

EurAsian Conference on Nanophotonics 2020

Virtual Meeting

October 5-7, 2020

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PROGRAM

MONDAY // OCTOBER 5, 2020

08:10 **Opening Remarks** // Juergen Popp & Jer-Shing Huang
14:10 (Leibniz IPHT)

SESSION I: PLASMONICS, METAMATERIALS, 2D MATERIALS
Chair: Jer-Shing Huang

08:20 **Controlled growth of transition metal dichalcogenide monolayers for application in nanoelectronic and nanophotonic devices** // Andrey Turchanin (University Jena)
14:20

08:35 **Plasmonic Metasurface-Enhanced Linear and Nonlinear Processes in Two-Dimensional Semiconductors** // Shangjr (Felix) Gwo (Academia Sinica)
14:35

08:50 **Integration of two-dimensional materials in optical systems for nonlinear optics, sensing, and single photon source** // Falk Eilenberger (Fraunhofer IOF)
14:50

09:05 **The Nature of van der Waals Epitaxy** // Shih-Yen Lin (Academia Sinica)
15:05

09:20 COFFEE BREAK
15:20

SESSION II: PLASMONICS, METAMATERIALS, 2D MATERIALS
Chair: Falk Eilenberger

09:30 **Empowering Bilayer MoS₂ by Engineered Plasmonic Nanostructures for Optoelectronic Applications** // Ta-Jen Yen (National Tsing Hua University)
15:30

09:45 **Nonlinear frequency conversion in nanostructured optical systems for application in quantum photonics** // Frank Setzpfandt (University Jena)
15:45

10:00 **Controlling Light-matter Interactions at Nanoscale with Plasmonics: From Spontaneous Emission to Lasing** // Yu-Jung Lu (Academia Sinica)
16:00

10:15 **Label-free sensing for biomedical diagnostics** // Ondrej Stranik (Leibniz IPHT)
16:15

10:30 VIRTUAL POSTER SESSION
16:30

TUESDAY // OCTOBER 6, 2020

SESSION III: SMART SYSTEMS
Chair: Ta-Jen Yen

08:10 **Microfluidic Synthesis of plasmonic Nanoparticles for Sensing Applications** // Andrea Csáki (Leibniz IPHT)
14:10

08:25 **Bridging Energy and Chemistry via Nanoarchitectonic Engineering at Atomic Scale** // Chun-Hong Kuo (Academia Sinica)
14:25

08:40 **Exploiting wave optics for infrared spectroscopy** // Thomas Mayerhöfer (Leibniz IPHT)
14:40

08:55 **Kirigami-based soft robots with light-responsive properties** // Yu-Chieh Cheng (National Taipei University of Technology)
14:55

09:10 **Nano-object detection in microstructured fibers** // Markus A. Schmidt (Leibniz IPHT)
15:10

09:25 COFFEE BREAK
15:25

SESSION IV: ADVANCED MATERIALS
Chair: Chun-Hong Kuo

09:35 **Toward a universal polymeric material for electrode buffer layers in organic optoelectronics** // Yian Tai (Taipei Representative Office in Federal Republic of Germany, and Representative Office of MOST, Taiwan)
15:35

09:50 **Supramolecular Control of Optical and Electrical Properties of Two-Dimensional Dye Layers** // Martin Presselt (Leibniz IPHT)
15:50

10:05 **Cobalt mediated controlled/living radical polymerization: from mechanism understanding to materials application** // Chi-How Peng (National Tsing Hua University)
16:05

10:20 **Molecular self-assembly methodology for rational construction of metallosupramolecules with high structural complexity** // Yi-Tsu Chan (National Taiwan University)
16:20

10:35 **Controlling the Oxidation State of Cu Electrode and Reaction Intermediates for Electrochemical CO₂ Reduction to Ethylene** // Heng-Liang Wu (National Taiwan University)
16:35

10:50 VIRTUAL POSTER SESSION
16:50

WEDNESDAY // OCTOBER 7, 2020

SESSION V: ADVANCED MATERIALS
Chair: Martin Presselt

08:10 **Functional Thin Films for Photonic Applications** // Jonathan Plentz (Leibniz IPHT)
14:10

08:25 **Carbodicarbene, Carbogenic Maverick, Not a Moderate!** // Tiow-Gan Ong (Academia Sinica)
14:25

08:40 **Quantum confined semiconductor nanostructures in light-driven catalysis** // Maria Wächter (Leibniz IPHT)
14:40

08:55 **Silicon Nanostructures from Hydrogen Generation to Nanomedicine** // Vladimir Sivakov (Leibniz IPHT)
14:55

09:10 COFFEE BREAK
15:10

SESSION VI: ULTRA-IMAGING
Chair: Tiow-Gan Ong

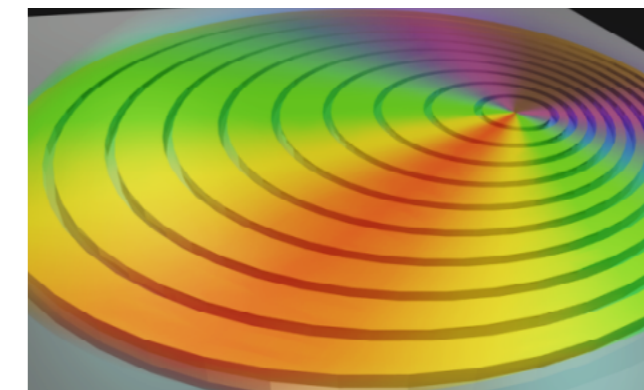
09:20 **New Environment Sensitive Fluorophores with Color-Tailored Emission: In Vivo Monitoring of Carbonic Anhydrases Expression on Growth of Larval Zebrafish** // Po-Chiao Lin (National Sun Yat-sen University)
15:20

09:35 **Plasmon Enhanced Probe Spectroscopies - Structural Investigation of Nanoscale Objects** // Volker Deckert (University Jena)
15:35

09:50 **Near Field Spectroscopic Imaging: from Hard to Soft Materials** // Chi Chen (Academia Sinica)
15:50

10:05 **Direct Observation of Reaction Intermediates of Metal-based Therapeutic Agents in Single Living Cell Using TERS** // Kien-Voon Kong (National Taiwan University)
16:05

10:20 **Closing Remarks** // Juergen Popp & Jer-Shing Huang (Leibniz IPHT)
16:20



08:00 → GERMAN TIME
14:00 → TAIWANESE TIME