

6th IEEE International Workshop on Recent Advances in Photonics, 7-9th Dec. 2023, IIT-Allahabad, Prayagraj, India

Tentative Schedule

Day-1: 7 th December 2023 (Thursday)	
Time	Event
7:30 - 8:30 AM	Breakfast at Institute Cafeteria
9:30 - 10:30 AM	Registration Venue: CC-3, Ground Floor
<b style="color: red;">Special Session- I Tutorial Session, Venue: 5055, CC-3 Session Chairs: Prof. R. Vijaya, IIT Kanpur & Dr Upendra Kumar, IIT Allahabad	
10:15 – 11:00 AM	Talk-1: Dr Amit Agarwal, IRDE, Dehradun Title: Micro-Optics Technology and its Applications
11:00-11:15 AM	Tea
11:15 – 12:00 PM	Talk-2: Dr Rajan Jha, IIT Bhubneshwar (online) Title: Plasmonics: Fundamentals and Application to Quantum
<b style="color: red;">Special Session- II Women in Engineering Venue 5055, CC3 Session Chairs: Dr. Anjali Gautam, IIITA, and Dr. Shweta Tripathi, Chair, WIE, UP Section	
12:00 – 12:35 PM	<b style="color: blue;">Keynote Session – I <b style="color: green;">Keynote Talk-1: Prof. R. Vijaya, IIT Kanpur <b style="color: red;">Title: Optical Fibers and Nonlinear Photonics to Build New Low-power Lasers
12:35-12:45 PM	About WIE, Dr. Shweta Tripathi
12:45-1:05 PM	<b style="color: red;">Invited Talk : Dr. Triranjita Srivastava, Allahabad University <b style="color: red;">Title: Photonics spin Hall effect in Plexcitonic System
1:05 - 1:20 PM	Oral (Paper ID-103)(O-1) Priyanka Sharma Investigation on Linear Mode Coupling in a Commercial Graded-Index Few Mode Fiber
1:20- 1:35 PM	Oral (Paper ID-42) (O-2) Garima Joshi, Millimeter-sized lens array on polymer surface
1:35–2:00 PM	Activity and Student pitching session/ Discussion session
2:00 - 3:00 PM	Lunch at Institute Cafeteria
<b style="color: blue;">Keynote Session – II Venue 5055, CC3 Session Chair: Dr. Naresh Chand & Dr. Rajat Kumar Singh	
3:00-3:35 PM	<b style="color: red;">Keynote Talk-1: Prof. Yogendra Kumar Mishra, University of Southern Denmark <b style="color: red;">Title: Tetrapods-based Smart Materials for Advanced Technologies
3:35- 4:10 PM	<b style="color: red;">Keynote Talk-2: Prof. Yasushi Takahashi, Osaka Metropolitan University, Japan <b style="color: red;">Title: Raman silicon lasers using photonic crystal high-Q cavities and their applications
4:10- 4:20 PM	Tea
4:20- 6:20 PM	<b style="color: blue;">Poster Session – I (Day-1) Venue: Main Auditorium, First Floor Session Chair: Prof. Yogendra Kumar Mishra & Pro Yasushi Takahashi & Dr. Shanthi Bhushan, IIT Allahabad Poster No: P-1 TO P-50
6:30 PM -7:30 PM	Cultural Event- Main Audi
7:30 PM	Dinner at Institute Cafeteria

**6th IEEE International Workshop on
Recent Advances in Photonics,
7-9th Dec. 2023, IIT-Allahabad, Prayagraj, India**

Day-2: 8 th December 2023 (Friday)	
Time	Events
7:30 - 8:30 AM	Breakfast at Institute Cafeteria
8:30 - 9:00 AM	Registration
9:00 - 10:00 AM	Inaugural Session
<p style="text-align: center;">Keynote Session – III Venue 5055, CC3 Session Chairs: Prof. Navneet Gupta, BITS Pilani, Pilani Campus, Dr. Sanjai Singh, IIT Allahabad</p>	
10:00 – 10:30 AM	<p style="text-align: center;">Keynote Talk-3: Prof. Srinivas Talabattula, Indian Institute of Science Title: Integrated optic circuits for signal processing and computing applications</p>
10:30-11:00 AM	<p style="text-align: center;">Keynote Talk-4: Dr. Naresh Chand, Life Fellow IEEE, IEEE Photonics Society NJ 07059, USA Title: Photonics for National Defense</p>
11:00 - 11:30 AM	High - Tea
	<p style="text-align: center;">Session - A Track-5: THz photonics, Venue: CC-3, 5055 Session Chair: Dr. Mukesh Jewariya, NPL -CSIR, New Delhi</p>
	<p style="text-align: center;">Session – B Track-3: Optical Sensors Venue: CC-3, 5006 Session Chair: Dr. Sanjai Singh, IIT Allahabad</p>
11:30-11:50 AM	<p>Invited Talk: Dr. Somak Bhattacharyya, IIT BHU Title: Applications of Metasurfaces at the Terahertz Frequencies</p>
11:50-12:10 PM	<p>Invited Talk: Dr. Shriganesh Prabhu, TIFR Mumbai Title: THz Spectroscopy of Metamaterials using Far-Field and Near-Field Techniques</p>
12:10-12:30 PM	<p>Invited Talk: Dr. Arvind Singh, Institute of Physics of the Czech Academy of Sciences Title: Terahertz Plasmons in Periodic Structures of Epitaxial Graphene</p>
12:30-12:45 PM	<p>Oral Presentations (Paper ID – 16) (O-3) Modulation Characteristics of Ge₂Sb₂Te₅ Metasurface Terahertz Switch</p>
	<p>Oral Presentations (Paper ID – 45) (O-4) Stable Detection of Ionized Air by a highly excited Raman Silicon Nanocavity Laser</p>
	<p>Oral Presentations (Paper ID – 65) (O-5) Luminescence enhancement studies of europium ions by hydroxy naphthoic acid molecules in PVA film</p>
	<p>Oral Presentations (Paper ID – 79) (O-6) Vectorial light field encoding for asymmetric encryption</p>
	<p style="text-align: center;">Session- C Track-7: Photonic Crystal and Plasmonics Venue: CC-3, 5055 Session Chair: Dr. Amit Agarwal, IRDE-DRDO</p>
	<p style="text-align: center;">Session- D Track-8: Optoelectronic Device and Circuit Venue: CC-3, 5006 Session Chair: Prof. Srinivas Talabattula, IISc Bangalore/Dr. Kavindra Kandpal</p>
12:50 – 1:10 PM	<p>Invited Talk: Prof. Jitendra Kumar Pradhan, Rajendra University, Odisha Title: Daytime radiative cooling using band-selective infrared emitters</p>
1:10 – 1:30 PM	<p>Invited Talk: Prof. Akhilesh Kumar Mishra, IIT Roorkee Title: Evolution dynamics of Airy pulse in gain induced dispersive media</p>
	<p>Invited Talk: Dr. Navneet Gupta, BITS-Pilani Title: Polydimethylsiloxane (PDMS)-Based Flexible Sensors and Optoelectronic Devices</p>
	<p>Invited Talk: Dr. Nimish Dixit, IRDE-DRDO Title: Tunable Terahertz Generation and Imaging</p>

**6th IEEE International Workshop on
Recent Advances in Photonics,
7-9th Dec. 2023, IIIT-Allahabad, Prayagraj, India**

1:30 – 1:45 PM		Oral Presentations (Paper ID – 37) (O-7) Raman Scattering in a Silicon Photonic Nanocavity Operating at 1.1 μm	Oral Presentations (Paper ID – 05) (O-9) Effects of Central-dip on the Waveguide Parameters of NZDSF G.655 Fibers
1:45 – 2:00 PM		Oral Presentations (Paper ID – 08) (O-8) Nonlinear Photonic Crystal Based All-Optical OR Gate	Oral Presentations (Paper ID – 102) (O-10) Design of Laser Diode Driver for High Power Narrow-Line width Fiber Laser
2:00 – 3:00 PM	Gala Lunch at Institute Cafeteria		
Keynote Session – IV Session Chair: Dr. Sunny Sharma, IIIT Allahabad Venue: CC-3, 5055			
3:00 – 3:30 PM	Keynote Talk-5: Antonio Di Bartolomeo, University of Salerno, Italy Title: Photoconductivity and electric transport in 2D transition metal dichalcogenides		
	3:30 To 4:50 PM	Session- E Track-1: Optical Communication and Networking Venue: CC-3, 5055 Session Chair: Dr. Rajat Kumar Singh, IIIT Allahabad	Session – F Track-2 & 4: Programmable Photonics & Quantum Photonics and Nano-Photonics Venue: CC-3, 5006 Session Chair: Dr. Ajeet Kumar, DTU/Dr. Pramod Kumar
3:30 - 3:50 PM		Oral Presentations (Paper ID – 24) (O-11) Photonics based ESM Receiver for EW Applications	Invited Talk: Dr. Mukesh Jewariya, NPL -CSIR, New Delhi Title: Terahertz: Applications in Spectroscopy and Imaging
3:50 - 4:05 PM		Oral Presentations (Paper ID – 64) (O-12) Demonstration of Ring Assisted Mach-Zehnder Interferometer Filters in 45nm SOI platform	Invited Talk: Dr. Rajesh V Nair, IIT Ropar Title: Optical readout of electronic spin state of nitrogen-vacancy center in nanodiamonds at room-temperature
4:05 - 4:20 PM		Oral Presentations (Paper ID – 87) (O-13) 20 Tb/s Signal Transmission over 50 km Optical Link of 80 μm Clad Fiber	Oral Presentations (Paper ID – 12) (O-16) Manipulation of temporal dynamics of quartic soliton from low power Airy pulse
4:20 - 4:35 PM		Oral Presentations (Paper ID – 100) (O-14) Key Parameter Measurements & Characterization Methodology for Single Photon Avalanche Detector	Oral Presentations (Paper ID – 104)(O-17) Impact of Barrier on the Absorption Spectra of Size Distributed III-V Quantum Dot Systems
4:35 - 4:50 PM		Oral Presentations (Paper ID – 19) (O-15) Broadband Optical Amplification via parallel operation of Erbium and Thulium doped fibers in S, C, and near-L Bands	Oral Presentations (Paper ID – 38) (O-18) A Numerical Insight on Fiber Optical Parametric Amplification in Yb-doped Photonic Crystal Fiber For Mid-IR Generation
4:50-5:00 PM		Tea	
5:00- 7:00 PM	Poster Session - II (Day-2) Venue: Main Auditorium, First Floor Session Chair: Prof. Akhilesh Kumar Mishra & Dr. Nimish Dixit, IRDE-DRDO & Dr. Rajesh V Nair & Dr. Pramod Kumar, IIIT Allahabad Poster No: P-51 TO P-106		
7:30 PM	Dinner at Institute Cafeteria		

**6th IEEE International Workshop on
Recent Advances in Photonics,
7-9th Dec. 2023, IIT-Allahabad, Prayagraj, India**

Day-3: 9th December 2023 (Saturday)			
Time	Event		
6:00 - 8:00 AM	Sangam Visit		
8:00 AM to 9:00AM	Breakfast at Institute Cafeteria		
	Keynote Session – V Venue: CC-3, 5055 Session Chair: Prof. Yogendra Kumar Prajapati & Dr. T. Pant, IIT Allahabad		
9:30-10:00 AM	Keynote Talk-6: Prof. Shekhar Verma, IIT Allahabad Title: Deep learning for Photonic Structures		
10:00-10:30 AM	Keynote Talk-7: Prof. S. Anantha Ramakrishna, IIT Kanpur Title: Multi-spectral camouflage systems (UV -optical to Radio frequencies) for modern and futuristic systems		
10:30-10:45 AM	Tea		
	Session-G Tracks 6 & 9: Photonics for Renewable energy, AI ML for photonics Venue: CC-3, 5055 Session Chair: Dr, Surya Prakash, IIT , Allahabad	Session-H PhD Colloquium/ Young Professional Session Venue: CC-3, 5054 Chair: Dr. Varun Kakkar, (Chair, IEEE, YP UP section), Dr. T Pant, IIITA	Session-I Miscellaneous Venue: CC-3, 5006 Session Chair: Dr. K.P. Singh, IIT Allahabad
10:45-11:05 AM	Invited Talk: Prof. Rachana Kumar, IITR-CSIR Title: Ultrafast dynamics in PDI-NDI-PDI multichromophoric systems	TBA	Invited Talk: Prof. Yogendra Kumar Prajapati, MNNIT Allahabad Title: Spin-orbit interactions of light and its applications
11:05-11:25 AM	Oral Presentations (Paper ID – 140)(O-19) LASSO-Based Classification of Earthquake Events with Fiber Optic Distributed Acoustic Sensors	TBA	Invited Talk: Prof. Ramesh Kumar Sonkar, IIT Guwahati Title: Photonic Crystal based Multiplexing Techniques for High-Speed Optical Communication
11:25-11:40 AM	Oral Presentations (Paper ID – 106)(O-20) Screening of Sickle Cells using Intelligent Microscope	TBA	Oral Presentations (Paper ID – 89)(O-22) Early Detection of Dengue Virus Using GaSe and WS ₂ Mediated Surface Plasmon Resonance Sensor with Ultrahigh Sensitivity
11:40-11:55 AM	Invited Talk: Prof. Ajeet Kumar, Delhi Technological University Title: Specialty optical fibers and waveguides for high power lasers	TBA	Oral Presentations (Paper ID – 114) (O-23) Total Internal Reflection at the Interface of Lithium Niobate Crystal
12:00 – 12:45 PM	Panel discussion (Fostering collaboration and innovations for Atma-nirbhar Bharat) Session Chair: Dr. Naresh Chand Venue: CC-3, 5055 Panelist: Prof. Navneet Gupta, BITS Pilani; Prof. R. Vijaya IIT Kanpur; Dr. Akhilesh Tiwari, IIITA, Dr. Mukesh Jewariya		
12:50-1:30 PM	Valedictory, Venue: CC-3, 5055		
1:30-3:00 PM	Lunch at Institute Cafeteria		

6th IEEE International Workshop on Recent Advances in Photonics, 7-9th Dec. 2023, IIT-Allahabad, Prayagraj, India

Oral Presentation/Invited Talk

Paper ID	Poster No.	Paper Title	Track
80	INVITED TALK	Optical readout of electronic spin state of nitrogen-vacancy center in nanodiamonds at room-temperature	Quantum Photonics and Nano Photonics
153	INVITED TALK	Ultrafast dynamics in PDI-NDI-PDI multichromophoric systems	Photonics for Renewable Energy
8	O-1	Nonlinear Photonic Crystal Based All-Optical OR Gate	Photonic Crystals and Plasmonics
42	O-2	Millimeter-sized lens array on polymer surface	Optoelectronic Devices and Circuits
16	O-3	Modulation Characteristics of Ge ₂ Sb ₂ Te ₅ Metasurface Terahertz Switch	Terahertz Photonics
45	O-4	Stable Detection of Ionized Air by a highly excited Raman Silicon Nanocavity Laser	Optical Sensors
65	O-5	Luminescence enhancement studies of europium ions by hydroxy naphthoic acid molecules in PVA film	Optical Sensors
79	O-6	Vectorial light field encoding for asymmetric encryption	Optical Sensors
37	O-7	Raman Scattering in a Silicon Photonic Nanocavity Operating at 1.1 μm	Photonic Crystals and Plasmonics
103	O-8	Investigation on Linear Mode Coupling in a Commercial Graded-Index Few Mode Fiber	Optical Communication and Networking
5	O-9	Effects of Central-dip on the Waveguide Parameters of NZDSF G.655 Fibers	Optoelectronic Devices and Circuits
102	O-10	Design of Laser Diode Driver for High Power Narrow-Line width Fiber Laser	Optoelectronic Devices and Circuits
24	O-11	Photonics based ESM Receiver for EW Applications	Optical Communication and Networking
64	O-12	Demonstration of Ring Assisted Mach-Zehnder Interferometer Filters in 45nm SOI platform	Optical Communication and Networking
87	O-13	20 Tb/s Signal Transmission over 50 km Optical Link of 80 μm Clad Fiber	Optical Communication and Networking
100	O-14	Key Parameter Measurements & Characterization Methodology for Single Photon Avalanche Detector	Optical Communication and Networking
19	O-15	Broadband Optical Amplification via parallel operation of Erbium and Thulium doped fibers in S, C, and near-L Bands	Optical Communication and Networking
12	O-16	Manipulation of temporal dynamics of quartic soliton from low power Airy pulse	Programmable Photonics
104	O-17	Impact of Barrier on the Absorption Spectra of Size Distributed III-V Quantum Dot Systems	Quantum Photonics and Nano Photonics
38	O-18	A Numerical Insight On Fiber Optical Parametric Amplification in Yb-doped Photonic Crystal Fiber For Mid-IR Generation	Programmable Photonics
140	O-19	LASSO-Based Classification of Earthquake Events with Fiber Optic Distributed Acoustic Sensors	AI/ML for Photonics
106	O-20	Screening of Sickle Cells using Intelligent Microscope	AI/ML for Photonics
110	O-21	Hole Transport Layer Free Photovoltaic Cell Based on Inorganic Perovskite for Indoor Energy Harvesting for IoT Applications	Photonics for Renewable Energy
89	O-22	Early Detection of Dengue Virus Using GaSe and WS ₂ Mediated Surface Plasmon Resonance Sensor With Ultrahigh Sensitivity	Optical Sensors
114	O-23	Total Internal Reflection at the Interface of Lithium Niobate Crystal	Optoelectronic Devices and Circuits

6th IEEE International Workshop on Recent Advances in Photonics, 7-9th Dec. 2023, IIT-Allahabad, Prayagraj, India

Poster session- I (Day-1)

Paper ID	Poster No.	Paper Title	Track
15	P-1	Hybrid Routing Algorithm for Flex-Grid Optical Networks with Adaptive Modulation Formats	Optical Communication and Networking
21	P-2	Controlled shaping of high-order Ince-Gaussian laser modes	Optical Communication and Networking
28	P-3	Longitudinal mode control in fiber laser ring cavity using saturable absorption in erbium-doped fiber	Optical Communication and Networking
40	P-4	Design of a compact PN phase shifter using strain-induced SiGe for high-speed on-chip interconnects	Optical Communication and Networking
84	P-5	All-fiber 2D MMI based optical logic gates using square core multimode fiber	Optical Communication and Networking
85	P-6	IQ imbalance Tolerant Probabilistically Shaped Signals with Adaptive Constellation Referencing	Optical Communication and Networking
94	P-7	Subtraction microscopy using aberrated PSFs for image contrast enhancement	Optical Communication and Networking
8	P-8	Nonlinear Photonic Crystal Based All-Optical OR Gate	Photonic Crystals and Plasmonics
111	P-9	Substrate Integrated Plasmonic Waveguide Based Wideband Terahertz Band-Pass Filter	Optical Communication and Networking
125	P-10	Investigations on the linear/nonlinear optical properties of CsPbBr ₃ Perovskite nanocrystals incorporated PVK thin film	Optical Communication and Networking
130	P-11	Accurate characterization of optical phase modulators using an interferometer-free method	Optical Communication and Networking
138	P-12	Two dimensional MMI based 1x2 optical switch using square core multimode fiber	Optical Communication and Networking
150	P-13	Polarization Dynamics of Singular Beams on Atmospheric Propagation	Optical Communication and Networking
152	P-14	Measurement of longitudinal strain impact on the signal group velocity in PM fiber	Optical Communication and Networking
53	P-15	Selective Attenuated Phase Shift Mask for Accurate Resist Image Generation in Optical Lithography	Programmable Photonics
78	P-16	Advancing Super-Resolution Imaging: A Comprehensive Analysis of Gaussian Fitting in STORM Microscopy	Programmable Photonics
99	P-17	Design and Performance Optimization of Lead Free CH ₃ NH ₃ SnI ₃ Perovskite Solar Cell by Numerical Simulation	Programmable Photonics
101	P-18	Design of discretely tunable Optical Delay Line on 45 nm SOI GF Fotonix Platform	Programmable Photonics
109	P-19	Computation of spot diagrams and ray tracing of different aberrated beams using geometrical exact ray tracing	Programmable Photonics
141	P-20	Generating multiple polarization singularities through non-interferometric technique	Programmable Photonics
2	P-21	Silicon subwavelength grating micro ring resonator refractive index biosensor	Optical Sensors
6	P-22	Nanomaterial Coated Side Polished Fiber for Early Diagnosis of Cardiovascular Disease by Label-free Sensing of Troponin Biomarker	Optical Sensors
17	P-23	Phase Modulated Photonic-Crystal based Gas Detector	Optical Sensors
18	P-24	DESIGN AND MODELING OF FIBER OPTIC SENSOR FOR TEMPERATURE SENSING IN ELECTRICAL SUBSTATIONS	Optical Sensors
20	P-25	Design and analysis of SPR based PCF using scale-down approach for potential sensing applications	Optical Sensors
22	P-26	Catadioptric Dual-FOV High Definition SWIR Imaging Sensor Optics for Security Surveillance	Optical Sensors
27	P-27	Optimization and Analysis of a Palladium-Coated Tapered Optical Fiber-Based Hydrogen Sensor	Optical Sensors
32	P-28	A Metal-DBR interface structure-based Tamm plasmon sensor for refractive index sensing applications	Optical Sensors
61	P-29	Optical Waveguide based Surface Plasmonic Resonance Biosensor for Early Detection of Human Teeth Cavity	Optical Sensors
68	P-30	Design of in 2D photonic crystal bacterial biosensor	Optical Sensors
69	P-31	Highly sensitive dual-side polished SPR based PCF sensor for blood compositions detection	Optical Sensors
70	P-32	Spectral response of fiber Bragg grating sensor for contact microphone applications	Optical Sensors
71	P-33	Correlated Color Temperature estimation using digitally controlled spectroscopic device	Optical Sensors
74	P-34	Image encoding using dual phase modulation	Optical Sensors
76	P-35	Highly sensitive Optical fiber sensor for humidity measurement	Optical Sensors
81	P-36	Investigation Of a Superior Thermal Sensitivity FBG-Based Temperature Sensor With Metallic And Polymeric Coatings	Optical Sensors

6th IEEE International Workshop on Recent Advances in Photonics, 7-9th Dec. 2023, IIT-Allahabad, Prayagraj, India

83	P-37	Holographic Defocus Sensor: Astigmatic Lens Approach	Optical Sensors
91	P-38	All Fiber-Optic Ammonia Gas Sensor using few-layer MoS ₂ coated Side Polished Fiber	Optical Sensors
92	P-39	Fast and efficient wavefront estimation algorithm using slope values in zonal wavefront sensor	Optical Sensors
97	P-40	Design and Performance Analysis of Octagonal Cladding Photonic Crystal Fiber for Chemical Sensing	Optical Sensors
107	P-41	Effect of cross-talk in an Astigmatic Defocus Sensor	Optical Sensors
112	P-42	Electronic and Optical Properties of 2D Ferromagnetic CrSiTe ₃	Optical Sensors
121	P-43	Refractive index sensor for the detection of malaria using an elliptical channel-based photonic crystal fiber	Optical Sensors
123	P-44	Numerical study of low-index contrast integrated optofluidic bimodal waveguide sensor	Optical Sensors
129	P-45	Fiber Bragg Gratings based Structural Health Monitoring at High Temperature	Optical Sensors
135	P-46	Optical Demux as an Edge Filter for FBG Strain Sensor Applications	Optical Sensors
139	P-47	A study of the duty cycle dependence on the intensity of diffracted orders of a Computer Generated Hologram	Optical Sensors
143	P-48	Optical biosensor using one dimensional photonic crystal to detect urea levels	Optical Sensors
146	P-49	Tailoring Co ₃ O ₄ @ZnO Nano composite coating for acetone detection using unclad optical fiber sensor at room temperature.	Optical Sensors
149	P-50	Sensitivity Enhancement of Bi-metallic SPR Biosensor using BaTiO ₃ for Non-Invasive Glucose Detection via Urine Sample	Optical Sensors

Poster session - II (Day-2)

Paper ID	Poster No.	Paper Title	Track
30	P-51	ZnO nanoflower decorated optical fiber sensor for pH sensing application	Quantum Photonics and Nano Photonics
31	P-52	Graphene-based metamaterial absorber at optical frequencies	Quantum Photonics and Nano Photonics
34	P-53	Gold nanoparticle deposited nylon filter paper as a sensitive SERS platform for trace sensing of enrofloxacin in aqueous medium	Quantum Photonics and Nano Photonics
50	P-54	Analysis of Microring Resonator With Fock State Wavepackets	Quantum Photonics and Nano Photonics
77	P-55	Gap Solitons in Noncentrosymmetric Photorefractive Crystals with Apodized Photonic Lattices	Quantum Photonics and Nano Photonics
151	P-56	Enhanced Nonlinear Optical Properties of ZnS with Carbon Encapsulated Core-shell Nanostructures	Quantum Photonics and Nano Photonics
9	P-57	Photonic Generation of 0.1 THz - 0.15 THz Band Based on Train of Radio Frequency Generator	Terahertz Photonics
14	P-58	Electromagnetically Induced Transparency in Broadside Coupled Toroidal Metasurfaces	Terahertz Photonics
23	P-59	Actively Tunable Electromagnetically Induced Transparency by Bright-Bright Mode Coupling In Terahertz Metamaterials.	Terahertz Photonics
35	P-60	Effect of the Substrate on the ultrafast study of Bismuth telluride (Bi ₂ Te ₃)	Terahertz Photonics
36	P-61	Inverted Rib-core Chalcogenide Waveguide For Supercontinuum Generation	Terahertz Photonics
96	P-62	Terahertz thin film sensing in a meta-waveguide with nested structures	Terahertz Photonics
127	P-63	Terahertz self-reference method for classification of flammable liquids	Terahertz Photonics
134	P-64	Analysis of Different Resonance Phenomena in Nested Ring Resonator	Terahertz Photonics
144	P-65	Corneal hydration sensing studies based on terahertz time domain spectroscopy and imaging.	Terahertz Photonics
145	P-66	Effective Medium Theory approach for Sensitive Explosives Characterization in Reflection Mode Terahertz Time Domain Spectroscopy	Terahertz Photonics
62	P-67	Sun-tracker PV and TEG Hybrid Power Generation	Photonics for Renewable Energy
82	P-68	Energy Harvesting Analysis of SLIPT over Visible Light Gamma-Gamma Distributed Channels	Photonics for Renewable Energy
148	P-69	An Eco-friendly, Highly-efficient, Low-cost Perovskite Solar Cell Using Ultra-thin TMDCs Based Transport Layers	Photonics for Renewable Energy
10	P-70	Plasmonic metasurface with hexagonal nanobumps on flexible substrate for sensing	Photonic Crystals and Plasmonics
44	P-71	Gold Immobilized Highly Sensitive PCF Optical Biosensor for Cancer Cell Detection	Photonic Crystals and Plasmonics
52	P-72	Multifunctional Metamaterial: Polarization-Insensitive, Highly-Absorptive, and Controllable Thermal Emission	Photonic Crystals and Plasmonics

6th IEEE International Workshop on Recent Advances in Photonics, 7-9th Dec. 2023, IIT-Allahabad, Prayagraj, India

57	P-73	Coupled Thin Film Dielectric and Gold Layers for High LWIR Emission and Broadband Solar Reflection for Daytime Passive Radiative Cooling	Photonic Crystals and Plasmonics
60	P-74	Picosecond Laser Ablated Si Nanoparticles and Nanostructures for Photonics, SERS Applications	Photonic Crystals and Plasmonics
88	P-75	Design and Analysis of a Pressure Sensor Utilizing a 2D Photonic Crystal Structure	Photonic Crystals and Plasmonics
98	P-76	Luminescent pyrene coupled PMMA microcavities for sensing applications	Photonic Crystals and Plasmonics
105	P-77	High Switching Efficiency in Contour-Nanobowties on VO ₂ coated substrates	Photonic Crystals and Plasmonics
108	P-78	Bi-core photonic crystal fiber based chemical sensor in THz frequency regime	Photonic Crystals and Plasmonics
113	P-79	Topological Protected Edge State with Ultra-High Q- factor in One Dimensional Photonic Crystal Hetero- structure	Photonic Crystals and Plasmonics
118	P-80	Cavity-assisted fluorescence enhancement of graphene quantum dot nanostructures	Photonic Crystals and Plasmonics
119	P-81	Nonlinear light-matter interactions in platinum nanoparticles embedded all-polymer microcavity	Photonic Crystals and Plasmonics
128	P-82	A Bow-Tie Shape Dipole Antenna Based on Spoof Surface Plasmon Polariton for 5/5.2/5.8 GHz WLAN Applications	Photonic Crystals and Plasmonics
131	P-83	Nano Photonic Crystal based Sensor for Diabetes Mellitus Detection	Photonic Crystals and Plasmonics
147	P-84	Enhanced Biosensing with Rhombic Ring Resonator in Two-Dimensional Photonic Crystals for Proteinuria Detection	Photonic Crystals and Plasmonics
11	P-85	Digitally Encoded Arbitrary Microwave Waveform Generation Assisted by Photonics	Optoelectronic Devices and Circuits
29	P-86	An Ultra-Wideband Bandpass Filter using Adjacently Coupled Semi-Arc Resonator Sandwiched between Pseudo Interdigital Structure	Optoelectronic Devices and Circuits
33	P-87	Study of topological insulator Bi ₂ Se ₃ and Si/GaN heterostructure for broadband photodetector devices	Optoelectronic Devices and Circuits
39	P-88	Spectral filtering induced instability in an all-fiber mode-locked fiber laser	Optoelectronic Devices and Circuits
41	P-89	476 nm Broadband Generation from a Small Core and High Numerical Aperture Silica-based Optical Fiber	Optoelectronic Devices and Circuits
43	P-90	Polarization-dependent electro-optical switching studies of graphene oxide liquid crystals	Optoelectronic Devices and Circuits
51	P-91	Novel Method for Efficient Control of Human Heart with Light	Optoelectronic Devices and Circuits
66	P-92	Ultrafast Photonic Logic Gates with Organic Chromophore Molecules	Optoelectronic Devices and Circuits
75	P-93	A 5T-2C Current-biased Voltage-Programmed (CBVP) Pixel circuit for AMOLED Displays	Optoelectronic Devices and Circuits
86	P-94	Correction of Short Focused Virtual Imaging Systems For Clear Symbology View	Optoelectronic Devices and Circuits
93	P-95	A Compact Slotted Ring Optically Transparent Antenna for X-Band Applications	Optoelectronic Devices and Circuits
95	P-96	Performance Optimization of Ge ₂ Sb ₂ Te ₅ Vertical Photodetector for Silicon Photonic Platform	Optoelectronic Devices and Circuits
115	P-97	Effect of AlGaIn/ AlInGaIn Super-Lattice Based Periodically Altered Carrier Injection Layers for UV-C LEDs	Optoelectronic Devices and Circuits
116	P-98	Effect of Particularly Ordered InGaIn based Quantum Barriers in III-nitride Light Emitters	Optoelectronic Devices and Circuits
126	P-99	Conversion Efficiency >20% of Cs ₂ TiBr ₆ Solar Cell: A Numerical Study	Optoelectronic Devices and Circuits
142	P-100	Binary differential joint transform correlator based rotation angle estimation	Optoelectronic Devices and Circuits
154	P-101	Effect of CeMgO ₂ ETL Parameter on CZTS Photovoltaic Cell Efficiency Enhancement	Optoelectronic Devices and Circuits
3	P-102	Benefits and challenges of IoT Based Approach for Smart Healthcare Solutions	AI/ML for Photonics
59	P-103	Hybrid Quantum LSTM based diagnosing localization and characterization of fiber faults	AI/ML for Photonics
90	P-104	A Machine Learning Approach to Map and Predict Urban Area using Landsat-8 Optical and Infrared Data	AI/ML for Photonics
136	P-105	Genetic Optimization based enhanced Sensitivity of FBG based simultaneous measurement of Humidity and Strain	AI/ML for Photonics
155	P-106	High Extinction tunable RF Analogues of Electromagnetically Induced Transparency using Brillouin Scattering for filtering m-QAM signals	Optical Communication and Networking