

International Conference on Recent Trends in Photonics (NPS - 2022)

27 February - 01 March 2022



International School of Photonics
Cochin University of Science and Technology, Cochin, Kerala, India



Program Schedule

Time(IST)	Program	Speaker	Session Chair
Day 1: 27 February 2022			
09:00	Inauguration		
10:00	Plenary Talk	Dr. V M Murukeshan. Center for Optical and Laser Engineering (COLE), NTU Singapore.	Prof. Pramod Gopinath
11:00 - 11:15	Break		
11.15 - 13:00	Oral presentations	NPS-2022-04, 21, 24, 39, 42, 46, 48, 56 In the listed order.	Dr. Saji K J
13:00 - 14:00	Break		
14:00	Keynote Talk	Prof. Franz Kaertner. University of Hamburg, Germany.	Prof. A. Mujeeb
15:00	Plenary Talk	Dr. Pablo Albella University Of Cantabria, Santander, Spain.	Dr. Mohamed Ameen
16:00 -17:00	Industry session		Dr. Mohamed Ameen
17:15 - 18:30	Poster session	NPS-2022-06, 09, 11, 13, 15, 20, 22, 27, 28, 32, 35, 40, 50, 60, 61	

Day 2: 28 February 2022

09:00	Invited Talk	Dr. Tatyana Sizyuk, Argonne National Laboratory, USA	Prof. VM Nandakumaran
10:00	National Science Day Lecture	Prof. G. Ravindrakumar, Distinguished Professor, TIFR, Mumbai.	Prof. C. P. Girijavallabhan
11:00 - 11:15	Break		
11:15		Dr. Suresh Nair, IEEE India Council Track Chair	Prof. M. Kailasnath
11:30 - 13:00	Oral Presentations	NPS-2022-03, 12, 14, 19, 25, 26, 44 In the listed order.	Dr. SKS Nair.
13:00 - 14:00	Break		
14:00	Invited Talk	Dr. Swapna Nair Central University of Kerala, Kasaragod.	Dr. Saji K J
15:00	Invited Talk	Dr. Madhu Veetikazhy Technical University of Denmark, Denmark	Muhammad Rishad
16:15 - 17:30	Poster Presentations	NPS-2022-05, 07, 08, 10, 16, 17, 23, 29, 31, 33, 34, 37, 43, 47, 51, 53, 55, 57, 59.	

Day 3: 01 March 2022			
09:00	Invited Talk	Dr. Sonia Mary, The Jackson Laboratory, USA	Dr. Priya Rose
10:00 - 10:30	Break		
10:30	Plenary Talk	Dr. Kazuhiko Maeda, Tokyo Institute of Technology, Japan	Dr. Praveen C S
11:30 - 13:00	Oral Presentations	NPS-2022-41, 45, 49, 52, 54, 58 In the listed order.	Dr. Praveen C S
13:00 - 14:00	Break		
14:00	Invited Talk	Prof. Radhakrishna Prabhu, Robert Gordon University, Aberdeen, UK.	Prof. M. Kailasnath
15:00	Invited Talk	Dr. Renil Kumar Chief Scientist, Motion Imager, Twente, The Netherlands. Industry Talk	Dr. Manu Vaishakh
16:00	Valedictory Meeting		

The codes mentioned in the schedule can be seen in the email received from Morressier.

CONTRIBUTORY PAPERS

NPS-2022-03	Hierarchical Bi-metallic Nanodendrites on Silicon for SERS-based Biomolecular Sensing V.S. Vendamani, Reshma Beeram, S.V.S. Nageswara Rao, A.P. Pathak, and Venugopal Rao Soma
NPS-2022-04	Multi-modal stand-off LIBS-LIF-Raman spectroscopy system for material characterization Dhanada V S, Sajan D George, Santhosh Chidangil and Unnikrishnan V K
NPS-2022-05	Ultra-low trace elemental detection in liquid sample using Laser Induced Breakdown Spectroscopy Technique Keerthi K, Sajan D George, Joju George Sebastian, Anish Kumar Warriier, Santhosh Chidangil and Unnikrishnan V K
NPS-2022-06	Spectroscopic investigation on the luminescent characteristics of Dy³⁺ activated multicomponent borosilicate glasses for W-LED applications Adon Jose, T Krishnapriya, Jeffin George, Akshara Baby, Cyriac Joseph, P R Biju
NPS-2022-07	Effects of Initial Phase on Silicon Nanoparticles Formation in Femtosecond laser Ablation Kanaka Ravi Kumar, B. Chandu, M.S.S. Bharati, M. Mallikarjuna Rao,
NPS-2022-08	Surface Plasmon Polariton Assisted Self-Assembly of Nanoparticles for SERS Applications Ghana Shyam C, Santhosh Chidangil and Aseefhali Bankapur
NPS-2022-09	Highly chromatic red light emitting Ca(1-x)Zn₂(PO₄)₂: xPr³⁺ phosphors for blue- chip excited WLEDs T.Krishnapriya , Adon Jose and P R Biju
NPS-2022-10	A D-shaped Elliptical Hollow Core Fiber SPR Sensor Tulika Khanikar and Vinod Kumar Singh
NPS-2022-11	Evolution of Barium Bismuth Titanate Ceramic by Modified Solid State Process and its Characterization Soumya Mukherjee

NPS-2022-12	Evolution of Sodium Niobate based Glass-Ceramic by Melt Quenching and its Characterization Soumya Mukherjee
NPS-2022-13	Synthesis, linear and nonlinear optical properties of Ag and Al₂O₃ nanoparticles Tiny Thomas, Vijayakumar S, Lekshmi Jayamohan, S Saravana kumar
NPS-2022-14	Fabrication of oxide photonic crystal thin film using scalable RF sputtering method Silpa S and Vinayak Kamble
NPS-2022-15	Nonlinear optical properties of polyaniline doped with cardanol based dye Lekshmi Jayamohan, Vijayakumar S
NPS-2022-16	Design and analysis of micro-channelled Quasi D-shape optical Fiber plasmonic Sensor Maya Chauhan, Sugandha Das, Vinod K. Singh
NPS-2022-17	Digital Laser Combustion Method: Synthesis of Silver Nanoparticles (AgNps) Ganesh H Aralickatti, Basavaraj H. G and Dr. Madhukumar R
NPS-2022-19	Estimation of Random Duty Cycle in Periodically Poled Lithium Niobate Through Second Harmonic Generation Madhu, Prashant Povel Dwivedi
NPS-2022-20	Quality Evaluation of Quasi-Phase Matching (QPM) by Diffraction-Noise Prashant Povel Dwivedi
NPS-2022-21	Nanoparticle Enhanced Femtosecond Laser Induced Breakdown Spectroscopy of Aluminium Sheet coated with gold Nano-particle Embedded nanofibers N. Linga Murthy, M.S.S. Bharathi, S. Venugopal Rao
NPS-2022-22	Enhanced Temperature Sensing Based on the Randomness in the Multilayered 1D Photonic Crystals Lakshmi Thara R, P. Aruna Priya, Chittaranjan Nayak

NPS-2022-23	Generation of Parabolic pulse by nonlinear pulse reshaping inside a Silicon on Insulator (SOI) Waveguide Hemant, Somen Adhikary, Mousumi Basu
NPS-2022-24	Ultrasensitive Detection of Thiram and Nile Blue using Au Nanostars Decorated Laser-patterned Au Substrate Jagannath Rathod, Chandu Byram, Venugopal Rao Soma
NPS-2022-25	Generation of high-frequency pulse train by designing a buried SOI waveguide Somen Adhikary, Hemant, Mousumi Basu
NPS-2022-27	Si-based incident angle-sensitive reflective wavelength separator: a single-step FIB lithography based nanopatterning application Ramanathaswamy Pandian, Rajagopal R, Hrudya Radhakrishnan, G.Mangamma, S. Dhara
NPS-2022-28	Structural, Cytotoxic and Anti Cancerous Studies on Er³⁺: Y₂O₃ Nanophosphors Sreejaya T S, Deepthi N Rajendran
NPS-2022-29	Study Of Conversion Efficiency For Second Harmonic Wave From Fundamental Wave (Under Plane-Wave Approximation) Haziq Ali Peer Mohammed, Madhu, Prashant Povel Dwivedi
NPS-2022-29	Efficient optical limiting behavior of carbon encapsulated zinc sulfide core-shell nanostructures Athulya K.S and Chandrasekharan K
NPS-2022-31	Copper-based Surface Plasmon Coupled Emission Steering for Biosensor Applications Ajeesh P. Vijayan, A.Sreelakshmi Fasma Sharin and Pradeesh Kannan
NPS-2022-32	Synthesis and Characterization of Oleic Acid mediated growth of Single crystal perovskites: Optimisation of trap density and mobility Aiswarya M., Prateek.M, Sujith.P, Saranya Babu, and P.Predeep
NPS-2022-33	Effect of Solution and Dry processing techniques on the Optical and transport properties of Inorganic CsPbBr₃ Perovskite films Sujith.P, Prateek.M, Aiswarya M, Saranya Babu, P. Saidy Reddy and P.Predeep

NPS-2022-34	Semiconductor Core Optical Fibers for the Purpose of Nonlinear Pulse Reshaping Sujeet Singh, Binoy Krishna Ghosh, Mousumi Basu
NPS-2022-35	The optical linear and nonlinear exploration in a newly synthesized organic chromophore for photonic applications Mohd Mehkoom, Abid Ali, Sultan, Farman Ali, and S. M. Afzal
NPS-2022-37	Microfabrication using direct laser writer K. Prabakar, S. Balasubramanian, M. Raghuramaiah, S. Tripura Sundari and Sandip Dhara
NPS-2022-39	Sensing and dynamic switching of toroidal resonances in a bilayer terahertz-metamaterial Angana Bhattacharya, Gagan Kumar
NPS-2022-40	Hardware Development for Internet of Things-based Real-Time Blood Glucose Monitoring Using Photoplethysmography Abubeker K M, Baskar S
NPS-2022-41	Power dependent nonlinear optical characteristics and two-photon absorption of NiO/PVA thin film V. Pradeep Kumar, C. Pradeep, P. Radhakrishnan, A. Mujeeb
NPS-2022-42	Fast imaging and spectroscopic study of single and colliding laser produced plasmas Shilpa S. and Pramod Gopinath
NPS-2022-43	Characterization of Laser-Driven Air Sparks Using Self Emission and Rayleigh Scattering Studies Anu Avarachan, Abhirami M. R, Jefry John, Meenu M. S, Jinsi C. P, Akhil Varghese, Riju C. Issac
NPS-2022-44	Laser ablated silver nanoparticles doped blue light emitting polymer optical fiber with enhanced photostability B. Anugop, M. Kailasnath
NPS-2022-45	Non-Linear Optical Properties of AIE Dye Upon Restriction of Intramolecular Motion R. Lakshmi and Pramod Gopinath

NPS-2022-46	Transmission properties of one-dimensional periodic structure of metamaterials and dielectric materials with different configurations Girijesh Narayan Pandey, Narendra Kumar, Pawan Singh and Khem B. Thapa
NPS-2022-47	Investigation on Nonlinear Optical and Optical Limiting Properties of Cd_{0.7}Zn_{0.3}Te Quantum Dots Kiran John U., Jilu George, Siby Mathew
NPS-2022-48	Inline Fabrication of SERS Substrate for Point of Care Sensing Applications Sanoop Pulassery, Karuvath Yoosaf
NPS-2022-49	Investigating the Langevin Behaviour of Faraday Rotation in Soft Ferromagnetic CoFe₂O₄ Nanoparticles Dispersed in PVA-Water Medium Lakshmi B, Pramod Gopinath
NPS-2022-50	Development of visible light sensor using nanostructured cadmium sulfide thin films Midhun P. R, Asha A. S
NPS-2022-51	Statistical analysis of drying phenomenon of an epoxy adhesive Keerthana S H, P Radhakrishnan, A Mujeeb
NPS-2022-52	Investigations on Optical Properties of Ge-Sb-Se Chalcogenide Glass Films Towards Infrared Photonics Soumya Suresh, Anupama Viswanathan, B Anugop, Sheenu Thomas
NPS-2022-53	Dual-Channel based LSPR Biosensor for Multi-Analyte detection Simitha S, Shinto M Francis, Jesly Jacob and Vibin Ipe Thomas
NPS-2022-54	Photocatalytic activity of Gd₂O₃ doped Er₄Zr₃O₁₂ Nanoceramic Arun Mohan, Athira S and Sam Solomon
NPS-2022-55	The effect of temperature and power on the structural and optical properties of r.f sputtered ZnO thin films P. Hajara, T. Priya Rose K. J. Saji
NPS-2022-56	Network like silver nanostructures as SERS substrates Aiswarya Mohan, Lekshmi Chandran, KG Gopchandran
NPS-2022-57	Anti-cancer activity of triangular like silver nanoparticles Lekshmi Chandran, Rekha C R, Aiswarya Mohan, K G Gopchandran
NPS-2022-58	Broadband Photoacoustic Imaging for Biodegradable Bone Implants Applications Valeria Grasso, Philippe Trochet, Regine Willumeit-Römer, and Jithin Jose

NPS-2022-59	Sunlight Driven Photocatalytic Degradation of Organic Pollutant by Au Doped Anatase TiO₂ Nanoparticles Veena Lalan, K.G. Gopchandran
NPS-2022-60	Optical Studies in Eu³⁺ Doped Calcium Magnesium Silicate (CMS: Eu³⁺) Phosphor Sreelekha C. A., Navya Sara Kuriyan , Sabeena M
NPS-2022-61	Investigation of Intensity Dependent Nonlinear Absorption in Cerium Phosphate Nanoparticles Anita Mary Peter, Ramya M, M. Kailasnath