

LIST OF SELECTED ABSTRACTS FOR PRESENTATION

Subject: PHYSICAL SCIENCE

Sl. No	Full Name	Category	Title of Presentation	Mode of Presentation	Participation Number
1	A R ASWINI	Researcher (CMNPF)	Impact of long-range transported mineral dust and biomass emission on the sensitive ecosystem of Western Ghats: insights from molecular markers, elemental composition and morphology of aerosols	Oral Presentation	NC00060
2	Ardra A	Researcher (CMNPF)	Long-Term Variability of Sunspot Cycles: Correlative Insights from Solar Indices	Oral Presentation	NC00086
3	Dr. A. K. Sivadasan	Researcher (CMNPF)	An Indigenous Development of Economical and Eco-Friendly Perovskite Solar Cells	Oral Presentation	NC00275
4	Jesiya N P	Researcher (CMNPF)	Investigation of hydrologic regimes in the coastal urban environment of Northern Kerala using machine learning algorithms in the context of climate change	Oral Presentation	NC00014
5	Sreekumar Haridas	Researcher (CMNPF)	Assessment and future projection of hydrological droughts in Kerala based on CMIP6 Models	Oral Presentation	NC00077
6	Dr. Alex James	Researcher (Kairali)	Analog Computer Chip for Beyond Moore's Law Computing Design and Simulation of Spiking Neural Networks (SNN) Using Analog Circuit	Oral Presentation	
7	Dr. Anshida Mayeen	Researcher (Kairali)	Engineered Piezoelectric/Troboelectric Biocompatible Materials for Biomedical, Energy Harvesting and Sensing Applications.	Oral Presentation	
8	Dr. Subodh G.	Researcher (Kairali)	Cold Sintered Tin Fluoride Antenna for 5G Communications	Oral Presentation	

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9	Dr.Sujesh A.S.	Researcher (Kairali)	Neural Network Sensitivity Analysis of Carreau-Gold Bionanomaterial Flow	Oral Presentation	
10	Ardra S	Others	Bridging Planet Formation Theories and Observational Evidences: An Analysis of Exoplanet Properties	Oral Presentation	NC00185
11	ABISHEK P S	Researcher	Ion Acoustic Solitary Waves in Magnetized Plasma of Venus Ionosphere	Oral Presentation	NC00467
12	Alfiya Asharaf	Researcher	GROUNDWATER QUALITY ASSESSMENT OF KECHERY-PUZHAKKAL RIVER BASIN, THRISSUR, KERALA: IMPLICATIONS ON IRRIGATIONAL SUITABILITY AND ENVIRONMENTAL SUSTAINABILITY	Oral Presentation	NC00337
13	ANASWARA BIJU M	Researcher	Facile Synthesis and Characterization of an Imine-Linked Covalent Organic Framework	Oral Presentation	NC00260
14	Aswany V S	Researcher	Comparative study of Cerium based Pyrochlore Ce ₂ X ₂ O ₇ (X= Ti, Sn) for Electrochemical Applications	Oral Presentation	NC00174
15	Aswini Thampi S L	Researcher	The Dynamic Ionosphere: Solar Activity, Space Weather, and Geophysical Impacts	Oral Presentation	NC00220
16	Bushramol S	Researcher	DFT-Guided Analysis and Experimental Evaluation of the CNS-Relevant Thiourea Derivative CPPT	Oral Presentation	NC00585
17	Parvathy R J	Researcher	Probing the electrical properties of Bi-Hf doped GDC system for electrochemical application	Oral Presentation	NC00176
18	SAJITH S V	Researcher	Single-Activator White Light Emission in Dy ³⁺ -Doped Lithium Niobate Phosphor	Oral Presentation	NC00672

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19	Shilpa R	Researcher	Next generation HER electrocatalysts: Synergistic effects of MoS ₂ /CNT/MXene hybrids	Oral Presentation	NC00140
20	Sophy Mariam Varghese	Researcher	Engineering Multiwalled CNTs Modified Titanium Carbide MXene nanocomposites for Flexible Screen-Printed Micro-Supercapacitor Electrodes	Oral Presentation	NC00141
21	SreejayaTS	Researcher	Luminescent Eu ³⁺ and Er ³⁺ Doped Y ₂ O ₃ for Bioimaging and Lung Cancer Cell Studies	Oral Presentation	NC00459
22	SREELEKSHMI A K	Researcher	Probing the Near-Infrared Photophysical Emission Features of BaLaLiTeO ₆ :Cr ³⁺ Phosphors for Multifunctional Applications	Oral Presentation	NC00213
23	Suja Devi V	Researcher	A theoretical study on the impact of position specific inclusion of pie conjugated donor substituent on Benzanthrone core- in its NLO properties.	Oral Presentation	NC00697
24	VARSHA M	Researcher	A Hybrid Machine Learning- Physics-Informed Neural Network Framework for Molecular Geometry Optimization	Oral Presentation	NC00425
25	K M Unni Maya	Student	Hydrophobic Winsheild coating	Oral Presentation	NC00470
26	Rohit A	Student	Photoresponsive Resistive Memory Devices Using Graphene Oxide- Phosphor Complex.	Oral Presentation	NC00443
27	Dr. SHEJEENA K.A	Teacher	Preparing Future-Ready Science Learners: An Empirical Investigation of Scaffolded Vee Diagrams as a Competency-Based	Oral Presentation	NC00184

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			Strategy Aligned with NEP 2020		
28	Lija K Joy, Aruna Joseph, R.S Arun Raj		Ferrimagnetic CoFe ₂ -xNd _x O ₄ Electrodes for Symmetric Supercapacitors	Oral Presentation	
29	Aryadevi G	Researcher	Role of Polypyrrole Morphology in PPy/CuO/GNP Ternary Nanocomposites for Advanced Supercapacitors	Poster Presentation	NC00705
30	Aswathy M, Mini Krishna K, Rachana R, Aswathy M, Shamsiya V N, Veena Gopalan E	Researcher	A Comparative Study on the Structural and Optical Response of Synthetic and Green Carbon Dots	Poster Presentation	NC00289
31	Geethika Santhosh	Researcher	Probing star formation outside galaxies using UVIT on board AstroSat	Poster Presentation	NC00586
32	Haripriya V K	Researcher	Effect of sintering on the properties of Ni-Mn based NTC thermistors synthesized by various routes	Poster Presentation	NC00285
33	JITHU SUSAN JACOB	Researcher	TUNABLE PLASMONIC CAVITY SENSOR FOR HIGH PERFORMANCE VIRUS DETECTION	Poster Presentation	NC00690
34	Rachana R	Researcher	Efficient Dye Degradation Using Sol-Gel Derived LaFeO ₃ Nanoperovskites	Poster Presentation	NC00288
35	Sreebala P S	Researcher	Solar storms to auroras - decoding the Sun-Earth connection	Poster Presentation	NC00550
36	ANUSREE K T	Student	Nuclear physics	Poster Presentation	NC00123
37	Ginson P Joseph, Lisa Mariam Saji, Geethu Joseph,		A Comparative structure-defect-electrochemical study of LaFeO ₃ synthesized using bio chelating Extract	Poster Presentation	

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	Aryadevi G, Alex Jose				
38	Anjitha V K, Vinod Kumar R		Molybdenum doped Bismuth ferrite Nanoparticles for sustainable catalytic, sensing, and optoelectronic technologies	Poster Presentation	
39	Asha A S, Sreeja S, Christeena Thomas, Reshmi R		Hybrid IT/2H Mos2 nanostructures as an efficient platform for Dual-Analyte Electrochemical sensing	Poster Presentation	
40	Athulya S Nair, Sijo Sebastian		Plasma Dynamics and Turbulence in planetary magnetospheres: A chronological review	Poster Presentation	
41	Deepa S, Jiya Jose, Archana M S		A Comparative study of Novel Biocompatible Taurine-Doped Polyaniline and Polyaniline/Graphene Composites : Structural, Biological and Preliminary Binder-Free Electrochemical Insights.	Poster Presentation	
42	Dr. Aiswarya S, Dr. Nithyaja B		Retrieval of the Wavelength Dependent Optical Properties of Aerosols using a Broadband Cavity Enhanced Albedometer at Kerala	Poster Presentation	
43	Dr. Lynnette Joseph, Sunil Raj R		Preparation and Quantum Chemical computation of spectroscopic investigation on Organic Compound 2 - [bis(1-methyl-1H-indol-3-yl)benzoic acid for NLO application.	Poster Presentation	
44	Fathima S, Sijo Sebastine		Waves in Plasma : From early theories to modern developments- a chronological review	Poster Presentation	

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45	Geethu Joseph, Aryadevi G, Ginson P Joseph, Manjima T R		Synergistic Dielectric - Pseudocapacitive Pathways in Morphology-Tailored PANI/BaTiO/Carbon Black Electrodes	Poster Presentation	
46	Lynnette Joseph, Sunil Raj R, Saji Chandran, Reshmy Rajasekharan, Sankaran Nampoothiri V, Neelamma Gummagol		Third-Order Nonlinear Optical Properties of a Novel Tetralone-Based Chalcone for Optical Limiting Applications	Poster Presentation	
47	Lynnette Joseph, Sunil Raj R, Sankaran Nampoothiri V, Saji Chandran		Exploring the structural attributes of Diaquabis (nitrate)-bis (1x5-pyridin-1-olato-cobalt (II)):A comprehensive study on linear-nonlinear optical behaviour	Poster Presentation	
48	Pavithra Sreekumar, Sijo Sebastian		Space Plasma Interactions and their influence on satellite - based communication and GPS systems : A Chronological review	Poster Presentation	
49	Prince PR, Suji K, Ardra A R		Magnetic Local Time Dependence of Substorm Activity during Intense Geomagnetic storms of Solar Cycle 25	Poster Presentation	
50	Rani J R, Udayachandran Thampi, Prince P R, Nandhana Sunil, Ambarish R.P. Rohit.A		Low-Cost Rice Husk-Graphene Spoilage Sensor for Paddy Storage	Poster Presentation	
51	Reshmi R, Saranya Sasi, Christeena Thomas		Enhanced photodegradation of methylene blue dye using Mn doped MoS ₂ nanoflowers	Poster Presentation	

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52	Saranya Sasi, Dr. Alex Mathew, Dr. Reshmi.R, Rajani S Nair, Christeena Thomas		Studies on the novel WS2-WO3 nanocomposites for energy storage applications	Poster Presentation	
53	Sivanandana Rajesh, Sangeeth M K, Sreekarthi Das V, Prince PR, Gowreesh B K, Varij Panwar, Vipin Das V, Viji V R, Vimal Raj R, Rani J R, Ashika H, Udayachandran Thampi		A Flexible Graphene-PVDF-Rubber Composite for Piezoresistive Pressure Sensing	Poster Presentation	