

The 4th International Conference on
Recent Progress in Graphene Research
2012

Program

<http://rpgr.iphy.ac.cn/Program.html>

October 3-6th, 2012
Beijing, China

Institute of Physics, Chinese Academy of Sciences

Thursday, Oct. 4th, 2012. Building M, Institute of Physics, CAS

Session 1, Hall #1 Chair: Antonio Castro Neto		
08:30 ~08:50	Opening remark	Hong-jun Gao (Institute of Physics, CAS, China)
08:50 ~09:30 (1-1)	Konstantin Novoselov (University of Manchester, UK) “Heterostructures based on 2D atomic crystals”	
09:30 ~9:55 (1-2)	Hong-jun Gao (Institute of Physics, CAS, China) “Growth and Si-Layer Intercalation of Centimeter-scale, Highly-ordered, Continuous Graphene on Metal Surfaces for Future Integrated Electronic Devices”	
9:55 ~10:20 (1-3)	Masataka Hasegawa (National Institute of Advanced Industrial Science and Technology, Japan) “Low Temperature Graphene Synthesis by Microwave Plasma CVD and Its Roll-to-Roll Production”	
10:20 ~10:40	Conference Photo and Coffee break	
Session 2, Hall #1 Chair: Hu-Jong Lee, Lian-mao Peng		
10:40 ~11:05 (1-4)	Won Jong Yoo (Sungkyunkwan University, Korea) “2-Dimensional Hetero-Structure for Memory Device Application”	
11:05 ~11:30 (1-5)	Minn-Tsong Lin (National Taiwan University, Taiwan) “Spin-dependent transport and interface effect in Carbon-based materials”	
11:30 ~11:55 (1-6)	Mikito Koshino (Tohoku University, Japan) “Unusual Diamagnetic Response of Graphene”	
11:55 ~12:20 (1-7)	Byung Jin Cho (Korea Advanced Institute of Science and Technology, Korea) “Issues on Metal Contact and Gate Electrode of Graphene Based FET”	
12:20 ~13:40	Lunch	

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Session 3, Hall #1	
Chair: Byung Jin Cho, Takahiro Kondo	
13:40 ~14:20 (1-8)	Phaedon Avouris (IBM Watson Research Center, New York, USA) "Graphene Electronics and Photonics"
14:20 ~14:45 (1-9)	Jong-Hyun Ahn (Sungkyunkwan University, Korea) "Graphene for Flexible Energy Devices"
14:45 ~15:10 (1-10)	Xiangfeng Duan (University of California, Los Angeles, USA) "Heterointegration of Graphene with Nano and Molecular Scale Structures"
15:10 ~15:35 (1-11)	Lian-mao Peng (Peking Univ., Beijing) "Batch-fabricated high-performance graphene Hall elements"
15:35 ~16:00 (1-12)	Hee-Tae Jung (Korea Advanced Institute of Science and Technology, Korea) "Direct visualization of large-area graphene domains by optical birefringency"
16:00 ~16:15	Coffee break
Session 4, Hall #1	
Chair: Jong-Hyun Ahn, Minn-Tsong Lin	
16:15 ~16:40 (1-13)	Takahiro Kondo (Tsukuba University, Japan) "STS observation of Landau levels on both potassium-intercalated graphite and nitrogen-doped graphite in the absence of external magnetic field"
16:40 ~17:05 (1-14)	Hongki Min (Seoul National University, Korea) "Electronic Structure Engineering by Stacking Arrangement in Multilayer Graphene"
17:05 ~17:30 (1-15)	Dal-Hee Min (Seoul National University, Korea) "Biosensors and Drug Discovery based on Graphene Derivatives"
17:30 ~17:55 (1-16)	Amanda S. Barnard (CSIRO Materials Science and Engineering, Australia) "Approaches to Modeling Diversity and Imperfection in Graphene Nanostructures"
18:00 ~	Banquet (for invited, the 4 th floor of IoP restaurant)

Friday, Oct. 5th, 2012. Building M, Institute of Physics, CAS

Session 5, Hall #1	
Chair: Philip Kim, Wei Yang	
08:30 ~09:10 (2-1)	Klaus Muellen (Max Planck Institut für Polymerforschung, Mainz, Germany) "Chemical Synthesis and Graphene Research"
09:10 ~09:35 (2-2)	Kian Ping Loh (National University of Singapore, Singapore) "Scanning Tunneling Microscopy study of Edge, Size, Strain-controlled Graphene"
09:35 ~10:00 (2-3)	Hui-ming Cheng (Institute of metals, CAS, Shenyang) "Large Single-Crystal Graphene Grains and 3D Interconnected Graphene Foams by CV"
10:00 ~10:25 (2-4)	Lain-Jong Li (Institute of Atomic and Molecular Sciences, Academia Sinica, Taiwan) "Growth of 2D Layered Materials by Chemical Vapor Deposition"
10:25 ~10:40	Coffee break
Session 6, Hall #1	
Chair: Xiangfeng Duan, Xin-ran Wang	
10:40 ~11:05 (2-5)	Toshiaki Enoki (Tokyo Institute of Technology, Japan) "Edge Geometry and Electronic Structure of Graphene Nanostructures"
11:05 ~11:30 (2-6)	Wei Yang (Zhejiang University, China) "Nanomechanics of Graphene"
11:30 ~11:55 (2-7)	Young-Woo Son (Korea Institute for Advanced Study, Korea) "Physical properties of graphene systems under mechanical perturbations"
11:55 ~12:20 (2-8)	Barbaros Oezylmaz (National University of Singapore, Singapore) "Charge, Spin and Phonon Transport in CVD graphene"
12:20 ~13:40	Lunch

Friday, Oct. 5th, 2012. Building M, Institute of Physics, CAS

Session 7, Hall #1			
Chair: Allan MacDonald, Wan-lin Guo			
13:40 ~14:20 (2-9)	Antonio Castro Neto (National Univ. of Singapore, Singapore) "Exciting opportunities in graphene research"		
14:20 ~14:45 (2-10)	Hu-Jong Lee (Pohang University of Science and Technology (POSTECH), Korea) "Gate-Tuning to Quantum States in Graphene-based Josephson Junctions"		
14:45 ~15:10 (2-11)	Qian Niu (Univ. Texas at Austin, USA /Peking Univ., Beijing) "Engineering topological states in graphene systems"		
15:10 ~15:35 (2-12)	Chi Huynh (CSIRO Materials Science and Engineering, Australia) "Novel Methods for Graphene Capture Using Nano-webs as Membranes for Easy Transfer"		
15:35 ~16:00 (2-13)	Yong-sheng Chen (Naikai University, Tianjin) "3D Graphene based bulk materials"		
16:00 ~16:15	Coffee break		
	Session 8: Hall #1		Session 9: Poster 1st floor
	Chair: Ting Yu, Guangyu Zhang		
16:15 ~16:40 (2-14)	Jinlan Wang (Southeast Univ., Nanjing) " Making atomically well-controlled graphene nanoribbons by unzipping of carbon nanotubes and graphene"		<i>Please refer to the list of poster Abstract and find the order number of your poster, then display your poster on the corresponding board.</i>
16:40 ~17:00 (2-15)	Artem Shelaev (NT-MDT company) " AFM-Raman and Tip Enhanced Raman studies of graphene carbon nanostructures"		
17:00 ~17:20 (2-16)	Shawn Lee (WITec GmbH) "Confocal Raman Imaging of Graphene and Carbon Materials"		
17:20~17:40 (2-17)	Thomas Koenig (SPECS company) "Using SPECS KolibriSensor AFM for graphene study"		
		16:15 ~ 18:15	

Saturday, Oct. 6th, 2012. Building M, Institute of Physics, CAS

Session 10, Hall #1													
Chair: Won Jong Yoo, Jian-xin Zhong													
08:30 ~09:10 (3-1)	Philip Kim (Columbia University, USA) "Experimental Observation of Hofstadter's Butterfly in Graphene"												
09:10 ~09:35 (3-2)	Xin-he Bao (Institute of chemistry and Physics, CAS, Dalian) "Chemical Aspects and Catalysis of Graphene Materials"												
09:35 ~10:00 (3-3)	Ping-heng Tan (Institute of Semiconductors, CAS, Beijing) "Optical Probe of the Electronic Excitations in Single- and Multi-layer Graphenes"												
10:00 ~10:25 (3-4)	Ting Yu (Nanyang Technological University, Singapore) "Raman Scattering of 2D Materials"												
10:25 ~10:40	Coffee break												
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Session 11 , Hall #1</th> <th style="width: 50%; text-align: center;">Session 12 , Hall #2</th> </tr> <tr> <th style="text-align: center;">Chair: Toshiaki Enoki</th> <th style="text-align: center;">Chair: Kian Ping Loh</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">10:40 ~11:05 (3-5, 3-6)</td> <td>Quan-shui Zheng (Tsinghua University, Beijing) "Large Scale Superlubricity in Graphite"</td> </tr> <tr> <td style="text-align: center;">11:05 ~11:30 (3-7, 3-8)</td> <td>Da-peng Yu (Peking University, Beijing) "Fabrication and Properties of Vertical Graphene Structures"</td> </tr> <tr> <td style="text-align: center;">11:30 ~11:55 (3-9, 3-10)</td> <td>Guang-yu Zhang (Institute of Physics, CAS, Beijing) "Controlled growth and fabrication of graphene nanostructures and their applications in sensors and memories"</td> </tr> <tr> <td style="text-align: center;">11:55 ~13:40</td> <td style="text-align: center;">Lunch</td> </tr> </tbody> </table>	Session 11 , Hall #1	Session 12 , Hall #2	Chair: Toshiaki Enoki	Chair: Kian Ping Loh	10:40 ~11:05 (3-5, 3-6)	Quan-shui Zheng (Tsinghua University, Beijing) "Large Scale Superlubricity in Graphite"	11:05 ~11:30 (3-7, 3-8)	Da-peng Yu (Peking University, Beijing) "Fabrication and Properties of Vertical Graphene Structures"	11:30 ~11:55 (3-9, 3-10)	Guang-yu Zhang (Institute of Physics, CAS, Beijing) "Controlled growth and fabrication of graphene nanostructures and their applications in sensors and memories"	11:55 ~13:40	Lunch
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10:40 ~11:05 (3-5, 3-6)	Ya-Pu Zhao (Institute of Mechanics, Chinese Academy of Sciences, China) "A new registry pattern between folded graphene and substrate with water film in between"												
11:05 ~11:30 (3-7, 3-8)	Yun-qi Liu (Institute of chemistry, CAS, Beijing) "Controllable Preparation of Graphene by Chemical Vapor Deposition and their Electronic Properties"												
11:30 ~11:55 (3-9, 3-10)	Gao-quan Shi (Tsinghua University, Beijing) "Controlled Synthesis of Chemically Converted Graphene for Energy Applications"												
11:55 ~13:40	Lunch												

Saturday, Oct. 6th, 2012. Building M, Institute of Physics, CAS

	Session 13 , Hall #1 Chair: Francois Peeters, Ya-Pu Zhao	Session 14 , Hall #2 Chair: Da-peng Yu, Quan-shui Zheng
13:40 ~14:05 (3-11, 3-12)	Wan-lin Guo (Nanjing Univ. of Aeronautics & Astronautics, Nanjing) “Mechanical-Electric-Magnetic Coupling Effects in Black and White Graphenes”	Xiao-long Chen (Institute of Physics, CAS, Beijing) “Three types of graphene derived from SiC”
14:05 ~14:30 (3-13, 3-14)	Xin-cheng Xie (Oklahoma State Univ., USA /Peking Univ., Beijing) “Spin superfluid in a ferromagnetic graphene”	Xin-ran Wang (Nanjian University, Nanjing) “Graphene Nanoribbon Electronic Devices and Quantum Wires”
14:30 ~14:55 (3-15, 3-16)	Jian-xin Zhong (Xiangtan University, Hunan) “Tuning Transport Properties of Graphene Systems”	Li-tao Sun (Southeast University, Nanjing) “Setting up a Nanolab inside a TEM for Graphene Research”
14:55 ~15:20 (3-17, 3-18)	Yu-gui Yao (Beijing Institute of Technology, Beijing) “The Topological Properties in Silicene”	Lin He (Beijing Normal University, China) “Defect engineering of graphene”
15:20 ~15:35	Coffee break	
Session 15, Hall #1 Chair: Qian Niu, Amanda S. Barnard		
15:35 ~16:15 (3-19)	Allan MacDonald (University of Texas, Texas, USA) “Electron-electron interactions in multi-layer graphene systems”	
16:15~16:40 (3-20)	Francois Peeters (University of Antwerp, Belgium) “Hydrogenation and fluorination of single and bilayer graphene”	
16:40 ~17:05 (3-21)	Xin-liang Feng (Shanghai Jiaotong Univ./ MPI, Mainz) “Graphene-based Porous Materials: Inspired Synthesis, Assemblies, Energy Storage and Conversion”	
17:05~17:30	Closing remark	Antonio Castro Neto & Toshiaki Enoki

Poster Session

P-1	Takashi Kubo (Osaka University, Japan) "Elucidation of the Edge State of Graphene Nanoribbons at the Molecular level: Direct Synthesis of Anthenes and Characterization of Quarteranthene"
P-2	Jimin Zhao (Institute of Physics, CAS, Beijing) "Spatial Self-Phase Modulation in Graphene Sheets: Purely Coherent Nonlinear Optical Response"
P-3	Zheng Bo (Zhejiang University, Hangzhou) "One-step Fabrication and Capacitive Behavior of Electrochemical Double Layer Capacitor Electrodes using Vertically-oriented Graphene Directly Grown on Metal"
P-4	Hua-Min Li (Sungkyunkwan University, Korea) "Photocurrent Enhancement in Graphene Stack Photodetector"
P-5	Rui Zhang (Peking University, Beijing) "Growth of Large Domain Epitaxial Graphene on the C-Face of SiC "
P-6	Changqing Ye (Institute of Chemistry, CAS, Beijing) "Photo-electronic Switch of Multi-level Memory Device Based on Donor-Bridge-Acceptor Molecule"
P-7	Jing-jing Lin (Institute of Physics, CAS, Beijing) "Detection of Defects in Epitaxial Graphene on SiC through Anisotropic Hydrogen Plasma Etching"
P-8	Yuping Jia (Institute of Physics, CAS, Beijing) "Wafer-scale Graphene on 2 inch SiC with Uniform Structural and Electrical Characteristics "
P-9	Chang Oh Kim (Kyung Hee University, Korea) "Structural and Optical Characterization of Graphene Layers Doped with Benzyl Viologen at Various Concentrations"
P-10	Chan Wook Jang (Kyung Hee University, Korea) "Electrical and Optical Properties of Field-effect Transistors Containing Undoped and AuCl ₃ -doped Graphene"
P-11	Jong Min Kim (Kyung Hee University, Korea) "Annealing-temperature-dependent Structural and Optical Characteristics of AuCl ₃ -doped Graphene"
P-12	Jae Sung Lee (Kyung Hee University, Korea) "Structural and Optical Properties of Graphene Prepared by C Ion Implantation into Cu Foils"
P-13	Soo Seok Kang (Kyung Hee University, Korea) "Size-dependent Photoluminescence Lifetime of Graphene Quantum Dots"
P-14	Guoxin ZHANG (Beijing University of Chemical Technology, Beijing) "Sorting Graphene Derivatives by Density Gradient Ultracentrifugal Rate Separation"
P-15	Jianhui CHEN (Peking University, Beijing) " Self-healing of defected graphene"

P-16	Houk Jang (Sungkyunkwan University, Korea) "Transparent and flexible Silicon transistor by use of graphene electrode"
P-17	Lei MENG (Institute of Physics, CAS, Beijing) "Investigation of multi-oriented moiré superstructures of graphene on Ir(111) and silicon intercalation at the graphene/Ir interface"
P-18	Hong WANG (University of Science and Technology of China, Hefei) "Growth of Sub-millimeter Single-Crystal Graphene Domains on Copper Foils by Suppressing Nucleation"
P-19	Xiaodi LIU (University of Science and Technology of China, Hefei) "Energy transfer from a single Nitrogen-Vacancy center in nanodiamond to a graphene monolayer"
P-20	Jianxin GENG (Technical Institute of Physics and Chemistry, CAS, Beijing) "Properties and applications of nano-hybridized graphene materials with organic conjugated systems"
P-21	Haibin SUN (Nanjing University, Nanjing) "Ni clusters modulate individual grain and magnetism in graphene"
P-22	Fangtao CHEN (Southeast University, Nanjing) "Low-temperature Thermal Reduction of Graphene Oxide"
P-23	Feng XU (Southeast University, Nanjing) "Graphene enhanced carrier separation in excitonic solar cells"
P-24	Hengchang BI (Southeast University, Nanjing) "Spongy Graphene as a Highly Efficient and Recyclable Sorbent for Oils and Organic Solvents"
P-25	Jing JI (Southeast University, Nanjing) "In-Situ Synthesis of Graphene-CNT Hybrids via Joule Heating"
P-26	Jun Sun (Southeast University, Nanjing) "Eject encapsulated molecules from carbon nanotubes using an inner tube as the van der Waals energy driven nanoram"
P-27	Shu WAN (Southeast University, Nanjing) "Low Temperature Casting of Graphene into Various 3-D Shapes"
P-28	Tao XU (Southeast University, Nanjing) "Fabrication of Graphene Nanopores under Thermal Excitation"
P-29	Xiao XIE (Southeast University, Nanjing) "Migration of Doped Atoms in Graphene Layers"
P-30	Xiaohui HU (Southeast University, Nanjing) "Tuning Electronic and Magnetic Properties of Zigzag Graphene Nanoribbons by Large-Scale Bending"
P-31	Xing WU (Southeast University, Nanjing) "In-situ TEM observation of monolayer MoS ₂ "
P-32	Yilong ZHOU (Southeast University, Nanjing) "Effect of pH on Quality of 3-D Super-Compact Graphene Casting"
P-33	Yuting SHEN (Southeast University, Nanjing) "Controllable Transfer of Thin-layer Graphene onto Solid-state Substrate"

P-34	Zhenjiang ZHANG (Southeast University, Nanjing) “Electronic properties of armchair graphene nanoribbons with vacancies”
P-35	Wenzhu OUYANG (Technical Institute of Physics and Chemistry, CAS, Beijing) “Preparation and Applications of 3D Porous RGO/Cellulose Composites”
P-36	Xie Hong (Institute of Microsystem and information, CAS, Shanghai) “Large Scale Integration of CVD Graphene FET for Radio Frequency Application”
P-37	Tao Ouyang (Xiangtan University, Hunan) “The Thermal transport properties in graphene and its derived nanostructures”
P-38	Donghui Guo (University of Tsukuba, Japan) “Observation of Landau levels in partially potassium-intercalated graphite under a zero magnetic field”
P-39	Seok Ryul Choi (Sungkyunkwan University, Korea) “Flexible Thin-Film Schottky-Junction Photovoltaic Cell using Graphene Electrode”
P-40	Dongli MENG (Technical Institute of Physics and Chemistry, CAS, Beijing) “Preparation and properties of GO/P3HT composites via grafting P3HT brushes on GO sheets”
P-41	Jinhua SUN (Technical Institute of Physics and Chemistry, CAS, Beijing) “Multiple-Bilayered RGO/Porphyrin Films for Photoelectrochemical Cells”
P-42	Chenfang Lin/ Fen Ke (Peking University, Beijing) “Periodically modulated graphene prepared on high index surface Cu(410)-O”
P-43	Yun Zhu (Changzhou University, Changzhou/ Shanghai Institute of Microsystem and Information Technology, CAS, Shanghai) “Chemical vapor deposition of Graphene on liquid metal catalysts”
P-44	Danil Boukhvalov (School of Computational Sciences, Korea Institute for Advanced Study, Korea) “Formation of Defects in Graphene in the Presence of Adatoms: Theory and Experiment”
P-45	Keke Mao (University of Science and Technology of China, Hefei) “Potential Catalytic Application of CO Oxidation of V@h-BN supported Gold Cluster”
P-46	Zegao WANG (University of Electronic Science and Technology of China, Chengdu) “Effects of Hydrogen Flux on Domain Structures of Single Crystalline Graphene on Cu Foils”
P-47	Xin HAO (University of Electronic Science and Technology of China, Chengdu) “Oxygen-plasma thinning of graphene layer epitaxially grown on carbon-terminated SiC substrate”
P-48	Jin Zhang (Jiangsu University, Zhenjiang) “The Study of Reducing Gate Supply Voltage in Graphene Field-Effect Transistors with Thin Oxides”
P-49	Seung-Jae Baeck (Sungkyunkwan University, Korea) “Low temperature growth of graphene on patterned stamp for nanoimprinting”
P-50	Long REN (Xiangtan University, Hunan) “Upconversion-P25-graphene composite as an advanced sunlight driven photocatalytic hybrid material”
P-51	K.B.Korzhybayeva (Al-Farabi Kazakh National University, Almaty) “Structure of Magnetic Clay of Bentonite”

P-52	Xiujian Xu (Wuhan University, Wuhan) "A graphene oxide-based AIE biosensor with high selectivity toward bovine serum albumin"
P-53	Chunxia Wu (Jiangsu University, Zhenjiang/ Southeast University, Nanjing) "Photoluminescence of ZnO-Graphene Prepared in Different Alkalinity Polyol System"
P-54	Zhengshan TIAN (Southeast University, Nanjing) "Ultrasonication-Assisted Self assembling of Graphene Oxide"
P-55	Jitao LI (Southeast University, Nanjing) "Improved Whispering Gallery Mode Lasing of ZnO Microrod Enclosed by Graphene"
P-56	Jian-shuang Liu (Southeast University, Nanjing) "Influence of Surface Treatment of Copper Foil on the Growth of Graphene by Chemical Vapor Deposition"
P-57	Quan Tang (Southeast University, Nanjing) "Formation of Amorphous Carbon and Graphite Islands During the CVD Growing Process of Graphene"
P-58	Fuping Du (<i>Shanghai Institute of Microsystem and Information Technology, CAS, Shanghai</i>) "Microstructure and Electrocatalytic property of MoS ₂ /rGO with different ratio"
P-59	Qi Fan (Southeast University, Nanjing) "LiFe _{1-x} Mn _x PO ₄ nanoparticle clusters/ Graphene nanosheets for excellent performance Lithium-ion Batteries"
P-60	Song Liu (Peking University, Beijing) "Graphene Nanopore as a Super-sensitive Biomolecule Detector and Making It in a Fast and Controllable Way"
P-61	Guangyuan Lu (Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences, Shanghai) "Layer-by-Layer Thinning of Hexagonal Graphene by Anisotropic Hydrogen Etching"
P-62	Chao YAN (Sungkyunkwan University, Korea) "Protective coating layer effects on the stability of CVD-grown monolayer graphene thin film"
P-63	Sung Ho Song (<i>Department of Materials Science and Engineering, KAIST, Korea</i>) "Thermal and Mechanical Properties of Epoxy-Graphene Composites by Using on-oxidized Graphene flakes with Non-covalent Functionalization"
P-64	Changyang Linghu (Tsinghua University, Beijing) "Simulation and Design of Graphene FET RF Integrated Circuits"
P-65	Ke Xiao (Institute of Microelectronics, Tsinghua University) "The study of cooling rate effect on graphene growth on platinum by LPCVD method"
P-66	Hongming Lv (Institute of Microelectronics, Tsinghua University) "Proximity Effect on Large area Transferred Graphene Induced by Functioning Monolayers"
P-67	Xuefu ZHANG (Shanghai Institute of Microsystem and Information Tech., CAS, Shanghai) "Multilayer Single-crystal graphene on Cu copper at atmosphere"
P-68	Jinsup Lee (Department of Material Science and Engineering, KAIST, Republic of Korea) "Uniform Graphene Quantum Dots Patterned from Self-assembled Silica Nanodots"
P-69	Fen Ke (Peking University, Beijing) "Oxidation of Cu substrates beneath graphene"

P-70	Ling Yin (Shenzhen Institutes of Advanced Technology, CAS, Shenzhen/The Chinese University of Hong Kong, Hong Kong) "CVD Graphene as Transparent Electrode in Cu(In,Ga)Se ₂ Solar Cell"
P-71	Bin Wu (Institute of Chemistry, CAS, Beijing) "Single Crystal Graphene Growth by Chemical Vapor Deposition"
P-72	Haofei Shi (Chongqing Institute of Green and Intelligent Technology, CAS, Chongqing/ University of Michigan, United States) "Graphene Surface Plasmon Wave Excited by Subwavelength Metallic Grating"
P-73	Zhancheng Li (Chongqing Institute of Green and Intelligent Technology, CAS, Chongqing/ University of Science and Technology of China, Hefei) "Low-temperature Growth of Graphene by Chemical Vapor Deposition using Solid and Liquid Carbon Sources"
P-74	Dongshan Wei (Chongqing Institute of Green and Intelligent Technology, CAS, Chongqing/ Boston University, USA) "Graphene: A flat membrane that is neither crystalline nor liquid"
P-75	Liang Ma (Southeast University, Nanjing) "Synthesis of High Quality Narrow Graphene Nanoribbons: Unzipping of Single-Walled Carbon Nanotubes and Graphene"
P-76	Ryohei KISHI (Osaka University, Japan) "Theoretical study on the linear absorption properties of open-shell one-dimensional polycyclic aromatic and anti-aromatic hydrocarbons"
P-77	Lijuan MENG (Southeast Univ., Nanjing/ Hong Kong Polytechnic Univ., Hong Kong) "Molecular Dynamics Simulation of Chemical Vapor Deposition Graphene Growth on Ni (111) Surface"
P-78	Wei Bing Lu (Southeast University, Nanjing) "Manipulation Surface Plasmon Polariton(SPP) Waves using Graphene"
P-79	Liang Yu (Dalian Institute of Chemical Physics, CAS, Dalian) "Density Functional Theory Studies on Modulating the Electronic Structures of sp ² Hybridized Carbon Materials for Oxygen Activation"
P-80	Dehui Deng (Dalian Institute of Chemical Physics, CAS, Dalian) "Graphene and Its Derived Nanomaterials for Catalysis"
P-81	Rentao Mu (Dalian Institute of Chemical Physics, CAS, Dalian) "Chemistry under graphene cover: intercalation reactions and nano-confinement effects"
P-82	Yanhong ZHANG (Dalian Institute of Chemical Physics, CAS, Dalian) "Wrinkles acting as nanosized gas inlets for reactions under graphene"
P-83	Congli HE/Jing ZHAO (Institute of Physics, CAS, Beijing) "The nanographene-based functional devices for multilevel nonvolatile memories and ultra-sensitive strain sensors"
P-84	Meng CHENG (Institute of Physics, CAS, Beijing) "Identification and repair of defects in graphic materials"
P-85	Guibai XIE (Institute of Physics, CAS, Beijing) "Graphene Nanostructure Lithography"
P-86	Kyohei Yoneda (Graduate School of Engineering Science, Osaka University, Japan) "Theoretical study on antidot structure dependence of open-shell character and second hyperpolarizability of hexagonal graphene nanoflakes"