

Tuesday, August 30

Michele Pujol Room - A

| | |
|--------------------|---|
| 8:45-9:00 | Opening Ceremony - Alex Brolo |
| 9:00-9:30 | Plenary: W. Bowen |
| | Chair: Vahid Sandoghdar |
| 9:30-10:30 | Session A1: Novel Theoretical Approaches to Nano-optics |
| | Chair: Ruben Esteban |
| 9:30-10:00 | S. De Liberato - Invited |
| 10:00-10:15 | C. Lanza |
| 10:15-10:30 | J. Ren |
| 10:30-11:00 | Coffee Break - Vertigo Room |
| 11:00-12:00 | Session A2: Metamaterials and Metasurfaces I |
| | Chair: Yuri Kivshar |
| 11:00-11:30 | G. Bartal - Invited |
| 11:30-11:45 | E. Bailly |
| 11:45-12:00 | M. Liebrau |
| 12:00-12:30 | Session A3: Photochemistry and Hot Electrons I |
| | Chair: Pierre Berini |
| 12:00-12:15 | O. Henrotte |
| 12:15-12:30 | G. W. Leach |
| 12:30-1:30 | Lunch - Vertigo Room |
| 1:30-2:30 | Session A4: 2D Materials I |
| | Chair: Pablo Alonso-González |
| 1:30-2:00 | A. Jorio - Invited |
| 2:00-2:15 | M. Obst |
| 2:15-2:30 | P. Tang |
| 2:30-5:00 | Session A5: Enhanced Spectroscopies (Fluorescence, IR, THz, Raman) |
| | Chair: Markus Raschke |
| 2:30-2:45 | Y. Sivan |
| 2:45-3:00 | C. Maciel Escudero |
| 3:00-3:30 | Coffee Break - Vertigo Room |
| 3:30-5:00 | Enhanced Spectroscopies (Fluorescence, IR, THz, Raman) - Cont. |
| 3:30-3:45 | R. Esteban |
| 3:45-4:00 | canceled |
| 4:00-4:15 | J. Aizpurua |
| 4:15-4:30 | T. Saiki |
| 4:30-4:45 | A. G. Brolo |
| 4:45-5:00 | M. E. Temperini |
| 5:00-7:00 | Poster Session A Vertigo Room |

Tuesday, August 30

Michele Pujol Room - A

| | |
|--------------------|---|
| 9:30-10:30 | Session B1: Nanoplasmonics and Optical Antennas I |
| | Chair: Jer-Shing Huang |
| 9:30-10:00 | C. Galland - Invited |
| 10:00-10:15 | canceled |
| 10:15-10:30 | M. Becker |
| 10:30-11:00 | Coffee Break - Vertigo Room |
| 11:00-12:00 | Session B2: Nanoimaging I |
| | Chair: Guillaume Baffou |
| 11:00-11:30 | A. Polman - Invited |
| 11:30-11:45 | canceled |
| 11:45-12:00 | A. Arbouet |
| 12:00-12:15 | canceled |
| 12:15-12:30 | N. Granchi |
| 12:30-1:30 | Lunch - Vertigo Room |
| 1:30-2:30 | Session B3: Biophotonics and Emerging Applications (Energy, Info, Bio) I |
| | Chair: Frank Vollmer |
| 1:30-2:00 | K. Crozier - Invited |
| 2:00-2:15 | K. Uchiyama |
| 2:15-2:30 | N. Fardian-Melamed |
| 2:30-2:45 | M. Bénédice |
| 2:45-5:00 | Session B4: Nanoplasmonics and Optical Antennas II |
| | Chair: Christophe Galland |
| 2:45-3:00 | D. Friedrich |
| 3:00-3:30 | Coffee Break - Vertigo Room |
| 3:30-5:00 | B4: Nanoplasmonics and Optical Antennas II - Cont. |
| 3:30-3:45 | P. Pertsch |
| 3:45-4:00 | R. Mayer |
| 4:00-4:15 | P. A. Gonçalves |
| 4:15-4:30 | G. P. Acuna |
| 4:30-4:45 | M. Mayer |
| 4:45-5:00 | L. Abou-Hamdan |
| 5:00-7:00 | Poster Session A Vertigo Room |

Tuesday, August 30 - Oral Sessions (see NFO16 website for abstracts)

| Session | Title | Author First Name | Author Last Name | Author Organization |
|---|---|-------------------|------------------|--|
| Session A1: Novel Theoretical Approaches to Nano-optics - Chair: Rebun Esteban | | | | |
| A1-1 | Invited: Nanophotonics and Optoelectronics with surface phonon polaritons | Simone | De Liberato | University of Southampton, United Kingdom |
| A1-2 | Anisotropic Polaritons in Heterostructures made of Rotated Thin Layers and Dielectric Spacers | Christian | Lanza | Universidad de Oviedo, Spain |
| A1-3 | Quasinormal mode theory of Purcell factors and chiral radiation from nanophotonic resonators near an exceptional point | Juanjuan | Ren | Queen's University, Canada |
| Session B1: Nanoplasmonics and Optical Antennas I - Chair: Jer-Shing Huang | | | | |
| B1-1 | Invited: Mid-IR to Visible Optomechanical Transduction with Molecules in a Nanocavity | Christophe | Galland | Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland |
| B1-2 | canceled | | | |
| B1-3 | Using a novel scanning probe technique to strongly couple a single quantum dot to a tunable plasmonic nanogap antenna at room-temperature | Michael | Becker | Max Planck Institute for the Science of Light, Germany |
| Session A2: Metamaterials and Metasurfaces I - Chair: Yuri Kivshar | | | | |
| A2-1 | Invited: Topological transitions and surface umklapp scattering in periodically- modulated metasurfaces beyond the effective medium | Guy | Bartal | Technion - Israel institute of technology, Israel |
| A2-2 | Quantitative modelling and engineering of photoluminescence from light-emitting metasurfaces via absorption calculations | Elise | Bailly | Institut d'Optique, France |
| A2-3 | Nanophotonics controlling free-electron-light-matter interactions | Matthias | Liebtrau | NWO-Institute AMOLF, The Netherlands |
| Session A3: Photochemistry and Hot Electrons I - Chair: Pierre Berini | | | | |
| A3-1 | 2D chemical mapping of light driven reactions by plasmonic nanostructures | Olivier | Henrotte | RCPTM - CATRIN, Palacký University Olomouc, Czech Republic |
| A3-2 | Hot Electron Extraction Enabled by Single-Crystal Metal Films and Nanostructures | Gary W. | Leach | Simon Fraser University, Canada |
| Session B2: Nanoimaging I - Chair: Guillaume Baffou | | | | |
| B2-1 | Invited: Holography, nanothermometry, and quantum correlations in extreme near fields probed with high-energy electrons | Albert | Polman | NWO-institute AMOLF, The Netherlands |
| B2-2 | canceled | | | |
| B2-3 | Inelastic in-line holography in an ultrafast electron microscope | Arnaud | Arbouet | CEMES-CNRS, France |
| B2-4 | canceled | | | |
| B2-5 | Near-field optical study of Hyperuniform Disordered photonic structures | Nicoletta | Granchi | European Laboratory for Non-linear Spectroscopy, LENS, Italy |
| Session A4: 2D Materials I - Chair: Pablo Alonso-González | | | | |
| A4-1 | Invited: TERS study of phonon localization in low-angle twisted bilayer graphene and other two-dimensional Systes | Ado | Jorio | Universidade Federal de Minas Gerais, Brazil |
| A4-2 | THz-Light Canalization by Phonon Polaritons in 2D van der Waals Materials | Maximilian | Obst | Technische Universität Dresden, Germany |

| Session | Title | Author First Name | Author Last Name | Author Organization |
|--|--|-------------------|------------------|---|
| A4-3 | Imaging the Bandgap Shifting in WxMo1-xS2 by Near-Field Broadband Transmittance Microscopy | Po-Wen | Tang | Academia Sinica, Taiwan |
| Session B3: Biophotonics and Emerging Applications (Energy, Info, Bio) I - Chair: Frank Vollmer | | | | |
| B3-1 | Invited: Nanophotonics-Enabled Mid-Infrared Microspectrometers For Chemical Identification and Related Topics | Kenneth | Crozier | University of Melbourne, Australia |
| B3-2 | Order Structure Recognition by Schubert Polynomials Generated by Optical Near-Field Statistics via Nanometer-Scale Photochromism | Kazuharu | Uchiyama | University of Yamanashi, Japan |
| B3-3 | Seeing the Forces: Single Avalanching Upconverting Nanoparticles as Ultrasensitive Local Force Transducers | Natalie | Fardian-Melamed | Columbia University, United States |
| B3-4 | Imaging life at high temperature enabled by plasmonic heating | Maëlle | Bénéfice | Institut Fresnel - CNRS, France |
| Session A5: Enhanced Spectroscopies (Fluorescence, IR, THz, Raman) - Chair: Markus Raschke | | | | |
| A5-0 | “Hot” Photoluminescence from metals – theory and comparison to experiments | Yonatan | Sivan | Ben-Gurion University, Israel |
| A5-1 | Probing vibrational strong coupling with tip-enhanced near-field spectroscopy | Carlos | Maciel Escudero | CIC NanoGUNE - BRTA, Spain |
| A5-2 | Molecular optomechanics to address the Raman signal from organic molecules in complex plasmonic nanocavities | Rubén | Esteban | Center for Material Physics (CSIC – UPV/EHU), Spain |
| A5-3 | canceled | | | |
| A5-4 | Atomically-resolved luminescence mapping of Lamb shift, Stark and Purcell effects from a single chromophore-picocavity junction | Javier | Aizpurua | Center for Materials Physics (CSIC-UPV/EHU) and DIPC, Spain |
| A5-5 | Single-millisecond SERS measurement of DNA oligonucleotides with single-base resolution using gold nanoparticle dimers under Brownian motion | Toshiharu | Saiki | Keio University, Japan |
| A5-6 | Dynamic Single-Molecule SERS Fluctuations in an Aqueous Environment | Alexandre G. | Brolo | University of Victoria, Canada |
| A5-7 | Exosome detection using a double resonant nanoantenna device in the mid-infrared range | Maria Eleonora | Temperini | Sapienza University of Rome, Italy |
| Session B4: Nanoplasmonics and Optical Antennas II - Chair: Christophe Galland | | | | |
| B4-1 | Strong coupling of semiconductor nanocrystals with plasmonic resonators at ambient conditions | Daniel | Friedrich | University of Würzburg, Germany |
| B4-2 | Tunable nano-plasmonic photodetectors | Patrick | Pertsch | University of Würzburg, Germany |
| B4-3 | Engineering polariton launchers for nanophotonic chips | Rafael | Mayer | Brazilian Synchrotron Light Laboratory (LNLS), Brazil |
| B4-4 | Harnessing electron beams to unveil quantum effects in nanoplasmonics | P. André | Gonçalves | ICFO - The Institute of Photonic Sciences, Spain |
| B4-5 | Unidirectional DNA-origami based ultracompact optical antennas for single molecule emission | Guillermo Pedro | Acuna | University of Fribourg, Switzerland |
| B4-6 | Conformational Dynamics of Single Proteins – Exciting Opportunities with Plasmonic Optical Tweezers | Michael | Mayer | University of Fribourg, Switzerland |
| B4-7 | Near- and far-field properties of few element mid-infrared subwavelength antennas | Loubnan | Abou-Hamdan | Institut Langevin/ONERA, France |

Wednesday, August 31

Michele Pujol Room - A

| | |
|--------------------|---|
| 9:00-9:30 | Plenary: T. Odom |
| | Chair: James Schuck |
| 9:30-10:30 | Session A6: Metamaterials and Metasurfaces II |
| | Chair: Demelza Wright |
| 9:30-10:00 | Y. Kivshar - Invited |
| 10:00-10:15 | D. Norris |
| 10:15-10:30 | B. Fix |
| 10:30-11:00 | Coffee Break - Vertigo Room |
| 11:00-12:30 | Session A7: Ultra-fast Studies |
| | Chair: Paolo Biagioni |
| 11:00-11:15 | M. Raschke |
| 11:15-11:30 | W. Luo |
| 11:30-11:45 | T. van Gogh |
| 11:45-12:00 | E. J. C. Dias |
| 12:00-12:30 | Session A8: Quantitative Phase Imaging |
| | Chair: Francesca Intonti |
| 12:00-12:15 | K. Braun |
| 12:15-12:30 | G. Baffou |
| 12:30-1:30 | Lunch - Vertigo Room |
| 1:30-3:00 | Session A9: Metamaterials and Metasurfaces III |
| | Chair: Stefan Maier |
| 1:30-2:00 | R. Quidant - Invited |
| 2:00-2:15 | F. Lamaze |
| 2:15-2:30 | F. Intonti |
| 2:30-2:45 | Y. Abate |
| 2:45-3:00 | M. Saad Bin-Alam |
| 3:00-7:00 | Excursion- Butchart Gardens |
| | Banquet - Delta Hotels by Marriott Victoria |
| | Awards: Best Paper Tuesday & Wednesday |

Wednesday, August 31

Michele Pujol Room - B

| | |
|--------------------|--|
| 9:30-10:30 | Session B5: Other Emerging Areas of Near-field Optics and Nanophotonics I |
| | Chair: Bert Hecht |
| 9:30-10:00 | J. Baumberg - Invited |
| 10:00-10:15 | G. Arend |
| 10:15-10:30 | R. Mayer |
| 10:30-11:00 | Coffee Break - Vertigo Room |
| 11:00-12:30 | Session B6: Nanoplasmonics and Optical Antennas III |
| | Chair: Alexandre Bouhelier |
| 11:00-11:15 | R. Hillenbrand |
| 11:15-11:30 | canceled |
| 11:30-11:45 | J. Meier |
| 11:45-12:00 | Y. Vaddi |
| 12:00-12:15 | M. Noordam |
| 12:15-12:30 | K. Lindfors |
| 12:30-1:30 | Lunch - Vertigo Room |
| 1:30-3:00 | Session B7: Enhanced Spectroscopies (Fluorescence, IR, THz, Raman) |
| | Chair: Andrea Centrone |
| 1:30-2:00 | V. Apkarian - Invited |
| 2:00-3:00 | Session B8: Quantum Emitters and Quantum Plasmonics |
| | Chair: Andrea Centrone |
| 2:00-2:15 | R. Bachelot |
| 2:15-2:30 | A. Rodriguez Echarri |
| 2:30-2:45 | C. Tserkezis |
| 2:45-3:00 | A. Nodar |
| 3:00-7:00 | Excursion- Butchart Gardens Banquet - Delta Hotels by Marriott Victoria Awards: Best Paper Tuesday & Wednesday |

Wednesday, August 31 - Oral Sessions (see NFO16 website for abstracts)

| Session | Title | Author First Name | Author Last Name | Author Organization |
|--|--|-------------------|------------------|---|
| Session A6: Metamaterials and Metasurfaces II - Chair: Demelza Wright | | | | |
| A6-1 | Invited: Mie-Resonant Nanophotonics and Metasurfaces | Yuri | Kivshar | Australian National University, Australia |
| A6-2 | Optical and Electronic Fourier Surfaces | David | Norris | ETH Zürich, Switzerland |
| A6-3 | High Q-factor coupled Fabry-Perot plasmonic nanoresonator : description and applications | Baptiste | Fix | French Aerospace Lab-ONERA, France |
| Session B5: Other Emerging Areas of Near-field Optics and Nanophotonics I - Chair: Bert Hecht | | | | |
| B5-1 | Invited: Plasmonic Forces at the Picoscale | Jeremy | Baumberg | University of Cambridge, United Kingdom |
| B5-2 | Optical mode imaging via correlated free-electron cavity-photon pairs | Germaine | Arend | University of Göttingen, Germany |
| B5-3 | Sub-diffractive cavity modes of terahertz hyperbolic phonon polaritons in tin oxide nanobelts | Rafael | Mayer | Brazilian Synchrotron Light Laboratory (LNLS), Brazil |
| Session A7: Ultra-fast Studies - Chair: Paolo Biagioni | | | | |
| A7-1 | Ultrafast infrared nano-imaging of far-from-equilibrium dynamics | Markus | Raschke | University of Colorado, United States |
| A7-2 | Nonlinear nano-imaging of few-fs coherent dynamics in 2D graphene-semiconductor heterostructures | Wenjin | Luo | University of Colorado Boulder, United States |
| A7-3 | Diffusion and lifetime of optical phase singularities | Thijs | van Gogh | Delft University of Technology, The Netherlands |
| A7-4 | Ultrafast electron probing of plasmon thermal dynamics | Eduardo | J. C. Dias | ICFO - The Institute of Photonic Sciences, Spain |
| Session A8: Quantitative Phase Imaging - Chair: Francesca Intonti | | | | |
| A8-1 | Phase mapping of the scattering signal from single plasmonic nanoparticles | Kai | Braun | University of Tuebingen, Germany |
| A8-2 | Quantitative Phase Imaging for Nanophotonics | Guillaume | Baffou | Institut Fresnel - CNRS, France |
| Session B6: Nanoplasmonics and Optical Antennas III - Chair: Alexandre Bouhelier | | | | |
| B6-1 | Real-space nanoimaging of THz polaritons in the topological insulator Bi ₂ Se ₃ | Rainer | Hillenbrand | CIC NanoGUNE - BRTA, Spain |
| B6-2 | canceled | | | |
| B6-3 | Tunable second harmonic generation in plasmonic nanogaps by local symmetry breaking | Jessica | Meier | University of Würzburg, Germany |
| B6-4 | Near-arbitrary spectral placement of lattice resonances using Fourier analysis | Yaswant | Vaddi | University of Ottawa, Canada |
| B6-5 | Efficient Coupling of Visible Light into a Plasmonic Slit Waveguide | Marc | Noordam | Delft University of Technology, The Netherlands |
| B6-6 | Nanoscale photodetectors based on graphene and graphene nanoribbons for integrated plasmonic circuitry | Klas | Lindfors | University of Cologne, Germany |

| Session | Title | Author First Name | Author Last Name | Author Organization |
|--|---|-------------------|-------------------|---|
| Session A9: Metamaterials and Metasurfaces III - Chair: Stefan Maier | | | | |
| A9-1 | Invited: Dielectric meta-optics for reconfigurable planar optics and biosensing | Romain | Quidant | ETH Zürich, Switzerland |
| A9-2 | Hyperbolic Meta-Antennas for Light-Matter Interaction Engineering | Florian | Lamaze | University of Technology of Troyes, France & University of Hull, United Kingdom |
| A9-3 | Enhanced fluorescence emission in nano-imprinted rare-earth-doped photonic metasurfaces | Francesca | Intonti | University of Florence, Italy |
| A9-4 | Reconfigurable Hyperbolic Polaritonics with Correlated Oxide Metasurfaces | Yohannes | Abate | University of Georgia, United States |
| A9-5 | Plasmon-assisted lithium niobate metasurface with ultra-high-Q resonances | Md | Saad Bin-Alam | University of Ottawa, Canada |
| Session B7: Enhanced Spectroscopies (Fluorescence, IR, THz, Raman - Chair: Andrea Centrone) | | | | |
| B7-1 | Invited: Atomistic Near-Field Optics | Vartkess | Apkarian | University of California Irvine, United States |
| Session B8: Quantum Emitters and Quantum Plasmonics - Chair: Andrea Centrone | | | | |
| B8-1 | Advanced hybrid plasmonic nano-emitters using smart photopolymer | Renaud | Bachelot | L2n/CNRS Université de Technologie de Troyes, France |
| B8-2 | Nonlinear plasmonic response in atomically thin metal films | Alvaro | Rodriguez Echarri | ICFO - The Institute of Photonic Sciences, Spain |
| B8-3 | Surface-response functions and their role in emitter—plasmon coupling | Christos | Tserkezis | University of Southern Denmark, Denmark |
| B8-4 | Quantum purity of entangled states of light scattered by a nanostructure | Álvaro | Nodar | Centro de Física de Materiales (CSIC-UPV/EHU), Spain |

Thursday, September 1

Michele Pujol Room - A

| | |
|--------------------|---|
| 9:00-9:30 | Plenary: N. J. Halas |
| | Chair: David Norris |
| 9:30-10:30 | Session A10: 2D Materials II |
| | Chair: Ado Jorio |
| 9:30-10:00 | P. Alonso-González - Invited |
| 10:00-10:15 | F. C. Barbosa Maia |
| 10:15-10:30 | Canceled |
| 10:30-11:00 | Coffee Break - Vertigo Room |
| 11:00-12:00 | Session A11: Optical Trapping and Manipulation I |
| | Chair: Mirali Seyed Shariatdoust |
| 11:00-11:15 | M. Mayer |
| 11:15-11:30 | O. J. F. Martin |
| 11:30-11:45 | K. Akbari |
| 11:45-12:00 | Q. Jiang |
| 12:00-12:30 | Session A12: Metamaterials and Metasurfaces IV |
| | Chair: Romain Quidant |
| 12:00-12:30 | R. Sapienza - Invited |
| 12:30-1:30 | Lunch - Vertigo Room |
| 1:30-2:30 | Session A12: Metamaterials and Metasurfaces IV - Cont. |
| 1:30-2:00 | S. Maier - Invited |
| 2:00-2:30 | Canceled |
| 2:30-3:00 | Session A13: Nanoplasmonics and Optical Antennas IV |
| | Chair: Kai Braun |
| 2:30-2:45 | K. Munechika |
| 2:45-3:00 | J. Symonowicz |
| 3:00-3:30 | Coffee Break - Vertigo Room |
| 3:30-5:00 | A13: Nanoplasmonics and Optical Antennas IV - Cont. |
| 3:30-3:45 | E. Boer-Duchemin |
| 3:45-4:00 | P. Y. Wu |
| 4:00-4:15 | A. Bouhelier |
| 4:15-4:30 | M. Sanz-Paz |
| 4:30-4:45 | F. Rusconi |
| 4:45-5:00 | H. Lourenço-Martins |
| 5:00-7:00 | Poster Session B |
| | Awards: Best Poster |
| | Awards: Best Paper - Thursday |

Thursday, September 1

Michele Pujol Room - B

| | |
|--------------------|--|
| 9:30-10:30 | Session B9: Biophotonics and Emerging Applications (Energy, Info, Bio) II |
| | Chair: Kenneth Crozier |
| 9:30-10:00 | F. Vollmer - Invited |
| 10:00-10:15 | H. Bechtel |
| 10:15-10:30 | V. Deckert |
| 10:30-11:00 | Coffee Break - Vertigo Room |
| 11:00-12:30 | B9: Biophotonics & Emerging Applications (Energy, Info, Bio) II - Cont. |
| 11:00-11:15 | F. Keilmann |
| 11:15-11:30 | R. Puro |
| 11:30-11:45 | canceled |
| 11:45-12:30 | Session B10: Tip Enhanced Methods |
| | Chair: Markus Raschke |
| 11:45-12:00 | P. Biagioni |
| 12:00-12:15 | S. Gilbert Corder |
| 12:15-12:30 | R. Polito |
| 12:30-1:30 | Lunch - Vertigo Room |
| 1:30-3:00 | B11 - Hot Electrons and Photochemistry |
| | Chair: Naomi Halas |
| 1:30-2:00 | J. Dionne - Invited |
| 2:00-3:00 | Session B12: Other Emerging Areas of Near-field Optics and Nanophotonics II |
| | Chair: Jeremy Baumberg |
| 2:00-2:15 | B. Hecht |
| 2:15-2:30 | F. Kaps |
| 2:30-2:45 | J. Plain |
| 2:45-3:00 | S. Arora |
| 3:00-3:30 | Coffee Break - Vertigo Room |
| 3:30-5:00 | B12: Other emerging areas of near-field optics and nanophotonics II - Cont. |
| 3:30-3:45 | E. Stamatopoulou |
| | Session B13: Nonlinear Optics |
| | Chair: Ghazal Hajisalem |
| 3:45-4:00 | J. Cox |
| 4:00-4:15 | M. Karimi |
| 4:15-4:30 | F. Dell'Ova |
| 4:30-4:45 | F. Iyikanat |
| 4:45-5:00 | S. Beer |
| 5:00-7:00 | Poster Session B Vertigo Room |

Thursday, September 1 - Oral Sessions (see NFO16 website for abstracts)

| Session | Title | Author First Name | Author Last Name | Author Organization |
|---|--|-------------------|------------------|--|
| Session A10: 2D Materials II - Chair: Ado Jorio | | | | |
| A10-1 | Invited: Nanooptics with anisotropic 2D materials | Pablo | Alonso-González | Universidad de Oviedo, Spain |
| A10-2 | Controlling the dynamical photonic properties of phonon-polaritons in two-dimensional crystals by engineering dielectric-metallic substrates | Francisco Carlos | Barbosa Maia | Brazilian Synchrotron Light Laboratory, Brazil |
| A10-3 | canceled | | | |
| Session B9: Biophotonics and Emerging Applications (Energy, Info, Bio) II - Chair: Kenneth Crozier | | | | |
| B9-1 | Invited: Molecules on Whispering Gallery Modes: Single Molecule Sensing and Beyond | Frank | Vollmer | University of Exeter, United Kingdom |
| B9-2 | Viewing interfacial chemistry through a graphene window | Hans | Bechtel | Lawrence Berkeley National Laboratory, United States |
| B9-3 | Viral Diagnosis using Nanoscale Vibrational Spectroscopy | Volker | Deckert | FSU Jena, Germany |
| B9-4 | IR nanoscopy of flat-membrane-covered living cells in water | Fritz | Keilmann | LMU, Nanoinstitute, Germany |
| B9-5 | Vibrational exciton nanoscopy: a molecular ruler to image structure, coupling, and disorder on their elementary scales | Richard | Puro | University of Colorado Boulder, United States |
| B9-6 | canceled | | | |
| Session A11: Optical Trapping and Manipulation I - Chair: Mirali Seyed Shariatdoust | | | | |
| A11-1 | Interrogating Single Molecule Kinetics of Citrate Synthase with Plasmonic Optical Tweezers | Michael | Mayer | University of Fribourg, Switzerland |
| A11-2 | Efficient optically-driven nanomotor designed by deep learning | Olivier J.F. | Martin | Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland |
| A11-3 | Optical Manipulation of Matter Waves | Kamran | Akbari | ICFO - The Institute of Photonic Sciences, Spain |
| A11-4 | Plasmonic nano-optical tweezers towards single quantum dots trapping | Quanbo | Jiang | Université de Technologie de Troyes, France |
| Session B10: Tip Enhanced Methods - Chair: Markus Raschke | | | | |
| B10-1 | Modelling photothermal induced resonance microscopy: the role of interface thermal resistances | Paolo | Biagioni | Politecnico di Milano, Italy |
| B10-2 | Synchrotron Infrared Nanospectroscopic Measurements of Biaxial Anisotropy: Hyperbolic Phonon Polaritons and a Novel Method for Determining the In-Plane Permittivity | Stephanie | Gilbert Corder | Lawrence Berkeley National Laboratory, United States |
| B10-3 | Tip-enhanced infrared nanospectroscopy of proteins in individual lipid membrane patches and extracellular vesicles | Raffaella | Polito | Sapienza University of Rome, Italy |
| Session A12: Metamaterials and Metasurfaces IV - Chair: Romain Quidant | | | | |
| A12-1 | Invited: Time-varying and reconfigurable driven photonics | Riccardo | Sapienza | Imperial College London, United Kingdom |
| A12-2 | Invited: Metasurfaces for energy conversion and optical information processing | Stefan | Maier | Monash University, Australia |

| Session | Title | Author First Name | Author Last Name | Author Organization |
|---|--|-------------------|------------------|---|
| A12-3 | canceled | | | |
| Session B11: Hot Electrons and Photochemistry - Chair: Naomi Halas | | | | |
| B11-1 | Invited: Bridging atomic and reactor scales in plasmon catalysis for efficient, selective, and sustainable chemistry | Jennifer | Dionne | Stanford University, United States |
| Session A13: Nanoplasmonics and Optical Antennas IV - Chair: Kai Braun | | | | |
| A13-1 | Wafer scale production of optical transformer-based Campanile scanning near-field probes integrated on an AFM cantilever | Keiko | Munehika | HighRI Optics Inc., United States |
| A13-2 | Real-Time In-Situ Optical Tracking of Oxygen Vacancy Migration in Memristors | Joanna | Symonowicz | University of Cambridge, United Kingdom |
| A13-3 | Electrical excitation of surface plasmon polaritons with a nano-antenna tunneling junction | Elizabeth | Boer-Duchemin | Université Paris-Saclay, France |
| A13-4 | Routing the Second-Harmonics Generated from a WSe2 Monolayer in a Plasmonic Nanocircuit | Pei Yuan | Wu | National Tsing Hua University, Taiwan |
| A13-5 | Exploring electrically-induced light emission mechanisms in memristive optical gap antennas | Alexandre | Bouhelier | CNRS - French National Centre for Scientific Research, France |
| A13-6 | DNA origami assembled nanoantennas for manipulating single-molecule spectral emission | Maria | Sanz-Paz | Universite de Fribourg, Switzerland |
| A13-7 | Mid-infrared dielectric antennas on ENZ substrates | Francesco | Rusconi | Politecnico di Milano, Italy |
| A13-8 | Mode-selective imaging and control of nano-plasmonic near-fields | Hugo | Lourenço-Martins | Max Planck Institute for Multidisciplinary Sciences, Germany & CEMES- |
| Session B12: Other Emerging Areas of Near-field Optics and Nanophotonics II - Chair: Jeremy Baumberg | | | | |
| B12-1 | Electrically-connected antennas and nano-circuitry | Bert | Hecht | University of Würzburg, Germany |
| B12-2 | Polarization-sensitive near-field optical microscopy in the mid-infrared wavelength regime | Felix | Kaps | Technische Universität Dresden, Germany |
| B12-3 | Colloidal Aluminum Nanoparticles for UV plasmonic | Jérôme | Plain | University of technology of Troyes and CNRS, France |
| B12-4 | Direct investigation of Anderson localization in topologically non-trivial photonic crystals | Sonakshi | Arora | Delft University of Technology, The Netherlands |
| B12-5 | Disentangling cathodoluminescence spectra in dielectric nanoparticles: role of transition radiation | Elli | Stamatopoulou | University of Southern Denmark, Denmark |
| Session B13: Nonlinear Optics - Chair: Ghazal Hajisalem | | | | |
| B13-1 | Nonlinear and quantum nano-optics with atomically-thin materials | Joel | Cox | University of Southern Denmark, Denmark |
| B13-2 | Time-varying gradient metasurface with all-optical beam steering applications | Mohammad | Karimi | University of Ottawa, Canada |
| B13-3 | The case of nonlinear photoluminescence in plasmonics | Florian | Dell'Ova | ICB - UBFC, France |
| B13-4 | Tunable vibrational nonlinear response in monolayer hBN | Fadil | Iyikanat | ICFO - The Institute of Photonic Sciences, Spain |
| B13-5 | Second harmonic generation under doubly resonant lattice plasmon excitation | Sebastian | Beer | Friedrich Schiller University, Germany |

| Friday, September 2 | |
|----------------------------|---|
| | Michele Pujol Room - A |
| 9:00-9:30 | Plenary: P. Kukura |
| | Chair: Reuven Gordon |
| 9:30-10:30 | Session A14: Optical Trapping and Manipulation II |
| | Chair: Reuven Gordon |
| 9:30-10:00 | M. Mayer |
| 10:00-10:15 | Ghazal Hajisalem |
| 10:15-10:30 | G. Schnoering |
| 10:30-11:00 | Coffee Break - Vertigo Room |
| 11:00-12:30 | Session A15: Nanoimaging II |
| | Chair: Albert Polman |
| 11:00-11:15 | S. Sotgiu |
| 11:15-11:30 | J. Yu |
| 11:30-11:45 | A. Huber |
| 11:45-12:00 | L. Mester |
| 12:00-12:15 | canceled |
| 12:15-12:-30 | J. Zhou |
| 12:30-1:30 | Lunch - Vertigo Room |
| 1:30-3:00 | Session A16: 2D Materials III |
| | Chair: Olivier Martin |
| 1:30-1:45 | F. Maia |
| 1:45-2:00 | J. Martín-Sánchez |
| 2:00-2:15 | C. Eugenio |
| 2:15-2:30 | L. Orsini |
| 2:30-3:00 | Session A17: Heat at the Nanoscale |
| | Chair: Guillaume Baffou |
| 2:30-2:45 | canceled |
| 2:45-3:00 | M. Pinar Mengüç |
| 3:00-3:30 | Coffee Break - Vertigo Room |
| 3:30-4:30 | Session A18: Quantum Applications: Information Science and Sensing |
| | Chair: Ghazal Hajisalem |
| 3:30-3:45 | S. Timsina |
| 3:45-4:00 | M. H. Eriksen |
| 4:00-4:15 | F. Junior |
| 4:15-4:30 | B. Behera |
| 4:30-4:45 | (break) |
| 4:45-5:00 | Closing Remarks: Reuven Gordon |

Friday, September 2

Michele Pujol Room - B

9:30-10:30**Session B14: Metamaterials and Metasurfaces V**

Chair: Jer-Shing Huang

canceled

9:30-9:45

9:45-10:00

A. Nguyen

10:00-10:15

O. J. F. Martin

10:15-10:30

L. Mascaretti

10:30-11:00**Coffee Break - Vertigo Room****11:00-12:30****Session B15: Nanoplasmonics and Optical Antennas V**

Chair: Rainer Hillenbrand

11:00-11:15

J. Huang

11:15-11:30

R. Arul

11:30-11:45

B. Schurr

11:45-12:00

B. Hecht

12:00-12:15

L. Jakob

12:15-12:30

B. Kalinic

12:30-1:30**Lunch - Vertigo Room****1:30-3:00****Session B16: Photochemistry and Hot Electrons II**

Chair: Gary Leach

1:30-2:00

P. Berini - Invited

2:00-2:15

Y. Dubi

2:15-2:30

A. Loirette-Pelous

2:30-2:45

Y. Sivan

2:45-3:00**Session B17: Nanoplasmonics and Optical Antennas VI**

Chair: Klas Lindfors

2:45-3:00

S. Gresillon

3:00-3:30**Coffee Break - Vertigo Room****3:30-4:30****Session B17: Nanoplasmonics and Optical Antennas VI - Cont.**

3:30-3:45

F. Lamaze

3:45-4:00

K. Braun

4:00-4:15

M. Mivelle

4:15-4:30

D. Nowak

4:30-4:45

N. Large

4:45-5:00**Closing Remarks: Reuven Gordon**

in Michele Pujol Room - A

Friday, September 2 - Oral Sessions (see NFO16 website for abstracts)

| Session | Title | Author First Name | Author Last Name | Author Organization |
|---|--|-------------------|------------------|--|
| Session A14: Optical Trapping and Manipulation II - Chair: Reuven Gordon | | | | |
| A14-1 | Thermal Unfolding and Refolding Trajectory of Single Calmodulin Proteins by Plasmonic Optical Tweezers | Michael | Mayer | University of Fribourg, Switzerland |
| A14-2 | Polarization dependence of double nanohole tweezers for localization and orientation | Ghazal | Hajisalem | University of Victoria, Canada |
| A14-3 | Manipulating and characterizing individual bio-particles in nanochannels | Gabriel | Schnoering | ETH Zürich, Switzerland |
| Session B14: Metamaterials and Metasurfaces V - Chair: Jer-Shing Huang | | | | |
| B14-1 | Circularly polarized light emission by incandescent metasurfaces | Anne | Nguyen | Institut d'Optique, France |
| B14-2 | Multipoles zoology made simple | Olivier J.F. | Martin | Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland |
| B14-3 | Solar steam generation on scalable ultrathin thermoplasmonic TiN nanocavity arrays | Luca | Mascaretti | Palacký University Olomouc, Czechia |
| Session A15: Nanoimaging II - Chair: Albert Polman | | | | |
| A15-1 | Photothermal expansion nanoscopy of the strong coupling between a patch nanoantenna and a semiconductor quantum well | Simone | Sotgiu | University of Rome, La Sapienza, Italy |
| A15-2 | Manipulating the Fluorescence Contrast in Gel/Fluid phases of Lipid Bilayers | Jia-Ru | Yu | Academia Sinica, Taiwan |
| A15-3 | Infrared correlation nanoscopy with unprecedented spectral coverage | Andreas | Huber | attocube systems AG, Germany |
| A15-4 | High-fidelity nano-FTIR spectroscopy by on-pixel normalization of signal harmonics | Lars | Mester | attocube systems AG, Germany |
| A15-5 | canceled | | | |
| A15-6 | Near-field optical mapping of Dark excitons at room temperature based on Nano-imprinted pyramid probe | Junze | Zhou | Lawrence Berkeley National Laboratory, United States |
| Session B15: Nanoplasmonics and Optical Antennas V - Chair: Rainer Hillenbrand | | | | |
| B15-1 | Influence of plasmonic substrate on the whispering-gallery modes in a π -conjugated polymer microsphere | Jer-Shing | Huang | Leibniz Institute of Photonic Technology, Germany |
| B15-2 | Giant mid-IR resonant coupling to molecular vibrations in plasmonic nanogaps | Rakesh | Arul | University of Cambridge, United Kingdom |
| B15-3 | A nanoscale plasmonic Su-Schrieffer-Heeger chain | Benedikt | Schurr | University of Würzburg, Germany |
| B15-4 | Light-driven microdrones | Bert | Hecht | University of Würzburg, Germany |
| B15-5 | Nonlinear Pumping of Molecular Vibrations in Plasmonic Nanocavities | Lukas | Jakob | University of Cambridge, United Kingdom |
| B15-6 | Strong Er ³⁺ radiative emission enhancement by quasi-BIC modes coupling in all-dielectric slot nanoantenna arrays | Boris | Kalinic | University of Padova, Italy |
| Session A16: 2D Materials III - Chair: Olivier Martin | | | | |
| A16-1 | Nano-optics of Epsilon Near Zero materials on metallic substrates | Francisco | Maia | State University of Campinas (UNICAMP), Brazil |

| Session | Title | Author First Name | Author Last Name | Author Organization |
|--|--|-------------------|------------------|---|
| A16-2 | Focusing of In-plane Hyperbolic Polaritons in Van der Waals Crystals with Tailored Infrared Nanoantennas | Javier | Martín-Sánchez | Universidad de Oviedo, Spain |
| A16-3 | Observation of phonon polaritons in multilayer hexagonal boron nitride films grown by chemical vapor deposition | Calandrini | Eugenio | CIC NanoGUNE - BRTA, Spain |
| A16-4 | Anomalous coupling in hyperbolic medias | Lorenzo | Orsini | ICFO - The Institute of Photonic Sciences, Spain |
| Session B16: Photochemistry and Hot Electrons II - Chair: Gary Leach | | | | |
| B16-1 | Invited: Plasmonic hot carriers and their application in catalysis | Pierre | Berini | University of Ottawa, Canada |
| B16-2 | Hot electrons in metal nanostructures – “reality” or “fake news”? | Yonatan | Dubi | Ben-Gurion University of the Negev, Israel |
| B16-3 | Theory of metallic nanostructures photoluminescence under continuous pumping | Aurelian | Loirette--Pelous | Paris-Saclay University, France |
| B16-4 | Distinguishing thermal from non-thermal (“hot”) carriers in illuminated molecular junctions | Yonatan | Sivan | Ben-Gurion University, Israel |
| Session A17: Heat at the Nanoscale - Chair: Guillaume Baffou | | | | |
| A17-1 | canceled | | | |
| A17-2 | Ordered and Disordered Porous Nanostructures for Passive Radiative Cooling | M. Pinar | Mengüç | Ozyegin University, Turkey |
| Session B17: Nanoplasmonics and Optical Antennas VI - Chair: Klas Lindfors | | | | |
| B17-1 | Far-field wavefront optimization of the near-field of disordered plasmonic metasurfaces | Samuel | Gresillon | Institut Langevin, Sorbonne Université, France |
| B17-2 | Tuning surface lattice resonance energy levels and their degeneracy by breaking isotropy of nanoparticles arrays | Florian | Lamaze | L2N - University of Technology of Troyes, France |
| B17-3 | Optical antennas driven by inelastic tunnel junctions | Kai | Braun | University of Tuebingen, Germany |
| B17-4 | Generating ultrafast stationary magnetic fields with light in a plasmonic nanostructure | Mathieu | Mivelle | Sorbonne Université, CNRS, France |
| B17-5 | Spectroscopic Mapping of Plasmonic Dynamics on the Surface of Nanoparticle Plasmonic Particles | Sung | Park | Molecular Vista Inc., United States |
| B17-6 | Acousto-Plasmonic Coupling: The Raman Energy Density (RED) | Nicolas | Large | Univeristy of Texas at San Antonio, United States |
| Session A18: Quantum Applications: Information Science and Sensing - Chair: unconfirmed | | | | |
| A18-1 | SQUEEZED STATES FROM PHOTONIC COOPER PAIRS | Sanker | Timsina | University of Victoria, Canada |
| A18-2 | Electro-optical control of atomic bistability with graphene | Mikkel Have | Eriksen | University of Southern Denmark, Denmark |
| A18-3 | Study of correlated Stokes and anti-Stokes components in Surface-enhanced Raman Scattering | Filomeno | Junior | University of Victoria, Canada |
| A18-4 | Sensing angular momentum of light using cavity optomechanical coupled oscillator system | Bishnupada | Behera | University of Calgary, Canada |