* Carbon2014 Program Timetable

- TI: Graphene
- T2: CNTs and Related Carbon Nanomaterials
- T3: Precursors, Carbon Fibers, and Composites
- T4: Industrial Graphites, Carbon Industry News, and Carbon Blacks
- **T5:** Porous Carbons, Carbons for Health and Environmental Protection
- T6: Carbons for Sustainable Energy Conversion and Storage, and Carbons for Energy Saving
- T7: Analysis, Characterization, Computation and Modelling of Carbons

Program	CARBON Editors' Workshop	Welcome Reception		Ope	ening /	Confer	ence		C	onfere	nce / Pa	anel D	iscuss	ion		Conf	erence	e/ Excı	ursion			Co	onferer	nce / Ba	inquet				Clos	sing		
Date/ Time	June 29 (Su	ın)		,	June 3	0 (Mor	1)				July 1	(Tue)					July 2	(Wed)				July	3 (Thu	I)				July 4	(Fri)		
8:00-8:30					Regis	stration					Regis	tration					Regis	tration	ı				Reg	istration	n				Regist			
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9:10-9:30				Jona		I. COLE	MAN		T1	Т3	T6	T5	Т6	T4	T1	T2	Т3	T5	T6	T7	T1	T2	Т3	T5	T6	Т3	T2	T5	T5	T6	T6	T7
9:30-9:50					•)-9:50)																				NC-						
9:50-10:10				E	Break ((20 min	1)																			Symposium						
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10:50-11:10 11:10-11:30			T1	T2	Т3	T5	Т6	T7			PL ianma.	.02	2			D.		_03 AJAY/	۸NI					PL04 Jae PAI	шV				PL Makoto			
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11:50-12:10												nch					Lu	nch	,				L	unch	,				Lur	nch		
12:10-13:00					Lu	ınch					(11:40	-13:10)				(11:40	-12:50))				(11:4	10-13:10	0)				(11:40-	13:10)		
13:10-13:30	Registration (13:00	0~19:00)			(12:10)-13:30))																									
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13:50-14:10 14:10-14:30									T1	Т3	T6	T5	T2	T4							T1	T2	Т3	T5	T6	KIMS	T2	T5	T5	T6	Т6	T7
14:30-14:50			T1	T2	Т3	T5	T6	T7																								
14:50-15:10										ı	Break (20 mir)									Brea	ak (20	min)				Closir	ng Remarl	(14:50-15	:20)	
15:10-15:30	[Room: SAMDA HALL] CARBON Editors'				Break ((20 min	1)										_									Break						
15:30-15:50	Workshop on								T1	Т3	T6	T5	T2	T1				ursion -18:00))		T1	T2		T5	T6							
15:50-16:10	'Graphene-based																(10.00	10.00	')							KRICT						
16:10-16:30	materials: preparation, theory	Registration																														
16:30-16:50	and applications' (13:30~19:00)		T1	T2	Т3	T5	Т6	T 7			[5F, F													FOYER								
16:50-17:10										Р	oster S	Sessior -17:30	1											Sessio 30-17:30								
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21:00	Welcome Rece (19:30-21:00										anel Di (19:00-																					

Date/ Time			June 30			
8:00-8:30 8:30-9:00	[Room: TAMNA A]		Registra Openin	ation g Ceremony		
9:00-9:50	[Room: TAMNA A]	(Chair: Robert HURT) [PL01] Tiny bu	t Mighty: How Liquid Processing of Ca Jonathan N. COLEMAN (Trinity)	rbon-based Nanomaterials will Lead to College Dublin, Ireland)	Future Applications	
9:50-10:10			Break (20	min)		
Room	HALLA A TI: Graphene	HALLA B T2: CNTs and Related Carbon	SAMDA T3: Precursors, Carbon Fibers, and	303 T5: Porous Carbons, Carbons for	401 T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for	402 T7: Analysis, Characterization, Computation and Modelling of
		Nanomaterials	Composites	Health and Environmental Protection	Energy Saving	Carbons
Chair 10:10-10:30	Alberto BIANCO, Sungyool CHOI (10:10-10:50) (KLT1-01) Interesting Properties of Strained and Defective Graphene	William MILNE, Yoong Ahm KIM (10:10-10:50) (KLT2-01] Carbon Nanotube's Nanospace for Nanotubology Hamanof SHINOHARA (Nagoya	Xuanke LI, Chong Min KOO (10:10-10:50) (KLT3-01) Carbon Materials for the Future Future Rodney S. RUOFF (Ulsan National	An-Hui LU, Myung-Sco KIM [ORTS-01] Molten-Salt Route to the Synthesis of Nitrogen Doped Porous Carbon for Adsorption Desulfulzation Xuzhen WANG (Dalian University of Technology, China)	Fengliu LOU, Young hwan CHU [ORT6-01] Electrolyte membrane modification by Graphene Oxide (GO) for the Vanadium Redox Flow Battery (VRB) Young hwan CHU (Sangii University, Korea)	Colin BOUSIGE, Suresh BHATIA (DRT7-01] Refining Carbon Pore Size Analysis by Using Adsorption Data of Multiple Gases at Various Temperatures and 2D-NLDFT Modeling Jacek JAGIELLO (Micromeritics Instrument Corporation, USA)
10:30-10:50	Klan Ping LOH (National University of Singapore, Singapore)	Hisanori SHINOHARA (Nagoya University, Japan)	Roanny S. ROUPP (Usan National Institute of Science and Technology, Korea)	[ORT5-02] An Oil Absorbent based on Three-Dimensionally Ordered Multimodal Porous Carbon with Hydrophobicity Shi OIU (China University of Petroleum, China)	[ORT6-02] Pyrolytic Carbon from Graphite Oxide as an Anode of Sodium Ion Battery Yoshiaki MATSUO (University of Hyogo, Japan)	[ORT7-02] Diffusion of Methane in Silicon Carbide-Derived Carbon: Experiment and Simulation Suresh BHATIA (The University of Queensland, Australia)
10:50-11:10	[ORT1-01] Controlling Graphene Growth in a Solid Carbon Source based Chemical Vapor Deposition Method Golap KALITA (Nagoya Institute of Technology, Japan)	(10:50-11:20) [ILT2-01] CVD Growth of Single-Walled Carbon Nanotubes with Controlled Structures for Nanodevice Applications Jin ZHANG (Peking University, China)	[ORT3-01] Carbon Fiber/Copper Core-Shell Hybrid for Thermally Conductive Composites Chang Min KOO (Korea Institute of Science and Technology, Korea)	[ORT5-03] Hierarchically Structured MOF/CNT Composite for Gas Adsorption 2honghus 2HU (The University of Queensland, Australia)	[ORT6-03] Fabrication of Graphene/CNT/Polyaniline Composite with Enhanced Cycling Stability for Flexible Supercapacitors Zhuangjun FAN (Hathin Engineering University, China)	[ORT7-03] Pyrolytic Carbon Matrices Nanotextures: a Review of Characterization and Modeling Studies Gerard VIGNOLES (University Bordeaux, France)
11:10-11:30	[ORT1-02] Growth of Monolayer Graphene with Minimized Winkles using rGO Interfacial Layer Jeong Hun MIN (Korea Advanced Institute of Science and Technology, Korea)	(11:20-11:50) (ILTZ-02) Deformation-induced Conductance Improvement in Cup- stacked Carbon Nanotube	(ORT3-02) Pitch based Carbon Fibers Reinforced One-dimensional Carbon/carbon Composites with Ultrahigh Thermal Conductivity Xuanke LI (Wuhan University of Science & Technology, China)	[ORT5-04] Structure Controlled Synthesis of Porous Carbons and Their Applications An-Hul LU (Dallan University of Technology, China)	[ORT6-04] Optimization of Multi- Walled Carbon Nanotube based CFx Electrodes for Improved Primary and Secondary Battery Performances Bhabendra PRADHAN (Nanoholdings, USA)	[ORT7-04] Building Realistic Models of Kerogen using Hybrid reverse Monte Carlo Simulations Coln BOUSIGE (MIT-CNRS, France)
11:30-11:50	[ORT1-03] Defective Graphene as Supporting Material in Platinum- based Catalyst Jiao-Jing SHAO (Tianjin University, China)	stacked Carbon Nanotube Morinobu Endo (Shinshu University, Japan)	[ORT3-03] Effect of Activated Carbon Nanofibers Supported with Metal Oxide Nanoparticles on H2S Adsorbent Bharat BAJAJ (Carbon Convergence Materials Research Center, Korea)	[ORT5-05] Nitrogen-doped Porous Carbons from Coal Liquefaction Residual Jieshan QIU (Dallan University of Technology, China)	ORT6-05] Study on GO/MnO2 Composite with High Specific Capacitance by Heat Treatment Xiao-Min WANG (Talyuan University of Technology, China)	[ORT7-05] Water and Methanol as Potential Molecular Probe for Oxygen Functional Groups on Carbon Surfaces Duong DO (University of Queensland, Australia)
11:50-12:10	[ORT1-04] Preparation of Graphene with Layer Control by CVD Method over Copper(II) Carbonate Catalyst at Atmosphere Pressure Alimorad RASHIDI (Research institute of petroleum industry, Iran)	[ORT2-01] Growth of Centimeter-Tall Carbon Nanotube Forests Jaegeun LEE (POSTECH, Korea)	(ORT3-04) Preparation of Pitch from Pyrolized Fuel Oil (PFO) by Electron Beam Treatment for Melt- Electrospinning Jin-Young JUNG (Chungnam National University, Korea)	[ORTS-06] Ion Adsorption Study of Nickel Complexes on Silicon Carbide-derived Carbon Andreas KERN (Friedrich- Alexander-Universität Erlangen-Nü mberg, Germany)	[ORT6-06] Aligned Carbon Nanotubes based 3D Electrodes for Energy Fengliu LOU (Norwegian University of Science and Technology, Norway)	[ORT7-06] One-pot Titration Methodology for Determining Surface Functionalities of Carbon Nanomaterials Yern Seung KIM (Seoul National University, Korea)
12:10-13:30			Lunc			
Room	HALLA A TI: Graphene	HALLA B T2: CNTs and Related Carbon	SAMDA T3: Precursors, Carbon Fibers, and Composites	303 T5: Porous Carbons, Carbons for	401 T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for	402 T7: Analysis, Characterization, Computation and Modelling of
Chair	Sang Ouk KIM, Geon-Woong LEE	Nanomaterials Hisanori SHINOHARA, Young Chul CHOI	Composites Hejun LI, Seung Min KIM	Health and Environmental Protection Yunsuk HUH, Sungho LEE	Conversion and Storage, Carbons for Energy Saving Weilin XU, Jongbok KIM	Carbons Yasuhiro YAMADA, Wonoh LEE
13:30-13:50	(13:30-14:00) [ILT1-01] The Atomic Structure of Defects and Dopants in Graphene Jamie WARNER (University of Oxford, UK)	(13:30-14:00) (ILTZ-03) Dry Manufacturing of SWNT Thin Films for Flexible Electronics Applications Esko KAUPPINEN (Aslto University, Finland)	(13:30-14:00) [ILT3-01] From Chemistry to Tailored Automotive Composite Parts Joerg SCHNORR (BASF, Germany)	(13:30-14:10) [KLT5-01] Porous Activated Carbons as Global Healthcare Solutions for the 21st Century	(13:30-14:00) [ILT6-01] Functional Carbon Materials for Supercapacitors and Dye-sensitized Solar Cells Jason Jieshan OlU (Dallan University of Technology, China)	[ORT7-07] Thermochemistry and Kinetics of the Graphene-NO Reaction: Monomer vs Dimer Mechanism Ljubias RADOVIC (Penn State University and University of Concepcion, USA)
13:50-14:10	(14:00-14:20) (ORT1-05] Fabrication of Zigzag Graphene Edges Wei Sun LEONG (National University of Singapore, Singapore)	(14:00-14:30) (ILT2-04) Flexible Electronics Applications of Carbon Nanotube Thin Films Vutaka OHNO (Nagoya University,	(14:00-14:30) [ILT3-02] Carbon Fibers from Aromatic Polymer Precursors Hiroaki HATORI (The National Institute of Advanced Industrial	Sergey MIKHALOVSKY (Nazarbayev University, Kazakhstan)	(14:00-14:30) [ILT6-02] A Class of High Performance non-platinum Oxygen Reduction Electrocatalysts based on Cheap Carbon Blacks for Fuel Cells Wellin XU (Chanchun Institute of	[CRT7-08] Nitrogen-containing Graphene Analyzed by X-ray Photoelectron Spectroscopy Yasuthir VAMADA (Chiba University, Japan)
14:10-14:30	(14:20-14:40) [DRT1-06] Boron Doped Single Layer Graphene Yoong Ahm KIM (Chonnam National University, Korea) [14:40-15:00]	Japan)	Science and Technology (AIST), Japan)	[ORT5-07] Antioxidant Behaviors of Graphene-Based Materials Yang QIU (Brown University, USA)	weenin AO (changenin Institute of Applied Chemistry, Chinese Academy of Science, China)	[ORT7-09] X-ray Photoelectron Spectroscopy Analyses of Graphene including Pentagons and Heptagons Jungpil KIM (Chiba University, Japan)
14:30-14:50	(ORT1-07) Electrochemically Enhanced Visualization of Graphene Grain Boundaries by Mild Anodizing Process Minseok CHOI (LG Electronics Advanced Research Institute, Korea)	[ORT2-02] A New Strategy for Fabricating High-Performance Transparent Conductive Films Based on Oxidized Single-Walled Carbon Nanotubes Sae Jin SUNG (Seoul National University, Korea)	[ORT3-05] Consideration of Fiber Deformation from High Pressure Flow in Carbon Fiber Reinforced Composite Molding Process Dong Gi SEONG (Korea Institute of Materials Science, Korea)	[ORT5-08] Graphene Modified Carbon Nanosheels for Electrochemical Detection of Pb(II) in Water Jin-Tao ZHANG (Dalian University of Technology, China)	[ORT6-07] Soft Processing Methodologies with Carbon based Organic Materials for Organic Solar Cells with Multidirectional Flexibility Jongbok KIM (Kumoh National Institute of Technology, Korea)	[ORT7-10] Visualizing Carbon Material Properties at Highest Performance and Resolution Using Confocal Raman, AFM, and SNOM Matthias KRESS (WITec GmbH, Germany)
14:50-15:10	(15:00-15:20) (ORT1-08] The Diffusion and Coalescence of Vacancies in Graphnea and Graphite Malcolm HEGGIE (University of Surrey, UK)	[ORT2-03] Multi-Walled Carbon Nanotubes Modified with Metal Nanoparticles for Sensing Applications Nikos TSIERECEOS (Ilmenau University of Technology, Germany)	[ORT3-06] Preparation of Carbon Nanotube/Carbon Fiber Hybrids for Enhancing Carbon/Epoxy Interfaces Gangping WU (Institute of Coal Chemistry, Chimese Academy of Sciences, China)	[ORTS-09] Graphene-like Atomic Structure of Carbons obtained from Saccharose Natalia WOZNICA (Institut Laue- Langevin, France)	[ORT6-08] New Copper/GO based Material as an Efficient Oxygen Reduction Catalyst: The Role of Unique Cur/GO Architecture Teresa BANDOSZ (CCNY/CUNY, USA)	[ORT7-11] Activated Carbon from an Arid-land-plant Euphorbia Rigida: A Study on the Competitive Adsorption of Ni(II) and Zn(II) Esin VAROL (Anadolu University, Turkey)
15:10-15:30 Room	HALLA A	HALLA B	Break (303	401	402
Session	TI: Graphene	T2: CNTs and Related Carbon Nanomaterials	T3: Precursors, Carbon Fibers, and Composites	T5: Porous Carbons, Carbons for Health and Environmental Protection	T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for	T7: Analysis, Characterization, Computation and Modelling of Carbons
Chair	Toshiaki ENOKI, Hyeon Suk SHIN	Lianmao PENG, Kap Seung YANG	Jean-Paul MOULIN, Euigyung JEONG	Yu BAI, Soo Jin PARK	Energy Saving Yunhua YU, Young-Seak LEE	Carbons Jean-Noel ROUZAUD, Jaesang YU
15:30-15:50	(15:30-16:00) (ILT1-02] Chemical Modification and Nanoscale Assembly of Graphene Based Materials for Optimized Nanostructures and Nanodevices Sang Ouk KIM (Korea Advanced Institute of Science and Technology, Korea)	(ILT2-05) Large Area Doped Graphene Layers and Hybrid Graphene/Nanotube Films: Control Synthesis, Characterization and Applications Mauricio TERRONES (The Pennsylvania State University, USA)	(ORT3-07) Partially Reduced Graphene Oxide and Mussel- inspired Polydopamine as Novel Sizing Agents for Fiber-reinforced Composites Woroh LEE (Korea Institute of Materials Science, Korea)	[ORTS-10] Preparation of Cobalt Oxide Supported Mesoporous Carbon Spheres for Ethylene Removal Wencheng LI (East China University of Science and Technology, China)	(DRT6-09] Enhancements of Electrochemical Supercapacitor Performances through Pore Structure Optimization and Densilification of the Electrodes from Electospinning Kap Seung YANIO (Chonnam National University, Korea)	[ORT7-12] Mosaic Block Size Determination in Artificial Graphite Crystals by Magnetoresistance Anton DMTR/IEV (Chelyabinsk State University, Russki)
15:50-16:10	(16:00-16:20) [ORT1-09] Preparation of Few-layer Graphene Samples by Solvothermal Reaction Sebastien FONTANA Universite de Lorraine, France)	(16:00-16:20) [ORT2-04] Synthesis of High quality Semiconducting Single-Wall Carbon Nanotubes by Hydrogen Etching Peng-Yang HOU (Institute of Metal Research, Chinese Academy of Sciences, Chins)	[CRT3-08] ZrxTa1-xB2-SiC multiphase oxidation protective coating for SiC-coated carbon/carbon composites Xuanru REN (Northwestern Polytechnical University, China)	[ORTS-11] The Synthesis and Investigation of Highly Porous Carbon Materials for Supercapacitor Electrodes Alexander SAMAROV (Institute of Coal Chemistry and Materials Science SB RAS, Russia)	[ORT6-10] Carbon Electrodes for Hybrid Electrolyte Capacitors Alkicolaj MELLER (Poznan University of Technology, Poland)	[ORT7-13] Structural Study of Carbonization Processes : a Field for Raman Microspectrometry Jean-Noel ROUZAUD (CNRS-ENS, France)
16:10-16:30	(16:20-16:40) [ORT1-10] Pore Structure Analysis of High Surface Area Graphene- based Monolith Katsumi KANEKO (Shinshu University, Japan)	(16:20-16:40) (ORT2-05) Conical Shaping of MWCNTs and Graphite Surface by Plasma Irradiation Sun-Taek LIM (Seoul National University, Korea)	[ORT3-09] Fiber-Matrix-Interface- Design for Carbon Fiber Reinforced Carbon Composites Oswin ÖTTINGER (SGL Group, Germany)	[ORTS-12] Impact of Process Conditions in Preparation of Porous Carbon from Date Palm Seeds by KOH Activation Chandrasekar SRINIVASAKANINAN (The Petroleum Institute, United Arab Emirates)	[ORT6-11] Ex-situ Ni/Al Double Hydroxide Microspheres on a Nickel toam/Graphene Template as Electrode Material for High Performance Supercapacitors Damilola MOMODU (University of Pretoria, South Africa)	[CRT7-14] Gold Nanoparticle/Carbon nanotube- based Non-enzymatic Glucose Biosensor Electrode Modified with CuO for Improving Sensitivity Me-Seon PAPK (Chungnam National University, Korea)
16:30-16:50	(16:40-17:00) [ORT1-11] Water/loe as an Agent for Facile Exfoliation of Graphite Oxide and Reconstruction of the Resultant Graphene Oxide into a 3D Monolith with Flow-through Macropores Issa O GINO (Hokkaido University, Japan)	(16:40-17:00) (ORT2-06] A Study on the Nucleation Mechanism of Carbon Nanotubes by in situ Transmission Electron Microscopy Chang LIU (Institute of Metal Research, Chinese Academy of Sciences, China)	[ORT3-10] Comparison of Microstructure and Ablation Behavior of Carbon/Carbon Composites Modified by Different Thermal Protection System Wei SUN (Central South University, Chins)	[ORT5-13] Nitrogen-doped Porous Graphitic Carbon Ultrafine Fiber Webs and Their Adsorption Performance Yu BAI (Tsinghua University, China)	[ORT6-12] Ribbon-like activated Carbon with a Multi-structure for Supercapacitor Moki-Hwa Kinf (Korea Institute of Ceramic Engineering & Technology, Korea)	(ORT7-15) The Surface Characteristics of Carbonaceous Materials Evaluated with T2 Distribution Analysis of Absorbed Hydrogen Harun KUMAGAI (Hokkaido University, Japan)
16:50-17:10	(17:00-17:20) (ORT1-12) Characterization of Graphene Oxide Filber and Graphene Oxide/Mulliwall Carbon Nanotube Filber Prepared by Wet Spinning Yi-O! WANG (Korea Institute of Materials Science, Korea)	(17:00-17-20) [ORT2-07] Carbon Nanomaterials Producing in Combustion Zuikhair MANSUROV (Institute of Combustion Problems, Kazakhstan)	[ORT3-11] Aerodynamic oxidation behavior of SiC coated CiC-ZrC- ZrB2-SiC composites in a wind tunnel at 1873 K Jin-Ping ZrIANG (Northwestern Polytechnical University, China)	[ORT5-14] 1H NMR Spectra Analysis for the Adsorption of Volatile Organic Compounds onto Porous Carbons (Single and Multi Components) Guirec LE BOZEC (CNRS, France)	[ORT6-13] Activated Carbon and LI3V1-9SNi0.05(PO4)3 as Active Materials to the Development of Advanced Li-lons Supercapacitors Marco SECCHIAROLI (University of Camerino, Italy, 2SW-Zentrum für Sormenenergie- und Wasserstoff- Forschung, Germany)	[ORT7-16] Micromechanically-based Effective Electrical Conductivity Estimates and Experimental study for Polymer Nanocomposites: Percolation Threshold Jaesarry VJ (Korea Institute of Science and Technology, Korea)
17:10-17:30	(17:20-17:40) [ORT1-13] Graphene Nanoribbons and Nanoflakes from Functionalized Carbon Precursors Maria PAIVA (Universidade do Minho, Portugal)	(17:20-17:40) [ORTZ-08] Synthesis of Carbon Nanofiber Bulks by Chemical Vapor Deposition Xiang GE [East China University of Science and Technology, China)	[ORT3-12] Role of Direct Fluorination on the Surface Properties of Various Carbon Materials Euigyung JEONG (Agency for Defense Development, Korea)	[ORTS-15] Three Kinds of Surface Molecularly Imprinted Polymers on Iniferter-modified Carbon Microspheres for Capturing Benzothiophenes Xuguang LIU (Taiyuan University of Technology, China)	[ORT6-14] Nitrogen and Phosphorus Enriched Carbon Nanofibers with High Gravimetric and Volumetric Capacitances Yunhua YU (Beijing University of chemical Technology, China)	[ORT7-17] In-situ Measurement of Property Change during Heat- Treating at Pre-Graphitization Norio IWASHITA (National Institute of Advanced Industrial Science and Technology, AIST, Japan)

Date/ Time 8:00-8:30				(Tue)		
Room	HALLA A	HALLA B	SAMDA	303	401	402
Session	TI: Graphene	T3: Precursors, Carbon Fibers, and Composites	T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving	T5: Porous Carbons, Carbons for Health and Environmental Protection	T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving	T4: Industrial Graphites, Carbon Industry News, and Carbon Blacks
Chair	Rodney S. RUOFF, Kisuk KANG	Ying YANG, Kap Seung YANG	Francois BEGUIN, Byoung-Sun LEE	Feiyu KANG, Bon-Cheol KU	Vilas G. POL, Geon-Woong LEE	Se-Hwan CHI, Myung-Soo KIM
8:30-8:50	(8:30-9:00) [ILT1-03] Graphene-derivatives for High Performance Li and Na Rechargeable Batteries Kisuk KANG (Seoul National University, Korea)	(8:30-9:00) [LIT3-03] Carbon Materials with High Thermal Conductivity Felyu KANG (Tsinghua University, China)	(8:30-9:00) [ILT6-03] Optimal Porous Carbons for Supercapacitors in Aqueous and Ionic Liquid Electrolytes Francois BEGUIN (Poznan University of Technology, Poland)	(8:30-9:10) [KLT5-02] Graphene Family Nanomaterials: from Chemical	[ORT6-26] Preparation and Enhanced Power Performance at High Charge Rate of Porous CNT/sulfur Composites Yochan JEONG (Secul National University, Korea)	(8:30-9:00) [ILT4-01] Research and Development of Carbon Separator for PEFC Toshihito ISHIDA (Tokai Carbon Co., Ltd., Japan)
8:50-9:10	(9:00-9:20) (ORT1-14) Nitrogen-doped Defective Graphere Foam as a Fuel Cell Electrocatalyst Stephen LYTH (Kyushu University, Japan) (9:20-9:40)	(9:00-9:30) ILT3-04 Coaxial MnO2@carbon Nanofibers Nanocomposites as Freestanding Electrodes for High- performance Electrochemical Capacitors	(9:00-9:20) [ORT6-15] High Electrochemical Performance of Electrospun Porous Carbon Nanofibers Incorporating CoA Nanoparticles for Livin Batteries Sara ABOUALI (The Hong Kong University of Science and Technology (HKUST), Hong Kong) (9:20-9:40)	Modifications to Biomedical Applications and Health Impacts Alberto BIANCO (CNRS, France)	[ORT6-27] Unique Redox behavior of Zaoilte-templated Carbon in Organic Electrolytes Histotron NISHIHARA (Tohoku University, Japan) [ORT6-28] Preparation and	(9:00-9:30) IILT4-02] Graphile Small Specimen Testing for Nuclear Application Se-Hwan CHI (Korea Atomic Energy Research Institute, Korea)
9:10-9:30	(9.20-9.40) (DRT1-15) Coke-Based Graphenes as Effective Electrodes in Redox Flow Batteries Patricia ALVAREZ (Instituto Nacional del Carbon, CSIC, Spain)	Ying YANG (Tsinghua University, China)	(9.20-9.40) (ORT6-16) Co-axially Electrospun Multi- layered Silicon/carbon Nanofibers for Lithium Rechargeable Battery Anode Byoung-Sun LEE (Samsung Advanced Institute of Technology, Korea)	[ORT5-16] Synthesis of Hierarchical Porous Carbon Nanospheres for High- performance Supercapacitor Electrodes Xiaoliang YU (Tsinghus University, China)	Electrochemical Performance of Phenolic Resin-based Activated Carbon Nano-fiber Paper Yan SONG (Institute of Coal Chemistry, Chinese Academy of Sciences, China)	
9:30-9:50	(9:40-10:00) (DRT1-16) Nanoporous Layered Graphene Hydrogels with Controlled Pore Sizes: Design, Synthesis, Characterization and Applications Mark BIGGS (The University of Adelaide, Australia)	(ORT3-13) Mechanical and Electrical Properties of Multi-layer Graphene Filled Poly(viny) chloride) Composites You ZENG (Institute of Metal Research, Chinese Academy of Scineces, China)	(9:40-10:00) [ORT6-17] Effect of Amine Functional Groups Introduced in Ordered Mesoporous Carbon on Cycle Stability of Li-S Batteries Jae Ho KIM (Seoul National University, Korea)	[ORT5-17] Hydrocarbon Transport through Porous Carbons: on the Validity of Darcy's law Benoit COASNE (Massachusetts Institute of Technology, USA)	[ORT6-29] Electrochemical Performance of Hierarchical Porous Carbon Materials Obtained from Lignin Infiltration of Zeolite Templates Ramiro RUZ-ROSAS (Alicante University, Spain)	[ORT4-01] Transparent, Superhard Amorphous Carbon and its Strength at High Pressure Mingguang YAO (Jillin University, China)
9:50-10:10	(10:00-10:20) (ORT1-17] Simple Preparation of Reduced Graphene Oxide Encapsulation Film for Organic Photovoltaic Device Taethoor KIM (Seoul National University, Korea)	[ORT3-14] A Comparison of Pyrolytic Carbon Microstructures by Various Methods Zhongwei ZHANG (Aerospace Research Institute of Meterials and Processing Technology, Chins)	(10.00-10:20) (ORTG-18] High Rate Capability and Stability of Ball-milled Si Nanoparticles Coated by Carbon as Negative Electrode for Li-lon Batteries Takatoshi KASUKABE (Tohoku University, Japan)	[ORTS-18] Effect of Transition Metal Ior doped Mesoporous N doped Carbon on the Oxygen Reduction Reaction in PEMFC Utzildelger BYAMBASUREN (Yansei University, Korea)	[ORT6-30] Impact of Textural-structural Properties on Capacitive behavior of Microporous Carbons derived from Renewable Biomass Sources Javier CARRETERO-GONZALEZ (CIC energiGUNE, Spain)	[ORT4-02] Gorlovo Basin's Anthracite. Influence of Calcination Conditions on the Coke Microstructure and Properties of Cathode Blocks Alexander DUNAEV (ENERGOPROM, Russia)
10:10-10:30	(10:20-10:40) (ORT1-18] Enhanced Molecular Sensing and Efficient Photovoltaic Conversion of Large-Area Doped Graphene Sheets Ruitao LU (Tsinghua University, China)	(ORT3-15) Use of Various Feedstock to make Hybrid Cokes as Fillers for Making Carbon and Graphite Artifacts Ching-Feng (John) CHANG (GrafTech International, USA)	(10:20-10:40) (ORT6-19) Electrospun N-doped ORT6-19) Electrospun N-doped Porous Carbon Nanofiber Networks as High-performance Free-standing Electrode Materials Ding NAN (Tsinghua University, China)	[ORT5-19] Can the Electroselectivity for the Oxidation of Propargyl Alcohol be Shiltled using Ni-doped Nanoporous Carbons? Leticia GARCIA-CRUZ (Institute of Electrochemistry of University of Alicante, Spain)	[ORT6-31] Preparation of Hierachical Porous Carbon Fibers for Supercapacitor Electrodes Shouchun ZHANG (Institute of Coal Chemistry, Chinese Academy of Sciences, China)	(ORT4-03) Graphitized Carbon Black as an Additive in a WO3/Al Nanothermite Arnaud BACH (CNRS, France)
10:30-10:50	[Room: TAMNA A]	(Chair: Cheol Jin LEE) [PL02] Carbon Nanotube Electronics - Ex	(20 min) stending Moore's Law to the End of the R	oadmap	
10:50-11:40			Lianmao PENG (Peking University Lunch (11	y, China)		
Room	HALLA A	HALLA B	SAMDA	303	401	402
Session	TI: Graphene	T3: Precursors, Carbon Fibers, and Composites	T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for	T5: Porous Carbons, Carbons for Health	T2: CNTs and Related Carbon	T4: Industrial Graphites, Carbon Industry News, and Carbon Blacks
Chair	Jamie WARNER, II-Kwon OH	Alberto MIRANDA, Won Suk KIM	Energy Saving Soshi SHIRAISHI, Doo-Hwan JUNG	Magdalena TiTIRICI, Soo Jin PARK	Esko KAUPPINEN, Yoon-Ho SONG	Anthony WICKHAM, Dong Gun SHIN
13:10-13:30	(13:10-13:50) (KLT1-02) Soft Matter Behavior and Biological Interactions of Graphene Materials	[ORT3-16] Mechanism of Microwave Exfoliation of Graphite Intercalation Compounds Hye-Rim KIM (POSTECH, Korea)	(13:10-13:40) ILIT6-04] Design and Preparation of High Energy Density Polymer-based Composites Yuan-Hua LIN (Tsinghua University, China)	[ORTS-20] Temperature-swing Adsorption Process Coupled to a Heat Pump for Enhanced Performances Sylvain GIRAUDET (Ecole Nationale Superieure de Chimie de Rennes, France)	(13:10-13:40) [ILT2-06] CNTs and Graphene for Field Emission Applications William (Bill) MILNE (University of Cambridge, UK)	(13:10-13:50) [KLT4-01] The Nuclear Graphite Lifecycle: Planning for Disposal
13:30-13:50	Materials Robert HURT (Brown University, USA) (13:50-14:20)	[ORT3-17] Simulation on Methane Pyrolysis during the densification of Carbon/carbon Composites by Chemical Vapor Infiltration Chunxia HU (Northwestern Polytechnical University, China)	(13:40-14:10) (ILT6-05) Factors Influencing High Electric Double Layer Capacitance of BCN Material Synthesized from Melamine Reais	[ORT5-21] Improvement of Ethanol Adsorptivity of Activated Carbons for Adsorption Heat Pump Jin MYAWAKI (Kyushu Univserity, Japan)	(13:40-14:10) [ILT2-07] Field Emission from Nanocarbon Materials and Their Applications to Electron Beam Devices	Anthony WICKHAM (The University of Manchester, UK)
13:50-14:10	(13:30-14:20) [ILT1-04] Covalent and Non-covalent Functionalization of Graphene by Dippen Nanolithography Aravind VIJAYARAGHAVAN (The University of Manchester, UK)	[ORT3-18] Wettability Enhancement of Nanocarbon Reinforced Aluminum Cast Composites Byung Mun JUNG (Korea Institute of Materials Science, Korea)	Masahiro TOYODA (Olta University, Japan)	[ORT5-22] Sustainable Carbon Materials from Hydrothermal Processes Magdalena TITIRICI (Queen Mary University of London, UK)	Yahachi SAITO (Nagoya University, Japan)	[ORT4-04] A Pertinent Carboxygasification Process for Nuclea Graphite Waste Decontamination Justin PAGEOT (Andra, France)
14:10-14:30	(14:20-14:40) [ORT1-19] Graphene Oxide- impregnated PLGA/Collagen Nanofiber Matrices Beneficial to Growth of Vascular Smooth Muscle Cells Yong Check SHIN (Pusan National University, Korea)	(ORT3-19) Effect of Carbon Nanotube Reinforced Interface on Joining Property of Cir Composites and LAS Glass Ceramics Qian-Gang FU (Northwestern Polytechnical University, China)	[ORT6-20] Electric Double Layer Capacitor Using Densified Seamless Activated Carbon Electrode Soshi SHIRAISHI (Gunma University, Japan)	[ORTS-23] Formation of Hybrid Materials based on calcium Phosphate Deposit on Carbon Fiber Scatfold Sylvie BONNAMY (CNRS, France)		[ORT4-05] Oxidation of Nickel- impregnated Graphites Frederique BOURLET (CNRS, France)
14:30-14:50	(14:40-15:00) (ORT1-20) Two-dimensional Soft Material: New Faces of Graphene Oxide Jaernyung Kim (University of California, USA)	[ORT3-20] Thermal Stability of Cu- CNTs Powder for High Thermal Conductivity Al Matrix Composites Processing Alberto MIRANDA (Brunel University London, UK)	[ORT6-21] Synthesis and Capacitive Characterization of Graphene/CoNiAl Three-component Layered Double Hydroxide Platelets Julien DANGBEGNON (University of Pretoria, South Africa)	[ORT5-24] The Effect of Morphologies of Carbon Nanotubes on Membrane Distillation Process as Bucky Paper Membranes Jung hoon LEE (Korea University, Korea)	[ORT2-10] A investigation of LINAC with Carbon Nanotube pasted Electron gun Dongwon SHIN (Korea Electrotechnology Research Institute, Korea)	(ORT4-06) Thermophysical Properties Investigation of the Artificial Graphite in the Temperature Range 23-1650k Evgenij ZHMURIKOV (BINP, Russia)
14:50-15:10			Break	(20 min)		
Room	HALLA A	HALLA B	SAMDA	303	401	402
Session Chair	TI: Graphene Kian Ping LOH, Aravind VIJAYARAGHAVAN	T3: Precursors, Carbon Fibers, and Composites Yuan-Hua LIN, Euigyung JEONG	T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving Teresa BANDOSZ, Sung Young LEE	TS: Porous Carbons, Carbons for Health and Environmental Protection Rocio JIMÉNEZ CARMONA, Ji Sun IM	T2: CNTs and Related Carbon Nanomaterials Yahachi SAITO, Kyu Chang PARK	TI: Graphene Marc MONTHIOUX, Jong-Beom BAEK
15:10-15:30	(15:10-15:40) [Letronic Structure of Graphene Nanostructures; Interplay of Geometry and Chemistry of Graphene Edges Toshiaki ENON (Tokyo Institute of Technology, Japan Science and Technology Agency (JST), Japan)	[ORT3-21] The Effect of Nanostructure upon the Mechanical Properties of Carbon Fibres Furnhiliko TANAKA (Toray Industries, Inc., Japan)	[ORT6-22] Photo Catalytic Properties of Carbonaceous Material Containing Nitrogen and its Mechanism Masayuki KAWAGUCHI (Osaka Electro-Communication University, Japan)	[ORT5-25] Photochemical Activity of Nanoporous Carbons under Visible Light Conchi O. ANIA (Instituto Nacional del Carbón (INCAR, CSIC), Spain)	(15:10-15:40) (ILT2-08) Carbon Nanotube Field Emitter-based Digital X-ray Tubes Yoon-Ho SOMG (Electronics and Telecommunications Research institute, Korea)	[ORT1-24] Intrinsic Diamagnetism and Defect & Impurity Paramagnetism of Carbon Nanostructures Alexander PANICH (Ben-Gurion University of the Negev, Israel)
15:30-15:50	(15:40-16:00) [ORT1-21] Bilayer Graphene under Biaxial Strain Investigated by High Pressure Raman Spectroscopy Alfonso SAN-MIGUEL (University of Lyon, France)	[ORT3-22] Tensile Strength Distribution of Carbon Fibres at Very Short Effective Length Haruki OKUDA (University of Manchester, UK)	[ORT6-23] Visible Light Driven Photoelectrochemical Water Splitting on Metal Free Nanoporous Carbon Promoted by Chromophoric Functional Groups Teress BANDOSZ (CCNY/CUNY, USA)	[ORT5-26] A Glance at the Photoelectrochemical Response of Hybrid Carbon/semiconductor Electrodes Alicia GOMIS-BERENGUER (Instituto Nacional del Carbón (INCAR, CSIC), Spain)	(15:40-16:00) (ORT2-11] Point-typed Field Emitter Using Carbon Nanotubes on a Graphite Rod Yuning SUN (Korea University, Korea)	(ORT1-25) Optimization of Graphite Delamination in Stirred Media Milis Thomas NACKEN (University of Erlangen-Nuremberg, Germany)
15:50-16:10	(16:00-16:20) [ORT1-22] Enhanced Field Emission from Graphene Foam treated by H2 Pilsama Etching Shuyl DING (Southeast University, China)	(ORT3-23) Superior Thermal Conductivity of High Loading MWCNT Based Epoxy Composites by a Novel Processing Technique Ravi GUPTA (CSIR-National Physical Laboratory, India)	(ORT6-24) Broadband Absorbing Polyporphyrin Membrane as Singlet Oxygen Photosensilizers for Photosoidation Wenting WU (China University of Petroleum, China)	[ORT5-27] Carbon Additives for an Enhanced Visible Light Activity of BIW/TI-based Semiconductors Rocio JIME/IEZ CARIMONA (Instituto Nacional del Carbón (INCAR-CSIC), Spain)	(16:00-16:20) [ORT2-12] Gratting of Fluorescent Molecules on Double-walled Carbon Nanotubes Tifania BORTOLAMIOL (CNRS, France)	[ORT1-26] Graphene-derived High Surface Area Carbon: Precise Control over Sheet Assembly and Packing Density Ying TAO (Tianjin University, China)
16:10-16:30	(16:20-16:40) [ORT1-23] Effects of Reduction Process on the Microstructures and Thermal Conductivity of Graphene Oxide Films Xiangying ZENG (Shanghai Institute of Technology, China)	[ORT3-24] Effect of Compatibilizers on Long Carbon Fiber Reinforced Thermoplastic Composites Sungwon MA (Lotte Chemical, Korea)	(ORT6-25] Electrosorption on Carbon for Enhanced Aqueous Supercapacitors Kryzsztof FIC (Poznan University of Technology, Poland)	[CRT5-28] Preparation of CNTs- embedded TiO2 Hollow Nanofibers and Their Photocatalytic Properties Jin-Young JUNG (Chungnam National University, Korea)	(16:20-16:40) (ORT2-13) Nanocarbons as Objects with Quantum Localization Wojciech KEMPINSKI (Institute of Molecular Physics Polish Academy of Sciences, Poland)	[ORT1-27] Polyvinyl Alcohol Reinforces and Toughened with Poly(dopamine)- treated Grapheme Oxide Sang-Ha HWANG (Ulsan National Institute of Science and Technology (UNIST), Korea)
16:30-17:30	5F, FOYER		Poster Session 1			
19:00-21:00	SAMDA		Panel Discussion			
18.00-21:00		What Could be Major Techn		ergy Application or Thermal Managemen	t using Graphene?	

Date/ Time			July 2	2 (Wed)			
8:00-8:30			Regis	stration			
Room	HALLA A	HALLA B	SAMDA	303	401	402	
Session	TI: Graphene	T2: CNTs and Related Carbon Nanomaterials	T3: Precursors, Carbon Fibers, and Composites	T5: Porous Carbons, Carbons for Health and Environmental Protection	T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving	T7: Analysis, Characterization, Computation and Modelling of Carbons	
Chair	Joycelyn S. HARRISON, Chul-Hong KIM	Jin ZHANG, Woong KIM	Vesna MISKOVIC-STANKOVIC, Kyong Yop RHEE	Joaquín SILVESTRE-ALBERO, Taehoon KIM	Kuei-Hsien CHEN, Sang Won LEE	Joachim METZ, Seho CHO	
8:30-8:50	(8:30-9:00) [ILT1-06] Mass Production of Edge- Selectively Functionalized Graphene Nanoplatelets as Efficient Electrocatalysts Jong-Beom BAEK (Ulsan National Institute of Science and Technology (UNIST), Korea)	(8:30-9:10) [KLT2-02] Measuring Domain Sizes in	(8:30-9:00) [ILT3-05] Dispersion and Properties of Carbon Nanotubes Thermoplastic Polymer Composites Gi Dae CHOI (LG Chem, Korea)	[ORT5-29] Hydroxyapatite Nucleation and Growth Mechanism on Carbon Nanotube/carbon Fiber Hybrid Materials Leilei ZHANG (Northwestern Polytechnical University, China)	(8:30-9:10) [KLT6-01] The Roles of Graphene in Lithium-ion Batteries	[ORT7-18] Catalytic Graphitization of Coal Tar Pitch Anna N. POPOVA (Kemerovo Scientific Centre, Russia)	
8:50-9:10	(9:00-9:20) [ORT1-28] Characterization of Functionalized Graphene-filled Nanocomposites in LEO Space Environment Seung-bo JIN (KARI, Korea)	Graphene-Based Carbons Marc MONTHIOUX (CNRS, France)	(9:00-9:30) [ILT3-06] Electrochemical Biocomposite Graphene/Hydroxyapatite Coatings on Titanium Aimed for Medical	[ORT5-30] Dynamic Adsorption of Pharmaceutical Residues at Trace Concentrations onto Activated Carbon Cloths Sylvain GIRAUDET (Ecole Nationale Superieure de Chimie de Rennes, France)	Hui-Ming CHENG (Institute of Metal Research, the Chinese Academy of Sciences, China)	[ORT7-19] Trace Element Analysis of High Purity Graphite Materials Joachim METZ (Schunk Kohlenstofftechnik GmbH, Germany)	
	(9:20-9:40) [ORT1-29] Nitroxide-Functionalized Graphene Oxide from Graphite Oxide Jose BONILA-CRUZ (Research Center for Advanced Materials (CIMAV-MOTERREY UNIT), Mexico)	(ORT2-14) Influence of the Reactor Temperature Profile on the Catalyst Particle Size Distribution during Carbon Nanotube Production via the "Floating Catalyst" Method Franziska TOMI (University of Erlangen-Nuemberg, Germany)	Applications Vesna MISKOVIC-STANKOVIC	[ORT5-31] Honeycomb Carbon Monoliths from Renewable Materials for Removal of Inflammatory Cytokines from Human Plasma Jakpar JANDOSOV (Institute of Combustion Problems, Kazakhstan)	[ORT6-32] Advanced Hierarchical Nanocarbon/sulfur Composite Cathodes for Lithium/sulfur Batteries with High Capacity Long Cycle Life Qiang ZHANG (Tsinghua Univeristy, China)	[ORT7-20] Research of Graphite Crystal Structure by XRD-Analysis Anna N. POPOVA (Kemerovo Scientific Centre, Russia)	
0.20 0.50	(9:40-10:00) [ORT1-30] Rheology of Polycarbonate/graphene Gels and Graphene Hydrogels Heon Sang LEE (Dong-A University, Korea)	nanomaterials by thermal	[ORT3-25] Preparation and Characterization of Carbon Fiber by Melt Spinning of PAN based Copolymer Precursor Min Hye JUNG (Korea Institute of Carbon Convergence Technology, Korea)	[ORT5-32] Carbon Nanostructures as a Reinforcement for Corneal Stroma Joaquin SILVESTRE-ALBERO (Universidad de Alicante, Spain)	[ORT6-33] High Energy Li-S Batteries from H2S: A Promising Strategy Towards Pollutant Control and Energy Storage System Chen ZHANG (Tianjin University, China)	[ORT7-21] Influence of Structural Properties on Graphite Oxidation Behavior Mouhamad ALI AHMAD (CNRS, France)	
9:50-10:10	(10:00-10:20) [ORT1-31] Preparation and Characterization of Graphene Nanosheets/Alumina Composites Yasemin CELIK (Anadolu University, Turkey)	[ORT2-16] Volumetric Adsorption Study of Purification and Debundling Processes on Single-walled Carbon Nanotube Bundles Sébastien FONTANA (Universite de Lorraine, France)	[ORT3-26] Exergetic Analysis of the Stabilisation and Carbonisation Process in Carbon Fibre Production Andreas DE PALMENAER (Institut fuer Textilitechnik RWTH Aachen University, Germany)	[ORT5-33] Osteocompatibility Evaluation of Carbon Nanomaterial- Containing Nanofibrous Scaffolds Qing CAI (Beijing University of Chemical Technology, China)	[ORT6-34] In-plane Ordering of Li Species in the Interlayer of the Turbostratic Carbon Anode Material for a High-power and Long- life Li Ion Battery Hiroyuki FUJIMOTO (Osaka Gas Co., Ltd., Japan)	[ORT7-22] Relationships between Immersion Density and XRD Parameters during the Graphitization of Cokes Kunio TAGUCHI (Toyo Tanso Co., Ltd., Japan)	
10:10-10:30	(10:20-10:40) [ORT1-32] Mesoporous Carbon Materials with "Core-shell" Structure Templated by Natural Tubular Halloyiste Xiu Yun CHUAN (Peking University, China)	[ORT2-17] Enhanced X-ray Absorption Property of Au-doped Double Wall Carbon Nanotubes Fitri KHOERUNNISA (UPI, Indonesia)	[ORT3-27] Microdomain-graphitized Polyacrylonitrile-based Carbon Nanofibers for Removal of NO at Room Temperature Zeyu GUO (Tsinghua University, China)	[ORT5-34] Nanoporous Colloidal Carbon Spheres for Energy Applications Jian LIU (Curtin University, Australia)	[ORT6-35] A Study of Electrical Double-Layer Characteristic of activated Carbon Electrode In Spiro-(1, 1)-bipyrrolidinium Tetrafluoroborate Electrolyte Xuewen YU (Tianjin Polytechnic University, China)	[ORT7-23] X-ray Scattering and Computational Study of the Structural Evolution of Polyacrylonitrile Precursor Fibers during the Spinning Process Kunsil LEE (Seoul National University, Korea)	
10:30-10:50			Break	(20 min)			
10:50-11:40	[Room: TAMNA A]			[PL03] Engineered Nanocarbon Mater AYAN (Rice University, USA)	ials		
11:40-12:50			Lu	inch 0-12:50)			
13:00-18:00			"SEONGSAN	ursion Sunrise Peak")-18:00)			

Date/ Time 8:00-8:30			July 3 (The Registratio			
Room	HALLA A	HALLA B	SAMDA	303	401	462 T3: Precursors, Carbon Fibers,
Session	TI: Graphene	T2: CNTs and Related Carbon Nanomaterials	T3: Precursors, Carbon Fibers, and Composites	T5: Porous Carbons, Carbons for Health and Environmental Protection	T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving	and Composites [NC-Symposium]
Chair	Jaemyung KIM, Wan Sik HWANG	Jonathan N. COLEMAN, Cheol PARK	Hiroaki HATORI, Jin Woo Yi	Indrek KULAOTS, Seck KIM	Kun'ichi MIYAZAWA, Tae-Sung BAE	Gi Dae CHOI
8:30-8:50	(8:30-9:00) IILT1-07) Graphene Flakes and Graphene Quantum Dots and their Possible Applications Hydyoung LEE (Sungkyunkwan University, Korea)	(8:30-9:00) (B.172-09) Graphene Silver Bullet or Soap Bubble: Chances, Risks and Potential Applications of this New Material Class Inica KOLARIC (Fraunhofer IPA, Germany)	(8:30-9:10) [K.T3-02] Status and Prospect of Carbon Nanomaterials Filed Nanocomposites Soon Hyung HOM (Korea Advanced	[ORT5-35] Activated Carbons from Blomass and Coal Treatment Products as Catalysts for Methanol Decomposition Mehimet Ferhat YARDIM (Istanbul Technical University, Turkey)	(8:30-9:00) [ILT6:06] Flootible/stretchable Electrochemical Capacitors based on Carbon Nanotubes Woong KIM (Korea University, Korea)	(8:30-9:00) [ILNC-01] Research on the Carbon/carbon Composites Rainforced by Carbon Nanotube Hejun Li (Northwestern Polytechnical University, China)
8:50-9:10	(9:00-9:20) (ORT1-33) Characteristic of Graphene Fleid Effect Transistor with Ferroelectric Gate Dielectric Somyeong SHIN (Sejong University, Korea)	(9:00-9:20) (ORT2-18) Sulfurlactivated Carbon Nanotube Composite for Lithium-sulfur Secondary Batteries Josh HAN (Korea Institute of Caramic Engineering & Technology, Korea)	Institute of Science and Technology, Korea)	[ORT5-36] Carbon Foam Production from Bio-pitch Murat Kill C (Anadolu University, Turkey)	(0:00-9:30) [ILT6-07] Synthesis, Structure, Properties	(9:00-9:20) [ORNO-01] Strengthening Mechanism for Carbon Nanotube/Al Composites Seung I. CHA (Korea Electrotechnology Research Institute, Korea)
9:10-9:30	(9-20-9:40) (ORT1-34) The Modulation of Graphene Work Function by the Control of Over- layer Oxide Property Tae Kmang KIM (Sejong University, Korea)	(9:20-9:40) (ORT2-19) Effect of MWCNTs on Mechanical Response of Filament Wound CFRP Cylinders Jimming 2HU (Beijing University of Chemical Technology, China)	(ORT3-28) Microstructures and Compressive Properties of Carbon/Carbon Composities Reinfocted by In-dist Grown Microscopies Microscopies Kozhi Li (Northwestern Polytechnical University, China)	(ORTS-37) Carbon-Coated Alumina Films with Parallel Nanochannels as Enzymatic Bio-electrodes Alberto CASTRO-MUNIZ (Tohoku University, Japan)	jul 16-U7 Joynnesse, structure, Propertees and Application of Fullerene Nanowhiskers Kurrichi MIYAZAWA (NIMAS- Japan)	(9:20-9:40) (ORNC-02) Preparation of Functional Composite Materials Based on Chemically Derived Graphane O OR PARK (Korea Advanced Institute of Science and Technology, Korea)
9:30-9:50	(9:40-10:00) (ORT1-35) Graphene/MoS2 Junction Property Hyewon DU (Sejong University, Korea)	(9:40-10:00) [ORT2-20] Manufacturing Carbon Nanotube Reinforced Composite using Super Aligned CNT Sheat Sockyoung MOON (Japan Aerospace Exploration Agency, Japan)	(ORT3-29) Internal Friction Behavior of a Unidirectional Carbon/carbon Composite with Different Cyclic Loading Studied in High Temperature Jing CHENG (Northwestern Polytechnical University, China)	(ORTS-38) Biofuels, Chemicals and Catalysts from Biomass via Hydrothermal Carbonization Filodis PILEIDIS (Queen Mary University of London, UK)	[ORT6-36] The Carbon/halide Interface in Supercapacitors Ethicles FRACKOWAK (Poznan University of Technology, Poland)	(9:40-10:00) (IORNC-03) Manipulation of Therma and Electrical Conductivity of Polymer Composites by Addition of Inorganic Filters Namil KIM (Korea Automotive Technology Institute, Korea)
9:50-10:10	(10:00-10:20) (ORT1-36) Self-aligned Fabrication of Graphene Transistors with Photo- patternable lon-gel Gate Delectric on Plastic Substrate Socurig-40 LEE (Yonsel University, Korea)	(10:00-10:20) (ORT2-21) Functionalization of Carbon Nanotubes (CNTs) by Atomic Layer Deposition (ALD) in a Fluidized Bed Reactor (FBR) Adelenes SCHMITT (Friedrich-Alexander- University of Erlangen-Auremberg, Germany)	(ORT3-31) Controllability of Emission Wavelength of Emissive Molecule Separated from Coal Tar Pitch Takeshi FUKUDA (Saltama University, Japan)	(ORT5-39) Biomass-derived Fluorescent Carbon Quantum Dots as Solar Cell Sensitizers Adam MARINOVIC (Queen Mary University of London, UK)	(ORT6-37) Na Insertion into the MgO- templated Carbon for Pseudocapacitance Yuga KADO (Masional Institute of Advanced Industrial Science and Technology, Japan)	(10:00-10:30) [ILNC-02] Hybrid Composites Materials for Automotive Applications Today Solutions and Future Challenges
10:10-10:30	(10:20-10:40) (ORT1-37) Fabrication of Flexible and Transparent Grapehne FET with h-BN Gate Dielectric Daesung JUNIG (Sungkyunkwan University, Korea)	(10:20-10:40) [ORT2-22] Li-ion Battery Electrode Property of Functional Molecules Encapsulated in Single-walled Carbon Nanotubes Shinji KAWASAKI (Nagoya Institute of Technology, Japan)		[ORTS-40] Explosive Mode of Graphite Oxide Thermal Extollation and its Implication for Surface Area Development Indirek KULAOTS (Brown University, USA)	[ORT6-38] A Tubular Mesoporous Carbon Cathode and its SnO2 Encapsulated Hybrid Anode for High Energy Density Non-squeous Lithium Ion Capacitor Wen-Hui OU (Dallan University of Technology, China)	Future Challenges Jean-Paul MOULIN (Plastic Omnium, France)
10:30-10:50	[Room: TAMNA A]	(Chair: Soon Hyung HONG) Heul Jae PAHK (Offi	Break (20 m [PL04] Korean R&D Strategic ce of Strategic R&D Planning, Ministry of Tra	s for Carbon Industries de, Industry and Energy, Korea)		
11:40-13:10 Room	HALLA A	HALLA B	Lunch (11:40-13:1 SAMDA	303	401	402
Session	TI: Graphene Hui-Ming CHENG, Chang Gu LEE	T2: CNTs and Related Carbon Nanomaterials Ivica KOLARIC, Myung Jong KIM	T3: Precursors, Carbon Fibers, and Composites Bin DING, Seong-Ho YOON	TS: Porous Carbons, Carbons for Health and Environmental Protection Juan M. D. TASCON, Young-Pyo JEON	T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving Jason Jieshan QIU, Jong-Sung YU	KIMS Academy Laboratory - G8L Joint Workshop on Organic & Carbon based Nanomaterials for Smart Applications Wonoh LEE
13:10-13:30	(13:10-13:40) [ILT1-08] Graphene for Electrochemical Energy Storage Bor JAHG (Angstron Inlaterials, Inc., USA)	(13:10-13:40) [ILT2-10] Recent Progress on Carbon Nanotube/Polymer Composite Young Sil LEE (Chell Industries INC., Korea)	(13:10-13:40) [ILT3-07] Pitch based Carbon Filter for Car Body Application Seorg-Ho YOON (Kyushu University, Japan)	(13:10-13:40) IILTS-01] Introduction of Ordered Macropores into Carbon Gels and Controlling the Structure of the Established Hierarchical Pree System o Micro-meso-macropores Shin MUKAI (Hokkaido University, Japan)	(13:10-13:40) (ILT-6-08) Storago Devices Wlas G. POL (Purdue University, USA)	(13:10-13:40) (CRIKM-01) Use of Interfacial Assembly for Constructing Nanomaterials into 2D and 3D Macrostructures Franklin KMI (Institute for Integrated Col-Anterials Sciences (VPP-I-CoMS), Kyoto University, Japan)
13:30-13:50 13:50-14:10	13:40-14:00) GRT1-38 [Sent of Surface Area of Section Surface Area of Section Area of Section Area of Section Surface Area of Surface	(13-40-14-10) (IE-T2-11) BLC/NE Nanotubes: Synthesis and Applications Cincel PARK (PASA Langley Research Center. LTBA)	(13-40-14-19) IB. Ta-08] Prelibe Carbon Nanofibers: Controllable Flashication and Hierarchical Porsus Structure Bin Ding (Donghua University, China)	(13.46-14-10) ILI.Te-02) Brancale Micro-mesoporous Carbons Prepaid by Nanocasting Jan M. D. TASCON (Instituto Nacional del Carbón, CSIC, Spain)	(15.40-14-10) Jia. Te-03 (Inphaphene Oxides and its. Hydrids as Photocashys for Solar Fusis Kasel-Alesen CHEN (Internal Tailwan Liveversity, Tailwan)	(13:40-14:10) (DRKM-02) Hierarchically (DRKM-02) Hierarchically (DRKM-02) Hierarchically (Graphine Nanothesis: From Emergy to Biomedical Applications Byeong Sut RIM (Utan National institute of Science and Technology, Korea)
14:10-14:30	(14:20-14:40) (14:20-14:40) (ORT1-40) The Effect of Electrolytes on Supercapacitive Electrochemical Behavior of Chemically Derived Graphene Chengy Meng CHEN (Institute of Coal Chemistry, Chinese Academy of Sciences, China)	(ORT2-23) Determination of Sorbert Characteristics Produced from Pibrous Carbons by Adsorption Methods (Fin Bong HAME) (Lomanosov Mascow State University of Fine Chemical Technologies, Russie)	(ORT3-32) Bio - based Tailored Precursors for Advanced Carbons and Applications Harner WIMEER (VIT Technical Research Centre of Finland, Finland)	(ORT5-41) Development of Setup and thus Determination of Igrition Temperature of Granular activated Carbon according to ASTM Guidelines Amplet ARADO (Palestan Institute of Engineering & Applied Sciences, Pakistan)	[ORT6-38] TGA/FT-IR/MS Analysis and Product Characterization of Biomass, Coal and Polymer Pyrolysis Garmzenur OZSIN (Anadolu University, Turkey)	(14:10-14:40) (ORXM-03) kanoscopically Engineered Organic Sensiconducting Materials for High- Performance Sensors Joon Hall OH (Pohang University of Science and Technology, Korea)
14:30-14:50	(ORT1-41) Interfacial Adhesion and Diffusion Barrier Characteristics of Synthesized Graphene Teachik YOON (Korea Advanced Institute of Science and Technology (KAIST), Korea)	(ORT2-24) Correlation between Characteristics of MWCNTs and Degree of Length Reduction during Injection Molding Process Jan Young OH (Seoul National University, Korea)	(ORT3-33) Getting Hydrophobic Sand based on Soot Meruyet NAZHEYKZY (Institute of Combustion Problems, Kazakhstan)	(ORT5-42) inhibition Effect of Carbon Nano-test-tubes on Amyloid Fibrillation Yasuto HOSHRAWA (Tohoku University, Japan)	(DRT6-40) Design of Nitrogen-doped Porous Carbon Nanofibers and the Effect of their Textural Properties on Oxygen Reduction Performance Jung-Sung YU (Korea University, Korea)	(14:40-15:10) (CRKM-04) A Textile Carbon Platform for Electronic Skin: Stretchable Capacitive Tactile Sensors with Highly Conductive CNT Fibers Do Hwan KIM (Soongal)
14:50-15:10 Room	HALLA A	HALLA B	Break (20 min)	303	401	University, Korea)
Session Chair	TI: Graphene Bor JANG, Zonghoon LEE	T2: CNTs and Related Carbon Nanomaterials Mauricio TERRONES, Cheel Jin LEE		TS: Porous Carbons, Carbons for Health and Environmental Protection Nidia GALLEGO, Hee-Suk CHUNG	T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving Naokatsu KANNARI, Joonlyung BYUN	(15:10-15:40) (ORKM-05) Site-selective Functionalization of Graphene
15:10-15:30	(ORT1-42) Ultrathin Graphite Films with Parallel and Perpendicular Orientation o Carbon Layers from BBL Polymer Yasushi SON/EDA (National Institute of Advanced Industrial Science and Technology (AIST), Japan)	[ORT2-25] In Situ Monitoring of Multiscale Hybrid Composite Manufacturing Using Percolated Carbon Nanotube Networks Joel Renaud GNIDAKOUONG NGOUANOM (UNIST, Korea)		[ORT5-43] Nano-porous Phenolic Resin with Excellent Thermal Insulation Property and high Compressive Strengt Xiaopeng WANG (Institute of Chemistry Chinese Academy of Sciences, China)	[ORT6-41] Oxygen Reduction Activities of Ammonia-Treated Fullerene Soots Nackatsu KANNARI (Gunma University, Japan)	Oxide Sheets for Graphene Hybrid Materials Jea Uk LEE (Korea Institute of Materials Science (KIMS), Korea)
15:30-15:50	(ORT1-43) Graphene-ZnO-Au Nanocomposities for Rapid Photocatalytic Degradation of Nitrobenzene Prathik ROY (National Taiwan University, Taiwan)	(ORT2-26) Next to 100% Optical Absorption of Carbon Nanowalls Stanislate VLIASHIN (M.V. Lamonosov Moscow State University, Russia)		(ORTS-44) Properties of Hydrogen Confined in Nanopores of Activated Carbon Nidla GALLEGO (Oak Ridge National Laboratory, USA)	[ORT6-42] Oxidized Carbon Nanotubes as Metal-free Catalytic Platforms for Oxygen Reduction Reaction Kuang-Hau WU (The University of Queensland, Australia)	Break (15:40-16:00)
15:50-16:10	ORT1-44] Synthesis of Multi-scale Reinforcement Fabric by Electrophoretic Deposition of Graphene Oxide onto Carbon Fabric Layers Progge HE (Central South University, China)	[ORT2-27] Graphitzation of Amorphous Carbon Fowder by Microwaves Teason RM (POSTEH, Rores)		[ORTG-45] A new Method to Increase the Mesopone Volume of Cathon MicroInneycombs Obtained through the toc Templating Model Using Destran Shinichinch IMAMLIFA (Holdwards University, Japan)	[DRT6-43] A Graphene-Carbon Nannobbe Hybrid sat he High Performance All- Carbon Oxygen Reduction Catallyst Wei WEI (Tarylin University, China)	Planning Strategy and Research Activity on Development of Carb in Korea" (Chair: Chul Wee LEE, Young- Pro JEON) (16:00-16:30) (DRKR-01) Planning Strategy on "Development of Carbon Materials for IT based on Puison Convergence Technology" De-Chang Oft, (Division of New Growth Industry, Gyeongsangbul- Do, Korea)
16:10-16:30	[ORT1-45] Preparation and Characterization of Cross-linked Graphene-based Film with Improved Gas Barrier Performance Haesof JUNG (Secul National University, Korea)	(ORT2-28) Development of Multi-functional Glass Fibres Using Carbon-based Nanocomposite Coating Pang-Cheng MA (The Xinjiang Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, China)		(ORT5-46) Dynamic Quantum Separation of Methane Isotopes with Porous Carbons Katsumi KANEKO (Shinshu University, Japan)	[ORT6-44] Structures and Oxygen Reduction Activities of Graphene Oxide Hybrid Catalyst Takuya MAIE (Gunma University, Japan)	(16:30-17:00) [ORKR-02] Research Activity on " Development of Carbon Materials from Low Grade Petroleum Resources" Child Wee Lee (C-Industry Incubation Center, Division of Green Chamistry and Engineering, KRICT, Kornes
16:30-17:30	TAMNA A		Poster Session 2 16:30-17:30			(17:00-17:30) (ORKR-03) The Carbon Valley Project 'Make a Powerful Nation Worldwide for Carbon Materials' Kay-Hyenk AM (Korea Institute of Carbon Convergence Technology (KCTECH), Korea)
17:30-18:00 18:00-20:00	TAMNA B		Break (30 min) Banquet (18:00-20:00)			'

			July	4 (Fri)		
8:00-8:30			Ţ	stration		
Room	HALLA A T2: CNTs and Related Carbon Nanomaterials	T5: Porous Carbons, Carbons for Health and Environmental Protection	SAMDA T5: Porous Carbons, Carbons for Health and Environmental Protection	303 T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for	401 T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for	T7: Analysis, Characterization, Computation and Modelling of Carbons
Chair	Yutaka OHNO, Kun-Hong LEE	Krisztina LÁSZLÓ, Yong Joong KIM	Yukie SAITO, Jae Uk LEE	Energy Saving Oswin OETTINGER, Jae-Sung ROH	Energy Saving Huaihe SONG, Sang Eun SHIM	Noriko YOSHIZAWA, Seok KIM
8:30-8:50	(8:30-9:00)	(8:30-9:00) [ILT5-03] New Carbon Materials for Energy Storage and Environmental Applications Joaquin SILVESTRE-ALBERO (Universidad de Alicante, Spain)	(ORTS-56) Air Purifying Effect of Activated Carbon Fiber Wind-Through Fence in Beijing, China and Osaka, Japan Masaaki YOSHIKAWA (Osaka Gas co., Itd., Japan)	(8:30-9:00) ILTG-10 Graphite – The Anode Material for Lithium Ion Batteries: Some Industrial Perspectives Oswin OETTINGER (SCL Group - The Carbon Company, Germany)	(DRT6-56) Facile Hydrothermal Synthesis of Graphene Aerogel/cobalt Oxides Nanocomposites with Exceptional Lithium Storage Propertie Mohammad AKBARI GARAKANI (The Hong Kong University of Science and Technology (HKUST). Hong Kong)	(ORT7-24) Effects of Surface Heterogeneity on Adsorption of Carbon Dioxide and Methane in Activated Carbon Arichat WONGKOBLAP (Suranaree University of Technology, Thailand)
8:50-9:10	(ill T2-12) From CVD Synthesis to CNT Yams Ya-Li Li (Tianjin University, China)	(9:00-9:30) [ILT5-04] Production and Characterization of Lignin-based	[ORT5-57] Production and Characterization of activated Carbon from Microwave assisted Chemical Activation and its Dye Adsorption Properties Ozge CEPELIOGULLAR (Istanbul Technical University, Turkey)	(9:00-9:20) [IORT6-45] Enhanced Electro- oxidation/corrosion Resistance of Carbon Electrodes induced by Phosphorous-containing Surface Groups Raul BERENGUER (University of Malaga, Spain)	[ORT6-57] A Simple Approach to Porous Graphene Nanosheets Containing Fullerene-like Nano-holes with Favorable High-rate Li-storage Performance Huaihe SONG (Beijing University of Chemical Technology, China)	[ORT7-25] Identifying the Underlying Mechanisms of Water Adsorption Hysteresis in Carbon Micropores by Scanning Isotherms Leticia VELASCO (Royal Military Academy, Belgium)
9:10-9:30	(9:00-9:20) [(9:00-9:20)] [(9:	Activated Carbon Fibers Nidia GALLEGO (Oak Ridge National Laboratory, USA)	[ORT5-58] Hierarchical Composites of Phenol derived activated Carbon as Effective and Scalable Filters for the Removal of Trace Organic Micropollutants from Water Sergey MIKHAL OVSKY (Nazarbayev University, Kazakhstan)	(9:20-9:40) [ORT6-46] Binder and Current collector free, thick freestanding graphene film a Anode Materials for Lithium-ion Battery Kuldeep RANA (Yonsei University, Korea)	Electric-Thermal Energy Conversion	(ORT7-26) Perpendicular/Parallel Orientation of Layers Formed in the Carbonization Process of Self- Supported Ultrathin Films from BBL Polymer Noriko YOSHIZAWA (National Institute of Advanced Industrial Science and
9:30-9:50	(9:20-9:40) [IQRT2-30] Mass Production of Continuous Single Wall Carbon Manotube/PVA Composite Fiber Gengheng ZHOU (Korea Institute of Materials Science, Korea)	[ORT5-47] Nitrogen Containing Carbon Aerogels based on Resorcinol – Melamine – Formaldehyde Hydrogels Krisztina LASZL O (Budapest University of Technology and Economics, Hungary)	[ORT5-59] High Selective Adsorption of Dibenzothiophene over Ordered Mesoporous Cu(II)(Carbon-silica Nancomposites Jieling CHENG (Shanghai Institute of Technology, China)	(0:40-10:00) [ORT6-47] Rational Design and Optimization of Porous Carbon Nanofibers for High-performance Rechargeable Lithium-Suffur Batteries Xiang-Qian ZHANG (Dalian University of Technology, China)	[ORT6-59] Diaminohexane-assisted Preparation of Coral-like, Poly(benzoxazine)-based Porous Carbons for Electrochemical Energy Storage Shuai WANG (Dalian University of Technology, China)	[ORT7-27] Defective Regions and not Orientation of Crystallities to Explain the In-plane Physical Properties of Anisotropic Carbons with High Cohesion of Crystallites Francisco EMMERICH (Federal University of Espirito Santo, Brazil)
9:50-10:10	(9:40-10:00) [ORT2-31] Effect of Polymer Infiltration on Structure and Properties of Carbon Nanotube Yarns Yeonsu JUNG (Seoul National University, Korea)	[ORT5-48] Facile Synthesis of Embedded Iron Nanoparticles in Carbide-Derived Carbons Michael MANGARELLA (Georgia Institute of Technology, USA)	[ORT5-60] High Surface Area Charcoal by Selective Pyrolysis of Cellulose of Natural Plant Fiber Yukie SAITO (The University of Tokyo, Japan)	(10:00-10:20) [IORT6-48] Heteratoms Co-doped Mesoporous Carbon Materials for Energy Storage and Conversion: Synthesis and Electrochemical Performance Wen YANG (Beijing Institute of Technology, China)	[ORT6-60] A Hybrid Carbon containing Sandwiched Porous Carbon Sheets and Graphene Sheets as Polysulfide Reservoir for High Performance Lithium-sulfur Batteries Niu SHUZHANG (Tsinghue University, China)	[ORT7-28] Breakthrough behavior of Organic-inorganic Mixtures adsorbed or activated Carbon Filters Linna BEREZOVSKA (Royal Military Academy, Belgium)
0:10-10:30	(10:00~10:20) [ORT2-32] Fabrication of High-strength Carbon Nanotube Fibers Alum JUNG (POSTECH, Korea)	GFEC 2014 Award Talk [ORT5-49] In situ Evolution of the Porous Structure of Expanded Graphite under Uniaxial Pressure Félix BALIMA (University of Lyon, France)	on GAC in a Sustainable Way: Application to the Tetrachloroethylene	(10:20-10:40) [ORT6-49] Electrocatalytic Activity of Nanoshell-Containing Carbons for Hydrogen Evolution Reaction Jun-ichi OZAKI (Gunma University,	[ORT6-61] Preparation of N-containing Carbons from Wool and their Catalytic Activities for Oxygen Reduction Reaction Machiko TAKIGAMI (Gunma	[ORT7-29] Role of Surface Phosphorus Complexes in the Oxidation of Activated Carbons Jose RODRIGUEZ MIRASOL
		, , , , , , , , , , , , , , , , , , , ,	Marianne MIGUET (CNRS, France)	Japan)	University, Japan)	(University of Malaga, Spain)
0:30-10:50		,				(University of Malaga, Spain)
	[Room: TAMNA A]		Break	Japan) (20 min) velopments, Commercializations and App	University, Japan)	(University of Malaga, Spain)
0:50-11:40	[Room: TAMNA A]		Break I Carbon Fiber Composite Materials - De Makoto ENDO (Toray Industries, Inc	Japan) (20 min) velopments, Commercializations and App	University, Japan)	(University of Malaga, Spain)
0:50-11:40	[Room: TAMNA A] HALLA A		Break I Carbon Fiber Composite Materials - De Makoto ENDO (Toray Industries, Inc	Japan) (20 min) velopments, Commercializations and Apr Japan) nch -13:10)	University, Japan)	(University of Malaga, Spain)
0:50-11:40		(Chair: Wilhelm FROHS) [PL05]	Break I Carbon Fiber Composite Materials - De Makoto ENDO (Toray Industries, Inc. Lu (11:40	Japan) (20 min) velopments, Commercializations and Apl , Japan) noth 13:10)	University, Japan)	
10:50-11:40 11:40-13:10 Room	HALLA A	(Chair: Wilhelm FROHS) [PL05] HALLA B T5: Porous Carbons, Carbons for Health	Break I Carbon Fiber Composite Materials - De Makoto ENDO (Toray Industries, Ind- Lu (11:40 SAMDA T5: Porous Carbons, Carbons for Health	Japan) (20 min) velopments, Commercializations and Apl Japan) nch -13:10) 303 T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for	University, Japan) Jolications- 401 Te: Carbons for Sustainable Energy Conversion and Storage, Carbons for	402 T7: Analysis, Characterization, Computation and Modelling of Carbons
0:50-11:40 11:40-13:10 Room Session	HALLA A T2: CNTs and Related Carbon Nanomaterials	(Chair: Wilhelm FROHS) [PL05] HALLA B T5: Porous Carbons, Carbons for Health and Environmental Protection Benoit COASNE, Chang-Ha LEE (ORTS-50) Adsorption of Carbon	Break Carbon Fiber Composite Materials -De Makoto ENDO (Toray Industries, Inc. Lu (11:40 SAMDA T5: Porous Carbons, Carbons for Health and Environmental Protection	Japan) (20 min) velopments, Commercializations and Api Japan) nch -13:10) 303 T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving Pulickel AJAYAN, Jin-bong KIM	University, Japan) 401 T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving	402 T7: Analysis, Characterization, Computation and Modelling of Carbons
10:50-11:40 11:40-13:10 Room Session Chair	HALLA A T2: CNTs and Related Carbon Nanomaterials Ya-Li LI, Young Sil LEE [ORT2-33] Highly Crystalline 1D Crystals of Elemental Chalcogens insid Carbon Nanotubes: A Challenge toward Transformation of Non-metals into Metals Toshiniko FUJIMORI (Shinshu	(Chair: Wilhelm FROHS) [PL05] HALLA B T5: Perous Carbons, Carbons for Health and Environmental Protection Benoit COASNE, Chang-Ha LEE (ORT5-50) Adsorption of Carbon Dioxide, Methane, and their Mixture in Porous Carbons in the Presence of Water	Break I Carbon Fiber Composite Materials - De Makoto ENDO (Toray Industries, Inc. Lu (11:40 SAMDA T5: Porous Carbons, Carbons for Health and Environmental Protection Agata LAMACZ, Young-Seak LEE [ORT5-62] The Catalytic Role of Carbon Nanomaterials Formed via HC Decomposition in Reactions Leading to H2 Production and CO Oxidation Agata LAMACZ (Polish Academy of	Japan) (20 min) velopments, Commercializations and Api , Japan) nch -13:10) T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving Pulickel AJAYAN, Jin-bong KIM (ORT6-50) Microporous Carbon Nanosheets with Precisely Tunable Thickness for Use in High Rate and Long Cycle Life Supercapacitors Jin ZHENYU (Dalian University of	University, Japan) 401 T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving Sergey MIKHALOVSKY, Kyu Soon PARK [ORT6-62] Doping Graphene on Carbon-coated SnO2 Nanoparticles as the Anode of Lithium-ion Battery Cuiliang WU (Crina University of	T7: Analysis, Characterization, Computation and Modelling of Carbons Steven RICHARDSON, Yern Seung KIM (ORT7-30) Correlation between the Chirality and Structural Stability and Solubility Parameters of SWCNTS Kunsil LEE (Secul Mational University,
0:50-11:40 11:40-13:10 Room Session Chair 13:10-13:30	HALLA A T2: CNTs and Related Carbon Nanomaterials Ya-Li Li, Young Sil LEE [ORT2-33] Highly Crystalline 1D Crystals of Elemental Chalcogens insid Carbon Nanothubes: A Challenge toward Transformation of Non-metals into Metals Tostnikis FUJIMORI (Shinshu Uninversity, Japan) [ORT2-34] CVD growth OH-CNTs as Support of Indium-NHC Complexes for Hydrogen Transfer Catalytic Applications Patricia ALVAREZ (Instituto Nacional	(Chair: Wilhelm FROHS) [PL05] HALLA B T5: Porous Carbons, Carbons for Health and Environmental Protestion Benoit COASNE, Chang-Ha LEE (ORT5-50] Adsorption of Carbon Dioxide, Methane, and their Mixture in Porous Carbons in the Presence of Water Benoit COASNE (CNRS / MIT, USA) (ORT5-51] Competitive Adsorption behavior of CO2/CH4 on Dry and Wet Coal at High Pressure Chang-Ha LEF (Yonsei University,	Carbon Fiber Composite Materials - De Makoto ENDO (Toray Industries, Inc. Lu (11:40 SAMDA T5: Porous Carbons, Carbons for Health and Environmental Protection Agata LAMACZ, Young-Seak LEE [ORT5-62] The Catalytic Role of Carbon Nanomaterials Formed via HC Decomposition in Reactions Leading to H2 Production and CO Oxidation Agata LAMACZ (Polish Academy of Sciences, Poland) [ORT5-63] Adsorption of Phenol by Carbon Sorbents based on Chemically Activated Humuc Coal [Inter ISMACUO V (Institute of Coal Chemistry and Material Science, Russia) [ORT5-64] The Effect of Bacterial Toxicity of Diverse Morphologies of	Japan) (20 min) velopments, Commercializations and Api Japan) nch -13:10) 303 T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving Pulickel AJAYAN, Jin-bong KIM (ORT6-50] Microporous Carbon Nanosheets with Precisely Tunable Thickness for Use in High Rate and Long Cycle Life Supercapacitors Jin ZHENYU (Delian University of Technology, China) (IORT6-51] Controlled Synthesis of Porous Carbon-Based Hybrids for Enhanced Cycle Stability of Lithium loateries: Mechanism and Material Properties Fei HAN (Delian University of	University, Japan) 401 T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving Sergey MIKHALOVSKY, Kyu Soon PARK [ORT6-62] Doping Graphene on Carbon-coated SnO2 Nanoparticles as the Anode of Lithium-ion Battery Guillang WU (China University of Petroleum, China) [ORT6-63] Fabrication of Submicron Mseophase Pitch-based Carbon Fibers and Their Application to Lithium Ion Batteries as Conductive Additives Fujico OKINO (Shinshu University.	T7: Analysis, Characterization, Computation and Modelling of Carbons Steven RICHARDSON, Yern Seung KIM (ORT7-30) Correlation between the Chirality and Structural Stability and Solubility Parameters of SWCNTs Kunsil LEE (Seoul National University, Korea) (ORT7-31) Hansen Solubility Parameters of Carbon Nanomaterials a determined by an Inverse Gas Chromatography Method Hyeong Jun LIM (Seoul National
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