



## About the Conference

A series of The International Conference on Nanophotonics (ICNP) is a topical conference sponsored by The Optical Society of America, held in China and Japan in the past five years (Hangzhou in 2007, Nanjing in 2008, Harbin in 2009, Tsukuba in 2010, Shanghai in 2011). The Nanophotonics 2012 will take place on May 27 to 30, 2012 at Peking University, Beijing, China, co-sponsored by ICO. Nanophotonics is a rapid growing and emerging multidisciplinary field that deals with optics/photronics on the nanoscale. The objective of this topical conference is to bring together international scientists and researchers interested in the recent developments in nanophotonics. The topics will include but not be limited to (1) nanophotonics for bio/energy/environment, (2) nanophotonics for information technology and (3) fabrication/characterization/modeling for nanophotonics, from materials science, device physics/chemistry to optic/photonic applications.

## Conference Topics

### **Nanophotonic material for bio/energy/environment**

- Bio-molecular architectures
- Organic/inorganic solar cells
- Green nano-particles/composites
- Photo-catalysis physics/chemistry
- Nano-particle-assisted imaging
- Lab-on-a-chip photonics
- Nano-imaging/sensing
- Nano-materials and transformation optics for lighting/display

### **Nanophotonic structure for information technology**

- Plasmonics, optical nano-antennas
- Metamaterials
- Photonic crystals, silicon photonics
- Near-field optics
- Quantum confined structures: nano-dots, nano-whisker
- Non-linear optics in nano-structures
- Integrated nano-devices/circuits
- THz nano-photonics

### **Fabrication/characterization for nanophotonics**

- Self-assembled growth/deposition
- Photo/chemical synthesis/deposition
- Nano-imprint, etching, deposition
- Laser/ion-beam writing/processing

Scanning optical microscope-assisted process  
Nano-probe-assisted process/characterization  
Optical nano-manipulation/tool  
Modeling/diagnostics for nano-photonics

## Sponsors





## Invited Speakers

### Plenary Speakers

<u>Thomas Ebbesen</u>	University of Strasbourg, France	confirmed
<u>Satoshi Kawata</u>	Osaka University, Japan	confirmed
<u>Paras Prasad</u>	Universty at Buffalo, SUNY, USA	confirmed
<u>Xiang Zhang</u>	University of California at Berkeley, USA	confirmed
<u>Xing Zhu</u>	Peking University, China	confirmed

### Invited Speakers

Kyungwon An	Seoul National University, Korea
Ben-Feng Bai	Tsinghua University, China
Oliver Benson	H-U Berlin, Germany
Hui Liu	HKUST, China
Zhanghai Chen	Fudan University, China
Yiping Cui	Southeast University, China
Qiaoqiang Gan	Universty at Buffalo, SUNY, USA
Harald Giessen	University of Stuttgart, Germany
Ying Gu	Peking University, China
K. Hakuta	The University of Electro-Communications, Japan
Ming-Hui Hong	National University of Singapore, Singapore
Chennupati Jagadish	Australian National University, Australia
Sanjay Krishna	University of New Mexico, USA
Zhi-Yuan LI	Chinese Academy of Sciences, China
Yan Li	Peking University, China
Na Liu	Rice University, USA
Ai Qun Liu	Nanyang Technological University, Singapore
Olivier J. F. Martin	EPFL, Switzerland
Bumki Min	Kaist, Korea
Keitaro Nakatani	Ecole Nornale Superieure Cachan, France
Fiorenzo Omenetto	Tufts University, USA
Rupert Oulton	Imperial College, UK
Marco Rahm	University of Kaiserslautern, Germany
Marek Samoc	Wroclaw University of Technology, Poland

Hong-Bo SUN	Jilin University, China
Charles Surya	Hong Kong Polytechnic University, China
Takuo Tanaka	RIKEN, Japan
Din Ping Tsai	National Taiwan University
Francisco J. García Vidal	Universidad Autonoma de Madrid, Spain
Frank Vollmer	Max Planck Institute, Germany
Vassilios Yannopapas	University of Patras, Greece
Ken-Tye Yong	Nanyang Technological University, Singapore
Nanfang Yu	Harvard University, USA
Edo Waks	University of Maryland, USA
Xue-Hua Wang	Sun Yat-Sen University, China
Zheng Wang	UT Austin, USA
Chee Wei Wong	Columbia University, USA
Xuming Zhang	Hong Kong Polytechnic University, China
Nikolay Zheludev	University of Southampton, UK
Lei Zhou	Fudan University, China

## **Committee**

### **Honorary Chairs**

Paras Prasad (University at Buffalo, SUNY, USA)

Bingkun Zhou (President of Chinese Optical Society and Vice Chairman of ICO)

### **General Co-chairs**

Qihuang Gong (School of Physics, Peking University, China)

Joseph Haus (Director, Electro-Optics Graduate Program, Univ. of Dayton, US)

### **International Program Committee**

Jingjun Xu (Co-Chair) (Nankai University, China)

Qiwen Zhan (Co-Chair) (University of Dayton, USA)

Javier García de Abajo (Instituto de Óptica – CSIC, Spain)

Kiyoshi Asakawa (Tsukuba University, Japan)

C. T. Chan (Hong Kong University of Science and Technology, Hong Kong)

Yiping Cui (Southeast University, China)

Hilmi Volkan Demir (Bilkent University, Turkey)

Nickolas Fang (University of Illinois / Massachusetts Institute of Technology, USA)

Didier Felbacq (University of Montpellier, France)

John T. Fourkas (University of Maryland, USA)

Harald Giessen (University of Stuttgart, Germany)

Qihuang Gong (Peking University, China)

Min Gu (Australian Academy of Science, Australia)

Sailing He (Zhejiang University, China)

Minghui Hong (National University of Singapore, Singapore)

Chennupati Jagadish (Australian National University, Australia)

Martin Kristensen (University of Aarhus, Denmark)

Zhiyuan Li (Institute of Physics, CAS, China)

Shawn-Yu Lin (Rensselaer Polytechnic Institute, USA)

Xiangang Luo (Institute of Optics and Electronics, CAS, China)

Kazuaki Sakoda (National Institute for Materials Science, Japan)

Marek Samoc (Australian National University, Australia)

J. T. Shen (Washington University in St. Louis, US)  
Concita Sibilila (Universita Roma, Italy)  
Takuo TANAKA (The Institute of Physical and Chemical Research, Japan)  
Lars Thylen (Royal Institute of Technology (KTH), Sweden)  
Limin Tong (Zhejiang University, China)  
Din Ping Tsai (National Taiwan University)  
Jiangeng Xue (University of Florida, USA)  
Bingkun Zhou (COS/ICO, Tsinghua University, China)

## **Local Organizing Committee**

Yun-Feng Xiao (Chair) (Peking University, China)  
Jia Wang (Tsinghua University, China)  
Yan Li (Peking University, China)  
Ying Gu (Peking University, China)  
Xiaoyong Hu (Peking University, China)  
Hong Yang (Peking University, China)  
Ying Wang (Yingjie Exchange Center, Peking University, China)  
Yuan-Yuan Hu (Yingjie Exchange Center, Peking University, China)

Monday Morning, May 28, 2012			
	Sunny Hall		
08:15-08:35	Opening Remarks		
08:35-10:05	Plenary Session		
08:35-09:20	<b>PL-1 METAPHOTONICS: A New Direction in Nanophotonics</b> Paras N. Prasad <i>State University of New York at Buffalo, USA</i>		
09:20-10:05	<b>PL-2 N/A</b> Thomas Ebbesen <i>University of Strasbourg, France</i>		
10:05-10:35	Coffee Break, photo session		
	Sunny Hall	Press Room	8 <sup>th</sup> Conference Room
10:35-12:35	Metamaterials (1)	Nanophotonic material for bio/ environment	Fabrications and Applications
10:35-11:05	<b>IN- The New Generation of Dynamic Metamaterials</b> <u>Nikolay Zheludev</u> <i>University of Southampton, UK</i>	<b>IN- The Photonic Silk Road</b> <u>Fiorenzo Omenetto</u> <i>Tufts University, USA</i>	<b>IN- III-V Compound Semiconductor Nanowires for Optoelectronic Devices</b> <u>Chennupati Jagadish</u> <i>The Australian National University, Australia</i>
11:05-11:20	<b>O- Optical Properties of Upright U-shape Ring Resonators in Optical Region</b> <u>Wei Ting Chen</u> , Pin Chieh Wu, Shulin Sun, Yao-Wei Huang, Chih Ting Hsiao, Kuang-Yu Yang, and Din Ping Tsai <i>National Taiwan University, Taiwan</i>	<b>O- Mass-producible Low-cost Au Nanostructure Nanoplasmonic Biosensor Integrated with Multimicrofluidic Channels</b> <u>Zhaoxin Geng</u> , Qiang Kan, Chunxia Wang, Jun Yuan, Yiyang Xie and Hongda Chen <i>Institute of Semiconductor, Chinese Academy of Sciences, China</i>	<b>O- Multicolor Graphene Nanoribbon/Semiconductor Nanowire Heterojunction Light-Emitting Diodes</b> <u>Lun Dai</u> , Yu Ye, and Guogang Qin <i>Peking University, China</i>
11:20-11:35	<b>O- Tunable and Active Optical Negative Index Metamaterials</b> <u>Shumin Xiao</u> <i>Harbin Institute of Technology, China</i>	<b>O- Photochemical Growth of Different Sizes Silver Nanodecahedrons (NDs) and Their Applications for Biosensing</b> <u>Haifei Lu</u> , Zhiwen Kang, Haixi Zhang, Ho-Pui Ho <i>The Chinese University of Hong Kong, Hong Kong</i>	<b>O- Transparent Plasmonic Nanogrid Electrodes for Absorption Enhancement in Thin-film Organic Solar Cells</b> <u>Beibei Zeng</u> , Qiaoqiang Gan, Zakyia H. Kafafi, Filbert J. Bartoli <i>Lehigh University, USA</i>



11:35-12:05	<b>IN- Gradient-index Meta-surfaces: A Bridge Linking Propagating Waves and Surface Waves</b> <u>Lei Zhou</u> <i>Fudan University, China</i>	<b>IN- Optical Resonator Biosensors</b> <u>Frank Vollmer</u> <i>Max Planck Institute, Germany</i>	<b>IN- Growth and Characterization of GaN LEDs on Nanoscale Epitaxial Lateral Overgrown Layers</b> <u>Charles Surya</u> <i>The Hong Kong Polytechnic University, Hong Kong</i>
12:05-12:20	<b>O- Metamaterial Coherent Perfect Absorber: The Anti-Lasing-Spaser</b> <u>J. Zhang</u> , K. F. MacDonald, and N. I. Zheludev <i>University of Southampton, UK</i>	<b>O- Plasmonic Interferometers for Enhanced Optical Biosensing</b> <u>Yongkang Gao</u> , Zheming Xin, Qiaoqiang Gan, Xuanhong Cheng, and Filbert J. Bartoli <i>Lehigh University, USA</i>	<b>O- Two-dimensional Grating Structures Induced by Femtosecond Vector Light Fields on Copper and Silicon</b> <u>Kai Lou</u> , Sheng-Xia Qian, Zhi-Cheng Ren, Xi-Lin Wang, Yongnan Li, Chenghou Tu, and Hui-Tian Wang <i>Nankai University, China</i>
12:20-12:35	<b>O- Transparent Metals for Ultrabroadband Electromagnetic Waves</b> <u>Ren-Hao Fan</u> , Jia Li, Dong-Xiang Qi, Qing Hu, Ru-Wen Peng, and Mu Wang <i>Nanjing University, China</i>	<b>O- Probing Near-field Hot Spots by Localized Surface Enhanced Raman Scattering</b> <u>Jian Ye</u> , Chang Chen, Fangfang Wen, Heidar Sobhani, Peter Nordlander, Naomi Halas, Pol Van Dorpe <i>IMEC, Belgium</i>	<b>O- Effects of Saccharin Addition on Electrodeposited and Sulfurized CuInS<sub>2</sub> Alloy for Solar Cell Applications</b> Yih-Min Yeh, Song- Min Liu and <u>Hsiang Chen</u> , Chuan Hao Liao, Chun Wei Lin <i>National Chi Nan University, Taiwan</i>
12:35-13:45	Lunch Break		

**Monday Afternoon, May 28, 2012**

	Sunny Hall	Press Room	8 <sup>th</sup> Conference Room
13:45-15:30	THz, Metamaterials	Resonant interactions in Nanostructures	Coherence effect in Plasmonics
13:45-14:15	<b>IN- Stretchable Terahertz Metamaterial with Wrinkled Layouts</b> <u>Bumki Min</u> <i>Korea Advanced Institute of Science and Technology, Korea</i>	<b>IN- Nonlinear and Quantum Optics in Mesoscopic Photonic Nanostructures</b> <u>Chee Wei Wong</u> <i>Columbia University, USA</i>	<b>IN- Fano Resonance in Plasmonic Oligomers: Generation, Design and Tuning</b> <u>Ming-Hui Hong</u> <i>National University of Singapore, Singapore</i>
14:15-14:45	<b>IN- Tailored Terahertz Surface Waves and Metamaterial Optics</b> <u>Marco Rahm</u> <i>University of Kaiserslautern, Germany</i>	<b>IN- Polariton Parametric Scattering Driven by a One-dimensional Polariton Condensate</b> <u>Zhanghai Chen</u> <i>Fudan University, China</i>	<b>IN- Plasmonic Light Trapping Platforms: from Free Space to On-chip Slow Light</b> <u>Qiaoqiang Gan</u> <i>State University of New York at Buffalo, USA</i>
14:45-15:00	<b>O- Making Hyperlenses with Fractal Plasmonic Metamaterials: Theory and Experiment</b> <u>Qiong He</u> , Shiyi Xiao, Xin Li, Lei Zhou <i>Fudan University, China</i>	<b>O- A Quadrupolar Model for Optical Harmonic Generation in Centrosymmetric Semiconductors: an Application to Nanostructures</b> M. Scalora, M.A. Vincenti, D. de Ceglia, N. Akozbek, V. Roppo, M.J. Bloemer, <u>J.W. Haus</u> <i>University of Dayton, USA</i>	<b>O- Fano Resonances in Plasmonic Nanorod Dimers and Nanorod-nanoparticle Hybrids</b> Zhong-Jian Yang, Zhang-Kai Zhou, Ya-Lan Wang and <u>Qu-Quan Wang</u> <i>Wuhan University, China</i>
15:00-15:15	<b>O- Planar Metamaterials to Focus Light in Reflection Geometry</b> <u>Xin Li</u> , Shiyi Xiao, Qiong He, Bengeng Cai, Tiejun Cui, Lei Zhou <i>Fudan University, China</i>	<b>O- Polarization-Independent Fano Resonances in One Dimensional Arrays of Core-shell Nanospheres</b> W. Liu, <u>A. E. Miroshnichenko</u> , D. N. Neshev, and Yu. S. Kivshar <i>The Australian National University, Australia</i>	<b>O- Tuning Asymmetry Parameter of Fano Resonance of Spoof Surface Plasmons by Modes Coupling</b> <u>Fei Cheng</u> , Houfang Liu, Bo-Hong Li, Jing Han, Hong Xiao, Xiufeng Han, Changzhi Gu, Xianggang Qiu <i>Institute of Physics, Chinese Academy of Sciences, China</i>
15:30-15:30		<b>O- Resonant Transmission of Evanescent Modes through Dielectric-filled Nanowaveguides</b> Mary Grace Velasco, Patrick Cassidy, and <u>Huizhong Xu</u> <i>St. John's University, USA</i>	<b>O- Fano-Like Asymmetry in MIM Stub Based Plasmon-Induced Transparency</b> <u>Xianji Piao</u> , Sunkyu Yu, and Namkyoo Park <i>Seoul National University, Korea</i>

15:30-15:50	Coffee Break		
15:50-17:50	Plasmonics	Photonic Crystal	Novel Phenomena in Nano optics
15:50-16:20	<b>IN- Bio Inspired Infrared Retina with Quantum Dots and Superlattices</b> <u>Sanjay Krishna</u> <i>University of New Mexico, USA</i>	<b>IN- Fundamental Photonic Hybrid Systems based on Defect Centers in Diamond</b> <u>Oliver Benson</u> <i>H-U Berlin, Germany</i>	<b>IN- Nanometer Spin Separation of Light at the Air-Glass Interface</b> <u>Yan Li</u> <i>Peking University, China</i>
16:20-16:50	<b>IN- Optical Force in Parallel-Plate Metallic Cavity</b> <u>H. Liu</u> <i>the Hong Kong University of Science and Technology, Hong Kong</i>	<b>IN- Lifetime Distribution of Quantum Dots in Three-Dimensional Woodpile Photonic Crystals</b> <u>Xue-Hua Wang</u> <i>Sun Yat-Sen University, China</i>	<b>IN- Photonic Analogs of Topological Insulators and Semiconductors with Rashba Spin-Orbit Splitting</b> <u>Vassilios Yannopoulos</u> <i>University of Patras, Greece</i>
16:50-17:05	<b>O- Non-Perfectly-Matched In-plane Diffractions and Applications in Plasmonics</b> <u>Lin Li, Tao Li, Shuming Wang, Shining Zhu</u> <i>Nanjing University, China</i>	<b>O- An Efficient Conversion of Coherent Thermal Emission by a Three-Dimensional Metallic Photonic Crystal</b> <u>Mei-Li Hsieh, and Shawn-Yu Lin</u> <i>Rensselaer Polytechnic Institute, USA</i>	<b>O- Photonic Analog of Multilayer Graphene and Topological Insulator</b> <u>Xiangdong Zhang, Wei Zhong</u> <i>Beijing Institute of Technology, China</i>
16:05-17:20	<b>O- Polymer Based Plasmonic Elements Investigated with Leakage Radiation Microscopy</b> <u>Douguo Zhang, Xiacong Yuan, Alexandre Bouhelier, Pei Wang and Hai Ming</u> <i>University of Science and Technology of China, China</i>	<b>O- Holographic Rainbow-Colored Photonic Bandgap Structure</b> <u>Ke Liu, Huina Xu, Haifeng Hu, Qiaoqiang Gan, and Alexander N. Cartwright</u> <i>The State University of New York, USA</i>	<b>O- Tunable "Rainbow" Trapped in a Self-Similar Optical Waveguide</b> <u>Qing Hu, Di-Hu Xu, Yu Zhou, Ru-Wen Peng, and Mu Wang</u> <i>Nanjing University, China</i>
17:20-17:35	<b>O- Enhanced Optical Transmission through Pentagonal Hole Array on Metallic Film</b> <u>Tavakol Nazari Baresari and Kyunghwan Oh</u> <i>Yonsei University, Korea</i>	<b>O- Single Longitudinal Mode Ridge Waveguide Laser With Two-Dimensional Photonic Crystal</b> <u>H. Y. Wang, X. S. Xu</u> <i>Institute of Semiconductors, Chinese Academy of Sciences, China</i>	<b>O- Dependence of Incident Angle on Reflection and Field Distribution in Dielectric-Metal Corrugated Structures</b> <u>H. M. Yuan, X. Q. Jiang, and X. D. Sun</u> <i>Harbin Institute of Technology, China</i>
17:35-17:50	<b>O- On-chip Induced Transparency Using Detuned Plasmonic Resonators</b> <u>Zi-Lan Deng, Jian-Wen Dong, and Jensen Li</u> <i>Sun Yat-Sen University, China</i>	<b>O- Tunable Photonic Band Gap in One Dimensional Soft Photonic crystals</b> <u>C. Z. Fan, P. Ding and E. J. Liang</u> <i>ZhengZhou University, China</i>	<b>O- Group Velocity Walk-off between Molecular Parity Modes of Di-atomic Coupled Resonator Optical Waveguides</b> <u>Sunkyu Yu, Xianji Piao, and Namkyoo Park</u> <i>Seoul National University, Korea</i>

17:50-18:10	<p><b>O- Surface Plasmon Resonance Broadening at SiN/Quartz Interface: Dependence on Metal Nano-Island Size</b></p> <p>Hongsheng Gao, <u>Chunxia Wang</u>, Qiang Kan, Zhaoxin Geng, Hongda Chen  <i>Institute of Semiconductor, Chinese Academy of Sciences, China</i></p>	<p><b>O- Low-Power and Double-Channel Nanoscale Photonic Crystal All-Optical Diode</b></p> <p><u>Cuicui Lu</u>, Xiaoyong Hu, Hong Yang, and Qihuang Gong  <i>Peking University, China</i></p>	<p><b>O- Attenuation of Optical Pulses by Self-Produced Free Carriers in Silicon Waveguides</b></p> <p><u>Hagen Renner</u>  <i>Technische Universität Hamburg-Harburg, Germany</i></p>
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**Tuesday Morning, May 29, 2012**

	Sunny Hall	
08:30-10:00	Plenary Session	
08:30-09:15	<b>PL-3</b> N/A Xiang Zhang <i>Peking University, China</i>	
09:15-10:00	<b>PL-4 Plasmonic Imaging: Nano and 3D</b> Satoshi Kawata <i>Osaka University, Japan</i>	
10:00-10:20	Coffee Break	
	Sunny Hall	8 <sup>th</sup> Conference Room
10:20-12:35	Plasmonics	Optical Sensing
10:20-10:50	<b>IN- Laser Science in a Nanoscopic Gap</b> <u>Rupert F. Oulton</u> <i>Imperial College London, UK</i>	<b>IN- Hybrid Nanoparticles-Based Optical Probes for Biosensing</b> <u>Yiping Cui</u> <i>Southeast University, China</i>
10:50-11:05	<b>O- Black Plasmon Nanoresonators</b> Mihail Bora, Allan Chang, <u>Tiziana Bond</u> <i>Lawrence Livermore National Lab, USA</i>	<b>O- Direct Imaging of Surface Plasmon Resonant Fields of Gold Nanostructures by Multi-Photon Photoemission Microscopy</b> <u>Q. Sun</u> , K. Ueno, A. Kubo, Y. Zhang, X. Shi, Y. Matuso, and H. Misawa <i>Hokkaido University, Japan</i>
11:05-11:20	<b>O- Lasing of CdSe/SiO<sub>2</sub> Nanocables Synthesized by the Facile Chemical Vapor Deposition Method</b> <u>Yu Ye</u> , Yaoguang Ma, Song Yue, Lun Dai, Zhi Li, Limin Tong, and Guogang Qin <i>Peking University, China</i>	<b>O- Fluorescence Properties of Colloidal CuInS<sub>2</sub> Quantum Dots</b> <u>B. Cichy</u> , D. Wawrzyńczyk, A. Bednarkiewicz, M. Samoc, W. Strek <i>Wroclaw Research Centre EIT+, Poland</i>
11:20-11:50	<b>IN- Directional Excitation and Manipulation of SPPs and the Related Applications</b> <u>Benfeng Bai</u> <i>Tsinghua University, China</i>	<b>IN- Resonant Optical Tunneling Effect for Sensing Applications</b> <u>Xuming Zhang</u> <i>Hong Kong Polytechnic University, Hong Kong</i>
11:50-12:05	<b>O- Optical Self- Amplitude and Phase Modulation in Metallic Nano-apertures</b> <u>Arash Joushaghani</u> , Bo Hou, J. Stewart Aitchison, Joyce K. S. Poon <i>Soochow University, China</i>	<b>O- Surface Enhanced Raman Scattering in Nano Optical Antennas Integrated with Ring Gratings</b> <u>Tian Yang</u> , Baoan Liu and Chuan Shi <i>Shanghai Jiao Tong University, China</i>

12:05-12:20	<b>O- Integration of Metallic and Dielectric Nanowires for Hybrid Nanophotonic Components</b> <u>Xin Guo</u> , Xiaomin Ren, Limin Tong <i>Beijing University of Posts and Telecommunications, China</i>	<b>O- Radially Polarized Beam Induced Plasmonic Hybrid Mode for Surface-enhanced Raman Spectroscopy</b> <u>Du Luping</u> , Tang Dingyuan, Yuan Xiacong <i>Nanyang Technological University, Singapore</i>
12:20-12:35	<b>O- U-Shaped Grooves Enhanced Extraordinary Optical Transmission through Metallic Nano-slits</b> <u>Yanxia Cui</u> , Jun Xu, Yi Jin, Sailing He, and Nicholas X. Fang <i>Taiyuan University of Technology, China</i>	<b>O- Multimodal Neodymium (III) Doped NaYF<sub>4</sub> Nanoparticles for Effective Optically Stimulated Heating and Luminescence Temperature Sensing</b> <u>D. Wawrzynczyk</u> , A. Bednarkiewicz, M. Nyk, W. Strek and M. Samoc <i>Wroclaw University of Technology, Poland</i>
12:35-13:45	Lunch Break	

**Tuesday Afternoon, May 29, 2012**

	Sunny Hall	8 <sup>th</sup> Conference Room
13:45-16:15	Plasmonics	Enhanced light-matter interaction at Nanoscale
13:45-14:15	<b>IN- Three-Dimensional Complex Plasmonic Structures: Chirality, Coupling, and Sensing Applications</b> <u>Harald Giessen</u> <i>University of Stuttgart, Germany</i>	<b>IN- Optical Nanofibers: New Route for for Manipulating Single Photons</b> <u>Kohzo Hakuta</u> <i>The University of Electro-Communications, Japan</i>
14:15-14:45	<b>IN- Plasmonic Toroidal Dipolar Response of Upright Metamaterials</b> <u>Din Ping Tsai</u> <i>National Taiwan University, Taiwan</i>	<b>IN- Low Photon Number Optical Nonlinearities with Single Quantum Dots Coupled to Photonic Crystal Cavities</b> <u>Edo Waks</u> <i>University of Maryland, USA</i>
14:45-15:15	<b>IN- Self-Organized Assembly of Three-Dimensional Metamaterials</b> <u>Takuo Tanaka</u> <i>RIKEN, Japan</i>	<b>IN- Spectroscopy of a Single Neutral Atom Localized in Nanoscopic Potential Wells of an Optical Lattice</b> <u>Kyungwon An</u> <i>Seoul National University, Korea</i>
15:15-15:30	<b>O- High-Order Aligned Gold Nanorods in Polymer Optical Nanofibers</b> <u>Pan Wang</u> , Lei Zhang, and Limin Tong <i>Zhejiang university, China</i>	<b>O- Low-Threshold Supercontinuum Generation in Semiconductor Nanoribbons by Continuous-Wave Pumping</b> Fuxing Gu, Huakang Yu, <u>Wei Fang</u> , and Limin Tong <i>Zhejiang University, China</i>
15:30-15:45	<b>O- Dynamic Modulation of Surface Plasmon Polaritons Based on Optical Vortex Beams</b> <u>Guanghui Yuan</u> , and Xiacong Yuan <i>Nanyang Technological University, Singapore</i>	<b>O- Metal Nanoparticle Enhanced Interaction in Cavity QED</b> <u>Yong-Chun Liu</u> and Yun-Feng Xiao <i>Peking University, China</i>
15:45-16:00	<b>O- Efficient Low Dispersion Plasmonic-Photonic Coupler</b> <u>Themistoklis P. H. Sidiropoulos</u> , Stefan A. Maier, and Rupert F. Oulton <i>Imperial College London, UK</i>	<b>O- Laser-Etched Microhole Structure for Enhancing Surface Luminescence of Rare-Earth Doped Nanocrystal Solids</b> <u>Zhenguo Zhang</u> , Jing Dai, Hong Li, Li Li, Xinlu Zhang <i>Harbin Engineering University, China</i>
16:00-16:15	<b>O- Extraordinary Optical Transmission Studies in Infrared Regime on Polycrystalline and Epitaxial Ag Films</b> <u>Bo-Hong Li</u> , Charlotte E. Sanders, James McIlhargey, Fei Cheng, Changzhi Gu, Guanhua Zhang, Kehui Wu, Jisun Kim, S. Hossein Mousavi, Alexander B. Khanikaev, Gennady Shvets, Chih-Kang Shih, and Xianggang Qiu <i>Institute of Physics, Chinese Academy of Sciences, China</i>	<b>O- Long-Lived, Room-Temperature Electron Spin Coherence in Colloidal CdS Quantum Dots</b> <u>Donghai Feng</u> , Xia Li, Tianqing Jia, Xianqun Pan, Zhenrong Sun, and Zhizhan Xu <i>East China Normal University, China</i>

	Press Room
16:15-18:00	Poster Session & Coffee Break
18:30-20:00	Banquet



**Wednesday Morning, May 30, 2012**

	Sunny Hall	
08:10-08:55	Plenary Session	
08:10-08:55	<b>PL-5</b> N/A Xing Zhu <i>Peking University, China</i>	
	Sunny Hall	Press Room
9:00-12:05	Optical Property in Nanostructures	Fabrications and Applications
9:00-09:30	<b>IN:</b> Biosynthesis of Gold Nanoparticles in Human Cells <u>Olivier J. F. Martin</u> <i>EPFL, Switzerland</i>	<b>IN:</b> High-Performance Micro-Nanostructured Organic Optoelectronic Devices <u>Hong-Bo Sun</u> <i>Jilin University, China</i>
09:30-09:45	<b>O-</b> Optical Properties of Polymer/Gold Nanoparticle Films with Nanoaggregation: Experiments and Theory <u>O. Merchiers</u> , J. Vieaud, Y. Borensztein, V. Ponsinet, A. Aradian <i>Centre de Recherche Pascal, Bordeaux, France</i>	<b>O-</b> Formation of Quantum Dot Arrays by Using the Edgedefined Nanowires and Their Miniband Structures <u>Jong Chang Yi</u> <i>Hongik University, Korea</i>
09:45-10:00	<b>O-</b> Graphene-Doped Polymer Optical Nanofibers <u>Chao Meng</u> , Limin Tong <i>Zhejiang University, China</i>	<b>O-</b> Time-resolved Faraday Rotation in Layered Structures <u>M.I. Sharipova</u> , A.V. Chetvertukhin, A.I. Musorin, T.V. Dolgova and A.A. Fedyanin <i>Lomonosov Moscow State University, Russia</i>
10:00-10:20	Coffee Break	
10:20-12:20	On-Chip Nanodevices	Fabrications and Applications
10:20-10:50	<b>IN:</b> Design and Experiment on Silicon Photonic Crystal Integrated Optical Devices <u>Zhi-Yuan Li</u> <i>Institute of Physics, Chinese Academy of Sciences, China</i>	<b>IN3</b> Photochromic Nanoparticles: Fabrication, and Photo-Induced Property Changes <u>Keitaro Nakatani</u> <i>Ecole Normale Supérieure de Cachan, France</i>
10:50-11:20	<b>IN:</b> Broadband Coherent Phonon Generation with Nanoscale Traveling-Wave Optomechanics <u>Zheng Wang</u> <i>University of Texas at Austin, USA</i>	<b>IN:</b> Smart Nanoplasmonics for Chemistry and Biology <u>Na Liu</u> <i>Rice University, USA</i>
11:20-11:35	<b>O-</b> Nanograting-Based Guided-Mode Resonance Lab-on-a-Chip Pressure Sensor	<b>O-</b> Theoretical and Experimental Investigation of Doping M-ZnSe (M = Cd, Mn, Cu) Clusters: Optical and Boding

	Steven Foland and <u>Jeong-Bong (JB) Lee</u> <i>University of Texas at Dallas, USA</i>	<b>Characters</b> <u>Chunlei Wang</u> , Shuhong Xu, Yiping Cui <i>Southeast University, China</i>
11:35-11:50	<b>O- Zoom Compound Microlens on a Chip</b> Peng Fei and <u>Yanyi Huang</u> <i>Peking University, China</i>	<b>O- Intrinsic and Plasmonic Absorption Losses by Metallic back Reflectors in Silicon Nanowire Solar Cells</b> <u>Keya Zhou</u> , Zhongyi Guo, Xiaopeng Li, Jin-Young Jung, Sang-Won Jee, Kwang-Tae Park, Han-Don Um, Jung-Ho Lee <i>Hanyang University, Korea</i>
11:50-12:05	<b>O- Integrated Surface Plasmon Based Polarizer and Polarization Beam Splitter</b> <u>Xifeng Ren</u> , Changling Zou, Chunhua Dong, Fangwen Sun and Guangcan Guo <i>University of Science and Technology of China, China</i>	<b>O- Accumulating Microparticles and Direct-writing Micropatterns using Continuous-Wave Laser-Induced Vapor Bubble</b> J. Y. Zhen, <u>H. Liu</u> , and S. N. Zhu <i>Nanjing University, China</i>
12:05-12:20	<b>O- Resonant Cavity Add-Drop Filter Based on Photonic Crystal on InP Substrate</b> M. Nikoufard, <u>N. Hajiloo</u> , S. Amadeh, and A. Farshadpour <i>Islamic Azad University, Iran</i>	<b>O- Broad Spectral Response in Composition-Graded CdSSe Single Nanowires via Waveguiding Excitation</b> <u>Fuxing Gu</u> , Huakang Yu, Wei Fang, and Limin Tong <i>Zhejiang University, China</i>
12:20-13:30	Lunch Break	

**Wednesday Afternoon, May 30, 2012**

	Sunny Hall	Press Room
13:30-15:30	Novel Nanomaterials	Quantum Plasmonics
13:30-14:00	<b>IN- N/A</b> <u>Ai Qun Liu</u> <i>Nanyang Technological University, Singapore</i>	<b>IN- Light-Matter Coupling Mediated by Surface Plasmons</b> <u>Francisco J. Garcia-Vidal</u> <i>Universidad Autonoma de Madrid, Spain</i>
14:00-14:30	<b>IN- Broadband Birefringent Metainterfaces</b> <u>Nanfang Yu</u> <i>Harvard University, USA</i>	<b>IN- Plasmon-Induced Quantum Interference Effects near Metallic Nanostructures</b> <u>Ying Gu</u> <i>Peking University, China</i>
14:30-14:45	<b>O- Plasmonic Nanoparticles Ordered in Self-assembled Materials</b> C. Tallet, J. Vieaud, K. Ehrhardt, O. Merchiers, S. Prathap Chandran, A. Aradian, and <u>V. Ponsinet</u> <i>Université de Bordeaux, France</i>	<b>O- Distinguish Two Single Emitters at Nanoscale by Optical Quantum Imaging</b> <u>Jing-Ming Cui</u> , Fang-Wen Sun, Xiang-Dong Chen, Zhao-Jun Gong, and Guang-Can Guo <i>University of Science and Technology of China, China</i>
14:45-15:00	<b>O- Elliptical Polarizers with Helical Metamaterials</b> <u>ZhenYu Yang</u> , Lin Wu, Peng Zhang, ZeQin Lu, and Ming Zhao <i>Huazhong University of Science and Technology, China</i>	<b>O- Control of Local Field in a Metal Nanoparticle with Third-Order Optical Nonlinearity</b> <u>Y. Takeda</u> , R. Sato, H. Momida, M. Ohnuma, T. Ohno and N. Kishimoto <i>National Institute for Materials Science, Japan</i>
15:30-15:50	Coffee Break	
15:50-17:00	Nonlinear Optics at Nanoscale	Nanomedicine
15:50-16:20	<b>IN- Nonlinear Optical Effects in Nanoparticles: Comparing Nonlinear Absorption Merit of Disparate Species</b> <u>Marek Samoc</u> <i>Wroclaw University of Technology, Poland</i>	<b>IN- N/A</b> <u>Ken-Tye Yong</u> <i>Nanyang Technological University, Singapore</i>
16:20-16:35	<b>O- Measuring the Number of NV Centers in Fluorescent Nanodiamond in the Presence of Graphite Shells</b> Lun-Hsuan, Chen and <u>Tsong-Shin Lim</u> <i>Tunghai University, Taiwan</i>	<b>O- On-chip Plasmonic Nanostructures with High Order Plasmonic Mode and Fano Resonance</b> <u>Jing Bo Zhang</u> , Yefeng Yu, Shripad Ramchandra Kulkarni and Yuan Hsing Fu <i>Agency for Science, Technology and Research, Singapore</i>
16:35-17:00	<b>O- Anisotropic Third-Order Optical Nonlinearity of a Single Semiconductor Micro/Nano-wire</b> <u>Kai Wang</u> , Jun Zhou and Peixiang Lu <i>Huazhong University of Science and Technology, China</i>	<b>O- Surface Plasmons at the Interface Between Graphene and Kerr-Type Nonlinear Medium</b> <u>Lei Wang</u> , Wei Cai, Xinzheng Zhang, and Jingjun Xu <i>Nankai University, China</i>

17:15-17:30	<b>O- Focusing Second Harmonic Speckle from Random Nonlinear Material</b> <u>Can Yao</u> , Francisco Rodriguez, Jordi Martorell <i>Institut de Ciències Fotoniques, Spain</i>	<b>O-29 Plasmon Resonance of Optical Ellipticity on Metallic Nanostructures and its Application for Sensing</b> <u>S. M. Chen</u> , S. Y. Ching, G. X. Li, and K. W. Cheah <i>Hong Kong Baptist University, Hong Kong</i>
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