

Smart Photonic and Optoelectronic Integrated Circuits XXII

Monday - Thursday 3 - 6 February 2020

Conference Sessions At A Glance

SHOW | HIDE

OPTO Plenary Session

- 1: Photonics Based on Artificial Intelligence I
 - 2: Photonics Based on Artificial Intelligence II
 - 3: Integration, Manufacturing and Photonic Circuits
 - 4: Design and Material of Photonic Integrated Devices I
 - 5: Light Modulation
 - 6: Hyperbolic Metamaterials
 - 7: Plasmonic and Metasurfaces
 - 8: Mid-Infrared Optoelectronics I
 - 9: Mid-Infrared Optoelectronics II
 - 10: Design and Material of Photonic Integrated Devices II
 - 11: Control, Manipulation, and Detection of Photons
- Posters-Wednesday
- 12: New Light-Induced Properties
 - 13: Sensing
 - 14: Reconfigurable Systems and Light Switching
 - 15: Lidar Approaches

Important Dates

Abstract Due:
24 July 2019Author Notification:
30 September 2019Manuscript Due Date:
8 January 2020

Conference Committee

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MONDAY 3 FEBRUARY

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Session Plen: OPTO Plenary Session

Time: 8:40 AM - 9:20 AM

Author(s): Iñigo Molina-Fernández, Gonzalo Wangüemert-Perez, Alejandro Ortega-Moñux, Robert Halir, Jose de Oliva Rubio, Alejandro Sánchez José Manuel Luque-González, Abdelfettah Hadif-ElHouati, Daniel Pereira-Martín, Univ. de Málaga (Spain); David González-Andrade, Instituto "Daza de Valdés", Consejo Superior de Investigaciones Científicas (Spain); Aitor Villafranca-Velasco, Alaine Herrero-Bermello, Instituto de Ópt Valdés" (Spain); Jens H. Schmid, Pavel Cheben, National Research Council Canada (Canada); Jiri Ctyroky, Institute of Photonics and Electron v.v.i. (Czech Republic)

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Silicon chip-integrated fiber couplers with sub-decibel loss *(Invited Paper)*

Paper 11284-19

Time: 9:20 AM - 9:45 AM

Author(s): Daniel Benedikovic, Ctr. de Nanosciences et de Nanotechnologies, CNRS, Univ. Paris-Sud, Univ. Paris-Saclay (France); Carlos A. A Ctr. de Nanosciences et de Nanotechnologies (France); Sylvain Guerber, STMicroelectronics S.A. (France); Cecilia Dupre, Bertrand Szlag, CI Grenoble Alpes (France); Xavier Le Roux, Ctr. de Nanosciences et de Nanotechnologies (France); Pavel Cheben, National Research Council (Canada); David Fowler, CEA-LETI, Univ. Grenoble Alpes (France); Guillaume Marcaud, Vladyslav Vakarin, Ctr. de Nanosciences et de Nanot (France); Diego Pérez-Galacho, Instituto de Telecomunicaciones y Aplicaciones Multimedia, Univ. Politécnica de Valencia (Spain); Delphine M; Eric Cassan, Ctr. de Nanosciences et de Nanotechnologies (France); Charles Baudot, Frédéric Boeuf, STMicroelectronics S.A. (France); Laure de Nanosciences et de Nanotechnologies (France)


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III-V semiconductors: Powerful material platforms for nonlinear photonics (Conference Presentation) *(Invited Paper)*

Paper 11284-20

Time: 9:45 AM - 10:10 AM

Author(s): Ksenia Dolgaleva, Univ. of Ottawa (Canada)


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Development of tunable longwave infrared filters based on guided-mode resonance *(Invited Paper)*

Paper 11284-21

Time: 10:10 AM - 10:35 AM

Author(s): Neelam Gupta, U.S. Army Combat Capabilities Development Command Research Lab. (United States); Mark S. Mirotznik, Univ. of I (United States); Robert Magnusson, The Univ. of Texas at Arlington (United States)

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Coffee Break 10:35 AM - 11:00 AM

**Session 5:
Light Modulation**

Tuesday 4 February 2020

11:00 AM - 12:35 PM

Location: Room 76 (Lower Mezzanine South)


Session Chair: [Bertrand Szlag](#), CEA-LETI (France)

High-efficiency membrane InGaAsP Mach-Zehnder modulator on Si platform *(Invited Paper)*

Paper 11284-22

Time: 11:00 AM - 11:25 AM


Author(s): Tatsuro Hiraki, Takuma Aihara, Koji Takeda, Takuro Fujii, Takaaki Kakitsuka, Tai Tsuchizawa, Hiroshi Fukuda, Shinji Matsuo, NTT D Technology Labs. (Japan)


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Barium titanate-on-insulator optoelectronics: a platform superior to lithium niobate

Paper 11284-23

Time: 11:25 AM - 11:40 AM

Author(s): Yu Cao, Siew Li Tan, Eric J. H. Cheung, National Univ. of Singapore (Singapore); Hassan Ahmad, Univ. Polytechnique Hauts-de-Fra Yan Liu, National Univ. of Singapore (Singapore); El Hadj Dogheche, Univ. Polytechnique Hauts-de-France (France); Venky Venkatesan, Aaror National Univ. of Singapore (Singapore) 

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Modulation characteristics of surface-emitting ring DFB quantum cascade lasers

Paper 11284-25