

SPP9

The 9th International Conference on
Surface Plasmon Photonics

May 26 – May 31, 2019 Copenhagen, Denmark

Welcome to Scandic Copenhagen



Program SPP9, Sunday May 26

15:00 - 18:00 - Registration

17:00 - 18:00 - Welcome reception with snacks and drinks

HEIDELBERG
INSTRUMENTS

POLYTEKNIK 



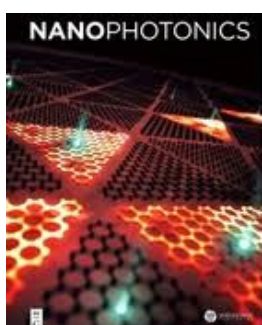
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Program SPP9, Monday 27 May

07:00-09:00	Registration	
09:00-09:15	Welcome with Professor Sergey I. Bozhevolnyi	
09:15-10:15	Thomas Ebbesen, Invited plenary speaker University of Strasbourg, France <i>Polaritons in Material Science</i> Room Grand Hall & Amalienborg	
10:15 - 10:45	Coffee Break	
	Sessions a room Grand Hall	Sessions b room Amalienborg
	Session 1a Metasurfaces 1 Chair: Din Ping Tsai	Session 1b Quantum Plasmonics 1 Chair: Martijn Wubs
10:45 - 11:20	Federico Capasso, Invited speaker Harvard University, Massachusetts, US <i>Polariton Metasurface Optics</i> presented by Michele Tamagnone	Francisco J García-Vidal, Invited speaker Universidad Autónoma de Madrid, Spain <i>Organic molecules strongly coupled to plasmonic cavities</i>
11:20 - 11:45	Peining Li CIC Nanogune, Spain <i>Infrared hyperbolic metasurface based on nanostructured van der Waals materials</i>	Benjamin Vest Institut d'Optique Graduate School, France <i>Revisiting quantum optics with single surface plasmons</i>
12:00 - 13:30	Lunch	
	Session 2a Metasurfaces 2 Chair: Joel Yang	Session 2b Quantum Plasmonics 2 Chair: Antonio Fernández-Domínguez
13:30 - 14:05	Hatice Altug, Invited speaker EPFL Lausanne, CH <i>Nanophotonic Metasurfaces for Biosensors and Bioimaging</i>	Jeremy Baumberg, Invited speaker University of Cambridge, UK <i>Plasmonic Nano-Actuators: Moving Nanomachines by Light</i>
14:05 - 14:30	Jose Garcia-Guirado ICFO, Spain <i>Enantio-Selective Sensing Using Plasmonic Racemic Arrays</i>	Ya-Lun Ho University of Tokyo, Japan <i>On-chip fabricated non-transfer plasmonic-waveguide nanolaser</i>
14:30 - 14:50	Inki Kim Carlsberg Foundation Scholarship POSTECH, South Korea <i>Geometric metasurfaces enabled transformative flat optical devices</i>	Xiao Xiong Carlsberg Foundation Scholarship A*STAR, Singapore <i>Quantum plasmonic immunoassay sensin</i>
14:50 - 15:20	Coffee Break	
	Session 3a Bio Sensing Chair: Alain Dereux	Session 3b Graphene Plasmonics 1 Chair: Joel Cox
15:20 - 15:55	Romain Quidant, Invited speaker ICFO, Spain <i>Dielectric nanoresonators for reconfigurable planar optics and biosensing</i>	Frank Koppens, Invited speaker ICFO, Spain <i>Topological plasmons, polaritonic metasurfaces and twist-plasmonics</i>
15:55 - 16:20	Oara Neumann Rice University, Texas, US <i>Plasmonic Nanostructures for Imaging & Targeting Drug Delivery</i>	Dmitri Svintsov Moscow Institute of Physics and Technology, Russia <i>Plasmon-assisted terahertz detection in graphene transistors</i>
16:20 - 16:40	Jacob Engelberg Carlsberg Foundation Scholarship Hebrew University of Jerusalem, Israel <i>Near-IR Wide Field-of-View Huygens Metalens for Outdoor Imaging Applications</i>	Álvaro Cuartero Carlsberg Foundation Scholarship Universidad Autónoma de Madrid, Spain <i>Light-Forbidden Transitions in Plasmon-Emitter Interactions beyond the Weak-Coupling Regime</i>
18:00 - 19:00	City Hall Reception	

Program SPP9, Tuesday 28 May

	Sessions a room Grand Hall	Sessions b room Amalienborg
	Session 4a Quantum Plasmonics 3 Chair: Maiken Mikkelsen	Session 4b Electron- Plasmon Interactions 1 Chair: Nicolas Stenger
09:00 - 09:35	Teri W. Odom, Invited speaker Northwestern University, Illinois, US <i>Conformal Solid-state Emitters Coupled to Plasmonic Nanoparticle Arrays</i>	Jennifer A. Dionne, Invited speaker Stanford University, California, US <i>The Light Years: Combined optical and environmental electron microscopy to visualize plasmonic processes with atomic-scale resolution</i>
09:35 - 10:00	Tomas Neuman University of the Basque Country / CSIC, Spain <i>Controlling molecular vibrations through resonant surface-enhanced Raman scattering</i>	Valerio Di Giulio ICFO, Spain <i>Probing out-of-equilibrium optical excitations with fast electrons</i>
10:00 - 10:20	Adriana Canales Ramos Carlsberg Foundation Scholarship Chalmers University of Technology, Sweden <i>Collective Strong Light-Matter Coupling in Hierarchical Microcavity-Plasmon-Exciton Systems</i>	Marty Oelschläger Carlsberg Foundation Scholarship Humboldt University Berlin, Germany <i>Non-conservative Dispersion Forces and Collective Interface Plasmon- Polaritons</i>
10:15 - 10:45	Coffee Break	
	Session 5a Quantum Plasmonics 4 Chair: Anatoly Zayats	Session 5b Graphene Plasmonics 2 Chair: Philippe Tassin
10:40 - 11:15	Uriel Levi, Invited speaker The Hebrew University of Jerusalem, Israel <i>Nanophotonics for enhancing light-vapor interactions</i>	Javier F. García de Abajo, Invited speaker ICFO, Spain <i>Plasmonics in Two-Dimensional Crystals</i>
11:15 - 11:40	Eduardo Brioso Dias ICFO, Spain <i>Fundamental limits in the coupling between light and 2D polaritons using point and line scatterers</i>	Sanshui Xiao Technical University of Denmark, Denmark <i>Graphene plasmonic photodetector with the bandwidth beyond 110 GHz</i>
12:00 - 13:30	Lunch	
13:15 - 13:30	Neaspec presentations, room Grand Ball	
	Session 6a Novel Phenomena & Applications 1 Chair: Uriel Levy	Session 6b Graphene Plasmonics 3 Chair: Javier García de Abajo
13:30 - 14:05	Mark Brongersma, Invited speaker Stanford University, California, US <i>Optical Emission and Absorption Near a Metasurface Mirror</i>	Rainer Hillenbrand, Invited speaker CIC nanoGUNE, Spain <i>Phonon Polariton Nanophotonics based on 2D Materials</i>
14:05 - 14:30	Shai Tseses Technion, Israel <i>Optical skyrmions: a new texture of light</i>	Pablo Alonso-González University of Oviedo, Spain <i>In-Plane Anisotropic and Ultra-Low Loss Polaritons in a Natural van der Waals Crystal</i>
14:30 - 14:50	Souvik Ghosh Carlsberg Foundation Scholarship Indian Institute of Science, India <i>Active nanomanipulation with magnetically actuated mobile plasmonic nanotweezers</i>	Aleksandr Petrov Carlsberg Foundation Scholarship Moscow Institute of Physics and Technology, Russia <i>Perturbation theory for two-dimensional hydrodynamic plasmons</i>
14:50 - 15:10	Coffee Break	
	Session 7a Electron- Plasmon Interactions 2 Chair: Mark Brongersma	Session 7b Novel Plasmonic Materials 1 Chair: Jer-Shing Huang
15:10 - 15:45	Alexandre Bouhelier, Invited speaker CNRS, France <i>Electrically-connected optical tunnel antennas as atom-scale transducers</i>	Alexandra Boltasseva, Invited speaker Purdue University, Indiana, US <i>Tailorable Nanophotonics with 2D and Transdimensional Materials</i>
15:45 - 16:10	Philippe Tassin Chalmers University, Sweden <i>Asymmetric plasmon propagation and propagation length enhancement in current-carrying graphene</i>	Katja Hoeflich Helmholtz-Zentrum Berlin für Materialien und Energie, Germany <i>The resonant behavior of a single plasmonic helix</i>
16:10 - 16:35	Philip Trøst Kristensen Humboldt-Universität zu Berlin, Germany <i>Second quantization of plasmonic resonators using quasinormal modes</i>	Joel Douglas Cox University of Southern Denmark <i>Nonlinear atom-plasmon interactions enabled by nanostructured graphene</i>
16:35 - 17:10	Anatoly V. Zayats, Invited speaker King's College London, UK <i>Hot-electron effects in electrically-driven plasmonic nanostructures: sensing, chemistry and artificial synapses</i>	Nicholas X. Fang, Invited speaker Massachusetts Institute of Technology, Massachusetts, US <i>Quasi-2D Plasmons in Optical Coatings: From Emission Engineering to NanoKirigami</i> presented by Ali Ramazani

Program SPP9, Wednesday 29 May

	Sessions a room Grand Hall	Sessions b room Amalienborg
	Session 8a Novel Phenomena & Applications 2 Chair: Mark Stockman	Session 8b Novel Plasmonic Materials 2 Chair: Jacob Khurgin
09:00 - 09:35	Nikolay I. Zheludev, Invited speaker University of Southampton, UK <i>"Plasmonics" in free space & atomic-scale far-field all-optical displacement metrology</i>	Harald Giessen, Invited speaker University of Stuttgart, Germany <i>In-Situ Thin Film Nanoscale Hydrogenography in Magnesium Plasmonics</i>
09:35 - 10:10	Nader Engheta, Invited speaker University of Pennsylvania, Pennsylvania, US <i>4D Metamaterials: Salient Features and Potential Applications</i>	Alexandre Dmitriev, Invited speaker University of Gothenburg, Sweden <i>Magnetic, chemical and electrical steering of the nanoscale optical antennas</i>
10:10 - 10:40	Coffee Break	
	Session 9a Ultrafast & Nonlinear Phenomena 1 Chair: Nikolay I. Zheludev	Session 9b Hot Electrons 1 Chair: Hatice Altug
10:40 - 11:15	Mark Stockman, Invited speaker Georgia State University, Georgia, US <i>Quantum Solids in Ultrafast Strong Laser Fields: Topological Phenomena</i>	Jacob Khurgin, Invited speaker Johns Hopkins University, Maryland, US <i>Short yet eventful life of hot carriers in plasmonic metals</i>
11:15 - 11:40	Lei Shi Fudan University, China <i>Observation of Polarization Vortices in Momentum Space</i>	Julian Gargiulo Imperial College London, UK <i>Measuring the energy of plasmonic hot-holes by single particle electrochemistry</i>
11:40 - 12:00	Emanuele Galiffi Carlsberg Foundation Scholarship Imperial College London, UK <i>Singular Graphene Metasurfaces</i>	Aurélian John-Herpin Carlsberg Foundation Scholarship EPFL, Switzerland <i>Plasmon-enhanced infrared spectroscopy for highly sensitive molecular studies in complex biosystems</i>
13:00 - 18:00	Excursion (with lunch bag or sandwiches before leaving)	
19:00 - 00:00	Conference Dinner at Scandic Copenhagen	

Program SPP9, Thursday 30 May

	Sessions a room Grand Hall	Sessions b room Amalienborg
	Session 10a Quantum Plasmonics 5 Chair: Pierre Berini	Session 10b Ultrafast & Nonlinear Phenomena 2 Chair: Peter Norlander
09:00 - 09:35	Vladimir I Shalaev, Invited speaker Purdue University, Indiana, US <i>High-speed, room-temperature quantum nanophotonics on a hybrid plasmonic-dielectric platform</i>	Christoph Lienau, Invited speaker Carl von Ossietzky University in Oldenburg, Germany <i>Watching electrons move: Towards ultrafast microscopy with novel plasmon-based light and electron sources</i>
09:35 - 10:10	Timur Shegai, Invited speaker Chalmers University of Technology, Sweden <i>Strong plasmon-exciton interactions at a single nanoantenna level</i>	Jean-Jacques Griffet Invited speaker CNRS, France <i>Strong coupling of nano platelets and surface plasmon</i>
10:10 - 10:35	Coffee Break	
	Session 11a Quantum Plasmonics 6 Chair: Oliver Benson	Session 11b Novel Phenomena & Applications 3 Chair: Alejandro Manjavacas
10:35 - 11:10	Päivi Törmä, Invited speaker Alto University, Finland <i>Bose-Einstein condensation and K-point lasing in plasmonic lattices</i>	John Pendry, Invited speaker Imperial College, UK <i>Singularities and their limitations for field enhancement</i>
11:10 - 11:35	Niclas Sven Mueller Freie Universität Berlin, Germany <i>Plasmon-Polaritons in the Ultrastrong Coupling Regime in Gold Nanoparticle Crystals</i>	Jared Strait National Institute of Standards and Technology, Maryland, US <i>Revisiting the photon-drag effect in metal films</i>
11:35 - 12:00	Tigran Shahbazyan Jackson State University, Mississippi, US <i>Cooperative emission mediated by energy transfer to a plasmonic antenna</i>	Eliran Talker The Hebrew University of Jerusalem, Israel <i>Observation of plasmonic enhanced EIT and velocity selective optical pumping measurements with atomic vapor</i>
12:00 - 13:30	Lunch	
13:15 - 13:30	Asger Sellerup Jensen, NKT presentations room Grand Ball	
	Session 12a Hot Electrons 2 Chair: Naomi Halas	Session 12b Metasurfaces 3 Chair: Päivi Törmä
13:30 - 14:05	Peter Nordlander, Invited speaker Rice University, Texas, US <i>Plasmon-induced hot carrier generation, relaxation, and applications</i>	Thomas Zentgraf, Invited speaker University of Paderborn, Germany <i>Nonlinear metasurface holography and imaging</i>
14:05 - 14:30	Alexander Block ICFO, Spain <i>Tracking Ultrafast Hot Electron Diffusion in Space and Time by Ultrafast Thermo-modulation Microscopy</i>	Alexander S. Roberts University of Southern Denmark, Denmark <i>Laser Writing of Bright Colors on Near-Percolation Plasmonic Reflector Arrays</i>
14:30 - 14:50	Taeko Matsukata Carlsberg Foundation Scholarship Tokyo Institute of Technology, Japan <i>Higher-order electric and magnetic multipole modes visualized by STEM-Cathodoluminescence</i>	Marie Rider Carlsberg Foundation Scholarship Imperial College London, UK <i>Topological quantum dots: a novel platform for Quantum Optics</i>
14:50 - 15:10	Coffee Break	
	Session 13a Ultrafast & Nonlinear Phenomena 3 Chair: Jean-Jacques Greffet	Session 13b Novel Plasmonic Materials 3 Chair: Alexandra Boltasseva
15:10 - 15:45	Javier Aizpurua, Invited speaker Material Physics Center CSIC-UPV/EHU, Spain <i>Ultrafast Photocurrents Induced by Single-Cycle Optical Pulses in Plasmonic Nanogaps</i>	Shanhui Fan, Invited speaker Stanford University, California, US <i>Aspects of plasmonic device theory: absence of one-way modes in non-reciprocal plasmonics, and graphene plasmonic reflectors</i>
15:45 - 16:10	Fumihiko Kannari Keio University <i>Fabrication and in situ evaluation of nano graphene wire employing ultrafast nanofocused surface plasmon polariton pulses</i>	Debdatta Ray EPFL, Lausanne, Switzerland <i>Extending the limits of conventional plasmonics with low temperature alloying of noble metals</i>
16:10 - 16:45	Alejandro Manjavacas, Invited speaker University of New Mexico, New Mexico, US <i>Collective effects on periodic arrays of plasmonic nanostructures</i>	Naomi Halas, Invited speaker Rice University, Texas, US <i>Sustainable Plasmonics: a focus on Aluminum</i>
18:00 - 21:00	Poster Session with sandwiches and beverages	

Program SPP9, Friday 31 May

	Sessions a room Grand Hall	Sessions b room Amalienborg
	Session 14a Plasmonic Devices 1 Chair: Thomas Zentgraf	Session 14b Novel Phenomena & Applications 4 Chair: Vladimir Shalaev
09:00 - 09:35	Harry Atwater, Invited speaker California Institute of Technology, California, US <i>Tunable Plasmonic Interactions in Graphene: Perfect Absorption, Near Field Modulation and Bright Spontaneous Emission</i>	Francesco De Angelis, Invited speaker Istituto Italiano di Tecnologia, Italy <i>3D plasmonic nanostructures for hybrid bio-interfaces</i>
09:35 - 10:00	Martin Thomaschewski University of Southern Denmark, Denmark <i>All-plasmonic directional coupler modulator based on strip-loaded waveguides on lithium niobate</i>	Andre-Pierre Blanchard-Dionne EPFL, Lausanne, Switzerland <i>Machine Learning for Color Generation Using Plasmonic Materials</i>
10:10 - 10:40	Coffee Break	
	Session 15a Plasmonic Devices 2 Chair: Harry Atwater	Session 15b Metasurfaces 4 Chair: Francesco De Angelis
10:40 - 11:05	Evangelia Chatzianagnostou Aristotle University of Thessaloniki, Greece <i>An Integrated Plasmo-photonic Interferometric Sensor for High-Sensitivity Refractometric Sensing</i>	Yuan Sheng Fang UC Berkeley, California, US <i>A Novel Layer-by-Layer Approach for Fabrication of Graded Plasmonic Gratings for Infrared Spectroscopy</i>
11:05 - 11:30	Christian Haffner ETH Zurich, CH <i>High-Quality Hybrid-Plasmonic Resonators for Low-Speed Applications</i>	Shunsuke Murai Kyoto University, Japan <i>Enhanced photoluminescence and directional white-light generation by plasmonic arrays on phosphor plates</i>
11:30 - 12:00	Closing Ceremony. Goodbye with a "To go lunch bag"	