



RIAPA

OED-2021

International Advanced School on Optoelectronic Devices

June 10-11, 2021

All Virtual School



Final Program

RIAPA
OED
2021

Research Institute for Applied Physics and Astronomy, University of Tabriz, Tabriz, Iran

<https://riapa.tabrizu.ac.ir/en/page/9640/riapa-oed-2021>



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Optoelectronics is the field of technology that combines the physics of light with electricity. It incorporates the design, study, and manufacture of hardware tools that convert photon signals into electrical signals and electrical signals to photon signals. Any tool that performs as an electrical-to-optical or optical-to-electrical is considered an optoelectronic device. Optoelectronics is built upon the quantum mechanical belongings of light on the electronic instrument, from time to time in the attendance of electric fields, primarily semiconductors. Optoelectronic technologies involve laser organisms, solar cells, LEDs, SLDs, remote sensing systems, communications systems, optical info-systems, Bio-Photonics, and

RIAPA-OED 2021: International School on Optoelectronics devises is the interdisciplinary forum for the presentation of new advances and research results in the fields of Optoelectronics. The school will bring together leading academic scientists, researchers, and scholars in the domain of interest from around the world.





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School Topics

- Optoelectronics Systems - Modelling, Design, Operation, and Performance
- New Materials and Concepts for Optoelectronics Devices
- Inorganics Materials and Devices
- 2D, 1D, and 0D Materials and Devices
- Perovskites and Other Non-Silicon Materials and Devices, Multijunction/Tandems
- Applications and Trends in Optoelectronics
- Industrial Applications of Optoelectronic Devices





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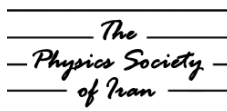
Sponsors of School



Photonics Center of
Excellence
University of Tabriz



East Azerbaijan Science and
Technology Park



The Physics Society of Iran



The Optics and Photonics
Society of Iran



Islamic World Science
Citation center



Narvan Silk-Road Trading Co.



Research Institute for Applied Physics and Astronomy, University of Tabriz, Tabriz, Iran



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Scientific Committee



Prof. Jean-Michel Nunzi
Queen's University, Canada



A/Prof. Sohrab Ahmadi-Kandjani
University of Tabriz, Iran



Prof. Abdolreza Simchi
Sharif University of
Technology, Iran



Prof. Vahid Ahmadi
Tarbiat Modarres
University, Iran



Prof. Ezeddin Mohajerani
Shahid Behehsti
University, Iran



Prof. Yaser Abdi
University of Tehran, Iran



Prof. Asghar Asgari
University of Tabriz, Iran
(School Chair)



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Lecturers



Prof. Michael Saliba
University of Stuttgart,
Germany



Prof. Li Yongfang
Chinese Academy of
Sciences, China



Prof. Jean-Michel Nunzi
Queen's University, Canada



Prof. Ch. Jagadish
Australian National
University, Australia



Dr. Tayebbeh Ameri
University of Edinburgh, UK



Prof. Karl Leo
TU Dresden, Germany



Prof. Sanjay Mathur
University of Cologne,
Germany



Prof. Joachim Piprek
NUSOD Institute LLC, USA



Prof. R. Tuğrul Senger
İzmir Institute of Technology,
Turkey



Dr. Sara Darbari
Tarbiat Modares
University, Iran



Dr. Mahdi Pourfath
University of Tehran,
Iran





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Titles

Prof. Ch. Jagadish	Semiconductor Nanowires for Optoelectronics Applications
Prof. Michael Saliba	The versatility of perovskites for optoelectronics
Prof. Sanjay Mathur	Efficient Photon-harvesting Technologies for Water Splitting Reactions
Prof. Karl Leo	Organic semiconductors: from a lab curiosity to applications
Dr. Tayebbeh Ameri	Advanced Approaches Toward Highly Efficient and Stable Solution-Processed Photovoltaics
Prof. Jean-Michel Nunzi	Hot-electron, graphene and perovskite photo-detectors
Prof. Li Yongfang	Recent research progress of photovoltaic materials for polymer solar cells
Dr. Mahdi Pourfath	Plasmonics of Anisotropic 2D Materials
Prof. Tuğrul Senger	Photogenerated Carriers and Excitons in Halide Perovskites
Dr. Sara Darbari	Plasmonic tweezers: an efficient tool for Lab-on-a-chip systems
Prof. Joachim Piprek	Physics and Simulation of GaN-based Light Emitters





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Schedule of Events

10 June 2021, Thursday

Local Time	Speakers' country Time	Event
8:30-9:00		Opening
09:00-10:00	(+5:30) 14:30-15:30	Prof. Ch. Jagadish
10:00-10:15		Break
10:15-11:15	(+3:30) 13:45-14:45	Prof. Yongfang Li
11:15-11:30		Break
11:30- 12:30	(-2:30) 09:00-10:00	Prof. Sanjay Mathur
12:30- 14:30		Launch time Poster 1
14:30-15:30	(-2:30) 12:00-13:00	Prof. Karl Leo
15:30-15:45		Break
15:45-16:45	(-3:30) 12:15-13:15	Dr. Tayebbeh Ameri
16:45-17:00		Break
17:00-18:00	(-8:30) 8:30-9:30	Prof. J-M Nunzi





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Schedule of Events

11 June 2021, Friday

Local Time	Speakers' country Time	Event
09:00-10:00	09:00-10:00	Dr. Mahdi Pourfath
10:00-10:15		Break
10:15-11:15	(-2:30) 07:45-08:45	Prof. Michael Saliba
11:15-11:30		Break
11:30- 12:30	(-1:30) 10:00-11:00	Prof. Tuğrul Senger
12:30- 14:30		Launch time Poster 2
15:00-16:00	15:00-16:00	Dr. Sara Darbari
16:00-16:15		Break
16:15-17:15	(-8:30) 07:45-08:45	Prof. Joachim Piprek
17:15-17:45		Poster Awards, Closing

