

Scientific Programme Schedule

International Conference of Advances in Light-Matter Interactions: Fundamentals to Frontiers (ALMIC)

Venue: SB-Auditorium, GITAM-Bengaluru.

Dates: Feb 4-6, 2026.

S. No.	Event	Time
Date: 04-02-2026 (Quantum Phenomena & Exotic States)		
1.	Registration: Shivaji Bhavan (SB) Entrance	8.30 -09.30 AM
2.	Inauguration: SB-Auditorium	9.30 – 10.15 AM
3.	Inviting Guests on to Dias a. Prof. N. V. Krishna Prasad-HOD-Physics & Chair, ALMIC b. Dr. K. Chandrababu Naidu-Convener c. Prof. Reji Philip-Principal-GSS-BLR d. Prof. Anantha Ramakrishna-Dean – Science, GITAM e. Mr. Vijay Gejji- Resident Director, GITAM-BLR f. Prof. Basavaraj G Katageri-Pro-Vice Chancellor, GITAM-BLR g. Prof. Urbasi Sinha- RRI-Guest of Honour h. Prof. M. S. Ramachandra Rao – IIT Madras-Chief Guest	9.30 – 9.35 AM
4.	Lamp Lighting & Prayer Song	9.35-9.40 AM
5.	Opening Remarks by Prof. Krishna Prasad NV	9.40-9.45 AM
6.	Remarks by Prof. Reji Philip	9.45-9.50 AM
7.	Remarks by Prof. Anantha Ramakrishna S	9.50-9.55 AM
8.	Address by Prof. Basavaraj G Katageri	9.55-10.00 AM
9.	Introduction of Chief Guest	10.00-10.05 AM
10.	Felicitation to Chief Guest	10.05-10.10 AM
11.	Introduction of Guest of Honour	10.10 -10.15 AM
12.	Felicitation to Guest of Honour	10.15-10.20 AM
13.	Keynote Address by Prof. M. S. Ramachandra Rao , IIT Madras, India. Title: Diamond and other wide bandgap materials for electronic and quantum applications.	10.20 -11.20 AM
HIGH TEA-BREAK		11.20-11.40 AM
14.	Plenary Talk by Prof. Urbasi Sinha , RRI-Bangalore Title: Quantum at the speed of light: Exotic photonic states, certified randomness, and quantum-secure technologies.	11.40– 12.20 PM
Session Chairs: Prof. V. Ramakrishna Murthy/Prof. KM Jadhav/Prof. V. Vasudeva Rao Venue: SB-Auditorium		
15.	Introduction & felicitation of Prof. Vidyadhiraja NS	12.20-12.25 PM
16.	Invited Talk by Prof. Vidyadhiraja NS , JNCASR, Bangalore, India. Title: Emergent Sub-Ohmic zero gap state at Mott quantum criticality.	12.25 -1.05 PM
LUNCH-BREAK		1.05 -1.40 PM
17.	Introduction & felicitation of Prof. Venu Gopal Achanta	1.40 -1.45 PM
18.	Plenary Talk by Prof. Venu Gopal Achanta , Director-NPL-New Delhi, India Title: Exotic coupling states in coupled exciton-plasmon systems.	1.45- 2.25 PM
19.	Introduction & felicitation of Prof. Akshay Singh	2.25 – 2.30 PM

ALMIC, February 4-6, 2026, GITAM, Bengaluru-562163, India.

Website: <https://almic2026.gitam.edu/>

20.	Invited Talk by Prof. Akshay Singh , IISC-Bangalore Title: 2D materials for quantum technologies and novel Physics.	2.30 – 3.10 PM
21.	Introduction & felicitation of Prof. Aavishkar Patel	3.10-3.15 PM
22.	Invited Talk by Prof. Aavishkar Patel , ICTS-TIFR, Bengaluru, India. Title: Strange Metals with Spatially Random Interactions, and Their Universal Transport Properties.	3.15 -3.55 PM
23.	Industry Talk by EDMUND Optics	3.55-4.10 PM
TEA-BREAK		4.10 – 4.20 PM
24.	Poster Presentation	4.20- 5.00 PM
25.	Title: Technology Advancement in Quantum Physics Dr. Sachin Barthwal , Head Quantum Technology, Quantum AI Global	4.20- 4.50 PM
Date: 05-02-2026 (Energy Materials, Metamaterials & Nanostructures) Parallel Scientific Talks: Kensen Hall & Kojo Hall		
(a) Venue: Kensen Hall Session Chair: Prof. R. Ramakrishna Reddy/Prof. V. Ramakrishna Murthy		
26.	Introduction of Prof. Giovanni Hearne	9.00 -9.05 AM
27.	Felicitation to Prof. Giovanni Hearne	9.05 -9.10 AM
28.	Plenary Talk by Prof. Giovanni Hearne , Univ. of Johannesburg, S Africa. Title: Advances in recoilless nuclear resonance spectroscopy for investigating light-matter interactions: Fundamentals to frontiers.	9.10 -9.50 AM
29.	Introduction of Prof. Ashutosh Kumar Singh	9.50 -9.55 AM
30.	Felicitation to Prof. Ashutosh Kumar Singh	9.55 -10.00 AM
31.	Invited Talk by Prof. Ashutosh Kumar Singh , CeNS, Bangalore, India. Title: Next-generation smart windows: Efforts towards the development of smart windows for sustainable energy applications.	10.00 -10.40 AM
TEA-BREAK		10.40 - 11.00 AM
32.	Introduction of K.C. James Raju	11.00 -11.05 AM
33.	Felicitation to Prof. K.C. James Raju	11.05 -11.10AM
34.	Plenary Talk by Prof. K.C. James Raju , University of Hyderabad, India. Title: Laser annealing: A light -matter interaction process to make crystalline oxides compatible with polymer substrates.	11.10 -11.50 AM
35.	Introduction of Prof. Som Datta Kaushik	11.50 -11.55 AM
36.	Felicitation to Prof. Som Datta Koushik	11.55 -12.00 AN
37.	Invited Talk by Prof. Som Datta Koushik , BARC - Mumbai, India. Title: Tunability in double perovskites by comparing structural, magnetic and dielectric properties on Tb ₂ CoMnO ₆ , Tb ₂ NiMnO ₆ .	12.00 -12.40 PM
38.	Introduction of Prof. Dipak Palit	12.40 -12.45 PM
39.	Felicitation to Prof. Dipak Palit	12.45 -12.50 PM
40.	Invited Talk by Prof. Dipak Palit , University of Mumbai, India. Title: Ultrafast Spectroscopy and Dynamics of Singlet Exciton Fission.	12.50 -1.30 PM
LUNCH-BREAK		1.30 – 2.15 PM
41.	Introduction of Prof. V.R.K. Murthy	2.15 -2.20 PM
42.	Felicitation to Prof. V.R.K. Murthy	2.20 -2.25 PM
43.	Plenary Talk by Prof. V. Ramakrishna Murthy , VIT-Amaravati, India. Titles: (a) Microwave sintering studies on bulk and nano ceramics. (b) Role, concepts, design and development of some EMI materials for EM shielding.	2.25 -3.05 PM
44.	Introduction of Prof. Subhro Bhattacharjee	3.05 -3.10 PM

ALMIC, February 4-6, 2026, GITAM, Bengaluru-562163, India.

Website: <https://almic2026.gitam.edu/>

45.	Felicitation to Prof. Subhro Bhattacharjee	3.10 -3.15 PM
46.	Invited Talk by Prof. Subhro Bhattacharjee , ICTS-TIFR, Bengaluru, India Title: Spin-Orbit coupled Dirac fermions.	3.15 -3.55 PM
TEA-BREAK		3.55 - 4.10 PM
47.	Introduction of Prof. Jiban Podder	4.10 -4.15 PM
48.	Felicitation to Prof. Jiban Podder	4.15 -4.20 PM
49.	Invited Talk by Prof. Jiban Podder , Univ. of Saskatchewan, Canada. Title: Nanostructured biowaste-based electrodes: A sustainable path to high energy storage.	4.20-5.00 PM
(b) Venue: Kojo Hall		
Session Chair: Prof. V. Ramakrishna Murthy/Prof. R. Ramakrishna Reddy.		
50.	Introduction of Prof. Achintya Singha	9.00 -9.05 AM
51.	Felicitation to Prof. Achintya Singha	9.05 -9.10AM
52.	Invited Talk by Prof. Achintya Singha , Bose Institute, Kolkata, India. Title: Spin-valley Physics and interlayer excitons in two-dimensional TMDCs	9.10 -9.50 AM
53.	Introduction of Prof. Suchand Sandeep CS	9.50-9.55 AM
54.	Invited Talk by Prof. Suchand Sandeep CS , MAHE, India. Title: Random laser based high-resolution biomedical imaging.	10.00 -10.40 AM
TEA-BREAK		10.40 - 11.00 AM
55.	Introduction of Prof. Bobby Joseph	11.00-11.05 AM
56.	Felicitation to Prof. Bobby Joseph	11.05-11.10 AM
57.	Plenary Talk by Prof. Bobby Joseph , Elettra Sincrotrone Trieste, Italy. Title: Raman spectroscopy investigations of isostructural phase transition in tin based alloys under compression.	11.10 -11.50 AM
58.	Introduction of Prof. Venugopal Rao Soma	11.50 -11.55 AM
59.	Felicitation to Prof. Venugopal Rao Soma	11.55 -12.00 AN
60.	Invited Talk by Prof. Venugopal Rao Soma , University of Hyderabad, India. Title: Ultrashort pulse laser ablation for multi-functional nanomaterials.	12.00 -12.40 PM
Date: 06-02-2026 (Biological systems and Soft Matter)		
Venue: Kensen Hall		
Session Chairs: Prof. V. Ramakrishna Murthy/Prof. R. Ramakrishna Reddy		
61.	Introduction of Prof. Shriganesh S Prabhu	9.00 -9.05 AM
62.	Felicitation to Prof. Shriganesh S Prabhu	9.05 -9.10AM
63.	Plenary Talk by Prof. Shriganesh S Prabhu , TIFR, Mumbai, India. Title: Terahertz spectroscopy: Sources and detectors with applications.	9.10 -9.50 AM
64.	Introduction of Prof. Somnath C Roy	9.50 -9.55 AM
65.	Felicitation to Prof. Somnath C Roy	9.55 -10.00AM
66.	Invited Talk by Prof. Somnath C Roy , IIT Madrad, India. Title: One dimensional nanostructured materials for applications in energy conversion and environmental pollution control.	10.00 -10.40AM
TEA-BREAK		10.40 - 11.00 AM
67.	Introduction of Prof. Sabu Thomas	11.00 -11.05 AM
68.	Felicitation to Prof. Sabu Thomas	11.05 -11.10AM
69.	Plenary Talk by Prof. Sabu Thomas , MG University-Kerala, India. Title: Interfacial Modification in Nanocomposites to Tailor Functionalities.	11.10 -11.50 AM
70.	Introduction of -Prof. Ramakrishna Reddy	11.50 -11.55 AM
71.	Felicitation to Prof. Ramakrishna Reddy	11.55 -12.00 AN

ALMIC, February 4-6, 2026, GITAM, Bengaluru-562163, India.

Website: <https://almic2026.gitam.edu/>

72.	Invited Talk by Prof. Ramakrishna Reddy, SK University, India. Title: Bio-inspired hierarchical materials: Nature inspired technologies.	12.00 -12.40 PM
LUNCH-BREAK		1.30 – 2.15 PM
Valedictory Venue: SB-Auditorium		2.30 -3.30 PM
Oral Presentations (OP)		
Date: 05-02-2026		
Parallel Session		
(a) Venue: SB-501 (CSE-Seminar Hall)		
Session Chair: Prof. D. Ravinder (Presentation: 8 Min. & Discussion-2 Min.)		
OP. No.	Title	Time
1.	Computational Methods and Statistical Analysis for Advanced Ceramics. - <i>Surnam Narendra et al.</i>	2.15 -2.25 PM
2.	Tunable Elastic Wave Band Gaps and Transmission in Aluminum and Silicon Phononic Metamaterials. - <i>Premkumar K et al.</i>	2.25 -2.35 PM
3.	Hyperbolic Dispersion of Silver Nanowire Array Metamaterial and Purcell Enhancement of the coupled CdSe-ZnS Quantum Dots. - <i>Harshavardhan Reddy Kalluru.</i> (OR) Investigation of Plasmon-exciton coupling in Quantum Dot-Metal nanoparticle Hybrid Structure <i>Sabitha Mohan et al.</i>	2.35 -2.45 PM
4.	Metal-Free Heteroatom-Doped Graphene Quantum Dots for Hydrogen Evolution in Proton Exchange Membrane Water Electrolysis. - <i>Pradeep Kumar Panda et al.</i>	2.45 -2.55 PM
5.	Fabrication of novel PANI/STO/AC heterojunction for enhanced photocatalytic reduction of 4-Nitrophenol. - <i>Amruth H D Gowda et al.</i>	2.55 -3.05 PM
6.	Control of Re-entrant Localization Transitions in Non-Hermitian Quasiperiodic Chains via Rashba Spin-Orbit Coupling by <i>Aruna Prasad.</i> (OR) Effect of interface on light-matter interaction in the MoS ₂ -based van der Waals heterostructure. <i>Sanjitha K Shetty et al.</i>	3.05 -3.15 PM
7.	Ballistic Performance of Epoxy-Based Hybrid Laminates Reinforced with Banana and Areca Fibers. - <i>Anannya A Rao et al.</i>	3.15 -3.25 PM
8.	Enhanced Ammonia Sensing Performance of UV-Activated WO ₃ thin films Deposited by RF Magnetron Sputtering. - <i>Gurusampath Kumar A et al.</i> (OR) Alkali-controlled nanostructured γ -Al ₂ O ₃ with high dielectric constant derived from boehmite via a microwave-assisted soft-chemical route <i>Rajababu C et al.</i>	3.25 -3.35 PM
9.	Hybrid Composite Fabrication Using Areca Fibers and Metal Mesh for Enhanced Impact Resistance. - <i>Sridhar. B. S et al.</i>	3.35 -3.45 PM

10.	Investigation of Structural and Magnetic Properties of Polycrystalline $Y_3Fe_5O_{12}$ by <i>A. Barik et al.</i> (OR) Er^{3+}/Tm^{3+} co-doping and its influence on physical, optical and luminescence properties of Er^{3+} doped borate glasses. <i>Ashwitha Nancy D'Souza et al.</i>	3.45 -3.55 PM
TEA-BREAK		3.55 - 4.10 PM
11.	A Facilely Synthesized MoS_2 -ZnS-rGO Composite: A Bifunctional Platform for Enhanced Electrocatalysis (OER) and Photocatalysis. - <i>Ramanjulu Mandam et al.</i>	4.10 - 4.20 PM
12.	Non-destructive Detection of Water Adulteration in Rum. - <i>Pushpanjali Pal et al.</i>	4.20 - 4.30 PM
13.	Localized thermal gradient-assisted hydrothermal reactor for controlled ZnO nanowire growth and room-temperature ethanol sensing by <i>Ghosh et al.</i> (OR) Fabrication and Characterization of ZnO-NiCo ₂ S ₄ S-Scheme heterojunction for the Photocatalytic degradation of an Organic dye. <i>C Sushma et al.</i>	4.30 - 4.40 PM
14.	Low-cost fabrication of flexible Sn-doped CuS photodetector by chemical bath deposition method. - <i>Somesh Sabat et al.</i>	4.40 - 4.50 PM
15.	Analysis of Vibration behavior in CNC Maching of Advanced Engineering Materials. - <i>Saraswathi G et al.</i>	4.50 - 5.00 PM
Oral Presentations (OP)		
Date: 06-02-2026		
(a) Venue: SB-501 (CSE-Seminar Hall)		
Session Chair: Prof. D. Ravinder (Presentation: 8 Min. & Discussion-2 Min.)		
16.	Photoresponse study of $MoTe_2$ films with various configuration. - <i>Anurag Gartia et al.</i>	9.00-9.10 AM
17.	Optimized Magnetic and Optical Performance in Sm^{3+} -Doped Ni-Co Ferrites for Functional Device Applications. - <i>G Sowmya et al.</i>	9.10-9.20 AM
18.	Design, Synthesis and Physical studies of Cerium based MOFs with isonicotinate linker for advanced functional applications. - <i>Vedashree N et al.</i>	9.20-9.30 AM
19.	Electronic Structure of CdS , Cu_2SnS_3 , Cu_2SnSe_3 , and $Cu_2Sn(So.5Se0.5)_3$: A Systematic Assessment of DFT Exchange–Correlation Functionals. - <i>Ranjan Kumar Tung et al.</i>	9.30-9.40 AM
20.	Electron correlations, itinerant magnetism and <i>DMI</i> strength in $Fe_{1-x}Co_xSi$ ($x = 0.4$ and 0.6): A comparative investigation. - <i>Bunty Rani Roy et al.</i>	9.40-9.50 AM
21.	Magnetic disorder-manifested deviation from Fermi liquid mechanism in the correlated electron metal $Mn_{0.5}Fe_{0.5}Si$. - <i>S. Shanmukharao Samatham et al.</i>	9.50-10.00 AM
22.	Tailoring the morphology and dielectric properties of RF sputtered Ta_2O_5 thin film by variation of RTA temperature and duration. - <i>Kiran K. Sahoo et al.</i>	10.00-10.10 AM
23.	Photocatalytic Dye Degradation Using CuO Thin Films Prepared by the Doctor Blade Technique. - <i>Pooja Shinde et al.</i>	10.10-10.20 AM

ALMIC, February 4-6, 2026, GITAM, Bengaluru-562163, India.

Website: <https://almic2026.gitam.edu/>

24.	Influence of aluminum doping on the photocatalytic activity of activity ferrite nanoparticles. - <i>Yogesh P. Ubale et al.</i>	10.20-10.30 AM
25.	Enhanced structural and magnetic properties of cobalt ferrite nanoparticles prepared via glycine assisted sol-gel auto-combustion method. - <i>Swapnil Bhagat et al.</i>	10.30-10.40 AM
TEA-BREAK		10.40-11.00 AM
26.	Effect of Copper Oxide Nanoparticles on the Impedance and A.C. Conductivity Properties of Borosilicate Glass Ceramics. - <i>C. Thirmal et al.</i>	11.00-11.10 AM
27.	Investigations of structural and optical properties of Fe doped BaTiO ₃ nanopowder by <i>Smita More et al.</i> (OR) Does EG-water hydrophilic interaction drive enhanced cryoprotection at intermediate composition? A terahertz spectroscopic study. - <i>Debasish Das Mahanta et al.</i>	11.10-11.20 AM
28.	Electrical Conduction Behaviour of NaI Doped System: Applicability of Meyer – Neldel Rule by <i>Rakesh Ram et al.</i> (OR) Synthesis and Characterization of Co _x Ni _(1-x) MoS ₄ Nano powders as Electrode Materials for Supercapacitor Applications. <i>S. Vidya Sagar et al.</i>	11.20-11.30 AM
29.	Room temperature magnetoelectric properties of CoFe ₂ O ₄ nanoflakes. - <i>Subir Roy et al.</i>	11.30-11.40 AM
30.	Fabrication of plasmonic Nanoparticle-Embedded PDMS Substrates for Surface Enhanced Raman Spectroscopy. - <i>Sunku Sreedhar et al.</i>	11.40-11.50 AM
31.	Studies of porous structure and its impact on hydrogen adsorption in activated carbons using different models. - <i>Arup Sarkar et al.</i>	11.50-12.00 AM
32.	Flow Description of Casson Nanofluid in a Conducting Field with Inclination Effect: An artificial neural network approach by <i>Obulesu et al.</i> (OR) Structural, Vibrational, and Transport properties of RSn ₄ (R= Pt, Pd, and Au) compounds under Pressure. <i>Satheasuweatha et al.</i>	12.00-12.10 PM
33.	Synthesis, structural, magnetic and microwave absorption properties of Mn ³⁺ substituted CoNi nanoferrites with composition Co _{0.9} Ni _{0.1} Mn _x Fe _{2-x} O ₄ using sol-gel combustion method by <i>R. Vemuri et al.</i> (OR) Thermoluminescence Kinetic Analysis and Dosimetric Features of Sm Activated ZrO ₂ Phosphor. <i>H.S. Loksha et al.</i>	12.10-12.20 PM
34.	Power-dependent photoluminescence in graphene/ MoS ₂ Van der Waals heterostructure at room temperature - <i>Arup Singha et al.</i>	12.20-12.30 PM
35.	Optimized rice straw ash as a sustainable pozzolanic precursor for high-performance geopolymer mortars. - <i>Kota Sudhakar Reddy.</i>	12.30-12.40 PM
LUNCH-BREAK		1.30 – 2.15 PM
Oral Presentations (OP)		

Date: 05-02-2026

Parallel Session

(b) Venue: SB-301 (Seminar Hall)

Session Chair: Prof. Venkatanadh R (Presentation: 8 Min. & Discussion-2 Min.)

36.	Experimental and machine learning-aided prediction of compressive strength of geopolymer mortar using processed rice straw ash - <i>K Sudhakar Reddy.</i> (OR) Investigation on Structural and Optical Properties of Alkali and Alkaline Earth Fluorophosphate Glasses Doped with Sm ³⁺ Ions for Reddish-Orange Lighting Applications. - <i>B. Bujji Babu et al.</i>	2.15 -2.25 PM
37.	Low-Temperature Chemical Bath Deposition of MoO ₃ Thin Films: Structural and Electrochemical Evaluation. - <i>Lakshmi Priya N et al.</i>	2.25 -2.35 PM
38.	Application-Driven First-Principles and Ab Initio Molecular Dynamics Study of Rare-Earth Mononitrides (REN). - <i>Namrata Yaduvanshi.</i>	2.35 -2.45 PM
39.	Interchannel Delay Mitigation in PPG-Based Pulse Wave Velocity Estimation Using Low-Cost Analog Filtering. - <i>Kshitij Shakya.</i>	2.45 -2.55 PM
40.	Synthesis and characterization of chitosan based silver nanocomposite using neem extract. - <i>Sheela S Gandhad et al.</i>	2.55 -3.05 PM
41.	Light-matter interaction: An in-vitro and theoretical studies in characterizing the interaction of antihistamine drug bilastine with carrier protein human serum albumin. - <i>Anna Tanuja Safala Bodapati et al.</i>	3.05 -3.15 PM
42.	Structural and Luminescence Properties of Nd ³⁺ -Doped Strontium-Boro-tellurite Glasses Integrated with ZnO and Bi ₂ O ₃ . - <i>Shwetha M et al.</i>	3.15 -3.25 PM
43.	Effect of microwave heating on phase evolution and optical bandgap tuning of Na doped iron oxide nanoparticles. - <i>Vibha R S et al.</i>	3.25 -3.35 PM
44.	Studies of porous structure and its impact on hydrogen adsorption in activated carbons using different models. - <i>Arup Sarkar et al.</i>	3.35 -3.45 PM
45.	Impact of thermal Treatment on the photovoltaic performance of SnO ₂ nanoparticle based Dye- Sensitized Solar Cell. - <i>Sangita Das et al.</i>	3.45 -3.55 PM
TEA-BREAK		3.55 - 4.10 PM
46.	Unlocking The Electrochemical Sensing Potential Of Cu/ZnO- For Precise Simultaneous Detection Of Tyrosine, Dopamine And Ascorbic Acid. - <i>Budde Kumara Swamy et al.</i>	4.10 - 4.20 PM
47.	Antioxidant potential of a dicoumarol analog and unveiling its binding nature with double-stranded DNA: Spectroscopic, docking & ADMET - <i>K. Lavanya et al.</i>	4.20 - 4.30 PM
48.	Silicon-Based n-i-p Heterojunction Photoanode for Large Scale Photoelectrochemical Water Splitting. - <i>Kumar Shubham et al.</i>	4.30 - 4.40 PM
49.	Rare-earth engineered CoFe ₂ O ₄ Nanoparticles on Ti ₃ C ₂ T _x	4.40 - 4.50 PM

ALMIC, February 4-6, 2026, GITAM, Bengaluru-562163, India.

Website: <https://almic2026.gitam.edu/>

	MXene for Enhanced Triboelectric Nanogenerator Performance. - <i>Jhilmil Swapnalini et al.</i>	
50.	Spectroscopic and Electrical properties of MoO ₃ doped Lead Germanate Glasses. - <i>SK. Meerasaheb et al.</i>	4.50 - 5.00 PM
Oral Presentations (OP)		
Date: 06-02-2026		
Parallel Sessions		
(b) Venue: SB-301 (Seminar Hall)		
Session Chair: Prof. Venkatanadh R (Presentation: 8 Min. & Discussion-2 Min.)		
51.	Digital Twin of Lithium-Ion Batteries Using a 2-RC Thevenin Equivalent Circuit Model. - <i>Chinnapalli Neha Angel et al.</i>	9.00-9.10 AM
52.	Thickness-Tuned Interference Engineering for Efficient SHG in Subwavelength $\chi(2)$ Films. - <i>Ardra Muriyankandathi et al.</i>	9.10-9.20 AM
53.	Noble Metal Modified TiO ₂ Nanostructures with Improved Visible-Light Photoactivity. - <i>Manaswita Nag et al.</i>	9.20-9.30 AM
54.	Crystal Structure, magnetic properties, and magnetoelectricity in CoFe ₂ O ₄ /Cr ₂ O ₃ nanocomposite by <i>A. Barik et al.</i> (OR) Low Temperature Dielectric Relaxation, Magnetic Glassiness, and Magnetodielectric Coupling in 0.8(Bi ₅ Ti ₃ FeO ₁₅)/0.2(La _{0.67} Sr _{0.33} MnO ₃) Composite. <i>Rasmita Jena et al.</i>	9.30-9.40 AM
55.	Ni ²⁺ substituted Co ferrites with enhanced electrical resistivity and magnetic properties for high-frequency applications - <i>S. Ravi Kumar et al.</i>	9.40-9.50 AM
56.	Conductance Fluctuations in Organo-metallic CuTCNQ Single Nanowire (diameter ~10 nm). - <i>Rabaya Basori et al.</i>	9.50-10.00 AM
57.	Structural and Optical Properties of Vanadium Oxide-CNT Nanocomposites. - <i>Nazia Shaikh et al.</i>	10.00-10.10 AM
58.	OSL Characteristics and Trap Dynamics in Mn-Activated SrAl ₂ O ₄ Phosphors. - <i>Thejavathi N R et al.</i>	10.10-10.20 AM
59.	Chemical synthesis route-driven structural transformation and luminescent behavior of Eu ³⁺ -activated Zn ₄ B ₆ O ₁₃ Phosphors. - <i>A. Siyalo et al.</i>	10.20-10.30 AM
60.	Comparative analysis and ergonomic evaluation of illumination intensity in open cast mines haul roads as per Directorate General of Mine Safety statutory guidelines. - <i>Debasis Chatterjee.</i>	10.30-10.40 AM
TEA-BREAK		
61.	Facile construction of Carbon nanotubes anchored ZnS/Ag ₂ S Nanocomposites for efficient Photocatalytic Hydrogen Evolution. - <i>A. P. Lingaswamy et al.</i>	11.00-11.10 AM

62.	Remote sensing of total column ozone and tropospheric NO ₂ and model observations over semi-arid region in southern India <i>A.P. Lingaswamy et al.</i> (OR) Luminescence behaviour of Dy ³⁺ doped strontium halophosphate phosphor. <i>Vishnu V. Jaiswal et al.</i>	11.10-11.20 AM
63.	Laser Shock Peening of Various Metal Alloys and Its Effect on Microstructure and Mechanical Properties. - <i>S. Prabhakaran et al.</i>	11.20-11.30 AM
64.	Data acquisition programme by Laboratory Virtual Instrumentation Engineering Workbench (LabVIEW) - <i>Padigeri Maheswari</i>	11.30-11.40 AM
65.	Structural, optical, and electrical properties of Er–M co-doped ceria electrolytes by <i>S. Ramesh et al.</i> (OR) Structural Biology at the Electron Beam–Matter Interface: Cryo-EM of a Plant Cell Wall Enzyme. <i>Purushotham Naidu Pallinti et al.</i>	11.40-11.50M
66.	Sol-Gel synthesized polyvinyl alcohol–tantalum oxide/hydroxyapatite films for biocompatible & antimicrobial wound healing applications <i>R.K. Rao et al.</i> (OR) Temperature Induced Phase-Shift in Cobalt Substituted KBiFe ₂ O ₅ . <i>K. Chandrakanta et al.</i>	11.50-12.00 AM
67.	Enhanced Electrochemical performance of Transition metal oxide Composite for High Energy Supercapacitors. - <i>Sunitha R et al.</i>	12.00-12.10 PM
68.	Phytochemical-Assisted Synthesis of Maghemite (γ-Fe ₂ O ₃) Nanoparticles Using Sphagneticola trilobata Leaves: Structural and Morphological Analysis. - <i>V. Venkata Ramesh Reddy et al.</i>	12.10-12.20 PM
69.	Extracting Hydration Signatures in Cryoprotectant Solutions Using MCR-ALS Spectral Decomposition. - <i>Debasish Das Mahanta et al.</i>	12.20-12.30 PM
70.	Topological Edge States in One-dimensional Photonic Crystals for Optical Sensing: Principles, Designs, and Applications. - <i>Anjineya K et al.</i>	12.30-12.40 PM
LUNCH-BREAK		1.30-2.15 PM

Poster Presentations (PP)		
Session Chair: Prof. D. Ravinder/Prof. Vasudeva Rao V/Prof. Venkatanadh R		
Date: 04-02-2026 (3.55- 5.00 PM)		
PP. No.	Title	Time
1.	The Influence of Samarium on Structural and Magnetic Properties of CoFe ₂ O ₄ . - <i>Sita Rama Raju Padam et al.</i>	
2.	Efficiency of solar PV panel charging an electric vehicle battery via a DC to DC boost converter. - <i>S Nagaraja Rao et al.</i>	
3.	Smart algorithm for finding the MPPT parameters of solar PV panel. - <i>S Nagaraja Rao et al.</i>	

4.	Enhanced structural, optical and magnetic properties of Gd and Bi-doped yttrium iron garnet (YIG) nanoparticles synthesized via a modified sol-gel auto-combustion method. - Bhargavi M et al.	3.55- 5.00 PM
5.	Quantum-Accelerated Defect Modelling: Variational Quantum Eigensolver Study of Correlated Oxygen Vacancies in Zirconia. - Abhiraj T P et al.	
6.	Modelling Error-Resilient Quantum Key Distribution in Hybrid Si ₃ N ₄ -InP Waveguides: Towards Long-Haul Secure Communication. - Ashwin Nyamati et al.	
7.	LATEST advancements in rice wastes derived heterogeneous catalytic conversion of biomass to fuels (biodiesel): A review. - Raghavendra V et al.	
8.	Numerical modeling and simulation of fiber Bragg grating for cryogenic temperature sensing using COMSOL multiphysics. - Josin Stephen et al.	
9.	Facile Hydrothermal Synthesis of NiCo ₂ O ₄ @MWCNT for High-Performance Supercapacitors and Electrocatalytic Oxygen Evolution. - Vimaladevi Pernati et al.	
10.	Phase-Engineered Ni _{0.8} Mn _{0.2} Fe ₂ O ₄ -BaFeO ₃ Nanocomposites with Tunable Functional Properties. - H. V. Srikanth et al.	
11.	Structural and optical properties of Pr ³⁺ doped Li ₂ O-CdO-Al ₂ O ₃ -B ₂ O ₃ glasses: suitable for optical fibers and photonics. - Jyothi B R et al.	
12.	Influence of Tb ³⁺ Substitution on the Structural, Optical, and Dielectric Properties of Cobalt Ferrites with Thermoelectric Assessment. - K. Vani et al.	
13.	Fabrication, Structure, Bandgap, and Dielectric study of Al _{0.8} Zn _{1-x} Ni _x TiO _{3+δ} (x=0.04-0.16). - Srinivas Y et al.	
14.	Mesoporous silica NPs in modern cancer therapies: An engineering review. - Sara Maryam et al.	
15.	Optical, and electronic behavior of Ni-doped BiFeO ₃ nanoparticles. - Sake Devendra et al.	
16.	Optical Properties of BaCoTiO ₃ Quantum Dots. - Pedda Reddy Yagantigari et al.	
17.	Ce doping-induced structural and electrochemical performance enhancement in octahedral ZnMn ₂ O ₄ microcrystallites for hybrid supercapacitor applications. - G C V Prasad et al.	
18.	Design, Synthesis and Physical studies of Cerium based MOFs with isonicotinate linker for advanced functional applications. - Vedashree N et al.	
19.	Structural, Morphological and Antibacterial Evaluation of Spinel Cobalt Ferrite Nanoparticles. - Kalyani K. Deshmukh et al.	
20.	Influence of V ₂ O ₅ on the Optical Properties of BaO-Li ₂ O-Bi ₂ O ₃ -WO ₃ -B ₂ O ₃ Glasses. - Pavan Kumar Potuganti et al.	

21.	Pareto optimal approach for sparing normal brain using normal tissue objective function based static-field intensity modulated stereotactic radiosurgery of solitary brain metastasis. - <i>Shabbir Ahamed et al.</i>
22.	Role of rare earth Ytterbium on the structural and magnetic properties of cobalt ferrite nanoparticles. - <i>Rahul Pandit et al.</i>
23.	Fabrication and Characterization of Ba _{1-x} La _x TiO ₃ Nanomaterials: Insights into Optical, Fluorescence, and Structural Properties. - <i>Grande Kusuma Priya et al.</i>
24.	Investigating impact of Polypyrrole substitution on hopping length and on the formation of tetrahedral and octahedral sites in Gallium nitride doped ferrites. - <i>Rajani Indrakanti et al.</i>
25.	Environmental Stability of Quantum Materials Under Thermal, Mechanical, and Radiation Stress: A Systematic Review for Aerospace Applications. - <i>D. N. Chandra Teja et al.</i>
26.	Raman Scattering, Photoluminescence and Photo detection properties of Hydrophobic Al doped ZnO nanoarrays - <i>Santhosh Kumar Adpa et al.</i>
27.	High-performance supercapacitor electrodes: Hydrothermal synthesis of spherical MoS ₂ with enhanced capacitive efficiency - <i>P. Ameena et al.</i>
28.	Comprehensive Characterization of Mg _{1-x} Co _x Fe ₂ O ₄ Spinel Nanoparticles: Effects of Cobalt Doping on Structural and Optical Properties - <i>Kongi Prasad et al.</i>
29.	NiFe ₂ O ₄ /ZnO heterostructure nanocomposites for efficient photocatalytic dye degradation and hydrogen generation - <i>Pratik S. Patil et al.</i>
30.	Enhanced Antibacterial Performance of Sol-Gel synthesized Nickel Ferrites - <i>Punam B. Dube et al.</i>
31.	ROOM temperature magnetoelectricity in CuO-doped Bi ₄ Ti ₃ O ₁₂ ceramics - <i>E. Elayaperumal et al.</i> (OR) Angle-resolved optical properties of self-assembled colloidal monolayers: Grating diffraction, thin-film interference, and Rayleigh anomalies - <i>A. Anand Eswara Rao et al.</i>
32.	Ce- single atom anchored Cobalt Molybdenum Oxide nanorods: Experimental synthesis, characterization and DFT mechanistic insights for high performance electrodes - <i>Nagashree S N et al.</i>
33.	Enhancement Study of Thermal, UV, DC and AC Electrical Characteristics of Rare-Earth Er ³⁺ doped Cd-Mg Ferrites - <i>Venu. S et al.</i>
34.	Effect of Sintering Temperature on Gas Sensing and Photocatalytic Performance of Pristine WO ₃ - <i>Abhijeet P. Patil et al.</i>
35.	Mesoporous Silica Nanoparticles in Modern Cancer Therapies: An Engineering Review - <i>Sara Maryam et al.</i>
36.	Role of annealing ambience on the interfacial chemistry and electrical properties of HfO ₂ /Si stacks for MOS devices - <i>U Sreekanth et al.</i>

ALMIC, February 4-6, 2026, GITAM, Bengaluru-562163, India.

Website: <https://almic2026.gitam.edu/>

37.	Strength–corrosion correlation of Mg-alloyed AlTiSnZr lightweight high-entropy materials - <i>Satya Prasad Maddula et al.</i>
38.	Structural and electrical properties of ZrO ₂ /Si stacks for MOS devices - <i>K. Srinivas Yadav et al.</i>
39.	Solvothermally synthesized of Yb ³⁺ :Cu ₂ SnS ₃ Nanostructures for supercapacitor electrodes - <i>Sandeep Kumar N R et al.</i>
40.	Photovoltaic and Electronic Properties of WO ₃ modified n-Ge Heterostructure - <i>S. Guruswathi et al.</i>
41.	Gas Sensing functionalities of Li-Gd co-substituted (K _{0.5} ,Na _{0.5}) NbO ₃ ceramics derived from Molten Salt Synthesis - <i>Deva Sucharitha Chakram et al.</i>
42.	Structural and Electrochemical Investigation of Chromium Doped La _{0.5} Ca _{0.5} Cr _x Fe _{1-x} O ₃ Perovskite Oxide for Supercapacitor Applications - <i>Devika Ramesh et al.</i>
43.	Design, Synthesis and Electrochemical Evaluation of Nickel–Cerium Oxide Nanocomposites for Nitrite Detection” - <i>Sumanjali Kota et al.</i>
44.	Morphological and optical properties of cobalt doped barium hexaferrites - <i>Uppara Naresh et al.</i>
45.	Structure and dielectric behavior of (1-X) (Al _{0.2} La _{0.8} TiO _{3+δ}) +(X) (BaTiO ₃ /CuTiO ₃) (X = 0.2 - 0.8) nanocomposites. - <i>Venkateshreddy B et al.</i> (OR) Structure, morphology and negative dielectric behavior of (1-x) (Al _{0.2} La _{0.8} TiO ₃) +(x) (BiFeO ₃ /BiZnFeO ₃) (x = 0.2 - 0.8) nanocomposites - <i>A. Mallikarjuna et al.</i>
46.	Metal-free carbon nitride hollow spheres as artificial photosynthetic scaffolds for efficient NADH oxidation - <i>Mahalakshmi Tangudu et al.</i>
47.	Optical and dielectric properties of Al _x Ni _{1-x} TiO _{3+δ} (x=0.2-0.8) nanoparticles - <i>K. Bharathi et al.</i>
48.	Onion peels–derived activated carbon as a sustainable electrode material for high-performance supercapacitor applications - <i>Dheeraj KS et al.</i>
49.	DFT and QTAIM Investigation of Hydrogen-Bonding Interactions in Quaternary Ammonium–Polyol Deep Eutectic Solvents - <i>Lokesh. H. K. et al.</i>
50.	Electrical conductivity and dielectric properties of saccharides coated Magnetite Nanoparticles. - <i>D. Sivakumar et al.</i>
51.	Sustainable ZPMA-modified red mud catalyst for multi-component synthesis of benzothiazole derivatives: Characterisation, solvatochromism, and Cu ²⁺ sensing - <i>Jeena Susan George et al.</i>
52.	Improving the Magnetic, Electrical and their Coupling through Nickel Substitution in Strontium Hexaferrite - <i>M. R. Sahoo et al.</i>
53.	Optical Properties of Few-Layer MoS ₂ on h-BN and SiO ₂ Substrates - <i>C V Sudeeptha et al.</i>
54.	An optical method of analyzing petrol–ethanol fuel blends - <i>G. Sri Haindavi et al.</i>

55.	Solution Combustion Synthesis of Tb-Doped ZnFe ₂ O ₄ /rGO Nanocomposite: Structural, Morphological, and Dielectric Characterization - <i>Harshitha Oli et al.</i>	
56.	Modified Power Law Fluid model for non-Newtonian Ternary nano fluid over a vertical Wavy surface to analyse the effects of MHD, Viscous Dissipation and natural convection on heat transfer - <i>K Madhu et al.</i>	
57.	Characterization of Banana Inflorescence Bract for Biodegradable Packaging Material: Insights from XRD, FTIR, DSC, and SEM Studies - <i>Megharaj Jayarajan et al.</i>	
58.	Phytogenic silver nanoparticles synthesized from dendrophthoe falcata and ocimum tenuiflorum: Applications in surface enhanced Raman spectroscopy - <i>Jhansi Mogilipuri et al.</i>	
59.	Statistical Investigation of Viscoelastic Hybrid Nanofluid Transport over a Stretching Sheet in a Porous Medium under Magnetic Influence - <i>M.M. Bindu et al.</i>	
60.	Phytochemical -assisted synthesis of gold nanoparticles for SERS applications - <i>Arete Madhuri et al.</i>	
61.	Optical, and dielectric properties of AlCuTiO ₃ nanoparticles - <i>D. Madhuri Devi et al.</i>	
62.	Effect of p ^H on optical, and dielectric properties of BaTiO ₃ nanoparticles - <i>Pillalamarri Anita Kumari et al.</i>	
63.	Experimental Investigation of a Jatropha B20–Butanol Ternary Blend in a Ceramic-Coated Low Heat Rejection Diesel Engine - <i>Nagesh Babu Vemula et al.</i>	
64.	Tuning of emission of SrCeO ₃ perovskite phosphors through Mn ⁴⁺ ions activation for plant growth LED applications - <i>Vijay kumar T G et al.</i>	
65.	Structural, morphological, optical and dielectric properties of copper ferrite graphene oxide nanoparticles - <i>Ramakrishna Rao Bhonsle et al.</i>	
66.	Influence of Dy doped BiFeO ₃ nanoparticles as enhanced gas sensor: An excellent acetone sensor - <i>Pandurang A. Ghadage et al.</i>	
67.	Lengths and sequences of nucleic acids significantly impact on conformational conversion of prion protein: Insights from molecular dynamic simulations - <i>Swagata Halder et al.</i>	
68.	Evaluation of dose dependent antioxidant activity of quercetin loaded chitosan nanoparticles with virgin coconut oil - <i>Naveen NC et al.</i>	