

May 19th (Mon)

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|             | Hitotsubashi Hall, Chair: Tanaka Takuo  |   |
| 9:30-10:05  | <b>Opening remarks</b> , Takuo Tanaka, <i>RIKEN (Japan)</i><br><b>Momories of Prof. Dai-Sik Kim for his contribution to Terahertz plasmonics</b> , Young-Mi Bahk, <i>Incheon National Univ. (Korea)</i>   |   |
| 10:05-10:50 | <b>PL1: Harry Atwater, California Inst. of Tech. (United States of America)</b><br><b>Wavefront Control with Active Metasurfaces</b>  |   |
|             | Group Photo   |   |
| 11:05-11:20 | Coffee Break  |   |
|             | Hitotsubashi Hall, Chair: Mark Luitzen Brongersma   | Conference Room, Chair: Ta-Jen Yen  |
| 11:20-11:55 | <b>K1: Stefan A. Maier, Monash Univ., Imperial College London (Australia)</b><br><b>Silicon carbide as a platform for mid-IR metasurfaces</b>   | <b>K2: Ortwin Hess, Trinity College Dublin, The Univ. of Dublin (Ireland)</b><br><b>Nanoplasmonic Strong Coupling for Quantum Nanophotonics</b>   |
| 11:50-12:25 | <b>I1: Danguyan Lei, City Univ. of Hong Kong (China)</b><br><b>Electron Hopping Induced Phonon Pumping in Plasmonic Nanojunctions</b>   | <b>I2: N. Asger Mortensen, Univ. of Southern Denmark (Denmark)</b><br><b>Mesoscopic Electrodynamics: Nonlocal Effects and Quantum Corrections in Surface-Polariton Systems</b>  |
| 12:25-14:25 | Lunch   |   |
|             | Hitotsubashi Hall, Chair: Stefan A. Maier   | Conference Room, Chair: Danguyan Le   |
| 14:25-15:00 | <b>K3: Mark Luitzen Brongersma, Stanford University (United States of America)</b><br><b>Nanomechanical Control of Plasmonic Antennas</b>   | <b>K4: Chun-Yen Chen<sup>1</sup>, Yu-Hsuan Cheng<sup>1</sup>, Alex Sam<sup>1</sup>, Arya Pilakunnath<sup>1</sup>, Takuo Tanaka<sup>2</sup>, ○Ta-Jen Yen<sup>1</sup>, 1. <i>NTHU (Taiwan)</i>, 2. <i>RIKEN (Japan)</i><br/> <b>Plasmonics for superior photodetector from MIR, NIR, VIS to UV regimes (HER)</b> </b>   |
| 15:00-15:30 | <b>I3: Yu-Jung Lu, Academia Sinica (Taiwan), National Taiwan Univ. (Taiwan)</b><br><b>Enhancing Photogating Gain in Scalable MoS<sub>2</sub> Plasmonic Photodetectors via Ceramic Plasmonic Metasurfaces</b>  | <b>I4: Olivier J.F. Martin, Swiss Federal Institute of Technology Lausanne (EPFL) (Switzerland)</b><br><b>Probing bound states in the continuum with fluorescence</b>   |
| 15:30-15:45 | <b>C1: Takayuki Umakoshi, The Univ. of Osaka (Japan)</b><br><b>High-speed AFM for near-field optical imaging</b>  | <b>C2: ○Aleksei Tsarapkin<sup>1</sup>, Luka Zurak<sup>2</sup>, Krzysztof Maćkosz<sup>3</sup>, Victor Deinhart<sup>1</sup>, Ivo Utke<sup>3</sup>, Thorsten Feichtner<sup>2</sup>, Katja Hoefflich<sup>1</sup>, 1. <i>Ferdinand-Braun-Inst. (FBH) (Germany)</i>, 2. <i>Univ. of Würzburg (Germany)</i>, 3. <i>Empa (Switzerland)</i><br/> <b>Double helical antennas for direct coupling to quantum emitters or plasmonic waveguides</b> </b>   |
| 15:45-16:15 | Coffee Break  |   |
|             | Hitotsubashi Hall, Chair: Yu-Jung Lu  | Conference Room, Chair: Olivier J.F. Martin   |
| 16:15-16:45 | <b>I5: Andrew Palmer, Yucheng Jin, Beyonce Hu, Harvey Lin, Jin Yan, Stuart Love, David Dang, ○Ho Wai Howard Lee, UC Irvine (United States of America)</b><br><b>Tunable Meta-Optical Fibers</b>   | <b>I6: ○Natalia M. Litchinitser<sup>1</sup>, Wenhao Li<sup>1</sup>, Jacob LaMountain<sup>2</sup>, Evan Simmons<sup>2</sup>, Anthony Clabeau<sup>3</sup>, Robel Y. Bekele<sup>3</sup>, Jason D. Myers<sup>3</sup>, Takashige Omatsu<sup>4</sup>, Jesse Frantz<sup>3</sup>, Viktor A. Podolskiy<sup>2</sup>, 1. <i>Duke Univ. (United States of America)</i>, 2. <i>Univ. of Massachusetts Lowell (United States of America)</i>, 3. <i>US Naval Research Lab. (United States of America)</i>, 4. <i>Chiba Univ. (Japan)</i><br/> <b>Nano-focusing of vortex beams with hyperbolic metamaterials</b> </b> |
| 16:45-17:15 | <b>I7: Hui-Hsin Hsiao, National Taiwan Univ. (Taiwan)</b><br><b>Strong Coupling between All-dielectric Metasurfaces and Epsilon-Near-Zero Modes for Third Harmonic Generation</b>   | <b>I8: Inki Kim, Sungkyunkwan Univ. (SKKU) (Korea)</b><br><b>Optical metasurfaces for continuous cell monitoring, molecular diagnostics, and 3D biomedical imaging</b>  |
| 17:15-17:30 | <b>C3: ○LiLi Gui<sup>1</sup>, Chuanshuo Wang<sup>1,2</sup>, Chao Meng<sup>2</sup>, Xianglong Mei<sup>1</sup>, Paul C. V. Thrane<sup>2,3</sup>, Hao Chen<sup>1</sup>, Fei Ding<sup>2</sup>, Kun Xu<sup>1</sup>, Sergey I. Bozhevolnyi<sup>2</sup>, 1. <i>Beijing Univ. of Posts and Telecommun. (China)</i>, 2. <i>Univ. of Southern Denmark (Denmark)</i>, 3. <i>SINTEF Smart Sensors and Microsystems (Norway)</i><br/> <b>MEMS-Metasurface-Enabled Dynamic Vortex Lasers</b> </b> | <b>C4: ○Atsushi Kubo<sup>1</sup>, Tsuyoshi Toyosawa<sup>1</sup>, Elizaveta Pyatenko<sup>2</sup>, Keiki Fukumoto<sup>2</sup>, 1. <i>Univ. of Tsukuba (Japan)</i>, 2. <i>High energy accelerator research organization (KEK) (Japan)</i><br/> <b>Enhanced multi-photon photoemission from Au plasmonic crystal</b> </b>   |
| 17:40-19:40 | Poster Session 1  |   |

May 20th (Tue)

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|             | Hitotsubashi Hall, Chair: Romain Quidant   |   |
| 9:00-9:45   | <b>PL2: Anatoly Zayats, King's College London (UK)</b><br><b>Spin-orbit Coupling and Topology of Evanescent Fields</b>   |   |
| 9:45-10:15  | Coffee Break   |   |
|             | Hitotsubashi Hall, Chair: Anatoly Zayats   | Conference Room, Chair: Hatice Altug  |
| 10:15-10:50 | <b>K5: Romain Quidant, ETH Zurich (Switzerland)</b><br><b>Nanophotonics-based optomechanics</b>  | <b>K6: Giulia Tagliabue, EPFL (Switzerland)</b><br><b>Harnessing Plasmonic Hot carriers and Semiconducting Metasurfaces for Light Energy Storage in Chemical Bonds</b>  |
| 10:50-11:20 | <b>I9: Javier Aizpurua, Donostia International Physics Center -DIPC- (Spain), Ikerbasque, Basque Foundation for Science (Spain), Univ. of the Basque Country -UPV/EHU- (Spain)</b><br><b>Engineering Strong Coupling between Vibrations and Infrared Nanocavities</b>  | <b>I10: Ju Young Kim<sup>1,2</sup>, Ruzan Sokhoyan<sup>2</sup>, Harry Atwater<sup>2</sup>, Min Seok Jang<sup>1,2</sup>, 1. Korea Advanced Institute of Science and Technology (KAIST) (Korea), 2. California Institute of Technology (Caltech) (United States of America)</b><br><b>Dynamic Phase-only Modulation with Transmissive Metasurfaces</b>  |
| 11:20-11:35 | <b>C5: Cherrie May Olaya<sup>1</sup>, Norihiko Hayazawa<sup>1</sup>, Maria Herminia Balgos<sup>1</sup>, Takuo Tanaka<sup>1,2</sup>, 1. RIKEN (Japan), 2. Tokushima Univ. (Japan)</b><br><b>Surface plasmon-enhanced angular photonic spin Hall effect</b>  | <b>C6: Lin Zhou, Jie Liang, Yan Jin, Jia Zhu, Nanjing Univ. (China)</b><br><b>Dynamic plasmonics with structured alkali metals</b>  |
| 11:35-11:50 | <b>C7: Line Jelver<sup>1</sup>, Joel D. Cox<sup>1,2</sup>, 1. Univ. of Southern Denmark (Denmark), 2. Danish Institute for Advanced Study (Denmark)</b><br><b>Thermally activated nonlinear plasmonics in graphene nanostructures</b>  | <b>C8: Yao Liang<sup>1</sup>, Yuri Kivshar<sup>2</sup>, Din Ping Tsai<sup>1</sup>, 1. City Univ. of Hong Kong (Hong Kong), 2. Australian National University (Australia),</b><br><b>Reducing Energy Loss in Nano-plasmonic Structures</b>   |
| 11:50-13:50 | Lunch  |   |
|             | Hitotsubashi Hall, Chair: Uriel Levy   | Conference Room, Chair: Giulia Tagliabue  |
| 13:50-14:25 | <b>K7: Peter Nordlander, Rice Univ. (United States of America)</b><br><b>Plasmon-Enhanced Photocatalysis for Green Chemistry</b>   | <b>K8: Hatice Altug, Felix Richter, Ivan Sinev, Jihye Lee, Mikhail Masharin, Abtin Saateh, Saeid Ansaryan, Deepthy Kavungal, Ecole Polytechnique Federale de Lausanne (Switzerland)</b><br><b>Integrated Metasurfaces for Life Science and Biomedical Applications</b>  |
| 14:25-14:55 | <b>I11: Andrei Bylinkin<sup>1,2</sup>, Sebastián Castilla<sup>3</sup>, Tetiana M. Slipchenko<sup>4,5</sup>, Kateryna Domina<sup>6</sup>, Francesco Calavalle<sup>1</sup>, Varun-Varma Pusapati<sup>3</sup>, Marta Autore<sup>1</sup>, Félix Casanova<sup>1,7</sup>, Luis E. Hueso<sup>1,7</sup>, Luis Martin-Moreno<sup>4,5</sup>, Alexey Y. Nikitin<sup>2,7</sup>, Frank H. L. Koppens<sup>3,8</sup>, Rainer Hillenbrand<sup>7,9</sup>, 1. CIC Nanogune BRTA (Spain), 2. Donostia Int'l Physics Center (DIPC) (Spain), 3. ICFO-Inst. de Ciències Fotòniques, The Barcelona Inst. of Sci. and Tech. (Spain), 4. Inst. de Nanociencia y Materiales de Aragon (INMA), CSIC-Univ. de Zaragoza (Spain), 5. Departamento de Física de la Materia Condensada, Univ. de Zaragoza (Spain), 6. Donostia Int'l Physics Center (DIPC) and EHU/UPV (Spain), 7. IKERBASQUE, Basque Foundation for Sci. (Spain), 8. ICREA—Inst. Catalana de Recerca i Estudis Avançats (Spain), 9. CIC nanoGUNE BRTA and EHU/UPV (Spain)</b><br><b>Hyperbolic Phonon Polaritons for Vibrational Strong Coupling and On-Chip Molecular Spectroscopy</b> | <b>I12: Yuan Luo, National Taiwan University (Taiwan)</b><br><b>Metasurface-Based Optical Elements for Biomedical Applications</b>  |
| 14:55-15:10 | <b>C9: Zee Hwan Kim, Seoul National Univ. (Korea)</b><br><b>Spectroscopic proof of the non-thermal reactant activation in plasmon-photocatalysis</b>   | <b>C10: Konstantin Malchow<sup>1,2</sup>, Sarah Hamdad<sup>1,2</sup>, Diana Singh<sup>1,2</sup>, Maciej Cwierzona<sup>3</sup>, Alexandre Bouhelier<sup>1,2</sup>, 1. CNRS (France), 2. Univ. Bourgogne (France), 3. Institute of Physics, Nicolaus Copernicus Univ. de Bourgogne (Poland)</b><br><b>Unraveling Biophoton-Like Properties and Light Emission Mechanisms in Memristive Optical Antennas</b> |
| 15:10-15:40 | Coffee Break   |   |
|             | Hitotsubashi Hall, Chair: Joel K. W. Yang  | Conference Room, Chair: Yuan Luo  |
| 15:40-16:10 | <b>I13: Oren Goldberg, Zetian Chen, Ronen Mazurski, Jacob Engelberg, Aharon Weiss, Noa Mazurski, Jagan Suraboina, Hanan Lugassy, Roy Maman, Uriel Levy, The Hebrew Univ. of Jerusalem (Israel)</b><br><b>Dielectric Metasurfaces: From new materials and geometries to tunability</b>  | <b>I14: Takuo Tanemura, Go Soma, Taichiro Fukui, Koto Ariu, Seidai Karakida, Univ. of Tokyo (Japan)</b><br><b>High-Speed Metasurface Modulators with Organic Electro-Optic Materials</b>  |

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| 16:10-16:25 | <p><b>C11:</b> ○Edoardo Vicentini<sup>1</sup>, Xabier Arrieta<sup>2</sup>, Martin Schnell<sup>1,4</sup>, Maria Barra Burillo<sup>1</sup>, Andrei Bylinkin<sup>1</sup>, Ruben Esteban<sup>2</sup>, Javier Aizpurua<sup>3,4,5</sup>, Rainer Hillenbrand<sup>1,4,5</sup>, 1. <i>CIC nanoGUNE (Spain)</i>, 2. <i>Materials Physics Center CSIC-UPV/EHU (Spain)</i>, 3. <i>Donostia International Physics Center (DIPC) (Spain)</i>, 4. <i>IKERBASQUE, Basque Foundation for Science (Spain)</i>, 5. <i>Univ. of the Basque Country (UPV/EHU) (Spain)</i></p> <p><b>Real-Space Observation of Ultrastrong Coupling Between Optical Phonons and Surface Plasmon Polaritons</b></p> | <p><b>C12:</b> George Trivizas<sup>1</sup>, Matthew Feinstein<sup>1</sup>, ○Euclides Almeida<sup>1,2</sup>, 1. <i>Queens College, City Univ. of New York (United States of America)</i>, 2. <i>The Graduate Center of the City Univ. of New York (United States of America)</i></p> <p><b>Tuning Nonlinear Metasurfaces Using Strong Fields</b></p> |
| 16:25-16:40 | <p><b>C13:</b> ○Shutao Zhang<sup>1,2,3</sup>, Joel K.W. Yang<sup>1</sup>, Zhaogang Dong<sup>1,2,3</sup>, 1. <i>Singapore Uni. of Tech. and Design (Singapore)</i>, 2. <i>Inst. of Materials Res. and Eng. (IMRE) (Singapore)</i>, 3. <i>National Uni. of Singapore (Singapore)</i></p> <p><b>Chalcogenide Metasurfaces Enabling Ultra-Wideband Detectors from Visible to Mid-infrared</b></p>  | <p><b>C14:</b> ○Shunsuke Murai, Jiayang He, Tienyang Lo, Katsuhisa Tanaka, <i>Kyoto Univ. (Japan)</i></p> <p><b>Spatial and Spectral Tuning of Photoluminescence with Surface Lattice Resonances</b></p>  |
| 17:00-19:00 | <b>Poster Session 2</b>  |   |

### May 21st (Wed)

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| Hitotsubashi Hall, Chair: Din Ping Tsai |   |   |
| 9:00-9:45                               | <p><b>PL3:</b> John Pendry, <i>Imperial College London (UK)</i></p> <p><b>Modulating Optical Properties in Time Using Plasmonic Resonances</b></p>  |   |
| 9:45-10:15                              | Coffee Break  |   |
| Hitotsubashi Hall, Chair: Haward Lee    |   | Conference Room, Chair: Hui-Hsin Hsiao  |
| 10:15-10:50                             | <p><b>K9:</b> Huanli Zhou<sup>1</sup>, Thomas A. Grant<sup>1</sup>, Cheng-Hung Chi<sup>1</sup>, S. Rotter<sup>2</sup>, Kevin F. MacDonald<sup>1</sup>, ○Nikolay I. Zheludev<sup>1,3</sup>, 1. <i>Univ. of Southampton (UK)</i>, 2. <i>TU Wien (Austria)</i>, 3. <i>Texas A&amp;M University (United States of America)</i></p> <p><b>Manipulating Fisher Information with Plasmonics in Optical Metrology</b></p> | <p><b>K10:</b> Joel K.W. Yang, <i>Singapore Univ. of Technology and Design (Singapore)</i></p> <p><b>3D Printing With Light For Light</b></p>   |
| 10:50-11:20                             | <p><b>I15:</b> Sergey Bozhevolnyi, <i>Univ. of Southern Denmark (Denmark)</i></p> <p><b>Generating High-Dimensional Quantum Structured Light</b></p>  | <p><b>I16:</b> Masashi Miyata, <i>NTT Device Technology Labs. (Japan)</i></p> <p><b>Meta-optics for High-sensitivity, Multicolor Imaging</b></p>  |
| 11:20-11:35                             | <p><b>C15:</b> ○Cruz I. Velasco<sup>1</sup>, F. Javier Garcia de Abajo<sup>1,2</sup>, 1. <i>ICFO - Institut de Ciències Fotoniques (Spain)</i>, 2. <i>ICREA - Institució Catalana de Recerca i Estudis Avançats (Spain)</i></p> <p><b>Quantum Sensing With Free-Electrons</b></p>   | <p><b>C16:</b> Marzia Ferrera<sup>1</sup>, Vincenzo Aglieri<sup>1</sup>, Xin Jin<sup>1</sup>, Thomas Girardet<sup>1</sup>, Elena Ghidorsi<sup>1,2</sup>, Jacopo Stefano Pelli Cresi<sup>1</sup>, ○Andrea Toma<sup>1</sup>, 1. <i>Istituto Italiano di Tecnologia (Italy)</i>, 2. <i>Università degli Studi di Genova (Italy)</i></p> <p><b>Exciton-Plasmon-Polaritons in Aperiodic Structures</b></p> |
| 11:35-11:50                             | <p><b>C17:</b> ○Christian Frydendahl<sup>1,2</sup>, Torgom Yezekyan<sup>2</sup>, Vladimir A. Zenin<sup>2</sup>, Sergey I. Bozhevolnyi<sup>2</sup>, 1. <i>Aarhus Univ. (Denmark)</i>, 2. <i>Univ. of Southern Denmark (Denmark)</i></p> <p><b>2D semiconductors as on-chip light sources for integrated nanophotonics</b></p>  | <p><b>C18:</b> ○Ruzan Sokhoyan<sup>1</sup>, Martin Thomaschewski<sup>1</sup>, Ju Young (David) Kim<sup>2</sup>, Min Seok Jang<sup>2</sup>, Harry A. Atwater<sup>1</sup>, 1. <i>California Inst. of Tech. (United States of America)</i>, 2. <i>Korea Advanced Inst. of Sci. and Tech. (Korea)</i></p> <p><b>Electro-Optically Tunable Active Transmissive Metasurfaces Using Lithium Niobate</b></p>  |
| 11:50-13:50                             | Lunch   |   |
| 13:50-19:00                             | Excursion   |   |
| 19:30-21:00                             | Banquet   |   |

May 22nd (Thu)

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|             | Hitotsubashi Hall, Chair: Naomi Halas   |   |
| 9:00-9:45   | <b>PL4:</b> Din Ping Tsai, <i>City Univ. of Hong Kong (China)</i><br><b>Meta Devices for Photonics and Quantum</b>  |   |
| 9:45-10:15  | Coffee Break  |   |
|             | Hitotsubashi Hall, Chair: Javier García de Abajo  | Conference Room, Chair: Teri W. Odom  |
| 10:15-10:50 | <b>K11:</b> Steven Huang, Aditya Mahalanabish, Dias Tulegenov, Giovanni Sartorello, Poting Shen, ○Gennady Shvets, <i>Cornell Univ. (United States of America)</i><br><b>Plasmonic Metasurface as an Imaging Device : Multi-spectral Infrared Microscopy with Vibrational Contrast</b>   | <b>K12:</b> Albert Polman, <i>NWO institute AMOLF (Netherlands)</i><br><b>Nanoscale 3D plasmon holography and tomography</b>  |
| 10:50-11:20 | <b>I17:</b> Shi-Wei Chu, <i>National Taiwan Univ. (Taiwan)</i><br><b>Nonlinear plasmonics and metaphotonics for super-resolution inspection</b>   | <b>I18:</b> Junsuk Rho, <i>POSTECH (Korea)</i><br><b>Metasurfaces for imaging, sensing and display</b>  |
| 11:20-11:35 | <b>C19:</b> ○Yuto Moritake <sup>1</sup> , Masaya Notomi <sup>1,2</sup> , 1. <i>Science Tokyo (Japan)</i> , 2. <i>NTT Corp. (Japan)</i><br><b>Loss-induced chiral phenomena in non-Hermitian metasurfaces</b>  | <b>C20:</b> ○Cheng Hung Chu <sup>1</sup> , Chen-Ming Tsai <sup>1</sup> , Takuo Tanaka <sup>2</sup> , Yuan Luo <sup>1</sup> , Din Ping Tsai <sup>3</sup> , 1. <i>National Taiwan Univ. (Taiwan)</i> , 2. <i>RIKEN (Japan)</i> , 3. <i>City Univ. of Hong Kong (Hong Kong)</i><br><b>Metasurface-based Digital Holographic Microscopy</b> |
| 11:35-11:50 | <b>C21:</b> ○Ethan Kensett, Wiebke Albrecht, <i>AMOLF (Netherlands)</i><br><b>Optical Tomography- reconstructing plasmonic structures below the diffraction limit</b>   | <b>C22:</b> Joel Cox, <i>Univ. of Southern Denmark (Denmark)</i><br><b>Nonreciprocal Plasmons in One-Dimensional Carbon Nanostructures</b>  |
| 11:50-13:50 | Lunch   |   |
|             | Hitotsubashi Hall, Chair: Pierre Berini   | Conference Room, Chair: Peter Nordlander  |
| 13:50-14:25 | <b>K13:</b> Javier García de Abajo, <i>ICFO-Institute of Photonic Sciences (Spain)</i><br><b>Quantum plasmonics with free electrons</b>   | <b>K14:</b> Teri W. Odom, <i>Northwestern Univ. (United States of America)</i><br><b>Chiral polaritons from plasmonic lattice cavities</b>  |
| 14:25-14:55 | <b>I19:</b> Zheyu Fang, <i>Peking Univ. (China)</i><br><b>Cathodoluminescence Spectroscopy For Nanophotonics</b>  | <b>I20:</b> ○Delia J. Milliron, Woo Je Chang, Zarko Sakotic, Tanay Paul, Thomas M. Truskett, Daniel Wasserman, <i>Univ. of Texas at Austin (United States of America)</i><br><b>Layer-by-Layer Photonic Metamaterials from Plasmonic Metal Oxide Nanocrystals</b>   |
| 14:55-15:10 | <b>C23:</b> ○Igor V Bondarev <sup>1</sup> , Svend-Age Biehs <sup>2</sup> , 1. <i>North Carolina Central Univ. (United States of America)</i> , 2. <i>Carl von Ossietzky Univ. (Germany)</i><br><b>Goos-Hänchen Effect Singularities in Transdimensional Plasmonic Films</b>   | <b>C24:</b> Ross Y. M. Wong <sup>1</sup> , ○Satoshi Ishii <sup>1, 2</sup> , 1. <i>NIMS (Japan)</i> , 2. <i>Univ. of Tsukuba (Japan)</i><br><b>Hyperbolic phonon polaritons for radiative heat transfer in solids</b>  |
| 15:10-15:40 | Coffee Break  |   |
|             | Hitotsubashi Hall, Chair: Delia J. Milliron   | Conference Room, Chair: Javier Aizpurua   |
| 15:40-16:10 | <b>I21:</b> Pierre Berini, <i>Univ. of Ottawa (Canada)</i><br><b>Plasmonic Catalysis: Lighting Up Pyrolytic Carbon</b>  | <b>I22:</b> Kentaro Iwami, <i>Tokyo Univ. of Agriculture and Technology (Japan)</i><br><b>Wavelength-multiplexed full-color metaholography made of silicon nitride</b>  |
| 16:10-16:25 | <b>C25:</b> ○Jun Nishida <sup>1</sup> , Akitoshi Shiotari <sup>2</sup> , Akihiro Otomo <sup>3</sup> , Ryota Iino <sup>1</sup> , Melanie Müller <sup>2</sup> , Takashi Kumagai <sup>1</sup> , 1. <i>Inst. for Molecular Science (Japan)</i> , 2. <i>Fritz Haber Inst. (Germany)</i> , 3. <i>Kyoto Univ. (Japan)</i><br><b>Sub-tip-radius near-field interactions in infrared and visible scattering scanning near-field optical microscopy</b> | <b>C26:</b> Elise Bailly, Jean-Paul Hugonin, Jean-Jacques Greffet, ○ Benjamin Vest, <i>Univ. Paris-Saclay, Institut d'Optique Graduate School, CNRS, Lab. Charles Fabry (France)</i><br><b>Controlling Far-Field Radiation with Photoluminescent Metasurfaces</b>   |
| 16:25-16:40 | <b>C27:</b> ○Yuanyang Xie, Alexey V. Krasavin, Diane J. Roth, Anatoly V. Zayats, <i>King's College London (UK)</i><br><b>Unidirectional scattering from chiral plasmonic nanoparticles</b>  | <b>C28:</b> ○A.J. Yates, Andrés Sánchez, Peter Nordlander, Naomi Halas, <i>Rice Univ. (United States of America)</i><br><b>Reduced Dimensionality AI Nanowires Have Virtual States on Thick Films</b>   |
| 17:00-19:00 | Poster Session 3  |   |

May 23rd (Fri)

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|-------------|---|---|
|             | Hitotsubashi Hall, Chair: Jason Gage Valentine  |   |
| 9:00-9:45   | <b>PL5:</b> Naomi J. Halas, <i>Rice Univ. (United States of America)</i><br><b>Machine Learning-Enhanced Surface-Enhanced Spectroscopies for Detecting Environmental Toxins</b>   |   |
| 9:45-10:15  | Coffee Break  |   |
|             | Hitotsubashi Hall, Chair: Joel Cox  | Conference Room, Chair: Pierre Berini   |
| 10:15-10:50 | <b>K15:</b> Hanyu Zheng <sup>1</sup> , Quan Liu <sup>1</sup> , Brandon Swartz <sup>1</sup> , Xiaomeng Zhang <sup>1</sup> , Ivan Kravchenko <sup>2</sup> , Yuankai Huo <sup>1</sup> , ○Jason Gage Valentine <sup>1</sup> , <i>1. Vanderbilt Univ. (United States of America), 2. Oak Ridge National Laboratory (United States of America)</i><br><b>Meta-optics for Edge Computing</b>   | <b>K16:</b> Junichiro Kono, <i>Rice University (United States of America)</i><br><b>Cavity Quantum Electrodynamics in the Ultrastrong Coupling Regime</b>   |
| 10:50-11:20 | <b>I23:</b> ○Alain Dereux, Juan Arocas, Gregory Gadret, <i>Université Bourgogne Europe (France)</i><br><b>Multilayer polaritons for radiative cooling devices</b>   | <b>I24:</b> ○Rakesh Arul, Akshay Rao, Jeremy Baumberg, <i>Univ. of Cambridge (UK)</i><br><b>Nanophotonics to control mid-infrared light and polariton condensation</b>  |
| 11:20-11:35 | <b>C29:</b> Minyu Chen <sup>1</sup> , Sylvie Marguet <sup>2</sup> , Davy Gérard <sup>1</sup> , Alexander Govorov <sup>3</sup> , ○Renaud Bachelot <sup>1,4</sup> , <i>1. Univ. of Tech. of Troyes (France), 2. Univ. of Paris Saclay (France), 3. Ohio Univ. (United States of America), 4. Nanyang Tech. Univ. (Singapore)</i><br><b>Near-field chirality in achiral gold nanotriangles observed and exploited by nanoscale plasmonic photopolymerization</b> | <b>C30:</b> ○Elena Titova <sup>1,2</sup> , Mikhail Kashchenko <sup>1,2</sup> , Dmitry Mylnikov <sup>2</sup> , Ivan Domaratskiy <sup>2</sup> , Andrey Miakonkikh <sup>3</sup> , Sergey Zhukov <sup>2</sup> , Kostya Novoselov <sup>4</sup> , Denis Bandurin <sup>4</sup> , Dmitry Svintsov <sup>2</sup> , <i>1. Center for Neurophysics and Neuromorphic Technologies (Russia), 2. Moscow Institute of Physics and Technology (Russia), 3. Valiev Institute of Physics and Technology RAS (Russia), 4. National Univ. of Singapore (Singapore)</i><br><b>Low-Frequency Plasmons in Gapped Bilayer Graphene Sub-Terahertz Phototransistor</b> |
| 11:50-12:45 | Closing remarks   |   |