

Welcome to The International Conference on Nanophotonics 2010 in Tsukuba City MAY 30– JUNE 3, 2010,EPOCAL TSUKUBA, TSUKUBA, JAPAN



Nanophotonics 2010 has been finished successfully.

A series of The International Conference on Nanophotonics is a topical conference sponsored by The Optical Society of America, held in China in the past three years (Hangzhou in 2007, Nanjing in 2008, Harbin in 2009). The Nanophotonics 2010 will take place on May 30 to June 3, 2010 at Tsukuba International Congress Center (EPOCAL TSUKUBA), Tsukuba, Japan, co-sponsored by Optical Society of Japan. 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 (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.

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Technical sponsors

- The Optical Society of America (OSA)
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- Tsukuba City
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Conference Topics

Nanophotonic material for bio/energy/environment

- Bio-molecular architecture
- Organic/inorganic solar cell
- Green nano-particle/composite
- Photo-catalysis physics/chemistry
- Nano-particle-assisted imaging
- Lab-on-a-chip photonics
- Nano-imaging/sensing
- Nano-material for lighting/display

Nanophotonic structure for information technology

- Near-field optics
- Surface plasmonics, optical nano-antenna
- Photonic crystal, silicon photonics
- Negative index material
- Quantum dot, nano-whisker
- Non-linear optics in nano-structure
- Integrated nano-device/circuit
- 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

THE INTERNATIONAL CONFERENCE ON NANOPHOTONICS 2010

©Best Poster Paper Awards

- T. Kishi, S. Furusawa, A. Yasumori, T. Yano and S. Shibata, "Solid Immersion Lens with Gold Nanoparticles for Localized Surface Plasmon Microscopy", Tokyo Institute of Technology, Japan
- Zhehai Zhou, Qiaofeng Tan and Guofan Jin, "Surface plasmon interference formed by tightly focused higher polarization order axially-symmetric polarized beams", Tsinghua University, China
- A. Llopis and A. Neogi, "Near-Field Mapping of the Huang-Rhys Parameter", University of North Texas, USA
- Y. Kajihara, K. Kosaka and S. Komiyama, "Passive near-field microscopy in long-wavelength infrared region", The University of Tokyo, Japan
- J. Grgić, S. Xiao, J. Mørk, A. P. Jauho and N. A. Mortensen, "Slow light enhanced absorption in hollow core fibre", Technical University of Denmark, Denmark
- Luojia Wang, Ying Gu, Xiaoyong Hu and Qihuang Gong, "Large field enhancement through permittivity-contrast in a planar MIM waveguide", Peking University, China
- Wei Ting Chen, Pin Chieh Wu, Chen Jung Chen, Yuan-Fong Chau, Chieh-Hsiung Kuan and Din Ping Tsai, "Electromagnetic Energy Vortex of Sub-wavelength Plasmonic Taiji Mark", National Taiwan University, Taiwan

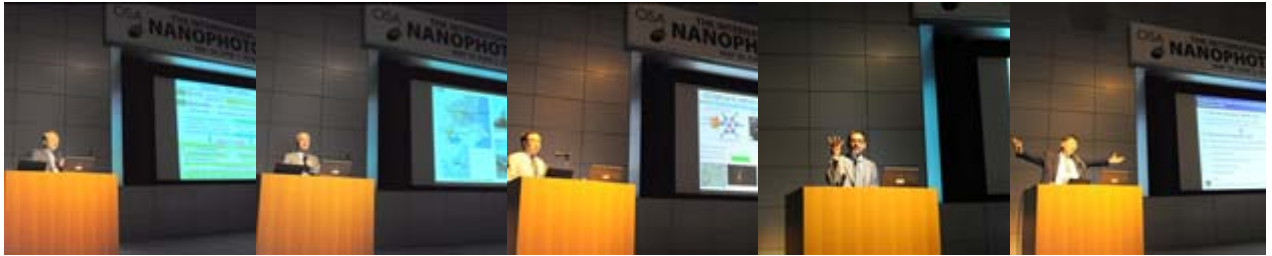
©Best Student Paper Awards

- C. C. Lee, "Ultra-short optical pulse generation with single layer graphene", University of Colorado, USA
- J. Ye, "Demonstration of strong localization of surface enhanced Raman scattering on individual symmetry-reduce metallic nanoparticles", Katholieke Universiteit Leuven, Belgium
- R. R. Yalla, "Single Quantum Dots on an Optical Nanofiber", University of Electro-Communications, Japan
- Y. Fujiwara, "Surface Plasmon Enhanced Photoluminescence on Biharmonic Gratings Structure", Osaka University, Japan





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Conference Organization:

Conference Honorary Chairs:

- Paras N. Prasad (SUNY at Buffalo, USA)
- Toyohiko Yatagai (OSJ and Utsunomiya University, Japan)

Conference Co-chairs:

- Kiyoshi Asakawa (NIMS, Japan)
- Qihuang Gong (Peking University, China)
- Joseph W. Haus (University of Dayton, USA)

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Industry Exhibition

Canon Marketing Japan Inc.

Obudcat's Nano Imprint Lithography is designed for full area UV and thermal imprint to the entire substrate. The Obuducat Soft Press Technology®, which uses air pressure allows to imprint nano-pattern homogeneously. Moreover, IPS®, (Intermediate Polymer Stamp®) makes it possible to avoid contact between the master stamp and the hard substrate which will be the solution to mass production. This increases the stamp lifetime, and meanwhile enables contamination control by limiting the replication of contaminants to greatly improve process yield. Plus, STU®, (Simultaneous Thermal and UV®) realizes precise pattern imprint to substrate. Obudcat not only provides Nano Imprint Lithography, but also provides stamp manufacturing, anti-sticking coating process, STU®, resist which will be the solution to the entire process flow. These Obudcat's solution bring in the adoption of LED high volume manufacturing and also is expected to improve for the optical devices(lens, glass, film), large area imprint and so on.

JEOL Ltd.

「JEOL is a leading world supplier of analytical and electron optic instruments for science and advanced equipment for semiconductor, medical, and environmental industries.」

TOSHIBA MACHINE CO., LTD.

TOSHIBA MACHINE GROUP, the Home of Manufacturing Technologies from High-Precision to Large-Scale, is a total machine manufacturer that offers the variety of the products for the customer needs. Founded as a machine tool manufacturer in 1938, Toshiba Machine has since developed and produced a wide variety of product lines in response to the demands of the times. Now operating as the Toshiba Machine Group, the company is involved in the production and sale of diverse equipment including injection molding machines, die-casting machines, plastic extrusion machines, industrial robots, nanoimprint machines, high-precision machines, machine tools, and hydraulic equipment. Toshiba Machine entered the field of nanoimprint machines in 2004 to develop and manufacture press-type and roll-to-roll nanoimprint machines. In 2009 the high-precision machine business was consolidated with a new Nano Processing System Division launched to synergize nanoimprint lithography with ultraprecision machining. To realize device mass production with nanoimprint machines, it will be necessary not only to improve machine performance, but also to perfect the overall technology, including the mold, resin material, process design, and inspection required for implementing the entire manufacturing sequence. We are working tirelessly to develop these technologies as a total solution for our customers.

AET, Inc.

Ever since its establishment in 1988, AET has undertaken the role of pioneer in importing hardware and software products from top class vendors aiming to introduce the most advanced technology and specializing in electromagnetic technology.

CST (headquartered in Germany)'s electromagnetic simulation software, "CST STUDIO SUITE" has recorded the sale of over 1000 seats worldwide. Its customers include major electric makers, public research organizations and universities. The software has been accepted both in Japan and abroad as a specialist tool to solve a wide range of complex problems in electromagnetic fields. AET works as the exclusive Japanese distributor of CST, also provides online support, training services and engineering services, which result in increased customer satisfaction.

With highly technical knowledge, a broad network and ingenious ideas, AET constantly strives to propose the best solution for each customer, aiming to contribute to the progress of human society.

Rsoft Design Group Japan KK

RSoft Design Group is the worldwide leader in photonic design automation software, and serves several industries including optical communication, optoelectronics, and semiconductor manufacturing. Within optical communications, RSoft is the only company to provide a full range of design, optimization, and planning tools. Within the physical layer, RSoft provides the most extensive collection of award-winning design tools for passive and active optoelectronic components and subsystems.

Tomoe Engineering Co.Ltd.

Nanonics Imaging Ltd.

Company Name: Tomoe Engineering Co., Ltd. / Nanonics Imaging Ltd.

Tomoe Engineering who is Japanese distributor of Nanonics Imaging Ltd. in Israel, would like to introduce unique SPM/NSOM system made by Nanonics:

Product Key word:

Multiprobe SPM/NSOM/Confocal; Optometronic 4000 Photonic Workstation, AFM/Raman/TERS;

AFM/SEM/FIB; Cryogenic NSOM/AFM/Raman

Product description:

Single/Multiprobe AFM/NSOM/SPM/Confocal Systems with transparent optical & electron/ion beam integration.

Multiprobe plasmonic, photonic, biological, electrical,

thermal characterization. On-line Raman/TERS, SEM, FIB, 10°K operation.

AFM/NSOM modes with Si or transparent fiber probes.

NanoTool Kit of optical, electric, thermal & nanochemical deposition probes with deep trench/side wall imaging.

Multiprobe Photonic/Plasmonic Characterization System and new revolutionary Hydra optical BioAFM.

Coherent Japan, Inc.

We are one of the world's leading suppliers of photonics-based solutions to a broad range of commercial and scientific research customers. We design, manufacture and market lasers, laser-based systems, precision optics and related accessories for a diverse group of customers.

Coherent is the only company to offer a complete line of ultrafast products:

- Oscillators
- Amplifiers

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The common element of our ultrafast lasers and accessories is that their cutting-edge performance is easily accessible — even for users without expertise in lasers — and ultrastable from day to day. For every user, it's Better Ultrafast Every Day.

EIKO Corporation

EIKO supports innovative technology over ten years by advanced vacuum products. EIKO Corporation has been supplying our products for domestic and overseas research facilities since 1974. Recently, EIKO makes contributions to research and development of micro-machines, semi-conductor, display, photovoltaic system and etc. We will challenge for innovative technology by the rich harvest reaped from our users.

Spectra-Physics K.K.

For nearly 50 years, Spectra-Physics® has been an industry-leading global supplier of advanced laser solutions to the scientific research, life and health sciences, microelectronics, solar, semiconductor, and industrial manufacturing markets. Our portfolio of high performance, high reliability products includes a wide range of ultrafast, Q-switched DPSS, CW and quasi-CW, high-energy pulsed, tunable, gas, and fiber-based lasers.

■ Mai Tai SP --- Short Pulse Ultrafast Oscillator

Mai Tai® SP ultrafast laser is the ultimate short-pulse oscillator with an unprecedented level of automation and long-term environmental stability. Designed for seeding ultrafast amplifiers, the Mai Tai SP laser is capable of producing a broad range of output bandwidths: 60 nm to 10 nm, corresponding to near transform-limited pulse widths from <25 fs to 100 fs. The bandwidth is user-adjustable via the Mai Tai SP graphical user interface (GUI). This unique feature allows for seeding sub-35 fs, 120 fs, and 2 ps amplifier systems using the same seed laser without manual realignment. Also adjustable via the GUI is the center wavelength from 780 to 820 nm.

CORNES DODWELL LTD.

CORNES DODWELL is constantly seeking innovative products and advanced technologies to introduce to the Japanese market in response to the needs of business and industry.

With a network of international partners that extends across the globe, CORNES DODWELL is able to bring to the attention of its customers the very best that the world has to offer.

In an era characterized by rapid change and advances in knowledge, CORNES DODWELL prides itself on a proven ability to respond swiftly, flexibly and successfully to the diverse requirements and demands of the modern business world.

CORNES DODWELL not only continues to work in support of Japan's economic growth but also to promote the development of friendly relationships and cultural exchanges between Japan and other countries.

CORNES DODWELL is also committed to the concept of corporate social responsibility (CSR) and to the adoption and strict application of policies designed to preserve and protect the environment.

Shimadzu Corporation

Shimadzu

— Thinking Globally

Shimadzu Corporation has been involved in activities at research institutes and in cutting-edge industrial fields throughout the world for many years. This global perspective is essential in many fields. For instance, in the environmental field, addressing problems at a global level is now indispensable, and in front-line medical fields, much research is now being pursued through international networks. In the industrial equipment fields of semiconductors and flat panel displays (FPDs), from development to production and distribution, international borders have effectively disappeared. In order to more precisely fulfill the demands of our customers, Shimadzu is striving to enrich our corporate activities by thinking globally. We are cultivating product development, production, and service bases all over the world as we work to provide our world-wide customer base with superior products and services. Shimadzu continues in its quest to become a corporation that is trusted on a global scale by people everywhere, in every global arena.

Cybernet Systems Co., Ltd.

CYBERNET SYSTEMS has provided advanced technologies and services in the areas of scientific engineering calculation and product development for over 30 years. Our CAE solutions provide a variety of analysis capabilities, including stress, heat, vibration and noise analysis for structures and mechanical products, control analysis for mechanical and telecommunications devices, optics design for optical lens and LED products, and electronic analysis for printed circuit boards.

As our optical software, we provide “Optiwave”, “Poynting for Optics”, “LightTools”, “setfos” and more.

“Optiwave” and “Poynting” for Optics provide design and simulation environment of opto-electronic circuits and optical communications. “Light Tools” and “setfos” provide very powerful optical solutions for kinds of Flat Panel Display, Light Source, Solar cell and materials.

Elionix Inc.

ELIONIX.Inc was established in 1974, 35 years ago, and has been oriented to Nanotechnology products. The company name “ELIONIX” comes from Electron, Ion and X-ray which are the technology equipped with our systems and have been continuously developed in our history. All of our products are designed for the ultra fine field and “One and Only” features, such as the 4nm pattern wiring by Electron Beam Lithography system, 3D measurement function by SEM or etc. These systems offer users opportunities to create new directions in their successful researches.

Regarding our Electron Beam Lithography systems, we have been continuously improving their performance since company establishment. Recently, we have released a new Electron Beam Lithography “ELS-F125”, which has 125 kV acceleration voltage, and has achieved 4nm line writing and very fine and uniform pattern in an entire large field with high beam current. This system is our landmark of “One and Only” policy and we intend to continue this policy of our performance.

Nanophoton Corporation

Nanophoton is an Osaka University's venture company established in February 2003 by people from diverse fields including science, engineering and managements. The specialty and skills brought by each person are different but we share the same dream, "Leading edge microscopes from Nanophoton!" Nanophoton is manufacturing new products to meet demands of the world by monitoring and responding to world trends. All members of Nanophoton aspire to open up leading edge technologies and to contribute to society through nanotechnologies and photonics applied products. Based on our philosophy to produce and market the world's best microscope, we have launched laser Raman microscope RAMAN-11. It is a world first laser Raman microscope realizing fast observation of high definition Raman imaging. It enables anyone to easily obtain the high quality Raman imaging in a short time due to the development of our original optical scanning method.

Cambridge University Press Japan

Cambridge University Press is the publishing business of the University of Cambridge, one of the world's leading research institutions. It is the oldest publisher and printer in the world, having been operating continuously since 1584. We aim to further, through publication and printing, the University of Cambridge's own objective of advancing learning, knowledge and research worldwide. With branches, offices and agents throughout the world, we are able to draw on a remarkable range of authors (currently around 40,000 from over 100 different countries) and to market and distribute material to readers everywhere. For further information, please see <http://www.cambridge.org/>

Speakers and tentative titles

Key Note Speaker

- M. Ohtsu (University of Tokyo, Japan), "Nanophotonics: Dressed photon technology for innovative devices, fabrications and systems"
- P. N. Prasad (State University of New York at Buffalo, USA), "Nanophotonics: Nanoscale control of Excitation Dynamics for New Applications in Healthcare and Energy"

Plenary Speakers

- F. Capasso (Harvard University, USA), "Subwavelength photonics: from light manipulation to quantum levitation at the nanoscale"
- S. Y. Chou (Princeton University, USA), "Subwavelength Photonics and Nanoimprint Technology – A Unique Path to Engineering New Optical Materials and Devices"
- J. T. Fourkas (University of Maryland, USA), "Achieving super-resolution in photolithography"
- T. F. Krauss (University of St. Andrews, UK), "Dispersion-engineered photonic crystal waveguides for enhanced light-matter interaction"
- C. Sibilia (Universita' degli Studi di Roma La Sapienza, Italy), "Nanoscale Nonlinear Optics"

Invited Speakers

- H. Chen (Tongji University, China), "Optical metamaterials based on multilayer dielectric structures"
- H. V. Demir (Bilkent University, Turkey), "Green nanophotonics to combat climate change"
- L. Han (National Institute for Materials Science, Japan), "Dye-sensitized Solar Cells with Nanotechnologies"
- Y. Harada (Kobe University, Japan), "Emission properties of excitons strongly localized to nitrogen pairs in GaAs"
- R. Heintzmann (King's college, UK), "Structured Illumination and Image Inversion Interferometry"
- C. Jagadish (The Australia National University, Australia), "III-V Semiconductor Nanowires for Optoelectronics Applications"
- A. V. Kabashin (Université de Méditerranée, France), "Nanoplasmonics for Biosensing"
- D. S. Kim (Seoul National University, South Korea), "Active Terahertz Nanoresonators"
- Y. Li (Peking University, China), "Dielectric-loaded surface plasmon-polariton nanowaveguides fabricated by two-photon polymerization"
- S. Y. Lin (Rensselaer Polytechnique Institute, USA), "Architectural nanophotonics and its impact on energy conversion"
- M. Lippitz (Max-Planck-Institute for Solid State Research, Germany), "Single nanoparticle detection with high-Q whispering gallery resonator Ultrafast spectroscopy of single plasmonic nanostructures: Nanoantennas for quantum emitters and nanomechanics"
- O. J. F. Martin (Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland), "Controlling light at the nanoscale with plasmonic antennas: applications for sensing and trapping"
- S. Matsui (University of Hyogo, Japan), "Room-temperature nanoimprint using HSQ and its applications"
- H. Misawa (Hokkaido University, Japan), "Photochemistry on Nanoengineered Gold Structures"
- N. Murase (National Institute of Advanced Industrial Science and Technology, Japan), "Assembled quantum dots in silica glass with bright photoluminescence"
- T. Nagao (National Institute for Materials Science, Japan), "Low-dimensional plasmons in metallic atom sheets, atom chains and nano-sheets"
- S. Noda (University of Kyoto, Japan), "Recent Progress of Manipulation of photons by photonic crystals"

- K. Ohkawa (Tokyo University of Science, Japan), "H₂ evolution from water by GaN photocatalyst"
- D. van Oosten (FOM Institute AMOLF, Netherland), "The electro-magnetic nature of light at the nanoscale"
- R. Quidant (ICFO-Institut de Ciencies Fotoniques, Spain), "Plasmon Nano-optics: Harnessing light and heat at the nanoscale for Biosciences"
- Y. Sakakibara (National Institute of Advanced Industrial Science and Technology, Japan), "Carbon Nanotube Nonlinear Photonics"
- X. Sun (Harbin Institute of Technology, China), "Coherent control of spontaneous emission of multi-level atom in artificial micro-nanostructured system"
- Y. Tachibana (University of Osaka, Japan), "Development of semiconductor quantum dot sensitized solar cells by controlling interfacial electron transfer kinetics"
- H. K. Tsang (Chinese University of Hong Kong, China), "Silicon nanophotonic waveguide devices"
- Y. Uehara (University of Tohoku, Japan), "Phonon detection using scanning tunneling microscope light emission spectroscopy"
- Y. Xiao (Peking University, China), "Single nanoparticle detection with high-Q whispering gallery resonator"
- J. Xue (University of Florida, USA), "Hybrid Photovoltaic Cells based Conjugated Polymers and CdSe Nanoparticles"
- S. Yagi (The University of Tokyo, Japan), "Recent progress on high-efficiency quantum dot solar cells"
- K. Yong (Pohang University of Science and Technology, South Korea), "Fabrication of heterostructured ZnO nanowires and applications: photochemical energy conversion and wettability"
- Q. Zhan (University of Dayton, USA), "Spiral plasmonic lens as a miniature circular polarization analyzer"
- L. Zhou (Fudan University, China), "Fractal plasmonic metamaterials for subwavelength imaging and perfect absorbing"
- X. Zhu (Peking University, China), "Characterization of Plasmonic Nanostructures by Using Scanning Near-field Optical Microscopy"

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photo by Satomu Saitou

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- Photo-catalysis physics/chemistry
- Nano-particle-assisted imaging
- Lab-on-a-chip photonics
- Nano-imaging/sensing
- Nano-material for lighting/display

• Nanophotonic structure for information technology

- Near-field optics
- Surface plasmonics, optical nano-antenna
- Photonic crystal, silicon photonics
- Negative index material
- Quantum dot, nano-whisker
- Non-linear optics in nano-structure
- Integrated nano-device/circuit
- THz nano-photonics

• Fabrication/characterization for nano-photonics

- 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

Important Dates:

Abstract submission deadline: January 31, 2010
Abstract acceptance date: March 10, 2010
Pre-registration deadline: April 30, 2010

Publications:

Selected submissions will be published in the Journal of Nonlinear Optical Physics and Materials (JONPM). JONPM is an international journal in English and is indexed by both SCI and EI.



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MAY30– JUNE3, 2010, TSUKUBA, JAPAN

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J. R. Leger USA
M. Loncar USA
X. Luo China
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V. ShalaeV USA
C. Sibilia Italy
Y. Sugimoto Japan
X. Sun China
L. Thylen Sweden
D. P. Tsai Taiwan
Q. Wang China
J. Xu China
J. Xue USA
G. Yang China
C. Zhou China

Speakers:

Keynote Speakers

- M. Ohtsu (Univ. of Tokyo, Japan)
- P. N. Prasad (SUNY at Buffalo, USA)

Plenary Speakers

- F. Cappaso (Harvard Univ., USA)
- S. Chou (Princeton Univ., USA)
- J. T. Fourkas (Univ. of Maryland, USA)
- S. Kawata (Univ. of Osaka, Japan)
- C. Sibilia (Univ. of Rome, Italy)
- T. Krauss (Univ. of St. Andrews, UK)

Invited Speakers

- D. L. Andrews (Univ. of East Anglia, UK)
- H. Chen (Tongji Univ., China)
- H. V. Demir (Bilkent Univ., Turkey)
- H. Giessen (Univ. of Stuttgart, German)
- L. Han (NIMS, Japan)
- R. Heintzmann (King' s College, UK)
- C. Jagadish (ANU, Australia)
- A. K-Y. Jen (Univ. of Washington, USA)
- D. Kim (Seoul National Univ., Korea)
- T. Kita (Kobe Univ., Japan)
- S. Y. Lin (Rensselaer Poly. Inst., USA)
- O. J. F. Martin (EPFL, Switzerland)
- S. Matsui (Univ. of Hyogo, Japan)
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- S. Noda (Univ. of Kyoto, Japan)
- K. Ohkawa (Tokyo Univ. of Sci., Japan)
- Y. Okada (Univ. of Tokyo, Japan)
- D. Oosten (FOM-Inst., Netherlands)
- R. Quidant (ICFO-The Inst. of Photonic Sci., Spain)
- X. Sun (Harbin Inst. of Technol., China)
- Y. Tachibana (Osaka Univ., Japan)
- H. K. Tsang (Chinese Univ. of Hong Kong, China)
- Y. Uehara (Univ. of Tohoku, Japan)
- Y. Xiao (Peking Univ., China)
- J. Xue (Univ. of Florida, USA)
- Y. Li (Peking Univ., China)
- K. Yong (Pohang Univ. of Sci. and Technol., Korea)
- L. Zhou (Fudan Univ., China)
- X. Zhu (Peking Univ., China)

Conference Topics:

• Nanophotonic material for bio/energy/environment

- Bio-molecular architecture
- Organic/inorganic solar cell
- Green nano-particle/composite
- Photo-catalysis physics/chemistry
- Nano-particle-assisted imaging
- Lab-on-a-chip photonics
- Nano-imaging/sensing
- Nano-material for lighting/display

• Nanophotonic structure for information technology

- Near-field optics
- Surface plasmonics, optical nano-antenna
- Photonic crystal, silicon photonics
- Negative index material
- Quantum dot, nano-whisker
- Non-linear optics in nano-structure
- Integrated nano-device/circuit
- THz nano-photonics

• Fabrication/characterization for nano-photonics

- 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

Important Dates:

Summary submission deadline: February 15, 2010
Summary acceptance date: March 10, 2010
Pre-registration deadline: April 30, 2010

Publications:

Selected submissions will be published in the Journal of Nonlinear Optical Physics and Materials (JONPM) JONPM is an international journals in English and are indexed by both SCI and EI.

For tentative titles of speakers, please visit <http://www.nims.go.jp/nanophoto2010/>

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PROGRAM AT A GLANCE

	Sun 30 May	Mon 31 May	Tues 1 June		Wed 2 June		Thurs 3 June	
8:30		Registration 8:00-8:40	8:30					
9:00	8:40	Opening Remarks	Tu-Opening Lectures		W-Opening Lectures		Th-A-1 THz/ Metamaterials	Th-A-3 Solar Cells 1
9:30	9:00	M-Opening Lectures	Plenary Lecture 2		Plenary Lecture 4			
10:00	10:00	Keynote Lecture 1	Plenary Lecture 3		Plenary Lecture 5			
10:30		Coffee break	Coffee break		Coffee break		Coffee break	
11:00	10:30	Keynote Lecture 2	Tu-A-1 Photonic Crystals/ Quantum Dots	Tu-A-2 Green Nanomaterials	W-A-1 Plasmon Resonance/ SERS	W-A-2 Nano- characterization	Th-A-2 Metamaterials	Th-A-4 Solar Cells 2
11:30	11:30	Plenary Lecture 1						
12:00	12:15						Closing Remarks 12:15-12:40	
12:30		Lunch	Lunch		Lunch			
13:00							~ 13:10	
13:30	13:30	M-P-1 Nanogrowth- fabrication 1	M-P-3 Materials for High-efficiency Nanophotonics 1	Tu-P-1 Plasmon Propagation/ Plasmonic Array 1	Tu-P-3 Nanosensing/ Biosensing 1	W-P-1 Plasmonic Nanoantenna and Nanowaveguide	W-P-2 Optical Control/ Plasmon Control	13:30
14:00	14:30							
14:30	14:45	Coffee break		Coffee break				Optional Tour 13:10-17:30 (Lunch in the bus)
15:00	15:30	M-P-2 Nanogrowth- fabrication 2	M-P-4 Materials for High-efficiency Nanophotonics 2	Tu-P-2 Plasmon Propagation/ Plasmonic Array 2	Tu-P-4 Nanosensing/ Biosensing 2	Coffee break		
15:30	16:00							15:45
16:00	16:15	Coffee break		Coffee break				16:15
16:30	16:30	M-P-5 Poster Session A 16:30-18:00	M-P-6 Tutorial Course 1	Tu-P-5 Poster Session B 16:30-18:00	Tu-P-6 Tutorial Course 2	W-P-3 Integrated Nanophotonics	W-P-4 SNOM Technology	17:45
17:00	17:30							
17:30	18:00							
18:00	18:30	Rooms open until 20:00		Rooms open until 20:00				18:30
18:30	19:00							
19:00	19:30	Reception 17:00-19:30				Banquet 18:30-20:30		
19:30	20:00							
20:00	20:30							20:30
20:30								

DETAILD PROGRAM

Monday, May 31, 2010		
Room : 3F 300 (Convention Hall)		
08:40-09:00	Opening Remarks Chair : Kazuaki Sakoda	
08:40-08:50	Welcome Address <u>Kiyoshi Asakawa</u> , Conference Co-chair	
08:50-09:00	<u>Tetsuji Noda</u> , Vice President of National Institute for Materials Science	
Monday-Opening Lectures Chair : Joseph W. Haus and Qihuang Gong		
09:00-10:00	Keynote Lecture 1 KN-1 Nanophotonics: Dressed photon technology for innovative devices, fabrications, and systems <u>M. Ohtsu</u> The University of Tokyo, Japan - 1 -	
10:00-10:30	Coffee Break	
10:30-11:30	Keynote Lecture 2 KN-2 Nanophotonics: Nanoscale Control of Excitation Dynamics for New Applications in Healthcare and Energy <u>Paras N. Prasad</u> The State University of New York at Buffalo, USA - 2 -	
11:30-12:15	Plenary Lecture 1 PL-1 Subwavelength Photonics and Nanoimprint Technology – A Unique Path to Engineering New Optical Materials and Devices <u>Stephen Y. Chou</u> Princeton University, USA - 3 -	
12:15-13:30	Lunch	
Room : 3F 300 (Convention Hall)		Room : 1F 102
13:30-14:30	M-P-1 : Nanogrowth-fabrication 1 Chair : Stephen Y. Chou	M-P-3 : Materials for High-efficiency Nanophotonics 1 Chair : Yukihiko Harada
13:30-14:00	IN-01 III-V Semiconductor Nanowires for Optoelectronics Applications <u>C. Jagadish</u> The Australian National University, Australia - 8 -	IN-03 Recent progress on high-efficiency quantum dot solar cells <u>Shuheii Yagi</u> and Yoshitaka Okada Saitama University, Japan - 10 -
14:00-14:30	IN-02 Room-temperature nanoimprint using HSQ and its application <u>Shinji Matsui</u> University of Hyogo, Japan - 9 -	IN-04 Assembled quantum dots in silica glass with bright photoluminescence <u>N. Murase</u> National Institute of Advanced Industrial Science and Technology, Japan - 11 -
14:30-14:45	Coffee Break	
14:45-16:15	M-P-2 : Nanogrowth-fabrication 2 Chair : Chennupati Jagadish and Shinji Matsui	M-P-4 : Materials for High-efficiency Nanophotonics 2 Chair : Hilmi Volkan Demir and Shuheii Yagi
14:45-15:00	O-01 Imprint-Mold-Cleaning by Vacuum Ultraviolet Light <u>M. Nakao</u> , M. Yamaguchi and S. Yabu National Institute of Information and Communications Technology, Japan - 40 -	O-07 Nanochain and nanosphere through organosilane mediated gold nanoparticles assembly <u>M. Khorasaninejad</u> and S. S. Saini University of Waterloo, Canada - 46 -
15:00-15:15	O-02 Wafer-Scale Highly Ordered Porous Alumina on Substrates <u>T. S. Kustandi</u> , W. W. Loh, H. Gao and H. Y. Low Agency for Science, Technology and Research (A*STAR), Singapore - 41 -	O-08 Optical property of erbium/bismuth co-doped zeolites <u>Zhenhua Bai</u> , Hong-Tao Sun, Takashi Hasegawa, Minoru Fujii, Fumiaki Shimaoka, Yuji Miwa, Minoru Mizuhata and Shinji Hayashi Kobe University, Japan - 47 -
15:15-15:30	O-03 Formation of reversible micro-structures in lithium niobate by femtosecond direct laser writing technique <u>V. Mizelkis</u> , W. Inami and Y. Kawata Shizuoka University, Japan - 42 -	O-09 Characters of MgX (X = Te, Se, S and O) clusters: conformations, bonding characters, absorption spectra and Orbitals <u>Shuhong Xu</u> , Chunlei Wang, Yiping Cui Southeast University, China - 48 -
15:30-15:45	O-04 Surface Patterning using Gold and Dielectric Nanoparticles Excited by Femtosecond Laser <u>M. Terakawa</u> and M. Obara Keio University, Japan - 43 -	O-10 On magneto-optical properties of the plasmonic heterostructures <u>V. I. Belotelov</u> , A. N. Kalish, V. A. Kotov, A. K. Zvezdin, I. A. Akimov and M. Bayer M.V. Lomonosov Moscow State University, Russia - 49 -

	Room : 3F 300 (Convention Hall)	Room : 1F 102
15:45-16:00	O-05 A CAD-integrated Approach for Micro Manufacturing with the Two-photon Polymerization Technique <u>Chih-Lang Lin</u> , Chin-Te Lin, Chao-Yaug Liao, Yue-Lun Yang, Patrice L. Baldeck and Tien-Tung Chung <i>National Taiwan University, Taiwan</i> - 44 -	O-11 Ultra-short optical pulse generation with single layer graphene <u>C. C. Lee</u> , G. Acosta, J. S. Bunch and T. R. Schibli <i>University of Colorado, USA</i> - 50 -
16:00-16:15	O-06 Fabrication of the Optical Fiber Incorporated with Zinc Oxide Nano-particles and its Optical Nonlinearity <u>Seongmin Ju</u> , Pramod R. Watekar, Seongmook Jeong, Youngwoong Kim and Won-Taek Han <i>Gwangju Institute of Science and Technology, Korea</i> - 45 -	O-12 Reliability Study of InGaN/GaN MQWs LEDs with different growth parameters <u>K. K. Leung</u> , W. K. Fong and C. Surya <i>The Hong Kong Polytechnic University, China</i> - 51 -
16:15-16:30	Coffee Break	
	Room : 3F 303, 304	Room : 1F 102
16:30-18:00	M-P-5 : Poster Session A	M-P-6 : Tutorial Course A
16:30-18:00	<p style="text-align: center;">P-A01 ~ P-A90</p> <p style="text-align: center;">- 101 ~ 189 -</p> <p style="text-align: center;">Room: open till 20:00</p>	<p style="text-align: center;">TU-1 Nanophotonics</p> <p style="text-align: center;"><u>Joseph W. Haus</u> and <u>Qiwen Zhan</u> <i>University of Dayton, USA</i></p>

Tuesday, June 1, 2010

Room : 3F 300 (Convention Hall)	
08:30-10:00	Tuesday-Opening Lectures Chair : Qiwen Zhan and Susumu Noda
08:30-09:15	<p style="text-align: center;">Plenary Lecture 2</p> <p>PL-2 Sub-wavelength Photonics: from light manipulation to quantum levitation at the nanoscale <u>Federiko Capasso</u> <i>Harvard University, USA</i> - 4 -</p>
09:15-10:00	<p style="text-align: center;">Plenary Lecture 3</p> <p>PL-3 Dispersion-engineered photonic crystal waveguides for enhanced light-matter interaction <u>Thomas F. Krauss</u> <i>University of St Andrews, UK</i> - 5 -</p>
10:00-10:30	Coffee Break
Room : 3F 300 (Convention Hall)	
10:30-12:15	Tu-A-1 : Photonic Crystals / Quantum Dots Chair : Thomas F. Krauss and Shawn-Yu Lin
10:30-11:00	<p>IN-05 Recent Progress of Manipulation of Photons by Photonic Crystals <u>S. Noda</u> <i>Kyoto University, Japan</i> - 12 -</p>
11:00-11:30	<p>IN-06 Emission properties of excitons strongly localized to nitrogen pairs in GaAs <u>Yukihiko Harada</u> and Takashi Kita <i>Kobe University, Japan</i> - 13 -</p>
11:30-11:45	<p>O-13 Angular emission pattern of photonic crystal micro-cavities <u>M. Abbarchi</u>, F. Intonti, F. Riboli, S. Vignolini, A. Vinattieri, L. Balet, L. H. Li, A. Gerardino, M. Francardi, A. Fiore and M. Gurioli <i>National Institute for Materials Science, Japan</i> - 52 -</p>
11:45-12:00	<p>O-14 Room temperature lasing behaviour at 1.55 μm on high quality factor ($Q>55000$) InP-based photonic crystal microcavities with quantum wires <u>L. J. Martínez</u>, B. Alén, I. Prieto, D. Fuster, Y. González, L. González, M. L. Dotor, L. E. Muñoz, M. Kaldirim and P. A. Postigo <i>Instituto de Microelectrónica de Madrid (IMM-CNM-CSIC), Spain</i> - 53 -</p>
12:00-12:15	<p>O-15 Plasmonic Waveguiding in Nano-metallic-wire-filled Photonic Crystal Fiber Taper <u>Z. X. Zhang</u>, M. L. Hu, K. T. Chan and Q. Y. Wang <i>The Chinese University of Hong Kong, China</i> - 54 -</p>
12:15-13:30	Lunch
Room : 3F 300 (Convention Hall)	
13:30-14:30	Tu-P-1 : Plasmon Propagation / Plasmonic Array 1 Chair : Hiroaki Misawa
13:30-14:00	<p>IN-09 Architectural nanophotonics and its impact on energy conversion <u>S. Y. Lin</u> and M.-L. Hsieh <i>Rensselaer Polytechnique Institute, USA</i> - 16 -</p>
14:00-14:30	<p>IN-10 Low-dimensional plasmons in metallic atom sheets, atom chains and nano-sheets <u>T. Nagao</u>, G. Han, C. Kubber, S. Yaginuma, C. Liu, C. Hoang, A. Pucci, D. Sanchez-Portal, S. Silkin, T. Inaoka <i>National Institute for Materials Science, Japan</i> - 17 -</p>
14:30-14:45	Coffee Break
Room : 1F 102	
10:30-12:15	Tu-A-2 : Green Nanomaterials Chair : Arup Neogi and Masayuki Futamata
10:30-11:00	<p>IN-07 H₂ evolution from water by GaN photocatalyst <u>Kazuhiro Ohkawa</u> <i>Tokyo University of Science, Japan</i> - 14 -</p>
11:00-11:30	<p>IN-08 Green nanophotonics to combat climate change <u>H. V. Demir</u> <i>Bilkent University, Turkey</i> - 15 -</p>
11:30-11:45	<p>O-16 Promotion of methane steam reforming under spectrally controlled irradiated thermal radiation <u>Y. Maegami</u>, F. Iguchi and H. Yugami <i>Tohoku University, Japan</i> - 55 -</p>
11:45-12:00	<p>O-17 Direct Nano-Bio Energy Transfer in Novel Biosensing Electrodes <u>M. Griep</u>, C. Friedrich and S. Karna <i>U. S. Army Research Laboratory, USA</i> - 56 -</p>
12:00-12:15	<p>O-18 High Efficiency Light Emitters and Receivers using Nanostructure- controlled Surface Plasmon Coupling <u>K. Okamoto</u>, R. Bardoux and Y. Kawakami <i>Kyoto University, Japan</i> - 57 -</p>
12:15-13:30	Lunch
Room : 1F 102	
13:30-14:30	Tu-P-3 : Nanosensing / Biosensing 1 Chair : Norio Murase
13:30-14:00	<p>IN-11 Single nanoparticle detection with high-Q whispering gallery resonator <u>Yun-Feng Xiao</u> <i>Peking University, China</i> - 18 -</p>
14:00-14:30	<p>IN-12 Nanoplasmonics for Biosensing <u>A. V. Kabashin</u> <i>Université de Méditerranée, France</i> - 19 -</p>
14:30-14:45	Coffee Break

	Room : 3F 300 (Convention Hall)	Room : 1F 102
14:45-16:15	Tu-P-2 : Plasmon Propagation / Plasmonic Array 2 Chair : Oliver J. F. Martin and Hideki Miyazaki	Tu-P-4 : Nanosensing / Biosensing 2 Chair : Yun-Feng Xiao and Andrei V. Kabashin
14:45-15:00	O-19 Directional and Polarization Properties of a Plasmonic Cross Nanoantenna <u>Dinesh Kumar V.</u> Indian Institute of Information Technology Design and Manufacturing, India - 58 -	O-25 SERS performance of silver nanoparticle patterns by masked ion-exchange process <u>Ya Chen</u> , Janne Jaakola, Antti Säynätjoki, Ari Tervonen and Seppo Honkanen Aalto University, Finland - 64 -
15:00-15:15	O-20 Plasmonic filters for snapshot infrared multispectral imaging <u>G. Vincent</u> , S. Collin, R. Haidar , S. Rommeluere, N. Bardou and J.-L. Pelouard The French aerospace lab, France - 59 -	O-26 Intracellular pH Sensing in Cells Using Fluorescence Lifetime Imaging of Fluorescent Proteins <u>T. Nakabayashi</u> , S. Oshita, R. Sumikawa, F. Sun, M. Kinjo and N. Ohta Hokkaido University, Japan - 65 -
15:15-15:30	O-21 Comparisons of Surface Plasmon Sensitivities in Gold Nanostructures Using a Multispectral Analysis <u>Kuang-Li Lee</u> and Pei-Kuen Wei Research Center for Applied Sciences, Academia Sinica, Taiwan - 60 -	O-27 SERS-based aqueous immunoassay realized with immune silica nanoparticles <u>C. Y. Song</u> , Z. Y. Wang, J. Yang, R. H. Zhang, H. Wu and Y. P. Cui Southeast University, China - 66 -
15:30-15:45	O-22 Super-Periodic Nanohole Array for Integrated Surface Plasmon Resonance Sensor <u>Junpeng Guo</u> , Hai Sheng Leong, Boyang Zhang, Yongbin Lin, Robert G. Lindquist and David J. Brady University of Alabama in Huntsville, USA - 61 -	O-28 Optical Assessment of the Intracellular "Nano" Organelles –The Mitochondria in Health and Disease <u>A. Mavevsky</u> Bar-Ilan University, Israel - 67 -
15:45-16:00	O-23 Polarization-Analyzing Image Sensor in 65nm CMOS Process <u>S. Shishido</u> , T. Noda, K. Sasagawa, T. Tokuda and J. Ohta Nara Institute of Science and Technology, Japan - 62 -	O-29 Fabrication of Au nanorings and their application to image quality improvement through localized surface plasmon resonance in optical coherence tomography <u>Hung-Yu Tseng</u> , Cheng-Kuang Lee, Shou-Yen Wu, Ting-Ta Chi, Kai-Min Yang, Jyh-Yang Wang, Yean-Woei Kiang, C. C. Yang and Meng-Tsan Tsai National Taiwan University, Taiwan - 68 -
16:00-16:15	O-24 Strong non-resonant photoluminescence enhancement in InGaN/GaN quantum wells with embedded Au nanocrystals <u>A. A. Krokhin</u> , A. Llopis, J. Lin, S. M. S. Pereira, T. Trindade, M. A. Martins, I. M. Watson and A. Neogi University of North Texas, USA - 63 -	O-30 Optical Properties of ZnO Nanoparticles Capped by Polyethylene Glycol S. Tachikawa, A. Noguchi, M. Hara, O. Odawara and <u>H. Wada</u> Tokyo Institute of Technology, Japan - 69 -
16:15-16:30	Coffee Break	
	Room : 3F 303, 304	Room : 1F 102
16:30-18 :00	Tu-P-5 : Poster Session B	Tu-P-6 : Tutorial Course B
16:30-18:00	P-B01 ~ P-B90 - 190 ~ 278 - Room: open till 20:00	TU-2 Nanostructures for Photovoltaics <u>Jiangeng Xue</u> University of Florida, USA

Wednesday, June 2, 2010

Room : 3F 300 (Convention Hall)	
08:30-10:00	Wednesday-Opening Lectures <i>Chair : Kazuaki Sakoda and Yiping Cui</i>
08:30-09:15	Plenary Lecture 4 PL-4 Nanoscale Nonlinear Optics C.Sibilia, A. Benedetti, A. Belardini, M. Centini, MC Larciprete, M. Bertolotti <i>Universita' degli Studi di Roma La Sapienza, Italy</i> - 6 -
09:15-10:00	Plenary Lecture 5 PL-5 Achieving super-resolution in photolithography J. T. Fourkas, L. Li, M. Stocker, R. R. Gattass, E. Gershgoren and H. Hwang <i>University of Maryland, USA</i> - 7 -
10:00-10:30	Coffee Break
Room : 3F 300 (Convention Hall)	
W-A-1 : Plasmon Resonance / SERS	Room : 1F 102
Chair : Xiudong Sun and Tadaaki Nagao	
Chair : John T. Fourkas and Xing Zhu	
10:30-11:00	IN-13 Plasmon Nano-optics: Harnessing Light and Heat at the Nanoscale for Biosciences <u>R. Quidant</u> <i>ICFO-Institut de Ciencies Fotoniques, Spain</i> - 20 -
11:00-11:30	IN-14 Photochemistry on Nanoengineered Gold Structures <u>H. Misawa</u> , K. Ueno, Y. Nishijima and Y. Yokota <i>Hokkaido University, Japan</i> - 21 -
11:30-11:45	O-31 Closely adjacent Ag nanoparticles formed by cationic dyes yielding enormous SERS activity <u>M. Futamata</u> , Y. Yu, T. Yanatori and T. Kokubun <i>Saitama University, Japan</i> - 70 -
11:45-12:00	O-32 Demonstration of strong localization of surface enhanced Raman scattering on individual symmetry-reduce metallic nanoparticles <u>J. Ye</u> , C. Chen, L. Lagae, G. Maes, G. Borghs and P. Van Dorpe <i>IMEC, Belgium</i> - 71 -
12:00-12:15	O-33 Surface enhanced Raman scattering spectra affected by the refractive index of media around single Ag nanoparticle dimmers <u>Tamitake Itoh</u> , Ken-ichi Yoshida, Asudevanpillai Biju, Mitsuru Ishikawa and Yukihiro Ozaki <i>National Institute of Advanced Industrial Science and Technology, Japan</i> - 72 -
12:15-13:30	Lunch
Room : 3F 300 (Convention Hall)	
W-P-1 : Plasmonic Nanoantenna and Nanowaveguide	Room : 1F 102
Chair : Markus Lippitz and Hon Ki Tsang	
Chair : Arkadii Krokhin and Koichi Okamoto	
13:30-14:00	IN-17 Controlling light at the nanoscale with plasmonic antennas: applications for sensing and trapping <u>Olivier J. F. Martin</u> <i>Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland</i> - 24 -
14:00-14:30	IN-18 Dielectric-loaded surface plasmon-polariton nanowaveguides fabricated by two-photon polymerization <u>Yan Li</u> , Zhaopei Liu, Haibo Cui, Hao Luo, Hong Yang, Qihuang Gong <i>Peking University, China</i> - 25 -
14:30-14:45	O-37 Surface Plasmon Polariton Enhancement in Ag Nanowire-Nanoantenna Optical Circuits <u>Zhe-yu Fang</u> , Chen-fang Lin, Shan Huang and Xing Zhu <i>Peking University, China</i> - 76 -
	IN-15 Structured Illumination and Image Inversion Interferometry K. Wicker, M. Walde, E. R. Oldewurtel, S. Boehme, L. Hirvonen, O. Mandula, S. Sindbert, G.U. Nienhaus and <u>R. Heintzmann</u> <i>King's College London, UK</i> - 22 -
	IN-16 Phonon detection using scanning tunneling microscope light emission spectroscopy <u>Y. Uehara</u> <i>Tohoku University, Japan</i> - 23 -
	O-34 Imaging of plasmon wavefunctions using scanning near-field optical microscope <u>K. Imura</u> and H. Okamoto <i>Waseda University, Japan</i> - 73 -
	O-35 Surface plasmon enhancement of coherent phonons in an ion-implanted graphite <u>I. Katayama</u> , S. Koga, J. Takeda, T. Shimada, S. Hishita, D. Fujita and M. Kitajima <i>Yokohama National University, Japan</i> - 74 -
	O-36 Near-Field CARS with Nanosphere <u>C. H. Raymond Ooi</u> <i>University of Malaya, Malaysia</i> - 75 -
	IN-19 Spiral plasmonic lens as a miniature circular polarization analyzer Weibin Chen, Zhi Wu, Don C. Abeysinghe, Robert L. Nelson and <u>Qiwen Zhan</u> <i>University of Dayton, USA</i> - 26 -
	IN-20 Coherent control of spontaneous emission of multi-level atom in artificial micro-nanostructured system <u>Xiudong Sun</u> , Bing Zhang, and Xiangqian Jiang <i>Harbin Institute of Technology, China</i> - 27 -
	O-42 Wavefront Control Using Spatially Modulated Aperture Arrays in Metal Films <u>L. Lin</u> , X. M. Goh and A. Roberts <i>University of Melborn, Australia</i> - 81 -

	Room : 3F 300 (Convention Hall)	Room : 1F 102
14:45-15:00	O-38 Modal Characteristics of Plasmonic Nanostrip Waveguides and Their Functional Devices <u>Hyun-Shik Lee</u> , Jun-Hwa Song and El-Hang Lee <i>Inha University, Korea</i> - 77 -	O-43 Tuning of Surface Plasmon Resonance Wavelengths by Structural Control of Inorganic Nanoparticles <u>T. Teranishi</u> , C. Li, M. Kanehara and S. Gwo <i>Univeristy of Tsukuba, Japan</i> - 82 -
15:00-15:15	O-39 Hybrid plasmonic waveguide in multilayer metallic-dielectric cylindrical nanostructure <u>Ying Gu</u> , Xiaoyong Hu, Baoqing Sun, Limin Tong and Qihuang Gong <i>Peking University, China</i> - 78 -	O-44 Colloidal nanoparticle ensembles trapped by a tightly focused laser beams with linear and radial polarizations <u>H. Daniel</u> , Ou-Yang, Joseph Junio, M. T. Wei, Yi Hu, Jack Ng and Qiwen Zhan <i>Lehigh University, USA</i> - 83 -
15:15-15:30	O-40 Metal-nanoshell/quantum-dot array waveguides with compensated loss <u>P. Holmström</u> , L. Thylén, and A. Bratkovsky <i>Royal Institute of Technology (KTH), Sweden</i> - 79 -	O-45 Light localization and delocalization in two-dimensional array of cavity-containing metallic nanoparticles <u>Z. L. Wang</u> , C. J. Tang, Z. Chen, H. Dong, P. Zhan and N. B. Ming <i>Nanjing University, China</i> - 84 -
15:30-15:45	O-41 Plasmonic Waveguide Filters Based on Tunneling Effects <u>Peng-Hsiao Lee</u> and Yung-Chiang Lan <i>National Cheng Kung University, China</i> - 80 -	O-46 Observation of higher band gap solitons in 2D photonic lattices <u>Daohong Song</u> , Cibo Lou, Jingjun Xu and Zhigang Chen <i>Nankai University, China</i> -85 -
15:45-16:15	Coffee Break	
	Room : 3F 300 (Convention Hall)	Room : 1F 102
16:15-17:45	W-P- 3 : Integrated Nanophotonics <i>Chair : Yan Li and Yoshimasa Sugimoto</i>	W-P-4 : SNOM Technology <i>Chair : Rainer Heintzmann and Yoichi Uehara</i>
16:15-16:45	IN-21 Carbon Nanotube Nonlinear Photonics <u>Y. Sakakibara</u> <i>National Institute of Advanced Industrial Science and Technology, Japan</i> - 28 -	IN-23 Characterization of Plasmonic Nanostructures by Using Scanning Near-field Optical Microscopy <u>X. Zhu</u> , Z. Y. Fang, S. Huang and F. Lin <i>Peking University, China</i> - 30 -
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18:30-20:30	Conference Banquet (Hotel Grand Shinonome)
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Thursday, June 3, 2010

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08:30-09:00	IN-25 Active Terahertz Nanoresonators <u>D. S. Kim</u> , Minah Seo, J. S. Kyoung, H. R. Park, H. S. Kim, K. J. Ahn, S. M. Koo, N. K. Park, B. J. Kim and H. T. Kim <i>Seoul National University, Korea</i> - 32 -	IN-29 Hybrid Photovoltaic Cells based Conjugated Polymers and CdSe Nanoparticles <u>Jiangeng Xue</u> , Renjia Zhou, Lei Qian, Ying Zheng, Jihua Yang, Aiwei Tang, and Paul H. Holloway <i>University of Florida, USA</i> - 36 -	
09:00-09:30	IN-26 Fractal plasmonic metamaterials for subwavelength imaging and perfect absorbing <u>Lei Zhou</u> <i>Fudan University, China</i> - 33 -	IN-30 Development of semiconductor quantum dot sensitized solar cells by controlling interfacial electron transfer kinetics <u>Y. Tachibana</u> <i>Osaka University, Japan</i> - 37 -	
09:30-09:45	O-51 Disordered terahertz metamaterials <u>Ranjan Singh</u> , Xinchao Lu, Jianqiang Gu, Zhen Tian and Weili Zhang <i>Oklahoma State University, USA</i> - 90 -	O-56 Efficient solid-state dye-sensitized solar cells based on a high molar extinction coefficient metal free sensitizer <u>Soo-Jin Moon</u> , Shaik M. Zakeeruddin, Peng Wang and Michael Grätzel <i>Swiss Federal Institute of Technology, Switzerland</i> - 95 -	
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Paras N. Prasad
The State University of New York at Buffalo, USA 2

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