Pape	Author's List	Title of Paper
r id #		•
1	Dinesh Kumar Sharma, Anurag Sharma and Saurabh Mani Tripathi	Splicing of SMF and MOF: Loss Evaluation Using Enhanced Analytical Field Model
8	Aranya Bhuti Bhattacherjee and Deepti Sharma	Dynamics of nonequilibrium two mode Dicke model
9	Vikas and Rajneesh Kumar Verma	A comparative study of LMR/SPR based tapered fiber optic sensors: A mathematical modelling
11	Pratyasha Sahani and Ramarao Vijaya	Planar photonic crystal as a polarizer for the out-of-plane incidence of light
12	Rashmi Ranjan Suna and Nirmal K. Viswanathan	Measurement of optical rotation due to chiral sample using inhomogeneously-polarized light beam
13	Bhargab Das, Deepa Srivastava and Ishita Bhutani	Experimental realization of a fiber based Michelson interferometer for FBG sensor interrogation
16	T Pradeep Chakravarthy and Nirmal K Viswanathan	Spin-induced orbital-Hall effect of light in inhomogeneous medium
17	Sajia Yeasmin, Sabanam Talukdar and Nitu Borgohain	Large Kerr nonlinearity in a four-level quantum well under the regime of electromagnetically induced transparency
18	Smriti Sheoran and Samir Mondal	Fabrication and transmission through nano-antenna for scanning near-field optical microscopy: A numerical study
24	Sajan Ambadiyil, Avinash Kumar Jha and Mahadevan Pillai V.P	DESIGN AND DEVELOPMENT OF SPATIAL PROFILE ANALYSIS METHOD FOR AUTHENTICATING SECURITY HOLOGRAMS
25	Ravi Dhawan, Rushal Shah, Nitin Kawade and Biswaranjan Dikshit	Specular-Reflection Based Position Measurement Technique
29	Sunny Tiwari	Wavevector Distribution of Fluorescence and SERS in a Film Coupled Plasmonic Nanowire Cavity
30	Praveen P, Nagesh B V, Shruthi S Iyengar, Chetana D, Ashwini Bhat, Veeregowda B M, Sarbari Bhattacharya and Sharath Ananthamurthy	Reorientation Dynamics of avian Red Blood Cells in an Optical Trap
31	Dr. Anirudh Banerjee	Delay Time Calculations for Digitally Tunable Optical Filter System
32	Koustav Dey, Sourabh Roy and Ramesh Kumar B	Quasi-distributed strain and temperature sensing using four in-line multiplexed Fiber Bragg Gratings.

### LIST of PAPERS PRESENTED AS POSTERS Venue: Hall of Fame, Outreach Auditorium Building, IIT Kanpur

Veili	Venue: Hall of Fame, Outreach Auditorium Building, IIT Kanpur			
38	Tania Das and Kallol Bhattacharya	Angular Roughness Measurement of Metal Surfaces using optical reflection of TE and TM polarized light		
40	Anil Kumar and Anand Upadhyaya	Antireflection coating simultaneously effective in LRF and CCD systems"S. Sivaprakasam" <ssivapy@gmail.com></ssivapy@gmail.com>		
41	Vikas Dua, Ram Prakash Nautiyal, Manish Uniyal, Ranabir Mandal and Parmod Kumar Sharma	Optical Design of a Panoramic Lens for SWIR Camera		
42	Kajal Chaudhary, J. Ramkumar and S. Anantha Ramakrishna	Surface treatment of ITO coated PET sheet for coating with optically transparent polymer		
44	Ranabir Mandal, Amitava Ghosh and Ajay Ghosh	Optical Design and Analysis of Passively Athermalized Si-Ge Optics in MWIR band		
50	Vadapalli Durga Rama Pavan, Koustav Dey, Sourabh Roy and Onkar Nath Verma	Bandgap Tuning in GaAs based Photonic Crystal Waveguides using Thermo-Optic Effect		
51	Anjani Kumar Tiwari, Ismail Mekaaoui-Alaoui, Sriram Guddala and S. Anantha Ramakrishna	Development of latent fingermarks on aluminum surfaces		
52	Tushar Gaur and Debabrata Goswami	Establishing the paucity of Thermal Effects for Pulsed versus CW Lasers in Fluids		
53	Izabel Thomas, Pramod Panchal and Narayana Murthy	Unification Of Coherence and Polarization through Phase Shifting Digital Holography		
56	Kousik Mukherjee and P.C. Jana	Tripartite entanglement in three-mode optomechanics		
59	Vimal Mishra, Arun Sundriyal and Parmod Kumar Sharma	Passively Athermalised and Large Aperture Trans- receiver optics for Eye safe LRF		
65	Nadeem Ahmed and Faraz Ahmed Inam	Designing a hyperbolic metamaterial resonator for spontaneous emission rate enhancement from silicon-carbide based quantum emitters		
68	Biswajit Panda, Komal Chaudhary, Mehar S Sidhu and Kamal P Singh	Characterising the gas-drag forces on various laser-heated interface.		
70	Satchi Kumari	A Comparison of Optical Delay of Light in SBN:60 and SBN:75		
71	Sabyasachi Banerjee, Maidul Islam, Ch Sai Amith, Suraboina Jagan Mohan, Gagan Kumar and Dibakar Roy Chowdhury	Thin Film Sensing with Terahertz Metamaterials		

### **LIST of PAPERS PRESENTED AS POSTERS**

73	Alok Kumar Gupta and	Phase retrieval using liquid crystal
/ 3	Naveen Kumar Nishchal	variable retarder based on reference-less
	Naveen Kumai Nishchai	
7.5	Conseque Application and	non-interferometric technique
75	Soumya Asokan and	Classical optic radial-angular
	Jebathilagar Ivan	entanglement
77	Rekshma J, Pramod Panchal,	Wave propagation analysis of Laguerre-
	Richa Sharma, Rakesh	Gaussian beam through PRPP
	Kumar Singh and C. S.	
	Narayanamurthy	
78	Praveen Kumar and Naveen	Generation of Orbital Angular Momentum
	Kumar Nishchal	of Light using Liquid Crystal Spatial Light
		Modulator
81	Mohammad Zaffar, Gyana	Assessment of retardance and
	Ranjan Sahoo and Asima	polarizance through time resolved Mueller
	Pradhan	matrix in Early Detection of Cervical
		Cancer
84	Pavan Kumar, Surendra	Diffuse reflectance spectroscopy on
04	Kumar Kanaujia and Asima	human oral tissue and saliva for detection
	Pradhan	of oral cancer
90	Shilpa Samdani, Achanta	Plasmonic Quasicrystals
	Venugopal, Aman Agrawal	
	and Amogh Naik	
91	Brijesh Kumar Singh	Control transfer of optical energy in the
		Ince-Gaussian higher order modes
93	Saba Khan, Sushanta Kumar	Tailoring polarization singularity lattices
	Pal and Paramasivam	by phase engineering of three beam
	Senthilkumaran	interference
94	Gauri Arora, Sushanta Kumar	C points Ring from Orthogonally Polarized
	Pal and Paramasivam	Vortex Beams
	Senthilkumaran	
95	Sundar Singh Dhoni, Manish	Optical Design of a Binocular Eyepiece for
	Uniyal, Ranabir Mandal and	HD OLED
	Pramod Kumar Sharma	
96	Jyoti Gondane, Meena Panse	Optical Interferometry Technique for
	and Arpit Rawankar	Measurement of Heart Rate Variability
97	Lavlesh Pensia, Gaurav	Experimental comparison of performance
	Dwivedi and Raj Kumar	parameters of Fourier and Fresnel
		holograms in digital holography using
		space-bandwidth product
98	Mehra Singh	Time resolved response of fish cornea
	Sidhu and Kamal Priya Singh	exposed to single femtosecond laser
		pulse
100	Pretheesh Kumar V C and	Error Analysis of the Novel Polarization
100	Ganesan A R	Phase shifting Interferometric Technique
	Cancoantiti	Thase similing interferonicule recinique
102	Cyantacad and Phacker	Spectral chaping using polarization
102	Gyaprasad . and Bhaskar Kanseri	Spectral shaping using polarization control in nematic liquid crystal

venue: Hall of Fame, Outreach Aualtorium Bullaing, 111 Kanpur			
105	Surya Kumar Gautam, Vipin Tiwari, Nandan Bisht, Dinesh N Naik and Rakesh Kumar Singh	Double Shot interferometric polarimetry to calculate Jones Matrix of Spatial Light Modulator	
107	Madhav Kumar Singh, Pradip Kumar Jha and Aranya B Bhattacherjee	Study of Photon Blockade Effect in Double Quantum Dot in a Semiconductor Microcavity	
109	Ramesh Kumar and Anurag Sharma	Analysis of Fiber Bragg Gratings	
111	Baskaran Mahalingam and Santhoshi Gayathri T	Optical millimeter wave signal generation employing cascaded Polarization Modulators	
112	Rouchin Mahendra and Ramesh Chandra	High Reflectivity Protective Silver Coating	
116	Mukesh Kumar Shukla, Anupa Kumari and Ritwick Das	Tamm-plasmon-polaritons in period doubling sequence based 1D photonic crystals	
117	Srinivas Pachava, Nijil Lal, Nirmal Viswanathan, Rp Singh and Balaji Srinivasan	Investigation of polarization structure of vector vortex beams upon scattering	
118	Pawan Kumar, Mohamed Nijas, Yogeshwari Sanjay Ambekar, S. Anuradha Sekaran, Pradeep R, Nageshwar Reddy and Renu John	Stomach Cancer Detection using Spectral Domain Optical Coherence Tomography	
120	Ritesh Chourasia and Vivek Singh	Bragg fibers: A modern approach towards Sensing and Optoelectronic applications	
121	Suresh Venkata, Sreekanth Reddy V and Raghavendra Prasad B	Study of spatial light modulators as turbulence phase screen and wavefront sensor and its limitations in astronomical adaptive optics systems	
122	Anubhab Sahoo, Sivarama Krishnan and Rajeev P P	Nonlinear transmission measurement to study field dependent ionization process in dielectric medium	
123	Karun Mehta and Shubhrangshu Dasgupta	Generation of non-classical states in Quantum Emitter-Surface plasmon set up	
124	Ruchi . and Paramasivam Senthilkumaran	Study of internal energy flows in lattice of polarization singularities	
125	Abhai Kumar, Siddharth Nambiar, Rakshitha Kallega, Praveen Ranganath and Shankar Kumar Selvaraja	High-efficiency Air-Cladded Grating Fiber- Chip Coupler on 500 nm Stoichiometric SiN	
126	Rimlee Saikia, Aditya Baishya, Utpal Talukdar and Nitu Borgohain	Investigation of spectral broadening induced by self phase modulation of tanh Gaussian pulse in nonlinear medium.	

VCIIU	ic. Hull of I allic, Oalicaci	1 Auaitorium Builaing, 111 Kanpur
127	Parimal Sah and Prachi Sah	Multiple Bragg Wavelengths in DBR integrated with multimode SOI waveguide and their Iterative Computation
128	Avijit Kundu, Shuvojit Paul, Soumitro Banerjee and Ayan Banerjee	Measurement of Surface force using Optical tweezers
129	Kingshuk Adhikary, Subhanka Mal, Abhik Kumar Saha and Bimalendu Deb	Matter-wave phase operators for quantum atom optics: On the possibility of experimental verification
131	Varun Arora, Vikas Kumar and Ravendra Varshney	High Birefringent Photonic Crystal Fibers for THz Guidance
134	Hari Krishna, Koustav Dey and Sourabh Roy	Poincare sphere representation for modes of a few-mode fiber
135	Abhinav Kala and Venu Gopal Achanta	Micro Photoluminescence Setup for Studies on Single Photon Emitters
137	Rakhi Bhattacharya and Nirmal Viswanathan	Birefringence analysis of twist-induced endlessly single-mode microstructure optical fiber
138	Pravin Rawat, Shivani Sharma, Vivek Kumar, Joyee Ghosh and Vivek Venkataraman	Silicon Nano-Waveguide Designs for Broadband Photon Pair Generation at Telecom Wavelengths
139	Srinjoy Maiti and Rajib Chakraborty	Analysis of zinc oxide based grating structure over silicon waveguide
140	Shameem Saifuddin and Sivasubramanian Arunagiri	Performance Evaluation of bidirectional Distributed Raman Amplifier with equal number of forward and backward pumps
141	Subhajit Karmakar, Ravendra K. Varshney and Dibakar Roy Chowdhury	Localized Magnetic Field Enhancement in Fano Resonance based Active Metamaterial
143	Awakash Dixit, Deepa Venkitesh and Balaji Srinivasan	Design and Analysis of Beam Propagation Model for Coherent Combining of High Power Laser Beams
144	Jitendra Kumar Pradhan, Bharathi Rajeswaran, Arun Umarji and S. Anantha Ramakrishna	Direct measurements of black body like thermal-emission from VO2 thin films using FTIR spectroscopy
145	Abhinav Bhardwaj, Dheeraj Pratap and Kumar Vaibhav Srivastava	Localization of Energy by Metamaterial Cylindrical Waveguide
148	Onkar Verma and Sourabh Roy	High-resolution absorption imaging in a saturated absorption medium
149	Sarad Subhra Bhakat, Payel Ghosh, Soham Lodh and Rajib Chakraborty	Fabrication and Characterization of Sol- Gel Derived TiO2 Grating Structure for Photonic Applications
150	Chandan Sengupta, Sanjukta Sarkar and Kallol	IN-LINE PHASE SHIFTING INTERFERANCE MICROSCOPE WITH WIRE GRID

### **LIST of PAPERS PRESENTED AS POSTERS**

	Bhattacharya	POLARIZER
	23223	
151	Ravindra Kumar Yadav, Harshavardhan Reddy Kalluru and Jaydeep Kumar Basu	Observation of temperature dependent Strong coupling between Quantum Dot and metamaterial
152	Kaweri Gambhir, Parag Sharma and Ranjana Mehrotra	Excited State Energy Transfer and Third Order Nonlinearity in Plasmon Coupled Fluorophores
153	Deepa Sathyanarayanan, Sushanta Kumar Pal and Paramasivam Senthilkumaran	Creating C-point array by diffraction of a C-point through two ring aperture
154	Sarvesh Satpute, Suresh Venkata, Sreekanth Reddy, Raghvendra Prasad and Chittur Narayanmurthy	Wavefront sensing by using Michelson interferometer for adaptive optics
155	Ipsita Chakraborty, Payel Ghosh, Sarad Subhra Bhakat and Kallol Bhattacharya	Wavefront sensing with modified Mach- Zehnder Interferometer
156	Nupur Pandey	Solvent dependent Fluorescence Sensing of 5-aminoqionoline by Silver ion based on ICT
157	Bhumika Ray and Ranjana Mehrotra	Binding of Alkaloid, Nobiletin to Double Stranded DNA-Spectroscopic Insights into Nature of Interaction and Anticancer Potential
158	Krishnendu Dandapat, Indrajeet Kumar and Saurabh Mani Tripathi	Off-core long period fiber grating based highly sensitive refractive index sensor
159	Abhijit Ghosh and A.K. Nirala	Holographic spatial filter : An optical design consideration
163	Raghwendra Kumar and S. Anantha Ramakrishna	A simple design of metamaterial absorber for large areas fabrication
165	Joydeep Chatterjee, Semanti Chakraborty and Kanik Palodhi	Characterization of electronic moiré pattern in LCD
167	Jovia Jose, Sikha K. Simon, Joe Kizhakooden, Sreedevi P. Chakyar, Anju Sebastian, Nees Paul, Jolly Andrews and Joseph V. P	Frequency dependent radiation properties of negative permittivity metamaterial reflector antenna
169	Shivani Sital, Niharika Kohli, Nikhil Dhingra and Enakshi Khular Sharma	Design Strategy of a Silicon Nano- wire/Array-Waveguide Coupled Section for Spot Size Expansion
171	Prince Sharma, Ranjana Mehrotra and Parag Sharma	Study of Two Photon Absorption in Colloidal WS2 Solution

LIST of PAPERS PRESENTED AS POSTERS
Venue: Hall of Fame, Outreach Auditorium Building, IIT Kanpur

	venue. Han of Funie, Outreach Additional Bunding, 111 Kanpur			
172	Vaibhav Bansode, G Hanu Phani Ram and Renu John	Synthetic Aperture White Light Diffraction Phase Microscopy		
173	Nees Paul, Sreedevi P Chakyar, Sikha Simon K, Anju Sebastian Sebastian, Joe Kizhakooden Kizhakooden, Umadevi K S, Jolly Andrews and Joseph V P	Resonance properties of split ring resonators made of polyaniline based conducting polymer		
174	Nisha Fatma	Hydroxyflavone Based Chemosensor for Dual Ion Recognition		
175	Sikha K.Simon, Anju Sebastian, Jovia Jose, Sreedevi P. Chakyar, Nees Paul, Jolly Andrews and Joseph V.P.	High Sensitive Mechanical Vibration Sensor using Triangular BCSRR		
176	M. Lavanya, M. Udhayakumar, K. Prabakaran and K.B. Rajesh	Focusing Properties Of Azimuthally Polarized Axisymmetric Bessel-Modulated Vortex Gaussian Beam Through A Dielectric Interface		
177	Sreedevi Chakyar, Sherin Thomas, Sikha Simon K, Nees Paul, Joe Kizhakooden, Anju Sebastian, Jolly Andrews and Joseph V. P.	Temperature Dependence of Complex Permittivity of Flame Retardant Circuit Boards		
179	Shubhanshi Sharma, Saawan Kumar Bag, Rajat Kumar Sinha and Shailendra Kumar Varshney	Analysis of V-slot Bow-tie Optical Antenna		
181	Shruti Sharma, Amitvikram Kurulkar and M. Senthil Kumar	Hybrid (diffractive/refractive) optics based compact and lightweight optical imaging system for space based remote sensing applications		
182	Yaswant Vaddi, Karthik Kiran Sarigamala, Sumit Saxena and Shobha Shukla	TiO2 nanotubes as photo anode for increased light trapping mechanisms in DSSC		
184	Arnab Panda, Soumen Maiti, Rajib Chakraborty and Kanik Palodhi	Increment of light absorption in periodic structures introducing metallic nano-layer for solar cell applications		
188	Garima Bawa and Saurabh Mani Tripathi	Existence of Critical wavelengths in the Transmission Spectrum of Directional Coupler Employing Non-Identical Single Mode Fibers		
189	Nishant Kr. Shekhar, Mrinmay Pal, Chandan Guha and Ranjan Sen	Build-up Dynamics of Mode-locked like Pulses in a Linear Cavity with Frequency Shifted Feedback		

190	Mahendra Pratap Singh and	Design and Performance Evaluation of
	Kamal Kishor Pant	Extended Depth of Focus IR Camera
191	Amar Deo Chandra, Dibyendu Nandy and Ayan Banerjee	Rapid phase calibration of a spatial light modulator using novel phasemasks
192	Roshan Tiwari, Krishnendu Manjhi, Subir Ray, Subrokoli Ghosh, Ayan Banerjee, Nirmalaya Ghosh and Debashish Haldar	Directed self assembly of bio-inspired peptide microrods and their optical waveguiding properties