

Physics and Simulation of Optoelectronic Devices XXVIII

Monday - Thursday 3 - 6 February 2020

Conference Sessions At A Glance

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OPTO Plenary Session

- 1: Electromagnetics/Plasmonics I
- 2: Active Materials for Optoelectronics
- 3: Minisymposium on Neuromorphic Computing with Optical Devices
- 4: Semiconductor Lasers: Numerical Modeling
- 5: Signal Encryption and Nonlinear Optical Systems
- 6: Quantum Dot Emitters
- 7: Photodetection
- 8: Nonlinear Photonics in Micro- and Nanostructures
- 9: Plasmonic Sensing
- 10: III-Nitride based Lasers and LEDs
- 11: Electromagnetics/Plasmonics II

Posters-Wednesday

- 12: Semiconductor Lasers and Nano Emitters
- 13: Integrated Ultra Lasers

Important Dates

Abstract Due:
24 July 2019

Author Notification:
30 September 2019

Manuscript Due Date:
8 January 2020

Conference Committee

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Additional Conference Information



SPIE Course Alert

See SPIE Course offerings on:
[Optoelectronic Materials and Devices](#)

Pre-registration is required for SPIE Courses.


MONDAY 3 FEBRUARY
[Shc](#)

Spectral analysis of surface band bending in organic-inorganic lead halide perovskites

Paper 11274-29

Time: 4:10 PM - 4:30 PM


Author(s): Hye Ri Jung, William Jo, Ewha Womans Univ. (Korea, Republic of)

[Add To My Schedule](#) **Advances in MUTC technology (Conference Presentation)**

Paper 11274-30

Time: 4:30 PM - 4:50 PM


Author(s): Madison Woodson, Steven Estrella, Kenneth Hay, Daniel Renner, Milan Mashanovitch, Freedom Photonics, LLC (United States)

[Add To My Schedule](#) **Prediction of optically-triggered amplification in phototransistor with SPICE circuit simulators**

Paper 11274-31

Time: 4:50 PM - 5:10 PM


Author(s): Chiara Rossi, Jean-Michel Sallese, Ecole Polytechnique Fédérale de Lausanne (Switzerland)

[Add To My Schedule](#) **Gate-controlled time-dependent photocurrent in a biologically inspired optoelectronics**

Paper 11274-37

Time: 5:10 PM - 5:30 PM


Author(s): Fabienne Michelini, Institut Matériaux Microélectronique Nanosciences de Provence (France); Katawoura Beltako, Okinawa Institute Technology Graduate Univ. (Japan); Dmitry Cherepanov, Victor Nadtochenko, N.N. Semenov Institute of Chemical Physics (Russian Federation)

[Add To My Schedule](#) **NIR optical properties of SWCNTs based on ab-initio calculations and the transfer matrix method**

Paper 11274-32

Time: 5:30 PM - 5:50 PM

Author(s): Ahmed Saeed, Electronics Research Institute (Egypt); Yasser M. Sabry, Ain Shams Univ. (Egypt), Si-Ware Systems (Egypt); H. A. Si Electronics Research Institute (Egypt); Diaa Khalil, Ain Shams Univ. (Egypt), Si-Ware Systems (Egypt)

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WEDNESDAY 5 FEBRUARY[Shc](#)

**Session 8:
Nonlinear Photonics in Micro- and Nanostructures**

Wednesday 5 February 2020

9:00 AM - 10:10 AM


Location: Room 311 (Level 3 South)

Session Chair: [David de Felipe Mesquida](#), Fraunhofer-Institut für Nachrichtentechnik, Heinrich-Hertz-Institut, HHI (Germany)**Dynamical chaos in silicon micro-cavity optomechanics for physically-enhanced information processing (Conference Presentation)**

Paper 11274-33

Time: 9:00 AM - 9:30 AM


Author(s): Jia-Gui Wu, Univ. of California, Los Angeles (United States)

[Add To My Schedule](#) **Synchronization of coupled monolithic ring laser frequency combs**

Paper 11274-34

Time: 9:30 AM - 9:50 AM

Author(s): Marco Piccardo, Dmitry Kazakov, Shantanu Jha, Harvard Univ. (United States); Maximilian Beiser, Benedikt Schwarz, Technische Universität Wien (Austria); Federico Capasso, Harvard Univ. (United States)

[Add To My Schedule](#) **Generating optical frequency combs via nanoscale photonic structures**

Paper 11274-36

Time: 9:50 AM - 10:10 AM

Author(s): Henry Francis, Si Chen, The Univ. of Sheffield (United Kingdom); Kai-Jun Che, Xiamen Univ. (China); Xiaodong Zhang, Zhejiang Univ. (China); Mark Hopkinson, The Univ. of Sheffield (United Kingdom); Chaoyuan Jin, Zhejiang Univ. (China), The Univ. of Sheffield (United Kingdom)

