

OPTIC 2015 Student Paper Award

Nanophotonic Materials and Devices		
Pei-Ru Wu	Optical Helicity Analyzer Based on Metasurface	Department of Physics, National Taiwan University
Jia-Wei Wu	Bendable Hybrid Silicon Thin Film Solar Cells	Graduate Institute of Photonics and Optoelectronics, National Taiwan University
Chung-Ying Lin	Switchable Surface Plasmon Subwavelength Focusing and Bi-directional Vortex Creation in a Metasurface	Institute of Photonics Technologies, National Tsing Hua University
Jeng Yi Lee	Phase Diagram to Design Passive Scatterers	Institute of Photonics Technologies, National Tsing Hua University
Quantum Electronics		
Yu-Chung Chiu	Off-axis THz Parametric Oscillator	Institute of Photonics Technologies, National Tsing Hua University
Yu-Hao Hsiao	Room Temperature Lasing Characteristics in GaN Spiral Metal Cavity Nanolasers	Department of Photonics & Institute of Electro-Optical Engineering, National Chiao Tung University
Chih-Hsuan Lu	Generation of Intense Supercontinuum in Condensed Media	Institute of Photonics Technologies, National Tsing Hua University
Optical Waveguides and Communications		
Cheng-Ting Tsai	256-QAM OFDM Modulation of a Colorless Laser Diode for 40-Gbit/s 25-km Fiber Transmission	Graduate Institute of Photonics and Optoelectronics and Department of Electrical Engineering, National Taiwan University
Yu-Han Hung	Semiconductor lasers at Period-One Dynamics for Local-Oscillator-Free Photonic Microwave Down-Converters	Department of Photonics, National Cheng Kung University
Hsin-Yu Wu	A 200-Gbps OFDM Long-Reach PON over 60-km Transmission without Inline and Pre-Amplifier	Department of Photonics, National Chiao Tung University

Yu-Hsiang Wen	Timing-mismatch Tolerance of All-optical Modulation Format Conversion from NRZ-OOK to PDM RZ-QPSK Based on XPM in a HNLF	Institute of Photonics Technologies, National Tsing Hua University
Jing-Chi Du	Fiber In-line Mach-Zehnder Sensor Based on Etched Photonics Crystal Fiber	Department of Photonics, National Sun Yat-sen University
Display Technology		
Shiuan Yun Li	Complementary Logic Inverters Composed of N-Channel ZnO and P-Channel SnO Thin-Film Transistors	Graduate Institute of Photonics and Optoelectronics, National Taiwan University of Science and Technology
Chen-Yu Chien	Integration of a-IGZO-based Thin-film Transistor and Resistive Random Access Memory for Memory-in-pixel Display Applications	Department of Photonics and Display Institute, National Chiao Tung University
Optical Information Processing and Holography		
Yi-Hao Chen	Plasmonic Metasurface for Color Hologram	Department of Physics, National Taiwan University
Chen Yen Lin	Optically Sectioned Volume Holographic Endoscopy	Institute of Medical Device and Imaging, National Taiwan University
Lun-Kuang Lin	Study on Volume Polarization Holographic Recording in PQ/PMMA for Optical Memory	Department of Electrophysics, National Chiao Tung University
Optical Design and Testing		
Meng-Che Tsai	LED Package Lens Design for Short Distance Color Mixing	Graduate Institute of Applied Science and Technology, National Taiwan University of Science and Technology
Yung Hsiang Hsu	Self-Aligned Dual Hole-Patterned Electrode Liquid Crystal Lens with Positive and Negative Variable Focuses	Department of Photonics, National National Cheng Kung University
Zhi-Ting Ye	Thin Hollow Light Guide for High Efficiency Planar Illuminator	Department of Photonics & Institute of Electro-Optical Engineering, National Chiao Tung University
Yu-Jen Wang	A Polarizer-free Liquid Crystal Lens Exploiting an Embedded-multilayered Structure	Department of Photonics, National Chiao Tung University

Biophotonics		
Kuo-Jen Hsu	All-in-focus Microscopy for Brain Functional Imaging	Department of Physics, National Taiwan University
Shun-Jen Hsiao	Improved Laser Scanning Optical Resolution Photoacoustic Microscopy Using a Focused Ultrasound Transducer	Department of Electrical Engineering, National Tsing Hua University
Chia-Lun Tsai	Characterization of Two Photon Excitation from Red-activatable Channelrhodopsin	Institute of Photonics Technologies, National Tsing Hua University
Photovoltaic Technology		
Pei-Ying Lin	Fabrication of Perovskite-base Hybrid Solar Cells by Electrospray Technique	Department of Photonics, National Cheng Kung University
Wei-Nien Chen	Improving the Efficiency of CH ₃ NH ₃ PbI ₃ Based Photovoltaics by Tuning the Work Function of the PEDOT: PSS Thin Film	Research Center for New Generation Photovoltaics, National Central University
Sheng-Pang Lin	High-Efficiency Planar-Structure Perovskite Solar Cells from Low Pressure and Low Temperature Process	Graduate Institute of Photonics and Optoelectronics, National Taiwan University
Solid State Lighting		
Liang-Zhu Yu	High Efficient Packaging Structure with High Concentration Phosphor Matrix	Department of Optics and Photonics/ Institute of Lighting and display , National Central University
Wen-Yi Lan	Vapor-Liquid-Solid Growth of Aluminium Nitride Nanorod Template for GaN Based Light-Emitting Diodes	Graduate Institute of Photonics and Optoelectronics, National Taiwan University
Bo-Yu Wei	Investigation of Green Micro-QDs-LEDs Using Color Conversion Technique and Reflectors	Department of Photonics, National Cheng Kung University

Thin Film Technology & Optical Engineering

Shuo Hwai	Transferring-Free Top-Gated Graphene Transistors Fabricated on Graphene Films Directly Grown on Sapphire Substrates	Graduate Institute of Electronics Engineering, National Taiwan University
Ting-Yang Chen	Thin Film Transistor-Based Biosensors Combined with Microfluidic Channels for Detecting Protein-Ligand Interactions	Graduate Institute of Photonics and Optoelectronics, National Taiwan University
Jen-Chuan Dai	Narrow line-width Electroluminescence at Cutoff Wavelength from Bilayer Organic Waveguide Devices	Department of Optics and Photonics, National Central University
Chi-Tsung Tsai	Characteristic Analyses of Al _x Ga _{1-x} N Templates Grown by HVPE for UV-LED Applications	Department of Materials Science and Engineering, National Chung- Hsing University