

APNFO13 Time Table

July 28 (Thu.)	
14:00	Registration
15:00	Summer School Ann Roberts (The University of Melbourne) All-optical image processing with nanophotonics
15:55	Break
16:00	Summer School Din-Ping Tsai (City University of Hong Kong) Meta-lens: classical to quantum
16:55	Break
17:00	Summer School Hiromi Okamoto (Institute for Molecular Science) Imaging with local chiro-optical effects

17:55

July 29 (Fri.)

8:30	Registration	
9:00	Opening Remarks	
9:15	Plenary PL29-A1 Motoichi Ohtsu , <i>Research Origin for Dressed Photon, Japan</i> Off-shell science for dressed photons	
10:15	Coffee Break	
10:35	IL29-A2 Hajime Ishihara¹, Hidemasa Yamane², and Nobuhiko Yokoshi³ <i>1) Osaka University, Japan, 2) Kitasato University, Japan, 3) Osaka Metropolitan University, Japan</i> Interplay between plasmonic resonance and microscopic nonlocality of nanomaterials	IL29-B2 Min Gu, and Yinan Zhang <i>University of Shanghai for Science and Technology, China</i> High performance passive radiative cooling by artificial neuron network inverse design
11:05	OL29-A3 Yoshiaki Nishijima <i>Yokohama National University, Japan</i> Molecular assembled metasurfaces for molecular detection	OL29-B3 Yuta Annaka, and Kazuo Ogura <i>Niigata University, Japan</i> Selective excitation of spoof plasmon combining corrugated disk with corrugated waveguide
11:20	OL29-A4 Tomoya Kimura, Yoshito Y. Tanaka and Tsutomu Shimura <i>The University of Tokyo, Japan</i> Unidirectional radiation control of SHG from tailored plasmonic nanostructures	OL29-B4 Lukas Wesemann, Jon Rickett, Timothy J. Davis, and Ann Roberts <i>The University of Melbourne</i> Meta-optical devices as transmitting filters for real-time phase imaging
11:35	OL29-A5 Kazutaka Akiyoshi¹, Yui Maeda¹, Naoko Yamaguchi¹, Tatsuya Kameyama¹, Yasuyuki Tsuboi², Hajime Ishihara³, and Tsukasa Torimoto¹ <i>1) Nagoya University, Japan 2) Osaka City University, Japan, 3) Osaka University, Japan</i> Plasmonic thin-layer chromatography for precise separation of less-toxic multinary quantum dots by size, shape, and optical property	OL29-B5 Mu Ku Chen¹, Yuan Luo², Cheng Hung Chu^{2,3}, Sunil Vyas², Hsin Yu Kuo², Yu Hsin Chia², Xu Shi⁴, Takuo Tanaka³, Hiroaki Misawa⁴, and Din Ping Tsai¹ <i>1) City University of Hong Kong, Hong Kong, 2) National Taiwan University, Taiwan, 3) RIKEN, Japan, 4) Hokkaido University, Japan</i> Moiré meta-lens for optical sectioning fluorescence imaging system
11:50	Lunch	
13:20	IL29-A6 Toshiharu Teranishi <i>Kyoto University, Japan</i> New class of plasmonic alloy nanoparticles	IL29-B6 Pin Chieh Wu <i>National Cheng Kung University</i> High-performance flat optics with toroidal metasurfaces
13:50	OL29-A7 Yukie Yokota¹, Asuka Fujita¹, Ryosuke Kodama², Takumi Takatsuki², Kanami Fujisaki², and Kazuo Watanabe² <i>1) Sophia University, Japan, 2) Tokyo University of Science, Japan</i> Plasmonic properties of assembled Pd nanosheets	OL29-B7 Jingcheng Zhang, Mu Ku Chen, Xiaoyuan Liu, and Din Ping Tsai <i>City University of Hong Kong, Hong Kong</i> Meta-lenses for two dimensions and three dimensions arbitrary focusing
14:05	OL29-A8 Naoki Ichiji¹, Hibiki Kikuchi¹, Murat Yessenov², Kenneth L. Schepler², Ayman F. Abouraddy², and Atushi Kubo¹ <i>1) Univ. of Tsukuba, Japan, 2) Univ. of Central Florida, CREOL, Japan</i> Excitation and observation of the striped space-time surface plasmon polaritons	OL29-B8 Xiaoyuan Liu, Mu Ku Chen, Jingcheng Zhang, Yubin Fan, Jin Yao, Yao Liang, and Din Ping Tsai <i>City University of Hong Kong, Hong-Kong</i> An intelligent meta-device resolving magic stairs
14:20	OL29-A9 Shuting Ma¹, Ikuya Ando¹, Yuta Shimoda¹, Jiaqi Yang¹, Hidehiko Yoshida², Hitoshi Tabata¹, and Hiroaki Matsui¹ <i>1) The University of Tokyo, Japan, 2) Utsunomiya University, Japan</i> Surface lattice resonances in plasmonic arrays of ZnO:Ga for mid-infrared biosensing platform	OL29-B9 Kosuke Takaki, Satoshi Ikezawa, and Kentaro Iwami <i>Tokyo University of Agriculture and Technology, Japan</i> Development of an axicon metalens for the visible wavelength
14:35	Coffee Break	
15:05	OL29-A10 Sayako Maeda, Rei Niguma, Tetsuya Matsuyama, Kenji Wada, and Koichi Okamoto <i>Osaka Metropolitan University, Japan</i> Colorimetric LSPR sensor using Ag-NHoM structures	OL29-B10 Niken Priscilla¹, Wendy Lee¹, Lukas Wesemann¹, and Ann Roberts¹ <i>The University of Melbourne, Australia</i> Metasurfaces with high numerical aperture for optical signal processing
15:20	OL29-A11 Tenpei Morishita¹, K. Kobayashi^{1,2}, and A. Ishikawa¹ <i>1) University of Yamanashi, Japan, 2) University of Toyo, Japan</i> Relaxation dynamics of non-resonant excitation transfer phenomena based on steepest-entropy-ascent ansatz	OL29-B11 Hirotsugu Suzui¹, Kazuharu Uchiyama², Kingo Uchida³, Nicolas Chauvet¹, André Röhm¹, Ryoichi Horisaki¹, Hirokazu Hori² and Makoto Naruse¹ <i>1) The University of Tokyo, Japan, 2) University of Yamanashi, Japan, 3) Ryukoku University, Japan</i> Mathematical modeling of bending phenomena in photochromic single crystals by catastrophe theory
15:35	IL29-A12 Jeongyong Kim <i>Sungkyunkwan University (SKKU), Republic of Korea</i> Plasmon-enhanced valley polarization of monolayer MoS ₂ using continuous films of Au nanoparticles	IL29-B12 Hirokazu Hori¹, Kazuharu Uchiyama¹, Kingo Uchida², Hayato Saigo³, and Makoto Naruse⁴ <i>1) University of Yamanashi, Japan, 2) Ryukoku University, Japan, 3) Nagahama Institute of Bio-Science and Technology, Japan, 4) The University of Tokyo, Japan</i> Natural intelligence based on optical near-field excitation-transfer and Schubert calculus
16:05	IL29-A13 Hind Kadiri, Loic Le Cunff, Agnieszka Gwiazda, and Gilles Lérondel <i>University of Technology of Troyes, France</i> Advanced sub-wavelength structuring for multifunctional optical surfaces	IL29-B13 Kyoung-Duck Park <i>Pohang University of Science and Technology (POSTECH), Korea</i> Tip-enhanced cavity-spectroscopy
16:35	Break	
17:15	Poster Session 1 (online)	
18:45		

July 30 (Sat.)

9:00	<p>IL30-A1 Lesly V. Melendez, and Daniel E. Gómez <i>RMIT University, Australia</i> Asymmetric metal-semiconductor nanostructures for energy harvesting</p>	<p>IL30-B1 Mun Seok Jeong <i>Hanyang University, Republic of Korea</i> Investigation of defects in 2D nanomaterials with vibrational nanoscopy</p>
9:30	<p>IL30-A2 Tomova Oshikiri¹, Xu Shi², Masaru Nakagawa¹, and Hiroaki Misawa^{2,3} <i>1) Tohoku University, Japan, 2) Hokkaido University, Japan, 3) National Yang Ming Chiao Tung University, Taiwan</i> Efficient hot-hole transfer on metal/semiconductor interface under modal strong coupling condition</p>	<p>IL30-B2 Chih-Zong Deng, Ya-Lun Ho, Takashi Yatsui, Hitoshi Tabata, and Jean-Jacques Delaunay <i>The University of Tokyo, Japan</i> Light manipulation on a chip based on long-propagation-length guided surface waves</p>
10:00	<p>OL30-A3 Kenji Iida <i>Hokkaido University, Japan</i> Photoexcited Electron dynamics of Nanostructures Revealed by Theoretical and Computational Study</p>	<p>OL30-B3 Sotaro Nakamura, Chikara Ogawa, Takumi Aso, Satoshi Ikezawa, and Kentaro Iwami <i>Tokyo University of Agriculture and Technology, Japan</i> Improvement of focusing performance in a rotating varifocal Moiré metalens at visible wavelengths</p>
10:15	<p>OL30-A4 Eri Fudo, Atsuhiko Tanaka, and Hiroshi Kominami <i>Kindai University, Japan</i> H₂ evolution over Au/Ta₂O₅ plasmonic photocatalyst under cocatalyst-free conditions</p>	<p>OL30-B4 Sotatsu Yanagimoto¹, Naoki Yamamoto¹, Takumi Sannomiya¹, and Keiichiro Akiba^{1,2} <i>1) Tokyo Institute of Technology, Japan, 2) National Institutes for Quantum and Radiological Science and Technology, Japan</i> Analysis of the Purcell effect of nitrogen-vacancy centers in nanodiamonds coupled to Ag nanostructures</p>
10:30	Coffee Break	
10:50	<p>IL30-A5 Teng-Xiang Huang, Si-Si Wu, Mao-Feng Cao, Yi-Fan Bao, Xiao-Hui Peng, Xiang Wang, and Bin Ren <i>Xiamen University, China.</i> Probing the nano-defect related properties of 2D materials by tip-enhanced optical spectroscopy</p>	<p>IL30-B5 Zhaogang Dong <i>Institute of Materials Research and Engineering (IMRE), Singapore, National University of Singapore, Singapore</i> Dielectric and plasmonic resonances of Si nanoantennas</p>
11:20	<p>OL30-A6 Tamitake Itoh¹ and Yuko S. Yamamoto² <i>1) AIST, Japan, 2) JAIST, Japan</i> Surface enhanced Raman spectroscopy of one-dimensional hotspots along gap between two nanowires</p>	<p>OL30-B6 Katsuma Aoki, Hyo Adegawa, Satoshi Ikezawa, and Kentaro Iwami <i>Tokyo University of Agriculture and Technology, Japan</i> Arrayed Alvarez metalens for compound-eye imaging</p>
11:35	<p>OL30-A7 Hao Jin, Yuko S. Yamamoto <i>JAIST, Japan</i> SERS and DFT investigation of rare earth ions-citrate complexes on silver colloids</p>	<p>OL30-B7 Quan Shi¹, Hideki Fujiwara², Ryusei Osaka², Shin Kajita³, Ryo Yasuhara¹, Noriyasu Ohno⁴, and Hiroyori Uehara¹ <i>1) National Institute for Fusion Science, Japan, 2) Hokkai-Gakuen University, Japan, 3) The University of Tokyo, Japan, 4) Nagoya University, Japan</i> Plasma induced surface nanostructure on compound-semiconductors and its application of random laser</p>
11:50	Lunch	
13:20	<p>IL30-A8 Jino George, Pooja Bhatt, and Kuljeet Kaur <i>(IISER) Mohali, India</i> Polaritronics-charge transport through strong light-matter coupling</p>	<p>IL30-B8 Hui-Hsin Hsiao, and Ai-Yin Liu <i>National Taiwan Normal University, Taiwan</i> Ultra-sensitive refractive-index sensor based on all-dielectric toroidal metasurfaces</p>
13:50	<p>OL30-A9 Tomohiro Fukushima, Soushi Yoshimitsu, and Kei Murakoshi <i>Hokkaido University, Japan</i> Vibrational strong coupling of water for modulation of ionic conductivity</p>	<p>OL30-B9 Shigeru Kubota¹, Kenta Hiraga¹, Kensaku Kanomata¹, Bashir Ahmmad¹, Jun Mizuno², and Fumihiko Hirose¹ <i>1) Yamagata University, Japan, 2) Waseda University, Japan</i> Application of nano-optical engineering to trap light in thin-film organic solar cells</p>
14:05	<p>OL30-A10 Govind Daval¹, Ikki Morichika², and Satoshi Ashihara² <i>1) Banaras Hindu University India, 2) The University of Tokyo, Japan</i> Vibrational strong coupling in a nanoscale molecular-plasmonic system</p>	<p>OL30-B10 Yuji Arakawa¹, Kazuharu Uchiyama¹, Yuki Hashimoto², Kingo Uchida², Hirotsugu Suzui³, Makoto Naruse², and Hirokazu Hori¹ <i>1) University of Yamanashi, Japan, 2) Ryukoku University, Japan, 3) The University of Tokyo, Japan</i> Erasure and reformation of nano-photoisomerization pathways in photochromic single crystals</p>
14:20	<p>OL30-A11 Seiju Hasegawa, and Kohei Imura <i>Waseda University, Japan</i> Photoluminescence from gold nanorod and J-aggregates hybrids studied by scanning near-field optical microscopy</p>	<p>OL30-B11 Ryota Katsumi^{1,2}, Takeshi Hizawa¹, Akihiro Kuwahata^{2,3}, Takayuki Iwasaki⁴, Mutsuko Hatano⁴, Fedor Jelezko⁵, Masaki Sekino², and Takashi Yatsui^{1,2} <i>1) Toyohashi University of Technology, Japan, 2) The University of Tokyo, Japan, 3) Tohoku University, Japan, 4) Tokyo Institute of Technology, Japan, 5) Ulm University, Japan</i> Efficient photon extraction of NV centers in diamond by integrating Si₃N₄ grating structure on diamond</p>
14:35	Coffee Break	
15:05	<p>OL30-A12 Hiromi Okamoto <i>Institute for Molecular Science, Japan</i> Chiro-optical microscopic imaging and chiral near-field properties of plasmonic materials</p>	<p>OL30-B12 Kazuharu Uchiyama¹, Ryo Nakagomi¹, Hirotsugu Suzui², Kingo Uchida³, Makoto Naruse², and Hirokazu Hori¹ <i>1) University of Yamanashi, Japan, 2) The University of Tokyo, Japan, 3) Ryukoku University, Japan</i> Order structure recognition by optical near-field statistics via photoisomerized nano-structures</p>
15:20	<p>OL30-A13 Tatsuki Kokufu, Daichi Nakayama, Tetsuro Katayama, Koinkar Pankaj, and Akihiro Furube <i>Tokushima University, Japan</i> Characterization of tungsten sulfide nanosheets attached on gold nanoparticles modified SERS active substrates</p>	<p>OL30-B13 Rintaro Matsuda¹, Masateru Taniguchi², Sou Ryuzaki³ <i>1) Kyushu University, Japan, 2) ISIR, Japan, 3) Hokkaido University, Japan</i> Statistical analysis for surface molecules of exosomes by using a plasmonic nanopore devices</p>
15:35	<p>OL30-A14 Sen Zhang, Yongdi Dang, Xinran Li, Yuxuan Li, and Yungui Ma* <i>Zhejiang University, China</i> Rapid transient measurement of near-field thermal radiation in dissimilar bulk materials and metamaterials</p>	<p>OL30-B14 Hiromu Ishij and Toshiharu Saiki <i>Keio University, Japan</i> Two-color optical nanopore measurement to visualize overall translocation process of DNA</p>
15:50	Break	
16:00	<p>Plenary 2 PL30-A15 Isabelle Staude, University Jena, Germany Active photonic nanostructures empowered by 2D materials</p>	
17:00	Break	
17:10	<p>Poster Session 2 (in person)</p>	

July 31 (Sun)

9:00	IL31-A1 Wakana Kubo <i>Tokyo University of Agriculture and Technology, Japan</i> Plasmonic energy harvesting	IL31-B1 Takuya Iida, Shiho Tokonami, and Ikuhiko Nakase <i>Osaka Metropolitan University, Japan</i> Light-induced acceleration of biochemical reactions mediated by plasmonic nanoparticles
9:30	OL31-A2 Keiko Esashika, Hideyuki Mitomo, and Toshiharu Saiki <i>1) Keio University, Japan, 2) Hokkaido University, Japan</i> Tuning of gap distance of alkanethiol-modified AuNP dimers at Angstrom precision	OL31-B2 Takashi Takeuchi¹ and Kazuhiro Yabana² <i>1) RIKEN Cluster for Pioneering Research, Japan, 2) University of Tsukuba, Japan</i> Quantum hydrodynamic theory calculations for nonlinear optical response of metallic nanostructures
9:45	OL31-A3 Christophe Pin, Ryo Kakuta, and Keiji Sasaki <i>Hokkaido University, Japan</i> Phase transition-induced nonlinear optical trapping of VO ₂ nanoparticles	OL31-B3 Takeshi Iwasa^{1,2}, Masato Takenaka¹, Teppei Zengyo¹, and Tetsuya Taketsugu¹ <i>1) Hokkaido University, Japan, 2) JST-PRESTO</i> Theoretical near-field vibrational spectroscopy beyond the dipole approximation
10:00	OL31-A4 An-Chieh Cheng^{1,2}, Christophe Pin¹, Teruki Sugiyama², and Keiji Sasaki¹ <i>1) Hokkaido University, Japan, 2) National Yang Ming Chiao Tung University, Taiwan</i> Size dependence of nanostructures on plasmonic trapping-induced crystallization of NaClO ₃	OL31-B4 Atsushi Sugita, Kenshin Muroi, and Shunma Oh <i>Shizuoka University, Japan</i> Second-order nonlinear optics of noncollinearly arranged plasmonic Au nanorod dimer structure
10:15	Coffee Break	
10:35	IL31-A5 Takumi Sannomiva, and Taeko Matsukata <i>Tokyo Institute of Technology, Japan</i> Chiral light emission from circular plasmonic hole controlled by electron beam	IL31-B5 Po-Wen Tang¹, He-Chun Chou¹, Shiue-Yuan Shiau², Xin-Quan Zhang³, Yi-Hsien Lee³, and Chi Chen^{1*} <i>1) Academia Sinica, Taiwan, 2) National Center for Theoretical Sciences, Taiwan, 3) National Tsing-Hua University, Taiwan</i> Revealing the local band structures of lateral WS ₂ /MoS ₂ heterojunction and graded WxMo _{1-x} S ₂ alloy by near-field optical imaging
11:05	IL31-A6 Nozomi Hagiwara, Keiko Esashika, and Toshiharu Saiki <i>Keio University, Japan</i> Single-base-resolved and millisecond SERS sensing of DNA oligonucleotides using gold nanoparticle dimers under Brownian motion	IL31-B6 Yu-Jung Lu <i>1) Academia Sinica, Taipei Taiwan, 2) National Taiwan University, Taiwan</i> Gate-tunable plasmon-enhanced photodetection in a monolayer MoS ₂ phototransistor
11:35	OL31-A7 Junsuke Yamanishi, Hyo-Yong Ahn, Tetsuya Narushima, and Hiromi Okamoto <i>Institute for Molecular Science, Japan</i> Nanoscopic chiro-optical force imaging in photoinduced force microscopy	OL31-B7 Hivori Uehara¹, Akira Mori², Shuya Noda², Yoshiaki Nishijima³, Yasutaka Matsuo⁴, Shigeaki Tokita⁵, Ryo Yasuhara¹, Kenji Goya² <i>1) National Institute for Fusion Science, Japan, 2) Akita Prefectural University, Japan, 3) Yokohama National University, Japan, 4) Hokkaido University, Japan, 5) Kyoto University, Japan</i> Evanescent wave infrared sensing using a fluoride fiber
11:50	Closing Remarks	
12:05		