Prem C

NANOP 2023

FUNCTIONAL NANOPHOTONICS

DETAILED PROGRAM

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MAD CITY LABS INC.

RAITH
NANOFABRICATION

Monday, 27 November

8am **Registration**
Welcome Desk

8:50am **Opening Session**
Auditorium

9am **Plenary Session**
Auditorium

9am **Nanophotonics for tailoring radiation from fast electrons**
» Prof. Marin Soljacic

9:40am **Light manipulation with atomically thin quantum metasurfaces**
» Prof. Mark Brongersma

10:20am **Coffee break**
Poster Area

10:50am **Plenary Session 2**
Auditorium

10:50am **Chiral Plasmonics in Colloidal Nanoparticles**
» Prof. Luis Liz-Marzan

11:30am **Optical Topological Metrology with Sub-atomic Resolution**
» Prof. Nikolay Zheludev

12:10pm **Lunch Break**
Partners Restaurants

1:30pm **Poster Session**
Poster Area

Diffractive structures supporting long-range surface plasmons for label-free with back-side illumination
» Mr. Jan Bukáček, Prof. Jiří Homola

Retrieving optical properties of nanoparticles through holographic volume reconstruction
» Mr. Andres Barrio Zhang, Prof. Arezoo Ardekani

Exploring the Power of Multi-Photon Absorption: Innovative Plasmonic Structures for Enhanced Optical Applications
» Mr. Saeid Izadshenas Jahromi, Dr. Karolina Słowik

Electron emission of nanometric tips in an intra-cavity intense femtosecond standing wave
» Mr. Tobias Heldt, Dr. Jan-Hendrik Oelmann, Mr. Lennart Guth, Mr. Nick Lackmann, Mr. Lukas Matt, Prof. José R. Crespo López-Urrutia, Prof. Thomas Pfeifer

Design considerations for additively manufactured plasmonic random lasers for sensing application
» Dr. R. Gayathri, Dr. C.S. Suchand Sandeep, Prof. V. M. Murukeshan

Plasmonic Nanoantenna-Enhanced Single Molecule Biosensing
» Ms. Vishaldeep Kaur, Dr. Peter Zijlstra

Reliable reconstructions of (sub)-nanometres gaps in plasmonic gold dimers for correlation to their optical properties
» Mr. Francesca Scalerandi, Dr. Wiebke Albrecht

Inducing room-temperature valley polarization in transition metal dichalcogenide monolayers
» Dr. Sergii Morozov, Dr. Torgom Yezekyan, Dr. Christian Wolff, Prof. Sergey I. Bozhevolnyi, Prof. N. Asger Mortensen

Continued from **Monday, 27 November**

Strategies for High-Efficiency QLEDs: NiO Doping, Band Engineering, and Optical Behaviors

» Mr. Juhan Kim, Ms. Nayoon Lee, Mr. Hyojun Lim, Mr. Van Khoe Vo, Mr. Seungwon Lee, Ms. Thi Huong Thao Dang, Prof. Byoung-Seong Jeong, Prof. Young-Woo Heo

Exploring sensing with nanostructured photonic waveguides at exceptional points

» Ms. Parul Sharma, Mr. Brijesh Kumar, Prof. Anshuman Kumar

Optoelectronic control of atomic bistability with graphene

» Mr. Mikkel Have Eriksen, Mr. Jakob Emil Olsen, Dr. Christian Wolff, Prof. Joel D. Cox

Simulation of optical trapping using photonic crystal nanobeam cavity

» Mr. Tadeáš Maňka

Deterministic control of electron density in atomically thin semiconductor

» Ms. SuJeong Kim, Mr. Hyeongwoo Lee, Ms. Seonhye Eom, Dr. Gangseon Ji, Mr. Huitae Joo, Dr. Soo Ho CHOI, Prof. Ki Kang Kim, Prof. Park Hyeong-Ryeol, Prof. Kyoung-Duck Park

Si Metasurface Supporting Multiple QBICs for Degenerate Four-Wave Mixing

» Mr. Gianni Moretti, Mr. Thomas Weber, Prof. Emiliano Cortés, Dr. Leonardo Menezes, Dr. Andreas Tittl, Prof. Stefan A. Maier, Prof. Andrea Bragas, Prof. Gustavo Grinblat

Self-assembled monolayers: surface density study by X-ray fluorescence and molecular dynamics

» Dr. Eleonora Cara, Dr. Philipp Hönicke, Dr. Yves Kayser, Dr. Andrea Giovannozzi, Dr. Micaela Castellino, Dr. Petr Klapetek, Dr. Burkhard Beckhoff, Dr. Alberto Zoccante, Prof. Maurizio Cossi, Dr. Luca Boarino, Dr. Federico Ferrarese Lupi

Advancing Ultrafast Transmission Electron Microscopy with Dielectric Metalenses

» Mrs. Beatrice M. Ferrari, Mrs. Maria G. Bravi, Dr. Cameron J. R. Duncan, Dr. Paolo Rosi, Mr. Lorenzo Viani, Mr. Enzo Rotunno, Mr. Stefano Calcaterra, Prof. Giovanni Isella, Prof. Vincenzo Grillo, Prof. Giovanni M. Vanacore

The optical characteristics and device efficiency of Quantum dot Light emitting diodes using doped NiO nanoparticles as the hole injection layer.

» Ms. Nayoon Lee, Mr. Juhan Kim, Mr. Hyojun Lim, Mr. Van Khoe Vo, Ms. Thi Huong Thao Dang, Prof. Byoung-Seong Jeong, Prof. Joon-Hyung Lee, Prof. Young-Woo Heo

Large-scale statistical analysis of defect emission in hBN: revealing spectral families and influence of flakes morphology

» Mr. Md Samiul Islam, Dr. Rup Chowdhury, Dr. Marie Barthelemy, Dr. Loic Moczko, Dr. Pascal Hebraud, Dr. Stephane Berciaud, Dr. Alberto Barsella, Dr. Francois Fras

Laser-Induced Wavelength-Dependent Periodic Gold Nanostructures Exhibiting Hybrid Plasmon Resonance

» Mr. Kernius Vilkevicius, Dr. Evaldas Stankevicius

Far-field analysis of generalized Kerker effects in heteronuclear meta-molecules

» Mr. Seung Hyeon Hong, Mr. Seokhyeon Hong, Mr. Youngsoo Kim, Mr. Sanghyeok Yu, Ms. Bo Kyung Kim, Mr. Juhan Lee, Prof. Soon-Hong Kwon

Few photon quantum nonlinearities in a nanophotonic waveguide-atom system

» Ms. Sofia Arranz Regidor, Prof. Stephen Hughes

Improving On-Demand Single Photon Source Coherence and Indistinguishability Through a Time-Delayed Coherent Feedback

» Mr. Gavin Crowder, Prof. Lora Ramunno, Prof. Stephen Hughes

Improved Performance of Organic Light-Emitting Diode using Metal Oxide Nanoparticles on the Anode

» Mr. Seok Je Lee, Prof. Woo Yong Kim, Prof. Chul Gyu Jhun

Continued from **Monday, 27 November**

Hot electron photodetection with spectral selectivity using bismuth: strong light-matter interaction with nanosecond excited-state lifetime
» Dr. Amir Ghobadi, Prof. Ekmel Ozbay

Transformation Optics Approach to Nonlinear and Nonclassical Plasmonics
» Dr. Fan Yang

UV-Laser-Induced Graphene Foam as Broadband Solar Absorber
» Mr. Shital Devinder, Dr. Shereena Joseph, Mr. Saurabh Pandey, Prof. Joby Joseph

Machine learning models for photonic crystals band diagram prediction and gap optimisation
» Mr. Alexander Nikulin, Mr. Ilya Zisman, Prof. Manfred Eich, Dr. Alexandr Petrov, Dr. Alexander Itin

Holographic amplitude and phase imaging for characterization of ultra-thin and 2-D materials
» Mr. Sebastian Haegele, Dr. Daniel Martínez Cercós, Mr. Javier Arrés Chillón, Dr. Bruno Paulillo, Dr. Roland Terborg, Prof. Valerio Pruneri

Understanding the role of chemical interface damping (CID) in tuning plasmon-exciton coupling
» Mr. Jyotirban Dey, Ms. Alisha Virdi, Dr. Manabendra Chandra

Transparent antimicrobial surfaces via scalable metal-dewetting nanostructuring
» Mrs. Alessia Mezzadrelli, Mrs. Christina Graham, Dr. Wageesha Senaratne, Dr. Santona Pal, Dr. Dean M. Thelen, Dr. Prantik Mazumder, Prof. Valerio Pruneri

Plasmonic Copper Nanorings for Building Energy Management
» Mr. Xavier Baami González, Dr. Duncan Sutherland, Mr. Jimmy Duc Tran

Tantalum-Palladium alloy nanodisks for plasmonic hydrogen sensing
» Mr. Athanasios Theodoridis, Mr. Herman Schreuders, Prof. Lars J. Bannenberg, Prof. Christoph Langhammer

Theoretical study of plasmonic interactions in local and nonlocal structures
» Prof. Ivan Richter

Investigation of molecular vibrations of proteins using a nanophotonic environment
» Mr. Mohammadreza Aghdaee, Mr. Sharif Zaidouni, Ms. Gulsen Gork, Dr. Oluwafemi S. Ojambati

2:30pm Nonlinear & ultrafast nano-optics

Auditorium

Chaired by: Prof. Emmanuel Paspalakis

2:30pm **Nonlinear photoluminescence in gold thin films**
» Dr. Alvaro Rodriguez Echarri, Dr. Fadil Iyikanat, Dr. Sergejs Boroviks, Prof. N. Asger Mortensen, Prof. Joel D. Cox, Prof. F. Javier García de Abajo

2:47pm **Anomalous reflection for spatial and temporal shaping of mid-IR light at the nanoscale**
» Prof. Viktor Podolskiy, Mr. Jacob LaMountain, Mr. Amogh Raju, Prof. Daniel Wasserman

3:04pm **Broadband four-wave mixing enhanced by plasmonic surface lattice resonance and localized surface plasmon resonance in an azimuthally chirped grating**
» Mr. Abhik Chakraborty, Mr. Parijat Barman, Dr. Ankit Kumar Singh, Dr. Xiaofei Wu, Dr. Denis Akimov, Dr. Tobias Meyer-Zedler, Prof. Stefan Nolte, Prof. Carsten Ronning, Prof. Michael Schmitt, Prof. Jürgen Popp, Dr. Jer-Shing Huang

3:21pm **Design of optical Kerr effect in epsilon-near-zero multilayer metamaterials**
» Dr. Domenico Genchi, Ms. Francesca Dodici, Prof. Tiziana Cesca, Prof. Giovanni Mattei

Continued from **Monday, 27 November**

3:38pm **Nanophotonics for pair production**
» Dr. Valerio Di Giulio, Prof. Javier García de Abajo

3:55pm **Second-harmonic generation in ultrathin crystalline silver films**
» Mr. Philipp Jenke, Mr. Saad Abdullah, Dr. Andrew P. Weber, Dr. Vahagn Mkhitaryan, Prof. J. Enrique Ortega, Prof. Philip Walther, Prof. Javier García de Abajo, Dr. Lee A. Rozema

2:30pm Quantum nano-optics

Room 507

Chaired by: Dr. Alejandro Gonzalez-Tudela

2:30pm **Strongly subradiant collective states in planar arrays of quantum emitters**
» Dr. Roman Savelev, Mr. Nikita Ustimenko, Mr. Ilya Volkov, Dr. Danil Kornovan, Dr. Alexandra Sheremet, Dr. Mihail Petrov

2:47pm **Exotic radiative heat transfer between rotating nanostructures**
» Mr. Juan R. Deop-Ruano, Dr. Alejandro Manjavacas

3:04pm **Versatile Bell test for polarization-entangled photons**
» Mr. Raul Lahoz Sanz, Prof. Bruno Julia Díaz, Prof. José María Gómez Cama

3:21pm **3D model of a single molecule and the nanoantenna influence on its photophysics**
» Mr. Remigiusz Trojanowicz, Mr. Fabrice Charra, Mr. Ludovic Douillard, Dr. Lydia Sosa Vargas, Mr. Simon Vassant

3:38pm **Coherent optical elements formed collectively from ensembles of rare-earth ions embedded into optical waveguides**
» Dr. Lewis Ruks, Dr. Xuejun Xu, Dr. Ryuichi Ohta, Dr. Victor Bastidas, Dr. William Munro

3:55pm **Nonlinear Rydberg exciton-polaritons in Cu2O microcavities**
» Mr. Anthonin Delphan, Dr. Maxim Makhonin, Dr. Kok Wee Song, Dr. Paul Walker, Dr. Tommi Isoniemi, Mr. Peter Claronino, Dr. Konstantinos Orfanakis, Dr. Sai Kiran Rajendran, Prof. Hamid Ohadi, Dr. Julian Heckoetter, Prof. Manfred Bayer, Prof. Marc Assmann, Prof. Alexander Tartakovskii, Prof. Maurice Skolnick, Dr. Oleksandr Kyriienko, Prof. Dmitry Krizhanovskii

2:30pm Optics and transport on 2D materials

Room 607

Chaired by: Prof. Xiaoxia Yang

2:30pm **Topological metasurfaces on transition metal dichalcogenide membranes**
» Dr. Tommi Isoniemi, Dr. Paul Bouteyre, Dr. Xuerong Hu, Dr. Fedor Benimetskiy, Prof. Maurice Skolnick, Prof. Alexander Tartakovskii, Prof. Dmitry Krizhanovskii

2:47pm **Strong coupling of WS2 monolayer excitons with a hybrid plasmon polariton at room temperature**
» Mr. Yuhao Zhang, Prof. Stefan Linden, Mr. Hans-Joachim Schill, Dr. Stephan Irsen

3:04pm **Transition metal dichalcogenide nanoresonators with huge bulk χ(2) nonlinearity for second-harmonic generation**
» Dr. Georgii 'Gosha' Zograf, Prof. Timur Shegai

3:21pm **Single photon detection and negative differential resistance in bilayer graphene/hBN superlattice**
» Mr. Krystian Nowakowski, Dr. Hitesh Agarwal, Dr. David Ruiz-Barcons, Mr. Geng Li, Dr. Antoine Reserbat-Plantey, Prof. Iacopo Torre, Mrs. Xueqiao Wang, Dr. Zhiren Zheng, Mr. Robin Smeyers, Dr. Sergey Slizovskiy, Prof. Pablo Jarillo-Herrero, Prof. Lucian Covaci, Prof. Vladimir Fal'ko, Dr. Roshan Krishna Kumar, Prof. Frank Koppens

3:38pm **Optical modulation in lithographically defined MoS2 pixels**
» Ms. Nishtha Shelly, Mr. Evan Roy, Dr. Christpher P Murray, Prof. David McCloskey

Continued from **Monday, 27 November**

3:55pm **Quantum transport and optics in superlattices with applications to metabolomics and novel device functionalities**
» Prof. Mauro Fernandes Pereira, Dr. Apostolos Apostolakis, Dr. Humaira Zafar, Prof. Vladimir Vaks, Mr. Zaheer Iqbal

4:10pm **Coffee Break**
Poster Area

4:30pm **Group photo**
Auditorium

4:40pm **Coffee Break**
Poster Area

4:50pm **Metamaterials and metasurfaces**
Auditorium

4:50pm **Berry-phase translation effect in strain-engineered hydrogenated dilute nitrides: A novel approach to X-ray photonics**
» Prof. Marco Felici, Dr. Giorgio Pettinari, Dr. Michela Fratini, Dr. Luisa Barba, Dr. Gaetano Campi, Dr. Silvia Rubini, Prof. Antonio Polimeni

5:07pm **Amorphous metamaterials based on hyperuniform point patterns - transport of light**
» Dr. Jakub Haberko

5:24pm **An ultrathin polymeric platform for free-standing and conformable metasurfaces**
» Dr. Andrea Ottomaniello, Dr. Paolo Vezio, Mr. Frank Den Hoed, Mr. Rishabh B. Mishra, Dr. Matteo Archimi, Dr. Omar Tricinci, Prof. Alessandro Tredicucci, Dr. Virgilio Mattoli

5:41pm **Stabilization of semiconductor lasers and laser arrays by non-Hermitian periodic potentials**
» Prof. Ramon Herrero Simon, Mr. Salim Benadouda, Prof. Muriel Botey, Prof. Kestutis Staliunas

5:58pm **Spaceplates based on Huygens' metasurfaces**
» Dr. Francisco J. Díaz-Fernández, Dr. Ana Díaz-Rubio, Mr. Luis Manuel Máñez-Espina, Prof. Viktar Asadchy

6:15pm **Light-Matter Interplay in Exciton-Photon Hybrid Systems in 2D Heterogenous Structures**
» Prof. Xu, JB JB

4:50pm **NanoAntennas**
Room 507
Chaired by: Prof. Javier Aizpurua

4:50pm **All-optical generation and detection of coherent acoustic vibrations in dielectric nanoantennas**
» Mr. Hilario D. Boggiano, Mr. Nicolas A. Roqueiro, Dr. Haizhong Zhang, Dr. Leonid Krivitsky, Prof. Emiliano Cortés, Prof. Stefan A. Maier, Prof. Andrea Bragas, Dr. Arseniy Kuznetsov, Prof. Gustavo Grinblat

5:07pm **Artificial Intelligence enabled exploration of Purcell enhancement**
» Dr. Michel Frising, Dr. Antonio Fernández-Domínguez

5:24pm **Full forward scattering suppression enabled by multipolar resonances in Silicon Nitride nanopillar arrays.**
» Dr. Angelo Angelini, Mr. Vittorio Bonino, Mr. Mateo Rosero Realpe, Mr. Giuseppe Leonetti, Mr. Ivan De Carlo, Dr. Natascia De Leo, Dr. Federico Ferrarese Lupi

5:41pm **Hybrid plasmonic nanostructures for enhanced single-molecule detection sensitivity**
» Mr. Ediz Kaan Herkert, Ms. Domenica Romina Bermeo Alvaro, Ms. Martina Recchia, Prof. Wolfgang W. Langbein, Prof. Paola Borri, Prof. Maria F. Garcia-Parajo

5:58pm **Nonlinear Optical Response of a Plasmonic Nanoantenna to Circularly Polarized Light**
» Dr. Marina Quijada, Dr. Antton Babaze, Prof. Javier Aizpurua, Prof. Andrei G. Borisov

Continued from **Monday, 27 November**

6:15pm **Controlling Förster Resonance Energy Transfer in Plasmonic Nanogap**
» Dr. Ali M. Adawi

4:50pm **Topological photonics & Non-reciprocal nano-optic**
Room 607

4:50pm **Topological phase transition assisted by the Dexter excitonic process**
» Dr. Jianhua Zhu, Prof. Ji Chen, Dr. Wei Wu

5:07pm **Near-field investigation of topologically protected edge states in plasmonic waveguide arrays**
» Mr. Hans-Joachim Schill, Ms. Anna Sidorenko, Prof. Stefan Linden

5:24pm **Topological protection of transport in fast Thouless pumps in the presence of static disorder**
» Ms. Anna Sidorenko, Prof. Stefan Linden

5:41pm **Optical energy localization at a valley photonic crystal waveguide termination**
» Mr. Daniel Muis, Mr. Yandong Li, Mr. Rene Barczyk, Ms. Sonakshi Arora, Prof. Gennady Shvets, Prof. Laurens Kuipers, Prof. Ewold Verhagen

5:58pm **Observation of time reflection in a synthetic photonic lattice**
» Dr. Alexander Palatnik, Dr. Yonatan Plotnik, Prof. Mordechai Segev

6:15pm **Topological photonics meets quantum optics**
» Dr. Alejandro Gonzalez-Tudela

6:30pm **Short Break : Beer and tapas**
Poster Area

7pm **Theatre : Interactive and Live Show by "Spill the tea"**
Auditorium

Tuesday, 28 November

8:30am **Registration**
Welcome Desk

9am **Plenary Session**
Auditorium
Chaired by: Prof. N. Asger Mortensen

9am **Free-Electron Quantum Optics**
» Prof. Ido Kaminer

9:40am **Nano-optomechanics on a chip**
» Prof. Romain Quidant

10:20am **Coffee Break**
Poster Area

10:50am **Plenary Session**
Auditorium
Chaired by: Prof. Michael Berry

10:50am **Extreme time modulation of material properties and Hawking radiation**
» Prof. John Pendry

11:30am **Addressing quantum effects in nanocavity-enhanced molecular spectroscopy**
» Prof. Javier Aizpurua

Continued from **Tuesday, 28 November**

12:10pm **Lunch Break**
Partners Restaurants

1:30pm **Poster Session**
Poster Area

Influence of distance between silver nanowires and DTE molecules on the photochromic reaction
» Ms. Martyna Jankowska, Ms. Agnieszka Lech, Prof. Grzegorz Celichowski, Prof. Saioa Cobo, Prof. Sebastian Maćkowski

Deep sub wavelength topological edge state in a hyperbolic medium
» Mr. Lorenzo Orsini, Dr. Hanan Herzig-Sheinfux, Mr. Yandong Li, Dr. Soejoo Lee, Dr. Gian Marcello Andolina, Dr. Orazio Scarlatella, Mr. Matteo Ceccanti, Mr. Karuppasamy Soundarapandian, Mr. Eli Janzen, Prof. James Edgar, Prof. Gennady Shvets, Prof. Frank Koppens

Nonlocal effects in atom-plasmon interactions
» Mr. Mikkel Have Eriksen, Prof. Christos Tserkezis, Prof. N. Asger Mortensen, Prof. Joel D. Cox

Weak to strong coupling effects in spontaneous emission interference near a graphene nanodisk
» Prof. Ioannis Thanopulos, Dr. Vasilios Karanikolas, Prof. Emmanuel Paspalakis

Surrogate model using coupled mode theory for 3D FDTD simulations of GaAs-based ridge waveguides
» Ms. Yasmin Rahimof, Dr. Igor Nechepurenko, Mr. Aleksei Tsarapkin, Mr. Sten Wenzel, Dr. M. R. Mahani, Dr. Katja Höflich, Dr. Andreas Wicht

Multiply-resonant Silicon Nitride Waveguide Gratings for Enhanced Second-harmonic Generation
» Ms. Madona Mekhael, Dr. Subhajit Bej, Dr. Ali Panah-Pour, Prof. Robert Fickler, Dr. Mikko Huttunen

High Q-Factor Plasmonic Surface Lattice Resonances in Colloidal Nanoparticle Arrays
» Ms. Xiaoyu Qi, Dr. Luis Alberto Pérez, Dr. M Isabel Alonso, Dr. Agustín Mihi

Toward the control of excitonic flux in atomically-thin semiconductors
» Mr. Hassan LAMSAADI, Mr. Dorian Beret, Dr. Ioannis Paradeisanos, Prof. Pierre Renucci, Dr. Delphine Lagarde, Prof. Xavier Marie, Prof. Bernhard Urbaszek, Mr. Ziyang Gan, Dr. Antony George, Prof. Kenji Watanabe, Dr. Andrey Turchanin, Prof. Takashi Taniguchi, Dr. Laurent Lombez, Prof. Nicolas Combe, Prof. Vincent Paillard, Dr. Jean-Marie Poumirol

Trapping environments for SEIRA spectroscopy of low-concentration methane
» Dr. Eleonora Cara, Dr. Mauro Rajteri, Dr. Mario Malerba, Prof. Maurizio Cossi, Prof. Leonardo Marchese, Prof. Giorgio Gatti, Dr. Angelo Angelini

Optical and electrical control of nanoscale metal-semiconductor tunnel junction
» Mr. Huitae Joo, Mr. Hyeongwoo Lee, Ms. SuJeong Kim, Prof. Kyoung-Duck Park

Mode-cleaning in Non-Hermitian Fibers and Waveguides
» Mr. Mohammad Nayeem Akhter, Prof. Muriel Botey, Prof. Ramon Herrero Simon, Prof. Kestutis Staliunas

Novel strategies for the excitation of out-of-plane lattice resonances
» Mr. Juan R. Deop-Ruano, Mr. Juan J. Alvarez-Serrano, Dr. Luis Cerdán, Dr. Rosario Martínez-Herrero, Dr. Alejandro Manjavacas

Tunable phase grating using negative dielectric anisotropy nematic liquid crystal
» Mr. Rishikesh Kushawaha, Prof. Aloka Sinha

Continued from **Tuesday, 28 November**

Random Lasing Radiation with a High Degree of Circular Dichroism by Localized Feedback System with Crystalline Nanocellulose
» Dr. Sunghwan Jo, Dr. Agustín Mihi

Understanding the influence of symmetry and connectivity in 2D plasmonic networks by electron energy loss spectroscopy
» Mr. Marcello Pozzi, Ms. Jelena Wohlwend, Dr. Georg Haberfehlner, Dr. Henning Galinski, Prof. Ralph Spolenak

Temperature-Dependent Optical Properties of Two-Dimensional Hexagonal AlN Monolayers: Role of Exciton-Phonon Interactions
» Mr. Pushpendra Yadav, Dr. Amit Agarwal, Dr. Sitangshu Bhattacharya

Acoustic THz and mid-infrared graphene plasmons at low temperatures
» Dr. Sebastián Castilla

Wavelength-tailored SERS active substrates for electrolyte leakage sensing applications
» Ms. Nadzeya Khinevich, Mr. Maziar Moussavi, Dr. Tomas Tamulevičius, Dr. Asta Tamulevičienė, Prof. Sigitas Tamulevičius

Analysis of optical properties chalcogenide tellurite based photonic crystal fiber for supercontinuum generation
» Dr. Mohamed Benhaddad, Prof. Fouad Kerrour, Dr. Khattra Mimouni

Probing compositional engineering effects on lead-free perovskite nanocrystal thin films using correlative nonlinear microscopy
» Ms. Shambhavee Annurakshita, Dr. Maning Liu, Prof. Paola Vivo, Dr. Godofredo Bautista

Thermally induced nonlinear optical properties of carbon alloyed nickel thin films
» Prof. Husam Abu-Safe, Ms. Kawther Al-Adamat, Dr. Fernando M. de Oliveira, Dr. Yuriy I. Mazur, Dr. Malak Refaei, Dr. Reem Alhelais, Dr. Morgan Ware

Modeling quantum emitters beyond the dipolar approximation in proximity of nanophotonic structures
» Mr. Mhamad Hantro, Dr. Gilles Rosolen, Dr. Colin Van Dyck

Deeply subwavelength information transduction through Fano resonant metarings
» Mr. Nick Feldman, Dr. Arie den Boef, Dr. Lyuba Amitonova, Prof. Femius Koenderink

Spontaneous parametric downconversion in ultra-thin 3R-stacked transition-metal dichalcogenides
» Mr. Benjamin Braun, Mr. Josip Bajo, Mr. Philipp Jenke, Dr. Chiara Trovatello, Dr. Giulio Cerullo, Dr. P. James Schuck, Prof. Philip Walther, Dr. Lee A. Rozema

Optical Identification Pen Structure for Wide angle and High Recognition Rate
» Dr. ZHANG LIANG, Prof. Chul Gyu Jhun, Mr. Charlse Kwon

Characterization of photoluminescent gold nanoparticles in linolenic acid
» Ms. Mahsa Nasehi, Dr. Ehsan Hassanpour Yesaghi, Prof. Lilian Witthauer

Surface-enhanced mid-infrared absorption sensing by plasmonic titanium nitride trenches
» Dr. Leonid Yu. Beliaev, Dr. Evgeniy Shkondin, Prof. Andrei V. Lavrinenko, Dr. Osamu Takayama

A Study on Linearly Polarized Organic Light-Emitting Diode and Color Conversion Simulation
» Mr. Seok Je Lee, Prof. Woo Yong Kim, Prof. Chul Gyu Jhun

Optical contrast inversion of metal nanoparticles in a nanofluidic channel
» Ms. Lova Wilske, Prof. Christoph Langhammer

Exceptional points to enhance plexcitonic single photon fluorescence
» Mr. Wenjie Zhou, Prof. Jingfeng Liu, Prof. Cheng-Wei Qiu, Prof. Lin Wu

Continued from **Tuesday, 28 November**

Synthesis and characterization of novel azo dyes for high luminance color conversion layer of organic light emitting diodes
» Mr. Byung Kyu Jeon, Mr. Seong Hyun Jang, Dr. Dahhee Kim, Prof. Byoung-Sun Lee, Dr. Jun Choi

State-of-the-art s-SNOM and correlation nanoscopy
» Dr. Philip Schaefer, Dr. Sergiu Amarie, Dr. Adrian Cernescu, Dr. Andreas Huber

Analytical Insight into Population Dynamics in 3-Site Photosynthetic Systems: Implications for Energy-Efficient Molecular Transport
» Mr. Amit Kumar Upadhyay, Prof. Karthik Sasihithlu

Advanced Deep Learning Technique for Highly Vivid Structural Color Filter Metasurfaces
» Mr. Arthur Clini de Souza, Dr. Stéphane Lanteri, Dr. Badre Kerzabi, Dr. Marco Abbarchi, Prof. Hugo Enrique Hernandez-Figueroa, Dr. David Grosso, Dr. Mahmoud Elsawy

Ultrafast Dynamics in Plasmon–Exciton Core–Shell Systems: The Role of Heat
» Dr. Felix Stete, Prof. Matias Bargheer, Dr. Wouter Koopman

2:30pm Strong light-matter interactions at the nanoscale

Auditorium

2:30pm **Quantum surface effects and nonlocality in nanoplasmonics**
» Dr. Antton Babaze, Dr. Tomas Neuman, Dr. Ruben Esteban, Prof. Javier Aizpurua, Prof. Andrei G. Borisov

2:47pm **Multipolar nature of Bound States in the Continuum for room temperature Exciton-Polariton condensation**
» Dr. Jose Luis Pura, Mr. Matthijs Berghuis, Mr. Gabriel W. Castellanos, Prof. Shunsuke Murai, Dr. Diego R. Abujetas, Mr. Erik van Heist, Dr. Mohammad Ramezani, Prof. Jaime Gómez-Rivas, Prof. Jose A. Sánchez-Gil

3:04pm **Monolithic van der Waals metasurfaces**
» Dr. Luca Sortino, Prof. Stefan A. Maier, Dr. Andreas Tittl

3:21pm **Modulation of near- and mid-infrared surface plasmons by electronic phase defects in the charge density wave metal TbTe3**
» Dr. Michael Kinyanjui, Dr. Benedikt Haas, Prof. Hannu-Pekka Komsa, Prof. Pierre Monceau, Prof. Christoph Koch

3:38pm **Configurable structural colors in a dielectric nanocup metasurface with order-disorder transition**
» Ms. Jelena Wohlwend, Ms. Claudiadele Polinari, Ms. Anna Hilti, Prof. Ralph Spolenak, Dr. Henning Galinski

3:55pm **"Mie atom": Tiny Drude-nanoparticle as emitter-model in Maxwell simulations**
» Dr. Günter Kewes

2:30pm All dielectric nanophotonics

Room 507
Chaired by: Prof. Andrea Bragas

2:30pm **Erbium emission lifetime modulation at telecom wavelength by coupling with vanadium dioxide thin films**
» Prof. Tiziana Cesca, Dr. Boris Kalinic, Mr. Alessandro Lovo, Dr. Carlo Scian, Prof. Roberto Macaluso, Prof. Fabio Bovino, Prof. Roberto Li Voti, Prof. Concita Sibilia, Prof. Giovanni Mattei

2:47pm **A quasi-BIC Fabry-Pérot chiral mirror**
» Mr. Dmitrii Gromyko, Prof. Cheng-Wei Qiu, Prof. Lin Wu

3:04pm **Thermal bistability and pulsation in high Q silicon nanochain resonators**
» Ms. Chenyue Gu, Dr. Lu Ding

3:21pm **Enhanced Faraday effect and circular displacement current induced novel magneto-optical effects in all-dielectric metasurfaces**
» Dr. Shuang Xia, Mr. Jun Qin, Prof. Longjiang Deng, Prof. Huigao Duan, Prof. Martin Veis, Prof. Lei Bi

Continued from **Tuesday, 28 November**

3:38pm **2D-chiral metasurfaces enable high dissymmetry chiral photoluminescence in perovskite nanocrystals**
» Mr. Jose Mendoza Carreño, Dr. Pau Molet, Ms. Nadesh Fiuza-Maneiro, Ms. Clara Otero-Martínez, Dr. Sergio Gómez-Graña, Dr. Lakshminarayana Polavarapu, Dr. M Isabel Alonso, Dr. Agustín Mihi

3:55pm **Nonlocal active metasurfaces with ultimate wavefront shaping performance**
» Dr. Mahmoud Elsawy

2:30pm **Quantum dots and colour centres**
Room 607

2:30pm **Cavity-enhanced second- and third-harmonic generation from a diamond microdisk**
» Dr. Sigurd Flagan, Mr. Joe Itoi, Dr. Prasoon K. Shandilya, Ms. Elham Zohari, Dr. Joseph E. Losby, Prof. Paul E. Barclay

2:47pm **Recycling self-assembled colloidal quantum dot supraparticle lasers**
» Mr. Dillon Downie, Dr. Charlotte Eling, Dr. Pedro Alves, Dr. Paul Edwards, Dr. Robert Martin, Dr. Nicolas Laurand

3:04pm **Impact of Surfactants in the Biofunctionalisation of Supraparticle Lasers**
» Ms. Bethan Charlton, Mr. Dillon Downie, Dr. Charlotte Eling, Dr. Pedro Alves, Dr. Nicolas Laurand

3:21pm **Room-temperature single-photon source with a bottom-up structure composed of a quantum dot in a photonic wire**
» Mr. Francis Granger, Dr. Saransh Raj Gosain, Dr. Gilles Nogues, Dr. Edith Bellet-Amalric, Dr. Joel Cibert, Dr. David Ferrand, Prof. Kuntheak Kheng

3:38pm **Enhanced single photon emission fidelity in Engineered colloidal quantum dots**
» Ms. Parna Roy, Prof. Anshu Pandey

3:55pm **Response of Coherent and Incoherent Drive on Spaser**
» Mr. ANKIT PUROHIT, Dr. Akhilesh Kumar Mishra

4:10pm **Coffee Break**
Poster Area

4:40pm **Photonic & plasmonic nanomaterials - 1**
Auditorium

4:40pm **Optical data processing based on rare earths doped photon avalanching nanoparticles**
» Dr. Marcin Szalkowski, Ms. Zuzanna Korczak, Ms. Magdalena Dudek, Mr. Maciej Ćwierzona, Mr. Michał Żebrowski, Dr. Małgorzata Misiak, Ms. Martyna Majak, Prof. Dawid Piątkowski, Prof. Sebastian Maćkowski, Prof. Artur Bednarkiewicz

4:57pm **Generalized Hilbert Transform and inverse-design approaches for asymmetric light transportation**
» Prof. Muriel Botey, Prof. Ramon Herrero Simon, Prof. Kestutis Staliunas

5:14pm **A magnetic monopole nanoantenna**
» Mr. Benoît Reynier, Mr. Xingyu Yang, Dr. Bruno Gallas, Dr. Sébastien Bidault, Dr. Mathieu Mivelle

5:31pm **The Effective Permittivity of a Composite Material.**
» Prof. Evgeniy Narimanov

5:48pm **Singular and non-singular near-touching plasmon modes in nanocube dimers**
» Ms. Yina Wu, Dr. Andrea Konečná, Prof. Shinhum Cho, Prof. Delia Milliron, Dr. Jordan Hachtel, Prof. F. Javier García de Abajo

6:05pm **DNA Origami-Patterned Nanoplasmonics: integrating lithographic Control with molecular Precision**
» Mr. Christoph Sikeler, Mrs. Franziska Haslinger, Prof. Tim Liedl

Continued from **Tuesday, 28 November**

6:22pm **Accurate prediction of the optical properties of nanoalloys with plasmonic and magnetic elements**
» Mr. Vito Coviello, Dr. Daniel Forrer, Prof. Vincenzo Amendola

4:40pm Bottom-up approach enabled nanophotonics
Room 507

4:40pm **Block copolymer based hyperbolic metamaterials**
» Dr. Federico Ferrarese Lupi, Dr. Irdi Murataj, Dr. Eleonora Cara, Dr. Luca Boarino, Dr. Angelo Angelini

4:57pm **A microshutter for the nanofabrication of gradient composition plasmonic metal alloys**
» Mr. Carl Andersson, Prof. Christoph Langhammer

5:14pm **Optimizing the Coupling of Light to Plasmons through Engineered Dipolar Scatterers**
» Mr. Saad Abdullah, Dr. Eduardo J.C.DIAS, Mr. Jan Krpensky, Dr. Vahagn Mkhitaryan, Prof. Javier García de Abajo

5:31pm **Plant Epicuticular Waxes As Optical Metasurfaces**
» Dr. Rox Middleton, Dr. Sverre Aarseth Tunstad

5:48pm **DNA-origami-based plasmonic assemblies with tailored stimuli and optical responses**
» Prof. Anton Kuzyk

6:05pm **Design of plasmonic nanoantennas coupled to ultra-fast molecular diodes for light harvesting in the THz frequencies**
» Mr. Halidou Abdoul Yasset, Mrs. Peeranuch POUNGSRIPONG, Mr. Hugo Bidotti, Dr. Didier Gigmes, Dr. Beniamino Sciacca, Dr. Olivier Margeat, Dr. David Duché, Prof. Judikaël Le Rouzo

4:40pm Advanced imaging
Room 607

4:40pm **Imaging and controlling coherent phonon wave packets in single graphene nanoribbons**
» Dr. Yang Luo, Dr. Alberto Martin-Jimenez, Dr. Michele Pisarra, Prof. Fernando Martin, Dr. Manish Garg, Prof. Klaus Kern

4:57pm **Exploiting plasmon-fluorophore interactions for 3D localization microscopy on nanoparticles**
» Ms. Sarojini Mahajan, Mr. Teun A. P. M. Huijben, Dr. Kim I. Mortensen, Dr. Rodolphe Marie, Dr. Peter Zijlstra

5:14pm **Tuning the Growth of Chiral Gold Nanoparticles Through Rational Design of a Chiral Molecular Inducer**
» Mr. Kyle Van Gordon, Ms. Sandra Baúlde, Dr. Mikhail Mychinko, Mr. Wouter Heyvaert, Dr. Manuel Obelleiro-Liz, Dr. Alejandro Criado, Prof. Sara Bals, Prof. Luis Liz-Marzan, Prof. Jesús Mosquera

5:31pm **Infrared Nanoimaging of Hydrogenated Perovskite Nickelate Synaptic Devices**
» Prof. yohannes abate

5:48pm **Plasmonic-based surface-enhanced IR absorption spectroscopy using metals and III-V semiconductors for gas sensing**
» Mr. Pierre FEHLEN, Dr. Melissa Najem, Mr. Julien Guise, Mr. Franc Carcenac, Dr. Guillaume Thomas, Dr. Laurent Cerutti, Dr. Jean-baptiste Rodriguez, Prof. Emmanuel Centeno, Dr. Denis Spitzer, Prof. Thierry Taliercio, Dr. Fernando Gonzalez-Posada Flores

6:05pm **Plasmon-mediated single-molecule biosensing on a miniaturized microscopy platform**
» Mr. Koen Valk, Mr. Vincenzo Lamberti, Dr. Peter Zijlstra

6:22pm **Holographic nanoparticle tracking analysis for sub-nanometric sizing precision**
» Dr. Unai Ortiz-Orruño, Dr. Matz Liebel, Prof. Niek van Hulst

7:15pm Drinks and Tapas
Club 23

Wednesday, 29 November

8:30am **Registration**
Welcome Desk

9am **Plenary Session**
Auditorium
Chaired by: Prof. Romain Quidant

9am **Integrated Metasurfaces for Optical Biosensing, Spectroscocopy and Bioimaging**
» Prof. Hatice Altug, Prof. Deepthy Kavungal, Prof. Saeid Ansaryan, Prof. Yen-Cheng Liu

9:40am **Programmable metasurfaces at visible frequencies**
» Prof. Laura Na Liu

10:20am **Coffee Break**
Poster Area

10:50am **Plenary Session**
Auditorium
Chaired by: Prof. John Pendry

10:50am **Wave trajectories, quantum potential, superoscillations: de Broglie, Madelung, Bohm,Newton**
» Prof. Michael Berry

11:30am **Surface-response formalism for mesoscopic electrodynamics in plasmonic nanostructures**
» Prof. N. Asger Mortensen

12:10pm **Lunch Break**
Partners Restaurants

1:30pm **Poster Session**
Poster Area

Non-imaging metasurfaces for collimated beam shaping
» Ms. Kirstine Nielsen, Mr. Mads Allerup Carlsen, Mr. Xavier Zambrana-Puyalto, Mr. Søren Raza

Bismuth perfect absorber as a highly efficient hot electron based water splitting cell
» Dr. Turkan Gamze Ulusoy Ghobadi, Dr. Amir Ghobadi, Prof. Ekmel Ozbay

Proposal for a tunable room temperature single photon source based on a plasmonic nanoantenna driven by inelastic tunneling in the Coulomb regime
» Dr. Günter Kewes

Controlling free-electron-light-matter interactions with nanophotonics: Smith-Purcell metagratings for the generation of polarisation-tunable free-electron radiation
» Ms. Hollie Marks, Mr. Matthias Liebtrau, Prof. Albert Polman

Tuning the photoluminescence response and control of the electrical carrier type of (Ag, Cu)I thin films
» Dr. OSAMA MADKHALI, Dr. Galib Souadi, Prof. Jean Pierson, Dr. Maud Jullien

Theoretical analysis based on relative frequency of excitation and depletion beam in SSTED-SIM
» Ms. Anupriya Tiwari, Prof. Joby Joseph

Polarization-Insensitive Reflective Metalens at the Telecommunication Wavelength: Design and Numerical Study
» Ms. Jagriti Ahuja, Prof. Joby Joseph

Spin Gives Direction In The Vicinity Of Chiral Nanophotonic Waveguide Interface
» Dr. Jabir Hakami

Continued from **Wednesday, 29 November**

Microcavity Platform for Widely Tunable Optical Double Resonance
» Dr. Sigurd Flagan, Prof. Patrick Maletinsky, Prof. Richard J. Warburton, Dr. Daniel Riedel

Strong coupling between molecules and topological edge states of arrays of plasmonic nanoparticles
» Mr. Álvaro Buendía, Dr. Vincenzo Giannini, Prof. Jose A. Sánchez-Gil, Dr. Marie Rider

Refractive Index Sensing of Guided Mode Resonant Structures Through Stokes Polarization Parameters
» Ms. Neethu Baburaj, Mr. Saurabh Pandey, Mr. Shital Devinder, Dr. Shereena Joseph, Prof. Joby Joseph

Hybrid Plasmonic Waveguide NFT For HAMR Heads
» Mr. Will Lee, Prof. Robert Bowman

Plasmon-driven catalysis: insights from ab-initio modeling
» Dr. Natalia Koval

Modification of localized surface plasmon resonance in liquid via conductive atomic force microscopy
» Mr. Taeyoung Moon, Ms. Yeonjeong Koo, Mr. Hyeongwoo Lee, Prof. Kyoung-Duck Park

Analyzing the backscattered spectrum of spherical microspheres
» Mr. Isaac Tribaldo, Mr. Martin Molezuelas, Prof. Gabriel Molina

Improved Electrical Properties of Organic Light-Emitting Diode with Aligned Molecules of the Emitting Layer
» Mr. Seok Je Lee, Prof. Woo Yong Kim, Prof. Chul Gyu Jhun

Optical fiber device applied to adulterated honey sensing
» Ms. Mayeli Anais Pérez-Rosas, Dr. Yadira Aracely Fuentes-Rubio, Dr. Rene Dominguez-Cruz, Mr. Luis Antonio García-Garza, Dr. Ana Rios-Alvarado, Dr. Edgar Tello-Leal

Optimization of Non-metallic Plasmonic Nanostructures TMDs/Graphene Heterostructures for Biosensing.
» Dr. Samar Ghopry, Prof. Wu Judy

Far-Field Excitation of Biaxial Hyperbolic Phonon Polaritons using Engineered Nanoresonators
» Mr. Nihar Sahoo, Prof. Anshuman Kumar

Photon antibunching measurement using CdSe/ZnS quantum dots as single-emitters
» Ms. Lidia Lozano Martín, Prof. José María Gómez Cama, Prof. Martí Duocastella Solà, Prof. Bruno Julia Díaz

Tip-induced nanoscale oxidation of graphene in aqueous media
» Mr. MINGU KANG, Prof. Kyoung-Duck Park

Plasmonic-FET: A Plasmonic Icing on Conventional FET
» Dr. Hirak Chatterjee

Multiband lasing in dielectric metasurfaces
» Dr. Ana Conde-Rubio, Ms. Wei Zhou, Dr. Agustín Mihi

Combining Electron Tomography with Electromagnetic Simulations to Support Structure–Property Correlations of Single Plasmonic Nanoparticles
» Mr. Mees Dieperink, Dr. Nathalie Claes, Prof. Sara Bals, Dr. Wiebke Albrecht

Synthesis and Investigation of 2-position Modified Coumarin Based Solid-state Fluorescent materials
» Mr. Seong Hyun Jang, Mr. Byung Kyu Jeon, Dr. Dahhee Kim, Prof. Jae Pil Kim, Dr. Jun Choi

High-contrast-resolution imaging of nanostructured organic materials with nonlinear confocal microscope
» Prof. Chikara Egami

Continued from **Wednesday, 29 November**

Polarization-optimized tip-enhanced strong coupling of single quantum dots
» Mr. Jinhyuk Bae, Mr. Hyeongwoo Lee, Prof. Byoung Jae Kim, Mrs. Sohee Jeong, Prof. Jaehoon Lim, Prof. Kyoung-Duck Park

Stabilising periodic spatial solutions in dissipative systems
» Mr. Salim Benadouda, Prof. Muriel Botey, Prof. Ramon Herrero Simon, Prof. Kestutis Staliunas

Improving quality and throughput of advanced large area metalens nanofabrication by electron beam lithography (EBL)
» Mr. Vincent Morin, Dr. Frank Nouvertné, Mr. Christoph Aulbach, Dr. Jana Münchenberger, Dr. Guido Piaszenski, Dr. Volker Boegli

Extracting Effective Permittivity of Isotropic Spherical Particle In An Anisotropic Medium
» Mr. Gaurav Bansode, Prof. Karthik Sasihithlu

spin-direction-spin locking of quasiguided modes in hybridized plasmonic crystals.
» Mr. Jeeban Kumar Nayak, Prof. Nirmalya Ghosh

Design, development, and cooling performance testing of paint coating for passive daytime radiative cooling
» Mr. Bhrigu Rishi Mishra, Prof. Karthik Sasihithlu

The improvement of optical properties using tetraoctylammonium bromide for CsPbBr3 light-emitting diodes
» Mr. Van Khoe Vo, Mr. Juhan Kim, Ms. Nayoon Lee, Prof. Joon-Hyung Lee, Prof. Young-Woo Heo

Generating near-field optical chirality from 3D gold dual-arm Archimedean spiral for chiral sensing
» Ms. Min Jiang, Dr. Jer-Shing Huang

Fabrication of transparent nanocomposite film reinforced with heterocyclic aramid nanofiber and cellulose nanocrystal for the superior mechanical and thermal properties
» Dr. Dahhee Kim, Mr. Byung Kyu Jeon, Mr. Seong Hyun Jang, Dr. Jun Choi

2:30pm Optical sensing
Auditorium

2:30pm **Plasmonic Nanotweezers for Interrogating Structural Flexibility of Single, Unmodified Proteins**
» Dr. Cuifeng Ying, Mr. Arman Yousefi, Mr. Saaman Zargarbashi, Ms. Mahya Assadipapari, Mr. Ze Zheng, Dr. Lei Xu, Prof. Mohsen Rahmani

2:47pm **Probing interactions between chiral plasmonic nanoparticles and biolomolecules using circular dichroism spectroscopy.**
» Dr. Ben Tadgell, Prof. Luis Liz-Marzán

3:04pm **Magneto-plasmonic nanostructures to enhance colorimetric immunosensor response**
» Ms. Maria De Luca, Mr. Adriano Acunzo, Mr. Daniele Marra, Prof. Vincenzo Iannotti, Dr. Bartolomeo Della Ventura, Prof. Raffaele Velotta

3:21pm **Polymer-Based 4D-Printed Fresnel Lenses for Thermal Sensing Applications**
» Dr. Murad Ali, Prof. Haider Butt

3:38pm **Ultrafast spatiotemporal chiroptical response of dielectric and plasmonic nanoparticles**
» Dr. Ankit Kumar Singh, Dr. Jer-Shing Huang

3:55pm **Guided Mode Resonance Immunosensor for Pathogen Detection**
» Dr. Shereena Joseph, Prof. Joby Joseph, Prof. Prashant Mishra, Ms. Soumya Rajpal, Ms. Debashree Kar, Mr. Shital Devinder, Mr. Saurabh Pandey

2:30pm Enhanced spectroscopies
Room 507

Continued from Wednesday, 29 November

2:30pm Single-Molecule Quantification of Bimolecular Interactions on DNA-coated Nanoparticles using Plasmon-enhanced Fluorescence Microscopy
» Dr. Swayandipta Dey, Mr. Rodrigo Rivas Barbosa, Mr. Sjoerd W. Nooteboom, Prof. Emanuela Zaccarelli, Prof. Francesco Sciortino, Dr. Peter Zijlstra

2:47pm Deep Learning Microscopy for label-free biomolecule screening in the single kDa regime
» Mr. Henrik Klein Moberg, Dr. Bohdan Yeroshenko, Dr. Joachim Fritzsche, Dr. Barbora Spackova, Prof. Daniel Midtvedt, Prof. Giovanni Volpe, Prof. Christoph Langhammer

3:04pm Spectral signatures of enhanced scattering of a nanoscale object in plasmonic nanocavities
» Mr. Mohammadreza Aghdaee, Dr. Oluwafemi S. Ojambati

3:21pm Half-buried and pedestal high contrast gratings for biosensing
» Dr. Leonid Yu. Beliaev, Mr. Giovanni Finco, Mr. Peter Groth Stounbjerg, Ms. Sungyeong Kim, Dr. Mehri Ziaee Bideskan, Dr. Larissa Vertchenko, Mr. Bjørn Funch Schrøder Nielsen, Mr. Mads Vejlgaard Evensen, Dr. Ada-Ioana Bunea, Dr. Radu Malureanu, Dr. Lars René Lindvold, Dr. Osamu Takayama, Dr. Peter E. Andersen, Prof. Andrei V. Lavrinenko

3:38pm Detection of DNA with a given sequence using surface-enhanced Raman spectroscopy
» Prof. Andrzej Kudelski

3:55pm Chiroptical sensing of drug solutions based on nanophotonics
» Mr. Raju Adhikary, Mr. Matteo Venturi, Dr. Ambaresh Sahoo, Prof. Massimiliano Aschi, Mr. Matteo Silvestri, Dr. Carino Ferrante, Prof. Isabella Daidone, Prof. Antonio Mecozzi, Prof. Andrea Marini

2:30pm Electron beams for nanophotonics
Room 607

2:30pm Pump-probe cathodoluminescence spectroscopy of silicon nanoparticles
» Dr. Saskia Fiedler, Dr. Patrick Spaeth, Mr. Matthias Liebtrau, Prof. Hiroshi Sugimoto, Prof. Minoru Fuji, Prof. Albert Polman

2:47pm Ultrafast electron probing of thermal dynamics
» Dr. Eduardo Dias, Prof. F. Javier García de Abajo

3:04pm Single-particle–single-photon coupling using a circuital metamaterial cavity
» Mr. Ron Ruimy, Dr. Qinghui Yan, Dr. Arthur Niedermayr, Prof. Ido Kaminer

3:21pm Radiative loss of coherence in free electrons: A long-range quantum phenomenon
» Mr. Cruz Velasco, Dr. Valerio Di Giulio, Prof. Javier García de Abajo

3:38pm Free electron-plasmon coupling strength and near-field retrieval through electron-energy-dependent cathodoluminescence spectroscopy
» Ms. Evelijn Akerboom, Dr. Valerio Di Giulio, Dr. Nick Schilder, Prof. Javier García de Abajo, Prof. Albert Polman

3:55pm Plasmon satellites in photoemission from metallic nanoparticles and nanographenes
» Dr. P. André D. Gonçalves, Prof. Javier García de Abajo

4:10pm Coffee Break
Poster Area

4:40pm Photonic & plasmonic nanomaterials - 2
Auditorium

4:40pm Maximizing dipole-assisted polariton excitation with electron beams
» Ms. Leila Prelat, Dr. Eduardo Dias, Prof. F. Javier García de Abajo

4:57pm Spontaneous symmetry breaking in plasmon lattice lasers
» Mr. Nelson de Gaay Fortman, Dr. Radoslaw Kolkowski, Mr. Debapriya Pal, Dr. Said Rodriguez, Prof. Peter Schall, Prof. Femius Koenderink

5:14pm Metalenses with polychromatic reflectivity for AR
» Dr. Giovanni Magno, Dr. Béatrice Dagens, Dr. Marco Grande, Dr. Olivier Gauthier-Lafaye, Prof. Antonella D'Orazio

4:40pm Hot Electrons
Room 507
Chaired by: Prof. Andrzej Kudelski

4:40pm Plasmon-Assisted Hot Electron Generation in Gold Coated Inverted Silicon Pyramid Arrays
» Dr. Luis Alberto Pérez, Dr. Jinhui Hu, Dr. Juan Luis Garcia-Pomar, Dr. Agustín Mihi, Dr. Miquel Garriga, Dr. M Isabel Alonso, Dr. Alejandro R Goñi

4:57pm Untangling the emission from nanostructured gold substrates
» Dr. Wouter Koopman, Mr. Jan Kutschera, Dr. Felix Stete, Prof. Matias Bargheer

5:14pm Light matter strong coupling as trigger for electron transfer in plasmon - exciton systems
» Dr. Katarzyna Kluczyk-Korch, Ms. Maria Bancerek, Dr. Rania Zaier, Prof. Tomasz J. Antosiewcz

5:30pm Closing Session
Auditorium