena, Yazmín Yaneth Agamez, José De Jesús Díaz</i>	
THE ROLE OF HETEROJUNCTIONS IN THE GROWTH OF TERNARY CBN HETERONANOTUBES	883
<i>Wei An, C. Heath Turner</i>	
SUBSTRATE ENHANCED STABILITY OF HYDROGEN ADSORPTION COMPLEXES ON GRAPHENE ON IR(111)	885
<i>Bjarke Jørgensen, Richard Balog, John Thrower, Saoud Baouche, Louis Nilsson, Emil Enderup Friis, Alan Luntz, Flemming Besenbacher, Philip Hofmann, Rosanna Larciprete, Alessandro Baraldi, Silvano Lizzit, Liv Hornekær</i>	
BAND GAP OPENING IN GRAPHENE INDUCED BY PATTERNED HYDROGEN ADSORPTION	886
<i>Richard Balog, Bjarke Jørgensen, Louis Nilsson, Mie Andersen, Emile Rienks, Marco Bianchi, Mattia Fanetti, Erik Lægsgaard, Alessandro Baraldi, Silvano Lizzit, Zeljko Sljivancanin, Flemming Besenbacher, Bjørk Hammer, Thomas G. Pedersen, Philip Hofmann, Liv Hornekær</i>	
RHEOLOGY AND FIBER SPINNABILITY OF SELECT PETROLEUM AND COAL-TAR PITCHES	888
<i>Young-Pyo Jeon, Meng Zhang, Amod A. Ogale, Chris Levan, James Connell</i>	
CARBON-BASED ELECTRODES: LEARN FROM TRADITIONAL POROUS CARBON TO DESIGN INNOVATIVE GRAPHENE-BASED NANOSHEETS	890
<i>Da-Wei Wang, Feng Li, Hui-Ming Cheng, Ian R. Gentle, Gao Qing (Max) Lu</i>	
ACCURATE PARAMETRIC FORCE FIELD FOR SIMULATION OF CARBON NANOSTRUCTURE OXIDATION	892
<i>Ilya Valuev</i>	
GRAPHITIZATION OF PBO FIBRE CHARs AS SEEN BY X-RAY SCATTERING AND HRTEM	893
<i>M. B. Vázquez-Santos, Amelia Martínez-Alonso, J. M. D. Tascón, J. N. Rouzaud, E. Geissler, K. László</i>	
PREPARATION OF POROUS CNFS BY SELECTIVE CATALYTIC GASIFICATION AND THEIR CHARACTERISTIC EVALUATION FOR SUPPORTED CATALYSTS	895
<i>Jin-Sung Jang, Seongyop Lim, Sang-Kyung Kim, Dong-Hyun Peck, Byungrok Lee, Doohwan Jung</i>	
CATALYTIC ACTIVITIES OF DIRECTLY SYNTHESIZED NITROGEN DOPED CARBON NANOFIBERS	897
<i>Jiyoung Kim, Seongyop Lim, Sang-Kyung Kim, Dong-Hyun Peck, Byungrok Lee, Doohwan Jung</i>	
SiO₂/CARBON NANO FIBER USING CATALYTIC DECOMPOSITION FOR THE CATALYST OF DMFC	899
<i>Kidon Nam, Seongyop Lim, Sang-Doohwan Jung</i>	
FULLERENIUM SALTS: NEW C₆₀ CATION BASED MATERIALS	901
<i>Mauro Riccò, Daniele Pontiroli, Marcello Mazzani, Giorgia Zandomenighi, Beat H. Meier, Toni Shiroka</i>	
CHARACTERISTICS OF MELT-BLOW SPUN, SOLVATED MESOPHASE PITCH-BASED CARBON FIBER AND TYPICAL COMPOSITES	903
<i>Zhongren Yue, Ahmad Vakili, Chang Liu</i>	
STM INVESTIGATIONS OF THE INTERACTION BETWEEN HYDROGEN ATOMS AND GRAPHENE ON DIFFERENT TRANSITION METALS	905
<i>Louis Nilsson, Ivan Stensgaard, Mie Andersen, Richard Balog, Erik Lægsgaard, Flemming Besenbacher, Liv Hornekær</i>	
CHEMICAL MODIFICATIONS OF GRAPHENE USING DIAZONIUM CHEMISTRY	906
<i>Mikkel S Kongsfelt, Marcel Cecato, Louis Nilsson, Bjarke Jørgensen, Liv Hornekær, Steen U. Pedersen, Kim Daasbjerg</i>	
MECHANICAL PROPERTIES OF STABILIZED ITACONIC ACID MODIFIED POLYACRYLONITRILE	908
<i>Sungho Lee, Sungsoo Lim, Bon-Cheol Ku, Junkyong Kim</i>	
THERMAL BEHAVIOR OF POLYACRYLONITRIL/ ACID- FUNCTIONALIZED MULTI-WALLED CARBON NANOTUBES	910
<i>Ok-Kyung Park, Sungho Lee, Junkyong Kim Lee, Bon-Cheol Ku</i>	
DOMINO-LIKE SELF-PROPAGATING SOLID STATE REACTIONS IN GRAPHITE OXIDE	912
<i>Franklin Kim, Jiayan Luo, Jiaxing Huang</i>	
PULSE PHOTOTHERMAL REDUCTION AND PATTERNING OF GRAPHITE OXIDE	914
<i>Philip E. Goins, Laura J. Cote, Rodolfo Cruz-Silva, Jiaxing Huang</i>	
LANGMUIR-BLODGETT ASSEMBLY OF GRAPHENE OXIDE SHEETS	916
<i>Laura Cote, Franklin Kim, Jiaxing Huang</i>	
GRAPHENE OXIDE SHEETS AT AIR-WATER, LIQUID-WATER AND SOLID-WATER INTERFACES	918
<i>Jaemyung Kim, Laura J. Cote, Franklin Kim, Wa Yuan, Kenneth R. Shull, Jiaxing Huang</i>	

THE VERSATILITY OF CARBON MATERIALS	920
<i>Francisco Rodríguez-Reinoso</i>	
PREPARATION OF NANOPOROUS ZIRCONIA-EMBEDDED CARBON COMPOSITES: NOVEL APPROACH FOR DIRECT MODIFICATION OF SUPPORT SUBSTRATES	924
<i>Jung M. Oh, Amar S. Kumbhar, Olt Geiculescu, Stephen E. Creager</i>	
Author Index	