

FOP 2026: Accepted Oral Presentations

Please note that your presentation time is 15 minutes (12 minutes for the presentation and 3 minutes for Q&A).

Paper ID	First Name	Last Name	Paper Title	Presentation Type
FOP001	Jhuma	Dutta	Excitation and Momentum Resolved Multi-Polaritonic Emission Mapping in Hybrid Organic- 2D Material Microcavity	oral
FOP003	James Singh	Konthoujam	Advancing Light Emission from 2D Semiconductor Devices Through Van der Waals Contact Engineering	oral
FOP004	PALASH	MAKUMURIA	Molecular Resonance- and Charge-Transfer- Assisted Surface-Enhanced Raman Scattering using Molybdenum Oxide Nanoparticles	oral
FOP005	Meera	V	Sb2S3 FILMS FOR LOW-LOSS RECONFIGURABLE PHOTONICS	oral
FOP017	Anushree	Khisti	Multimodal Optical Feature Extraction with a Free-Space Photonic Extreme Learning Machine	oral
FOP019	Kritarth	Srivastava	Selective-State Residual-Based DSP for 2.24 Tbps Coherent DWDM Transmission	oral
FOP020	Vishal	Srivastava	Virtual Staining Microscope for Label-Free Liver Cancer Histopathology	oral
FOP021	Nikhil	Vangety	Robust 64-Ary Optical Communication through Multimode Fiber Using Scaled LG Modes and Deep Learning	oral
FOP027	Keerthana	A	Near Infrared Imaging system for Tissue Oxygenation and Perfusion Assessment for Diabetic Foot Ulcer	oral
FOP030	Shivam	Chaubey	Polarization-Resolved Wide Field-of-View Digital Holographic Microscope	oral
FOP033	Nripesh	Dixit	Low-Power Sono-Neurophotonic Control of Calcium-Dependent Synaptic Plasticity in the Brain	oral
FOP035	Abritty	Kisku	Quantitative assessment of retinal microvasculature density changes in metabolic dysfunction-associated steatotic liver disease with OCT Angiography	oral
FOP039	PRAVEEN	KUMAR	One-Dimensional Photonic Crystal Sensor for Early MGUS Screening Using Tamm Plasmon Resonance	oral
FOP043	Chetna	Patel	Classification of Red Blood Cells using Photothermal Holography	oral
FOP044	Pritam	Pradhan	Customization of the through-focus visual Strehl ratio in extended depth of focus intraocular lenses	oral
FOP051	Mridul	Verma	Benchmarking Deep Learning Reconstruction Models for SparseView Photoacoustic Tomography on OADAT Dataset	oral
FOP057	Nishant	Goyal	3D Phase Imaging using Single-View Structured Illumination	oral

FOP059	Jasleen	Birdi	Learning Phase Diversity for Robust Computational Imaging	oral
FOP060	TOTAN	CHAND	Optical design of a compact prime focus wide-field corrector using aspherical optics with atmospheric dispersion compensation	oral
FOP061	Umesh	Dhatrak	Optimal support to minimize the self-weight deformation for a cylindrical Fabry-Perot cavity	oral
FOP062	RATNABALI	GHOSH	INVESTIGATION OF DETECTOR TRANSLATION FOR REFOCUSING IN A COMPACT IMAGING SYSTEM	oral
FOP067	J. Sreekantha	Reddy	A Plenoptic Wavefront Sensing Framework for Atmospheric Turbulence Characterization and Adaptive Optical Imaging	oral
FOP070	Alex	Singh	Development of Low-cost Spectrometer for Pesticide detection using ML	oral
FOP072	Mohit	Sisodiya	Millimeter Wave Over Fiber System with Nakagami-m Fading and Adaptive Equalization for 5G C-RAN	oral
FOP076	ANITTA	JOMY	Holographic Modal Wavefront Sensing Using Spatial Intensity Distribution and Convolution Neural Network	oral
FOP082	Anuvratha	Vijay	Adaptive Wavefront Shaping for Optical Focusing and Imaging Through Scattering Media	oral
FOP083	DIKSHA	KARNATAK	Generation and Validation of Phase Screen using Zernike Based Method	oral
FOP085	Bhoomika	Saxena	A Real-Time Implementation of an Adaptive Autofocus Algorithm leveraging NVIDIA Jetson AGX Orin	oral
FOP094	Elisa	Mathew	Experimental Demonstration of Fading Mitigation Using Spatial Diversity in Multi-Core Fiber	oral
FOP107	Sharashti	Saxena	Bandwidth Evolution under Co- and Counter-Propagating Brillouin Gain and Loss	oral
FOP116	Arannya	Ghosh	All-optical anti-skyrmions and anti-merons in Difference frequency generation	oral
FOP125	Priyanshu	Pandey	Kramers–Kronig Receiver for Direct-Detection Measurement of Fiber Kerr Nonlinearity	oral
FOP129	Love	Sharma	Negative-Temperature States in Multimode Solitons	oral
FOP140	Deepak	Kumar	Single-Shot Jones Matrix Extraction Using a Common-Path Intensity Measuring Techniques	oral
FOP142	Shadiya	M P	Development of a Programmable Quadriwave Interferometric Wavefront Sensor for Aspheric Testing	oral

FOP143	Harikrishnan	P	Comparison of Fourier Transform Speckle Profilometry and Temporal Phase Unwrapping using a Recursive Algorithm in Wavelength-tuning Interferometry	oral
FOP147	Chhavi	Verma	Optimal contrast criterion for accurate classification of phase objects from their in-line holograms	oral
FOP164	Saumya	Sarkar	Design of a Long Working-Distance, High-Numerical-Aperture Objective Lens for Optical Trapping and Fluorescence Imaging	oral
FOP165	Parag	Sharma	Establishment of Luminous Flux Scale using Recently Created Facility at CSIR-NPL India	oral
FOP167	Harupjit	Singh	Reduction of the Laser Intensity Noise for the Optical Setup of Quantum Frequency Standard	oral
FOP168	Aniket	Pandey	Projection-based Grayscale Photolithography for Beam Shaping	oral
FOP169	Sayan	Chaki	On-Chip Polarization-Independent Edge Coupler Design for O-Band Operation	oral
FOP172	Shiva	Kondeti	Inverse-Designed Ultra-Compact Photonic Logic Circuit for Half Adder Implementation on an SOI Platform	oral
FOP179	DEBASISH	MISHRA	3kW Narrow Linewidth Fiber LASER For Multi-Wavelength LASER Beam Combining Based DEW System	oral
FOP180	Rajneesh	Fulara	Ground-State Search via Intrinsic Feedback Annealing in Coupled Laser Arrays	oral
FOP182	Anirban	Ghosh	High-Power femtosecond Dual-Pulse OPO with Tunable Polarization, Wavelength, Delay, and Repetition Rate	oral
FOP187	NEETHU	K	Spatial Coherence Control of Structured Beams in a Degenerate Cavity Laser: Binary versus Gaussian Fourier Filtering	oral
FOP192	Diksha	Sharma	On-chip random lasing from clusters of quasi- monodispersed microdroplets in amplifying medium	oral
FOP195	Shweta	Verma	Glow discharge spectral data analysis with machine learning for accurate identification of gas mixture compositions for CO2 lasers	oral
FOP197	Bhanu	Yadav	Tunable modulation depth in multimode-interference saturable absorbers for 2 μ m fiber lasers.	oral
FOP198	Manjesh	Bhaskar	Optical PAM-16 Signal Generation Using Mach–Zehnder Interferometer	oral
FOP199	Md	Afroz	A Self-Adaptive Microwave Photonic Anti-Jamming Architecture Based on Stimulated Brillouin Scattering	oral
FOP200	Bhawana	Andola	Engineering Ultra-Broadband Terahertz Absorption in Flexible Metamaterials	oral

FOP201	Mukundadev	Behera	Photon-Energy-Dependent Terahertz Emission Spectroscopy of Ferrimagnetic Spintronic Heterostructures	oral
FOP204	DIVYA SREE	K	Experimental Demonstration of an Opto-Electronic Self-Interference Cancellation System for 5G In-Band Full Duplex Communication	oral
FOP205	Atul	Khanna	Centre Frequency Tuneable Linear Frequency Modulated Dual-Chirp generation for Microwave Photonic FMCW Radar	oral
FOP216	Golak	Bage	External Grating-induced Band Inversion Trapped State on Optical Nanofiber	oral
FOP226	Shyambhargav	Jodidar	Surface plasmon polaritons guided nanoparticle assembly beyond the metal–dielectric interface	oral
FOP229	Faizan	Lone	Control of Nitrogen-Vacancy Center Emission Using Compact Disc-Derived Plasmonic Gratings	oral
FOP237	SAHIL	RATHI	Deterministic strong light matter interaction in QDs-Bowtie on Silver substrate	oral
FOP240	Vivek	Semwal	Detection of small molecules Using a Plasmonic Chip on an Optical Fiber Microfluidic Platform	oral
FOP249	Vendamani	V S	Flexible SERS-based Hybrid ZIF-8@Copper Nanodendrite Substrates for Real-time Monitoring of Hazardous Molecules	oral
FOP252	Abhishek	Yogi	Towards real-time measurements of fast spectral dynamics of single fluorophores	oral
FOP253	Vikram	Bhandari	LWIR all-Silicon ultrathin spherical metalens design and numerical simulations	oral
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FOP277	Sirisha	J	Diamond Like Carbon Antireflection coatings for optical C-Band Applications	oral
FOP278	Madhavi	Thakre	Design of Compact multispectral imaging system for remote sensing applications	oral
FOP279	ANJITHA	VISWANATH	Active-Medium-Induced Scale Factor Variations in Prism-based Ring Laser Gyroscopes for Space Navigation	oral
FOP288	Abel	Joseph	Reconfigurable Dielectric Metasurface for Polarization Switching	oral
FOP291	Raghwendra	Kumar	Switching of bands in a graphene assisted metamaterial absorber	oral
FOP295	Vanlal	Rinfela	Light-Controlled Lattice Engineering for Reconfigurable Terahertz Metadevices	oral
FOP297	Mitali	Sahu	Plasmonically Hybridized Broadband Graphene Metasurface for Terahertz Dual-Band Four-Wave Mixing	oral

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FOP326	PRIYANKA	KANDANKEL	CHARACTERISATION OF A BIPHOTON SOURCE FOR QUANTUM SUPER-RESOLUTION IMAGING	oral
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FOP328	chahat	kaushik	Quantum sensing by tunable exchange symmetry control using geometric phase	oral
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FOP340	CHIRANGBHAI	PATEL	Towards Demultiplexing of OAM-Multiplexed Bright Twin Beams	oral
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FOP360	Abhishek	Dutta	Susceptibility-Engineered Polarization Shaping of Structured Light in Rubidium Vapor	oral
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FOP382	Dileep	Upadhyay	Determination of 3-D Spin Densities	oral
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FOP393	Munindra	Kushwaha	Modelling of Three-Dimensional Refractive Index Map in Optical Diffraction Tomography	oral
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