



*National Conference on
Advanced & Emerging Materials for Technological Applications
(AEMTA-2024)*

(March 15-16, 2024)

Sant Longowal Institute of Engineering and Technology
(Deemed University, Centrally Funded Technical Institute of Govt. of India)
Longowal, Distt. Sangrur-148106 (Punjab)

(www.aemta2024.in)

Organiser's email: aemta2024@slit.ac.in

(Updated list of accepted abstracts for presentation in AEMTA-2024 with other details)

IMPORTANT NOTES:

1. In future, all authors are requested to communicate to the organizers by quoting their **paper ID**.
2. Without payment of registration fee, authors will not be allowed to present their work in conference
3. Papers presented in conference will only be considered for publication in **SPRINGER AS A PROCEEDINGS BOOK VOLUME**
4. Authors are requested to register and deposit the registration fee online in the conference account before deadline.
5. The payment for the registration fee can be made via Net Banking to the account below:
Bank & Branch: Central Bank of India, Longowal,
A/C No.: 5474900039, IFSC code: CBIN0283105
6. Those who have not submitted their full manuscripts are required to submit by **29th Feb. 2024** positively.
7. The manuscripts to be submitted strictly in accordance with springer template format and is also given on
www.aemta2024.in
8. Authors are required to check **plagiarism (using turnitin software)** of their manuscript before submission. Maximum permissible similarity acceptable is 5-10 % only.
9. Students must submit the **proof of studentship** from their supervisor (s)/Head of Department
10. **Authors** who have not opted their mode of participation (**ONLINE/OFFLINE**) and type of presentation (**ORAL/POSTER**) so far are required to do so by writing to organisers on (aemta2024@sliet.ac.in) directly by quoting your **paper ID**.
11. After paying registration fee in conference bank account, you are required to intimate the organisers at (aemta2024@sliet.ac.in) with your paper ID, amount paid and payment reference number.

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

CONTENTS

Sl. No.	Paper ID	Author(s)	Affiliation	Title of Abstract	Status	Mode of Presentation	Amount of Reg. fee received	Ref. No.
1.	A-AM-01	A. Prasad, Naveen kumar, Maha Lakshmi P. Syam Prasad*	Department of Physics, National Institute of Technology, Warangal, Telangana State, 506004	Exploring the Influence of Phosphate Incorporation on Silica-Based Bioglass Spherical Particles for Enhanced Bone Tissue Regeneration by using Sol-Gel modified stober method	RESEARCH SCHOLAR	OFFLINE/ POSTER		
2.	A-AM-02	Tavneet Kaur, Amrit Pal Singh ^{2,3,*} , M. M. Sinha ¹	1Sant Longowal Institute of Engineering and Technology, Sangrur 148106, India 2Health Physics Unit, Nuclear Fuel Complex, Hyderabad 500062, India. 3Homi Bhabha National Institute, Anushaktinagar, Mumbai 400094, India.	Realization of Nodal-Line Semimetals in ferromagnetic Lanthanum Monohalides: LaX (X = Cl, Br)	RESEARCH SCHOLAR	ONLINE/ ORAL		
3.	A-AM-03	Ritesh Kumar ^{1*} , Diksha 1, Rajesh K. Singh ¹ , A. L. Sharma ²	1Department of Physics and astronomical sciences, Central University of Himachal Pradesh, Kangra, H.P, India 176215. 2Department of Physics, School of basic science, Central University of Punjab, Bathinda, 151401, India.	Synthesis and Electrochemical Performance of Microwave Assisted Reduced Graphene Oxide at different Concentration of KOH for Supercapacitors Applications	RESEARCH SCHOLAR	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

4.	A-AM-04	Madhu B.M.1*, Deepika J1, Sowmya K1	1Department of Electrical and Electronics Engineering, Siddaganga Institute of Technology, B.H. Road, Tumakuru, Karnataka, India;	Development and Characterization of Ethylene-vinyl acetate-Graphene Nanocomposites	FACULTY	ONLINE/ ORAL		
5.	A-AM-05	Keyur Khatsuriya*, Jaysukh Markna	*Gujarat Technological University, Ahmedabad, Gujarat-382424 Department of Nanoscience and Advance Materials, Saurashtra University, Rajkot, Gujarat-360005	Comparative Study of Refractive Index for Monodisperse and Bidispersed Magnetic Colloids	FACULTY	ONLINE/ ORAL		
6.	A-AM-06	Hemant Kumar* and Arun Giri	Department of Chemistry, Sant Longowal Institute of Engineering and Technology (SLIET), Longowal, Distt. Sangrur -148106 (Punjab) India	Degradation of cationic Methylene blue dye by Spinel ferrites nanoparticles for Environmental remediations	FACULTY	OFFLINE/ POSTER		
7.	A-AM-07	Dr. Pooja Rani, Kavita	Department of Physics, M.M. Modi College, Patiala	2-D Materials Changing the world	FACULTY	ONLINE/ ORAL	Rs. 1500	401853 889641 Dt. 18.01.2 024
8.	A-AM-08	Rajeev Singh 1*, Prashant Shrivastava2 and D. Kumar 3	Department of Chemistry, Institute of Technology & Management, Gwalior, MP 474001, India 2 Department of Chemical Engineering, Institute of Technology & Management, Gwalior, MP 474001, India	Synthesis, Characterization and DFT Studies of S-benzyl β -N-(4-NN bischloroaminophenylmethylene)dithiocarbamate	FACULTY	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

			3Centre of Research for Chemical Sciences, Government Model Science College, Jiwaji University, Gwalior 474009, India					
9.	A-AM-09	Monika Sharma a* Preeti Mehta, Harwinder Singh	Chandigarh Engineering College- CGC, Landran, Mohali, Punjab, India	Microwave and ultrasonic assisted synthesis of Biginelli reaction: A review	RESEARCH SCHOLAR	ONLINE/ ORAL		
10.	A-AM-10	Santosh Kumar1*, K. Singh1 and Devender Kumar2	1School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, INDIA 2Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, INDIA	Role of SiO ₂ on structural, optical and mechanical properties for automotive windscreen glasses	RESEARCH SCHOLAR	ONLINE/ ORAL		
11.	A-AM-11	Nikita Sharma, P.P. Sahay*	Department of Physics, Motilal Nehru National Institute of Technology Allahabad, Prayagraj-211004, India	Modification in the Microstructural and Photoluminescence Characteristics of Zn ₃ (VO ₄) ₂ Phosphors upon Cerium Doping	RESEARCH SCHOLAR	ONLINE/ ORAL		
12.	A-AM-12	Sadaf Fatma1 and Dr. Sunil Yadav2	*Research Scholar, University Department of Physics, V.K.S.U, Ara ,Bihar (India) 2 Assistant Professor, Department of Physics, Maharaja College, Ara, Bihar (India)	Analysis of electrical conductance of perovskites based oxides for applications in nano structured solar cells	RESEARCH SCHOLAR	ONLINE/ ORAL		
13.	A-AM-13	Shubhpreet Kaur1, Aryan Singh Lather2,*,	1Department of Physics, Sant Longowal Institute of Engineering and	Synergizing Materials: Composite Approach to Magneto-Dielectric Effect	RESEARCH SCHOLAR	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

		Mani Kant Paswan ³	Technology, Longowal, Sangrur, 148106, Punjab, India 2Department of Physics, Guru Jambheshwar University of Science & Technology, Hisar, 125001, Haryana, India 3Department of Mechanical Engineering, Sant Longowal Institute of Engineering and Technology, Longowal, Sangrur, 148106, Punjab, India	with Rare Earth-Doped BaTiO ₃ and Co-Based M-Type Hexaferrite				
14.	A-AM-14	Anupam ¹ , Shyam Lal Gupta ² , Sumit Kumar ³ , Sanay Panwar ¹ , Diwaker ^{4,*}	1School of Basic and Applied Sciences, Maharaja Agrasen University, Baddi, Solan, 174103, H P 2Department of Physics, HarishChandra Research Institute, Prayagraj, Allahabad, 211019, U P, 3Department of Physics, Government College, Una, 174303, H P 4Department of Chemistry, NSCBM Government College, Hamirpur, 177005, H P, 5Department of Physics, SCVB Government College, Palampur, Kangra, 176061, H P,	Effects of metals (X = Li, Na, Al) on structural, electronic, mechanical, thermoelectric and hydrogen storage properties of KXH ₃ perovskites	RESEARCH SCHOLAR	ONLINE/ ORAL		
15.	A-AM-15	Naresh Sharma ^{a*} , Indrajit Karmakar ^b , Goutam Brahmacharib	aAssociate Professor of Physics, Govt. Degree College Billawar, Kathua (J & K), India bLaboratory of Natural Products and Organic Synthesis, Department of Chemistry, Visva Bharati	X-ray crystallographic study of amino based dihydropyrano[2,3-c] pyrazole-5-carbonitrile compound	FACULTY	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

		and Vivek K. Guptac	University, Santiniketan, West Bengal, India cX-ray Crystallography Laboratory, Post-Graduate Department of Physics, University of Jammu, Jammu Tawi, 180 006 India					
16.	A-AM-16	Dr Saravanakumar Nessappan 1, Dr Nagarjun Jayakumar 2*, Mr Senthilvel Muthuvel 3, Mr Vinoth Ammasi 4, Ms Madhumitha K 5, Dr Yoganand Garimella 6, Dr John Rozario Jegaraj J 7, Dr Mastanaiah Potta 8	1,2,3,5 PSG Institute of Technology and Applied Research, Coimbatore 4 ESI group, Bengaluru 6,7,8 Defense Research and Development Organization, Hyderabad	Assessment of Elevated Temperature Tensile Properties for Stainless Steel 316	FACULTY	ONLINE/ ORAL		
17.	A-AM-17	Rahul Goel1*, Pankhuri Bansal1, Mukul Kumar1, Priyanka Sharma3, Sanjeev Kumar1, Rajat Syal2**	1 Department of Applied Sciences, Punjab Engineering College (Deemed to be University), Chandigarh - 160012, India 2 Department of Applied Sciences, Chandigarh Engineering College-CGC, Landran, Mohali, Punjab - 140307, India	Multiferroic behaviour in aliovalent atom doped Sodium Bismuth Titanate ceramic	RESEARCH SCHOLAR	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

			3 Department of Applied Sciences, College of Engineering, Chandigarh Group of Colleges, Landran, Mohali, Punjab - 140307, India					
18.	A-AM-18	Rajat Syal ^{1*} , Priyanka Sharma ² , Rahul Goel ³ , Pankhuri Bansal ³ , Meena Devi ¹ , Sanjeev Kumar ³	1Department of Applied Sciences, Chandigarh Engineering College- CGC, Landran, Mohali, Punjab - 140307, India 2Department of Applied Sciences, Chandigarh Group of Colleges, Landran, Mohali, Punjab - 140307, India 3Department of Applied Sciences, Punjab Engineering College (Deemed to be University), Chandigarh - 160012, India	Influence of La doping on structure, microstructure, dielectric and energy storage properties of lead- free Ba _{0.85} Ca _{0.15} Ti _{0.90} Zr _{0.10} O ₃ ceramics	FACULTY	ONLINE/ ORAL		
19.	A-AM-19	Asma Farheena *, Ishita Ghosh, M.K. Paswan	aNetaji Subhas University, Jamshedpur, Department of Physics, bNIT Jamshedpur, Mechanical Department	An Investigation on Microstructure and Physical Parameters of Nano- enhanced Polymer Composites with Fiber Reinforcements	RESEARCH SCHOLAR	ONLINE/ ORAL		
20.	A-AM-20	R. Sariyal	Department of RISE, Chandigarh Engineering College, Landran, Mohali, Punjab, 140307, India	Inorganic Scintillators in Nuclear Physics	FACULTY	ONLINE/ ORAL		
21.	A-AM-21	Manjeet Pawar ¹ , M. A. Majeed Khan ² , Sushil Kumar ^{1*} , Saruchi Rani ¹	1,Department of Physics, Chaudhary Devi Lal University, Sirsa, 125055, India 2King Abdullah Institute for Nanotechnology, King Saud	Synthesis and analysis of Ta-Co co-doped WO ₃ nanoparticles by hydrothermal route	RESEARCH SCHOLAR	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

			University, Riyadh, 11451, Saudi Arabia					
22.	A-AM-22	Bharti Mohan, Rachna Ahlawat	Mat. Sci. Lab., Department of Physics, Ch. Devi Lal University, Sirsa-125055 (Hr) India.	Perovskite Structured Tantalates: Comprehensive Exploration of Synthesis and its Tantalizing Features	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs.750	439519 872678
23.	A-AM-23	Priyanka Sharma ¹ , Rajat Syal ² , Vinod Kumar ³	1, 2 Department of Applied Sciences, Chandigarh group of colleges, Landran, Mohali, Punjab, India (140307). 3 Department of Physics, Chandigarh University, Gharuan, Mohali, Punjab, India (140413).	Comparative analysis of the performance in supercapacitors using various electrode materials	FACULTY	ONLINE/ ORAL		
24.	A-AM-24	Priyam Srivastava ¹ , Rani Rohini ² , Sasanka Dalapati ³	1, 2Department of Materials Engineering, Indian Institute of Technology Jammu; 3Department of Materials Science, Central University of Tamil Nadu	MXene-starch nanocomposite for flexible electronics applications	RESEARCH SCHOLAR	ONLINE/ POSTER		
25.	A-AM-25	Khalid khan and Jyoti rajput	Department of Physics, Lovely Professional University, G.T Road, Phagwara 144411	Terahertz Technology: Current Advances And Future Prospects	RESEARCH SCHOLAR	ONLINE/ ORAL		
26.	A-AM-26	S. N. Kane ^{1,*} , C. Parmar ¹ , R. Verma ¹ , S. S. Modak ¹ , V. R Reddy ²	1Magnetic Materials Laboratory, School of Physics, D. A. University, Indore-452001, India 2UGC-DAE Consortium for Scientific Research, University Campus, Khandwa Road, Indore-452001, India	Effect of thermal annealing temperature on structural, dielectric properties of Ni- nanoferrite	FACULTY	ONLINE/ ORAL		
27.	A-AM-27	Srijan ¹ , Kevin Somra^{1,*}, Pooja Kharra ¹	Shri Mata Vaishno Devi University, Katra, J&K, India – 182320	Sustainable Materials as a Column Filler: A Review	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs. 750	402994 374795

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

28.	A-AM-28	Z. R. Baraiya ^{1, 3, a),} P.K.Mule ^{2, 3, b),} Nitin M. Shah ^{1, 3*}	1Shri JSB & Shri KMB Arts, Shri ANS Science and Shri NFS Commerce College, Kholwad, Kamrej Char Rasta, Surat- 394185, Gujarat, India 2Sir P.T. Sarvajani College of Science, Athwalines, Surat-395001, Gujarat, India 3 Department of Physics, Veer Narmad South Gujarat University, Surat, Gujarat, India	Synthesis and Characterization of Tin Sulfide Nanoparticles by Hydrothermal Method	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs.750 for (Z. R. Baraiya Rs. 1500 for Nitin M. Shah	401439 900163 439619 971514
29.	A-AM-29	Prajakta Nikhil Kadama, b, *, Dattatraya V. Bhisec and Nikhil Rajendra Kadamd	a Research Scholar, School of Mechanical and Manufacturing Sciences, Faculty of Science and Technology, JSPM University, Wagholi, Pune 412207, Maharashtra bAssistant Professor, Department of Mechanical Engineering, JSPM's, BSIOTR, Wagholi, Pune 412207, Maharashtra c Associate Professor, School of Mechanical and Manufacturing Sciences, Faculty of Science and Technology, JSPM University, Wagholi, Pune 412207, Maharashtra, India. d Assistant Professor, School of Mechanical and Manufacturing Sciences, Faculty of Science and Technology, JSPM University, Wagholi, Pune 412207, Maharashtra, India.	Taguchi-Grey Relation Analysis for Optimization of Process Parameters of TBCs using Atmospheric Plasma Spray	RESEARCH SCHOLAR	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

30.	A-AM-30	Rohan Arya#, Brajesh Bhagat, Rushikesh pokar, Nayana Shekh and Alpa Dashora*	Physics Department, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara-390002, INDIA.	Investigation of Electronic, Optical and Transport Properties for Pnictogen (BaSnX ₂ ; X = N, P) Compounds: An ab Initio Study	RESEARCH SCHOLAR	ONLINE/ ORAL		
31.	A-AM-31	Jamadar Pallavi Gopichand, T.Sankarappa*, Amarkumar Malge, Ashwini Devidas, Mohansingh Heerasingh and Aravind Dyama	Department of Physics, Gulbarga University, Kalaburagi.	Composition Dependent Studies of Structure, Thermal and Gamma Attenuation Features of Phospho-tellurite glasses	RESEARCH SCHOLAR	ONLINE/ ORAL		
32.	A-AM-32	Saurabh Mishra , Vijay Choyal ² , Nitin Luhadiya ¹ , S.I. Kundalwal ¹	1 A.T.O.M. Laboratory, Department of Mechanical Engineering, Indian Institute of Technology Indore, Simrol, Indore - 453552, India 2 Department of Mechanical Engineering, National Institute of Technology, Warangal - 506004, Telangana, India	Unveiling Mechanical Properties of Single-Walled Carbon Nanotubes using Machine-Learned Interatomic Potentials	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs. 750	439602 915176
33.	A-AM-33	Arush Kattal ¹ , *, Srijan ¹ , Gautam Narula ¹	1 School of Civil Engineering, Shri Mata Vaishno Devi University, Katra, J&K, 182320	A Comprehensive Review on the Integration of Waste Materials for Sustainable Technological Advancement in Civil Engineering	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs. 750	402967 886111

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

34.	A-AM-34	Navya Jain	research scholar/sant longowal institute of engineering and technology	Investigating a new of deceleration parameter with FLRW metric	RESEARCH SCHOLAR	OFFLINE/ POSTER		
35.	A-AM-35	Anoop Singh1, Sandeep Arya2	1Department of Humanities and Sciences, Guru Nanak Institutions Technical Campus, Hyderabad-501506 1Department of Physics, University of Jammu, Jammu and Kashmir, 180006	Development of high-performance symmetric supercapacitor using nickel oxide incorporated graphene oxide	FACULTY	ONLINE/ ORAL		
36.	A-AM-36	Alen Solomon David 1 and T. Sonamani Singh2	Department of Physics National Institute of Technology, Tiruchirappalli, India, 620015	Low-cost Current Amplifier Design for Electromagnetic Coil System for Microswimmers Actuation – A Simulation Study	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs 750	REF:40 229826 3234
37.	A-AM-37	N.L. Heda1,*, Ushma Ahuja2, Lekhraj Meena3 and B.L. Ahuja3	1Department of Pure and Applied Physics, University of Kota, Kota-324005 (Rajasthan) India. 2Department of Electronics and Telecommunication Engineering, NMIMS, Mukesh Patel School of Technology Management and Engineering, Mumbai 400056, Maharashtra, India 3Department of Physics, M.L. Sukhadia University, Udaipur-313001 (Rajasthan) India.	Understanding the bonding features of nickel chalcogenides using Mulliken's population and Compton profiles	FACULTY	ONLINE/ ORAL		
38.	A-AM-38	Rahul Sharma	Research scholar, Sant Longowal Institute of Engineering and Technology	Investigating Accelerating universe in f(T) gravity	RESEARCH SCHOLAR	OFFLINE/ POSTER		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

39.	A-AM-39	Nancy Jangra*, Rachna Ahlawat	Mat. Sci. Lab., Department of Physics, Ch. Devi Lal University, Sirsa-125055 (Hr) India.	Insight into the Morphological Features of the Wollastonite (CaSiO ₃) Nanoceramics via Rietveld Refinement	RESEARCH SCHOLAR	ONLINE/ ORAL		
40.	A-AM-40	Shubhpreet Kaur	Guru Nanak Dev University	Advanced Materials and Configurations for Enhanced Photoelectrocatalytic Water Splitting: A Comprehensive Review	RESEARCH SCHOLAR	OFFLINE/ POSTER		
41.	A-AM-41	Sudhir kumar, Dilip kumar	Department of electronics and communication engineering, Sant longowal institute of engineering and technology, Longowal, Punjab-148106	Performance comparison of Cu and Al coated PCF-SPR sensors for liquid sensing applications	RESEARCH SCHOLAR	ONLINE/ ORAL		
42.	A-AM-42	Sumit Kumar ^{1,2} , Diwaker ³ , Vivek Kumar ¹ , Karan Singh Vinayak ² , Shyam Lal Gupta ^{4*}	1Department of Physics, Govt. College, Una, (H.P.) - 174303, India 2Department of Physics, DAV College Sec-10, Chandigarh - 160010, India 3Department of Physics, SCVB Govt. College, Palampur, Kangra, (H.P.) - 176061, India 4Department of Physics, HarishChandra Research Institute, Prayagraj, (U.P.) - 211019, India	Ab-initio investigations of novel potential all-d-metal Heusler Alloy Co ₂ MnNb	RESEARCH SCHOLAR	ONLINE/ ORAL		
43.	A-AM-43	Ram Krishna ^{1#} and Kamlesh Prasad ^{1*}	1Department of Food Engineering and Technology, Sant Longowal Institute of Engineering and Technology, Longowal 148106, Punjab, India.	Pressure dependent juice extraction behavior of Emblca officinalis and physico-chemical characteristics of pomace powder for high-end use	RESEARCH SCHOLAR	OFFLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

44.	A-AM-44	Priyabrata Kapri ¹ # and Kamlesh Prasad ¹ *	¹ Department of Food Engineering and Technology, Sant Longowal Institute of Engineering and Technology, Longowal 148106, Punjab, India	Deep learning as a non-destructive machine vision approach in the quality classification of ripening banana	RESEARCH SCHOLAR	OFFLINE/ ORAL	Rs.750	403007073400
45.	A-AM-45	H Bhoomeswara n ¹ , a) and P Sabareesan ²	¹ School of Physics and State Key Laboratory of Electronic Thin Films and Integrated Devices, University of Electronic Science and Technology of China, Chengdu – 610054, China., ² Centre for Nonlinear Science & Engineering, School of Electrical and Electronics Engineering, SASTRA University, Thanjavur, Tamil Nadu - 613401, India.	Dossier on the Development of the Spin Torque Nano Oscillator Device and a Deep Insight Thereof	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs. 750	403036642896
46.	A-AM-46	Richa Saini, Ankita R. Chauhan*	Department of Physics, Kanya Gurukul campus, Gurukul kangri (deemed to be University), Haridwar, India-135001	Effect of Group Velocity Modification on Thermal Behaviour in Quantum Dots	RESEARCH SCHOLAR	ONLINE/ ORAL		
47.	A-AM-47	Priya Dimri a, Himani Sharma b, Charu Dwivedi a*	a School of Physical Sciences, Department of Chemistry, Doon University, Dehradun b School of Physical Sciences, Department of Physics, Doon University, Dehradun	NIR shielding properties of sodium tungsten oxide nanorods for smart window applications	RESEARCH SCHOLAR	ONLINE/ ORAL		
48.	A-AM-48	Ankush Thakur ¹ , Rahul Sharma ² , Sunanda Sharda ³	¹ Department of Physics, Lovely Professional University, Phagwara, India*	Structural Influence of Al ³⁺ ions and synthesis technique: a review on structure, morphological	RESEARCH SCHOLAR	OFFLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

			2Department of Mechanical Engineering, Lovely Professional University, Phagwara, India 3Department of Physics, Faculty of Science, SGT University, Gurugram, Haryana,	and magnetic performance of strontium hexaferrite				
49.	A-AM-49	Preet Kaur*, Navneet Kaur*, Tejbir Singh	Physics Department, Sri Guru Granth Sahib World University, Fatehgarh Sahib, 140406	Advances in transition metal and rare earth co-doped glasses for lasing applications: a comprehensive review	RESEARCH SCHOLAR	OFFLINE/ ORAL		
50.	A-AM-50	Abhishek Kumar Sahu, Prof. S. N. Pandey	Department of Physics, Motilal Nehru National Institute of Technology Allahabad, Prayagraj-211004, India	The first report on Ba(OH) ₂ thin film for supercapacitor application	RESEARCH SCHOLAR	ONLINE/ ORAL		
51.	A-AM-51	Bhavnes, Manoj Kumar Gupta*	Department of Physics, Sant Longowal Institute of Engineering and Technology, Longowal 148106, Sangrur, Punjab, *Department of Physics, S.D College, Barnala 148101, Punjab, India	To Study the Effect of Magnetic Dipole on Atomic Parameters of Diamagnetic, Paramagnetic and Ferromagnetic Compounds at their K, L and M Shell Absorption Edge	RESEARCH SCHOLAR	OFFLINE/ ORAL		
52.	A-AM-52	K. Seema	Department of Physics, Wazir Ram Singh Govt. College Dehri, Kangra, H.P.	Vacancy Disorder in CoRuFeSi Heusler alloy	FACULTY	ONLINE/ ORAL		
53.	A-AM-53	Saurabh Kumar Jha, Adarsh Sharma, Rani Rohini	Indian institute of technology, Jammu	Development of Polymer Nanocomposites with tailored Optical Properties	RESEARCH SCHOLAR	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

54.	A-AM-54	Khushboo Warjurkar ¹ , Rajan ¹ , Vinay Sharma ^{*1}	1Department of Biosciences and Bioengineering, Indian Institute of Technology, Jammu, 181221, INDIA	Tradescantia pallida derived Cu doped Green Carbon Dots as Fe ³⁺ sensor	RESEARCH SCHOLAR	ONLINE/ ORAL		
55.	A-AM-55	Rishi Pal¹, Sneh Lata Goyal^{2,*}, Shashi Kala Gupta³ and Vivek Gupta ²	1Kalpana Chawla Government Polytechnic for Women, Ambala City, Haryana-134003, India 2Department of Physics, Guru Jambheshwar University of Science and Technology, Hisar, Haryana-125001, India 3Department of Chemistry, Shri Govind Singh Gurjar Government College, Nasirabad, Ajmer, Rajasthan-305601, India	Electrical properties of metal-oxide nanoparticles embedded polyaniline-based nanocomposites	FACULTY	ONLINE/ ORAL	Rs. 1500/- Rs. 1500/- Rs. 1500/-	439645 570400 403092 978280 403093 160628
56.	A-AM-56	Maan Singh¹ and Rajeev Kumar ^{*1}	1 Punjab Agricultural University, Ludhiana-141004, India	Polymer Nanocomposites For Energy Storage: A Review	RESEARCH SCHOLAR	OFFLINE/ POSTER	Rs.750	402810 326431
57.	A-AM-57	Priya Dhuriaa and Satnam S. Bhamrab	a Research Scholar, b Assistant Professor a,b Department of Physics, Maharaja Ranjit Singh Punjab Technical University, Bathinda (India)	The structural and Thermal properties of Mg and Ni-doped Yttrium Orthoferrite	RESEARCH SCHOLAR	ONLINE/ ORAL		
58.	A-AM-58	Amarjot Kaur ^{1*}	Department of Applied Sciences, Guru Nanak Dev Engineering College, Ludhiana, 141004, Punjab, India	Impact of Ageing on Structural and Optical Properties of Zinc oxide (ZnO) Nanoparticles for Application in Solar Cells	FACULTY	OFFLINE/ ORAL		
59.	A-AM-59	Preeti Rani ^{1, *} , Kulveer Kaur ¹	1Department of Physics, Punjabi University, Patiala-147 002, India	Finite-T Static Charge Density Susceptibility of	FACULTY	OFFLINE/ POSTER		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

		and Vinayak Garg1		Coupled e-h and e-e Quantum Wire Systems				
60.	A-AM-60	Garima1*, Saroj Dhaka2 and B. L. Choudhary1	1Department of Physics, Banasthali Vidyapith, Banasthali, Rajasthan-304022, India. 2Department of Chemistry, Banasthali Vidyapith, Banasthali, Rajasthan-304022, India.	Exploring Modulation of Structural Properties in Nano-Crystalline NiFe ₂ O ₄ through Copper Doping	RESEARCH SCHOLAR	ONLINE/ ORAL		
61.	A-AM-61	Priyanka Maurya1*, S.N. Pandey1	1 Department of Physics, Motilal Nehru National Institute of Technology Allahabad, Prayagraj-211004, India	Electrochemical performance of AlOOH/Mo(OH) ₄ nanocomposite electrode for energy storage application	RESEARCH SCHOLAR	ONLINE/ ORAL		
62.	A-AM-62	Anima Ghosh	Department of Physics, School of Sciences and Humanities, SR University, Warangal-506371	First-principle investigations of the chalcogenide Cu ₂ SrSnS ₄ for photovoltaic applications	FACULTY	ONLINE/ ORAL		
63.	A-AM-63	Gaurav Dhandhi1 , Pankaj Sharma2, and Ambika Devi 1*	1 Amity School of Applied Sciences, Amity University, Gurugram 122413, Haryana, India 2 Applied Science Department, National Institute of Technical Teachers Training and Research, Sector 26, Chandigarh 160019, India	Synthesis and characterization of Aluminum doped Nickel Iron oxide nanoparticles for Photocatalytic applications	FACULTY	OFFLINE/ POSTER		
64.	A-AM-64	Monika 1 , Vidya Nand Singh2, and Ambika Devi 1*	1 Amity School of Applied Sciences, Amity University, Gurugram 122413, Haryana, India 2 CSIR-National Physical Laboratory, Dr. K. S. Krishnan Marg, New Delhi 110012,	Study of structural and thermal properties of bulk Te _{100-x} Sn _x chalcogenide alloys	FACULTY	OFFLINE/ POSTER	Rs.750	403117 348856

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

65.	A-AM-65	Neha Lalotra ^{1,*} , Kamni ^{1,*}	1 School of Physics, Shri Mata Vaishno Devi University, Katra-182320 (J&K), India	Structural and Photometric properties of Dy ³⁺ doped LiMgPO ₄ for lighting applications	RESEARCH SCHOLAR	ONLINE/ ORAL		
66.	A-AM-66	Meniak Khajuria, ¹ Sajad Ahmad Bhat, ¹ Pankaj Biswas ¹	1 School of Physics, Shri Mata Vaishno Devi University, Katra-182320 (J&K), India	Synthesis and Spectral Studies of K ₂ SrVO ₄ :Er ³⁺ Synthesized by Low-cost Combustion Method	RESEARCH SCHOLAR	ONLINE/ ORAL		
67.	A-AM-67	Ashish Gupta* and Ashavani Kumar [#]	Department of Physics, National Institute of Technology Kurukshetra, 136119, Haryana, India.	Sisal fiber derived KOH-activated carbon for supercapacitor application	RESEARCH SCHOLAR	OFFLINE/ ORAL		
68.	A-AM-68	Mahesh ¹ , Vijay Choyal ² , Nitin Luhadiya ¹ , S. I. Kundalwal ¹	1 A.T.O.M. Laboratory, Department of Mechanical Engineering, Indian Institute of Technology Indore, Simrol, Indore, 453552, India 2 Department of Mechanical Engineering, National Institute of Technology, Warangal, 506004, Telangana, India	Mechanical Properties of Boron Nitride Nanosheets Using Machine Learned Interatomic Potential	RESEARCH SCHOLAR	ONLINE/ ORAL		
69.	A-AM-69	Shivani Dangwal ¹ , Saurabh Rawat ¹ , Charu Dwivedi ² , Himani Sharma ^{1*}	1 Functional Nanomaterial Laboratory, Department of Physics, Doon University, Dehradun, Uttarakhand, India 248001 2 Department of Chemistry, Doon University, Dehradun, Uttarakhand, India 248001	Investigation of hydrogen evolution reaction using WS ₂ /TiO ₂ heterostructure	RESEARCH SCHOLAR	ONLINE/ ORAL		
70.	A-AM-70	Poonama, M. A. Majeed Khan ^b , Sushil Kumara [*] , Saruchi Rania	a Department of Physics, Chaudhary Devi Lal University, Sirsa, 125055, India b King Abdullah Institute for Nanotechnology, King Saud	Structural and optical investigations of Ho-Yb doped TiO ₂	RESEARCH SCHOLAR	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

			University, Riyadh, 11451, Saudi Arabia					
71.	A-AM-71	Sajad Ahmad Bhat1*, Meniak Khajuria1, Rohit Raina1, Pankaj Biswas1	1School of Physics, Shri Mata Vaishno Devi University, Katra J&K	spectral study and judd-ofelt analysis of dysprosium (iii) doped ksrvo4 nanophosphor	RESEARCH SCHOLAR	ONLINE/ ORAL		
72.	A-AM-72	Md Tanwir Alam, Devendra Prasad Singh	University Department Of Physics Bhupendra Narayan Mandal University, Madhepura, Bihar, India	Electronic structure of magnetic Weyl semimetal Co3Sn2S2	RESEARCH SCHOLAR	OFFLINE/ POSTER		
73.	A-AM-73	Nisha Malik1, Kalpana Chhoker1, Divya Gupta1 and Sanjeev Aggarwal1*	1 Ion Beam Centre, Department of Physics, Kurukshetra University, Kurukshetra-136119, India.	Annealing induced surface morphological evolution and its effect on optical properties of RF sputtered Aluminium oxide thin films	RESEARCH SCHOLAR	OFFLINE/ POSTER		
74.	A-AM-74	Sourav Ranjan Satpathy ,1,* Kshitish Kumar Jena1 and Sunipa Bhattacharyya1	1 Department of Ceramic Engineering, National Institute of Technology, Rourkela Odisha 769008, India	Utilization of fly ash for synthesis of alkali activated mortar	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs. 750	403025788372
75.	A-AM-75	Neelam Rani1*, Indu Yadav2, Deepika3, Rachna Ahlawat1	1Department of Physics, Ch. Devi Lal University, Sirsa-125055 (Hr), India 2Jan Nayak Chaudhary Devi Lal Memorial College, Sirsa-125055 (Hr), India 3Department of Chemistry, Ch. Devi Lal University, Sirsa-125055 (Hr), India	Size-dependent structural and electrical highlights of Co2O3-SiO2 nanocomposites processed via sol-gel route	FACULTY	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

76.	A-AM-76	Bindiya Goswami ^{1*} and Rachna Ahlawat ² ,	1, 2Material Science Lab, Department of Physics, Chaudhary Devi Lal University, Sirsa (125055)	Pure and Mn-doped MgAl ₂ O ₄ Spinel: Microstructure and Photophysical Exploration	RESEARCH SCHOLAR	ONLINE/ ORAL		
77.	A-AM-77	Nikhil Kumar ^{1*} , M.M. Sinha ⁻¹ , S. S Verma and S.K. Singh ²	1 Department of Physics, Sant Longowal Institute of Engineering and Technology, Longowal - 148106, Punjab, India 2 Goswami Ganesh Dutta Innovation Hub, Department of Physics, S. D. College Barnala - 148101, Punjab, India	First-principles Study of Structural and Electronic Properties of GdMg & SmMg Alloys Under High Pressure	RESEARCH SCHOLAR	OFFLINE/ ORAL		
78.	A-AM-78	Mr. Manav Sharma ¹ and Dr. Kamni ^{2*}	1School of Physics, Shri Mata vaishno Devi University, Katra-182320, J&k, India 2Assistant Professor, School of Physics, Shri Mata vaishno Devi University, Katra-182320, J&k, India	Supercapacitor application of Dy ³⁺ doped Cobalt ferrite synthesized via Combustion method.	RESEARCH SCHOLAR	ONLINE/ ORAL		
79.	A-AM-79	Aarti Kumari ¹ , Dollika Vashishth ¹ and Richa Srivastava ^{1*}	1Department of Applied Chemistry, Delhi Technological University (DTU), Shahbad Daultpur, Main Bawana Road, Delhi-110042, India	From waste to fuel: Challenging aspects in sustainable biodiesel production	RESEARCH SCHOLAR	ONLINE/ ORAL		
80.	A-AM-80	Nirbhay Kumar ¹ , Ashwani Kumar ¹	1Department of Food Engineering and Technology Sant Longowal Institute of Engineering and Technology, Longowal – 148106, Punjab, India	Development and Characterization of Oleogels based on Mustard Oil and Different waxes	RESEARCH SCHOLAR	OFFLINE/ ORAL		
81.	A-AM-81	Charita Mehta	Khalsa College for Women, Civil Lines, Ludhiana.	Modification of the structural optical and electrical properties of	FACULTY	ONLINE/ ORAL	Rs. 1500	403008 021078

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

				nanocrystalline CdSe thin films by the complexing agent				
82.	A-AM-82	Rashmi Kakkara,b, Dilraj Preet Kaur*a, Seema Raj	a School of Basic and Applied Sciences, K.R. Mangalam University, Gurugram, India-122103, bDepartment of Physics, Govt. College for Girls, Sector-14, Gurugram, India-122001	Sustainable Solutions: Polymers at the Crossroads of Water Desalination and Food Packaging	RESEARCH SCHOLAR	ONLINE/ ORAL		
83.	A-AM-83	Rajan1, Khushboo warjurkar1 and Vinay sharma1*	Department of Biosciences and Bioengineering, Indian Institute of Technology Jammu	Development of Red-Emitting Carbon Dots: A Dual-Mode Platform for Mercury and Copper Sensing	RESEARCH SCHOLAR	OFFLINE/ POSTER		
84.	A-AM-84	Sunanda Sharda , Raj Bahadur Singh2, Ankush Thakur3, Monika1, Neha Kumari1	1 Department of Physics, Faculty of Science, SGT University, Gurugram, Haryana, 122505, India 2 Department of Materials Science and Engineering, National Institute of Technology, Hamirpur, H.P., 177005, India 3 Department of Physics, School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara 144411, India	Structural and optical properties of ZnO nanoparticles: annealing and synthesis route effect	FACULTY	ONLINE/ ORAL	Rs 1500/-	DAX45 94116 29-1-24
85.	A-AM-85	Parul Sharma1* and Kamni1	1. School of Physics, Shri Mata Vaishno Devi University, Katra and India	Synthesis, Structural and Spectral Studies of Mn ²⁺ -doped LiSrVO ₄	RESEARCH SCHOLAR	OFFLINE/ ORAL		
86.	A-AM-86	Devanarayanan VK2, Deepa	1Mar Athanasius College (Autonomous), Kothamangalam,	Microstructural and Optical Characterization of Tin	RESEARCH SCHOLAR	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

		S1*, Arshad Salim2	Ernakulam District, Kerala, India, 686666 2 Indira Gandhi College of Arts and Science, Nellikkuzhi P.O, Kothamangalam, Ernakulam District, Kerala, India, 686666	Doped Zinc Oxide Thin Films				
87.	A-AM-87	Pallavi Jamwal1, Dr. Kamni 2*	1 Research Scholar, School of Physics, Shri Mata Vaishno Devi University 2* Assistant Professor, School of Physics, Shri Mata Vaishno Devi University, Katra-182320, J&K, India.	Dy3+ doped white light emitting vanadate phosphor synthesized using combustion route	RESEARCH SCHOLAR	ONLINE/ ORAL		
88.	A-AM-88	Dharmesh H Kothari 1, D K Kanchan 2	1 The M. S University of Baroda, Vadodara 390002, 2 ITM (SLS) Baroda University, Vadodara, 391510, Gujarat, India	Raman and XRD investigation of Li4Ti5-xMxO12 (M = Ga, Sc, V and x = 0.05, 0.1) as Anode for Lithium Ion Batteries	RESEARCH SCHOLAR	OFFLINE/ ORAL		
89.	A-AM-89	Trupti Tanaya Mishra1, Mohua Chakraborty1, Chintakamalesh Parashar2, Partho S G Pattader2, Dipankar Bandyopadhyay 2, Dhrubojyoti Roy1	1 Department of Physics, C.V. Raman Global University, Bhubaneswar, Odisha, India 2 Department of Chemical Engineering, Indian Institute of Technology, Guwahati, Assam, India	Role of molar ratio and nanostructure morphology of Co-Mn-Mo based electrodes for Supercapacitor Application	RESEARCH SCHOLAR	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

90.	A-AM-90	Aftab Shekh, Rohan Kagra, Mohd Almas Husain, Kamlesh Kumari	Department of Chemical Engineering Sant Longowal Institute of Engineering and Technology, Longowal- 148106, Distt. Sangrur (Pb.), India.	Removal of dyes from wastewater using activated biochar	RESEARCH SCHOLAR	OFFLINE/ POSTER		
91.	A-AM-91 (ECE)	Kumar Gaurav Suman1, Dr. Dilip Kumar2	1. Research scholar, ECE Department, Sant Longowal Institute of Engineering and Technology, Longowal, Punjab-148106. 2. Professor, ECE Department, Sant Longowal Institute of Engineering and Technology, Longowal, Punjab- 148106.	Recent Advancement in Wireless Communication in Precision Agriculture	RESEARCH SCHOLAR	ONLINE/ ORAL		
92.	A-AM-92	Tamanna Sharma* 1 , Gurkirat Kaur 2 , Arashdeep Singh 3	*1Research Scholar, Department of Food Science and Technology, Punjab Agricultural University, Ludhiana, Punjab 141004, India 2Assistant Professor, Electron Microscopy and Nanoscience Lab, Punjab Agricultural University, Ludhiana, Punjab 141004, India 3Assistant Professor, Department of Food Science and Technology, Punjab Agricultural University, Ludhiana, Punjab 141004, India	An Emerging Sustainable Packaging Solution for Fresh Lychee: Chitosan and Starch Nanocrystals Reinforced Gluten Based Bionanocomposite Films	RESEARCH SCHOLAR	ONLINE/ POSTER		
93.	A-AM-93	Abhishek Panwar,	Department of Material Engineering, Indian Institute of Technology, Jammu, India, 181221	Interpretation of physiochemical, thermal, and structural properties of cellulose nanocrystals and its use as a template for the	RESEARCH SCHOLAR	ONLINE/ POSTER		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

				growth of copper oxide nanoparticles.				
94.	A-AM-94	Shivam Tyagi 1*, Srishti Agarwal 1, Dhirendra Sahoo 2, Bhaskar Kaviraj 1*	1 Department of Physics, School of Natural Sciences, Shiv Nadar University, Goutam Budha Nagar, UP-201314, India. 2 KTH Royal Institute of Technology, Stockholm, Sweden.	Cost-Effective Green Synthesis of WS ₂ Nanosheets for Effective Wastewater Treatment	RESEARCH SCHOLAR	ONLINE/ POSTER		
95.	A-AM-95	Srishti Agarwal 1*, Shivam Tyagi 1, Dhirendra Sahoo 2, Bhaskar Kaviraj 1*	1 Department of physics, School of Natural Sciences, Shiv Nadar Institution of Eminence, Gautama Buddha Nagar, UP-201314, India. 2 KTH Royal Institute of Technology, Stockholm, Sweden.	Exploring the influence of solvents on the wettability characteristics of as-synthesized few-layer Molybdenum diselenide (MoSe ₂)	RESEARCH SCHOLAR	ONLINE/ POSTER		
96.	A-AM-96	Dr. Shyamal Kumar Das	Department of Physics, Tezpur University, Assam-784028, India	Nanostructured 2D vanadyl phosphate for rechargeable aluminum-ion battery	FACULTY	ONLINE/ ORAL		
97.	A-AM-97	<u>Musfica Sultana</u> , Md. Ahmaruzzaman	Department of Chemistry, National Institute of Technology Silchar - 788010, Assam, India	Novel green synthesis of Cu-Co nanoparticles embedded on the rice husk biochar for photocatalytic removal of cationic and anionic dyes	RESEARCH SCHOLAR	ONLINE/ ORAL		
98.	A-AM-98	Surinder Singh1, Swarnpreet Kaur2, M.M. Sinha2, Olfa	1 Department of Physics, Sant Longowal Institute of Engg. & Tech., Longowal, Sangrur	Design of Microstrip line Based Sensor implemented over Defective Ground plane for Estimation of	FACULTY	OFFLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

		Kanoun ³ , Anurag Adiraju ³ and Amina Brahem ³	2 Department of Physics, Sant Longowal Institute of Engg. & Tech., Longowal, Sangrur 3 Chemnitz University of Technology (Technische Universität Chemnitz), Chemnitz, Germa	Relative Permittivity of Dielectric Material				
99.	A-AM-99	Kailash* and S S Verma	Department of Physics, Sant Longowal Institute of Engineering & Technology, Longowal-148106, District Sangrur, Punjab (India)	Tuning Plasmonic resonance: Nanoheating in magneto-plasmonic alloy nanocomposites	RESEARCH SCHOLAR	OFFLINE/ POSTER		
100.	A-AM-100	Rahul Das ^{1#} and Kamlesh Prasad ^{1*}	¹ Department of Food Engineering and Technology, Sant Longowal Institute of Engineering & Technology, Longowal, Punjab, India	Shrinkage kinetics of dehydrating materials using Arbitrary Lagrangian- Eulerian (ALE) approach in Finite element modelling	RESEARCH SCHOLAR	OFFLINE/ POSTER	Rs. 750	402960 307242
101.	A-AM-101 (ECE)	Anchal	Department of Electronics and Communication Engineering Sant Longowal Institute of Engineering & Technology, Longowal, Punjab, India	Design and Implementation of a Self-Sustaining Greenhouse Using IoT Technology	RESEARCH SCHOLAR	ONLINE/ ORAL		
102.	A-AM-102	Sudesh Sharma, Pradeep Bhatia	Department of Physics, School of Basic and Applied Sciences, IEC University, Solan-174103, Himachal Pradesh, India	Temperature Profile of Ga- Au Core-shell Nanoparticles for Thermoplasmonic Potential Applications	RESEARCH SCHOLAR	ONLINE/ ORAL		
103.	A-AM-103	Pankaj Kumar Kushwaha, Sunil Kumar Srivastava*	Department of Physics, Mahatma Gandhi Central University, Motihari, Bihar-845401, India	DFT Study of Optoelectronic Properties of Indandione Based Donor- Acceptor Materials for Photovoltaic Applications	RESEARCH SCHOLAR	OFFLINE/ POSTER		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

104.	A-AM-104	Pooja Saini, Pradeep Bhatia*	Department of Physics, School of Basic and Applied Sciences, IEC University, Solan-174103, Himachal Pradesh, India	Size-dependent Temperature Profile of Au-Fe ₂ O ₃ Core-shell Nanoparticles	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs 750	402615 941549
105.	A-AM-105	Archana Bhatt¹ and Ashutosh Mishra ¹	¹ School of Physics, Devi Ahilya University, Indore India	Sm-Modified CaTiO ₃ : Structural and Optical Studies	RESEARCH SCHOLAR	ONLINE/ POSTER	Rs. 750	402987 441322
106.	A-AM-106	Abhinav sharma	Inder kumar gujral punjab technical university, kapurthala	Study of Effect of Rice Husk Ash, Copper, and Magnesium Particulates Contents on Material Characterization and Mechanical Properties of Aluminium Composites for Structural Applications	RESEARCH SCHOLAR	ONLINE/ ORAL		
107.	A-AM-107	Jagdeep Singh ¹ [0000-0002-4719-7133] and A.S. Dhalwial ² [0000-0001-5257-2615]	¹ & ² Department of Physics, Sant Longowal Institute of Engineering and Technology, Longowal 148106, Punjab, India	The Synergistic impact of MWCNTs on microstructural, morphological, dielectric and optoelectronic properties of Polyaniline films	FACULTY	OFFLINE/ ORAL		
108.	A-AM-108	Mahendra Singh, Himanshu Rani* and Harish Kumar Chopra	Department of Chemistry, Sant Longowal Institute of Engineering and Technology, Longowal-148106, District-Sangrur, Punjab (India)	Extraction, optimization and purification of inulin from chicory roots (chicorium intybus L.) Using by ultrasound assisted extraction	RESEARCH SCHOLAR	OFFLINE/ POSTER		
109.	A-AM-109	Dr Praveena R ¹ , Dr Anbazhakan	Department of Chemistry, Bannari Amman Institute of Technology	Myrrh-Inspired Biopolymer Electrolyte: A Sustainable	RESEARCH SCHOLAR	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

		K2, Dr Deepa V 3, Viswanathan M4, Dhinagarraj P5	Sathyamangalam, Erode (Tamil Nadu)- 638 401	Approach using Lithium Bromide				
110.	A-AM-110	G. C. Vandile1* , D. V. Nandanwar1, A. K. Nandanwar2, S. V. Moharil3	1Shri M. M. College of Science, Nagpur-440009 2J. M. Patel Arts, Commerce & Science College, Bhandara-441904 3P.G.T. Department of Physics, RTMNU, Nagpure-440033	A Review on Luminescence Synthesis and Properties of Garnet Phosphors with Various Lanthanide Dopants	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs.750	ID- T24013 021331 032670 11405
111.	A-AM-111	Sujata Rout1 , L. Biswal1	1Dept. of Physics, School of Applied Sciences, KIIT Deemed to be University, Bhubaneswar-751024, Odisha, India	Structural, dielectric and transport properties study of the Alkali based complex perovskite compound	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs.750	403046 891328
112.	A-AM-112	Lipsa Priyadarshini1 , L. Biswal1	1Dept. of Physics, School of Applied Sciences, KIIT Deemed to be University, Bhubaneswar-751024, Odisha, India	structural and impedance study of a rare earth based complex perovskite material	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs.750	403011 658117
113.	A-AM-113	Karubaki Moharana , L. Biswal	Dept. of Physics, School of Applied Sciences, KIIT Deemed to be University, Bhubaneswar-751024, Odisha, India	Structural, optical and dielectric study of Na-based complex double perovskite oxides	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs.750	T24013 022294 750953 50785
114.	A-AM-114 (ECE)	Alka Singla	Alka Singla SLIET Longowal	Enhanced Microwave Hyperthermia Treatment of Superficial Tumors using Graphene based Non- Invasive Patch Applicator Designs for Effective Thermal Focusing	FACULTY	OFFLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

115.	A-AM-115	Palvinder Kaur ¹ and Balwinder Sooch ²	1Department of Physics, Multani Mal Modi College, Patiala, 147002, Punjab 2Department of Biotechnology, Punjabi University, Patiala, Punjab	Semiconductor nanoparticles: a basis for next generation coating systems	FACULTY	ONLINE/ ORAL		
116.	A-AM-116	Rashmi *, Madhu B.M., Sheshashayan S., Pramath Srivatsa, Ranjtha H., Deepika L.	Department of Electrical & Electronics Engineering, Siddaganga Institute of Technology, Tumkur	Study of Nanocomposites for Food Packaging Applications: An Overview	FACULTY	ONLINE/ ORAL		
117.	A-AM-117	Shubham Saini , Santanu Ghosh, Pankaj Srivastava	Nanotech Laboratory, Indian Institute of Technology Delhi, Hauz Khas, New Delhi - 110016, India	Highly improved field emission characteristics of Si ₃ N ₄ coated Carbon Nanotubes	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs.750	403046 163189
118.	A-AM-118 (ECE)	Nisha Sharma ¹ , Surinder Singh ¹ , Lovkesh ² , Vishal Sharma ¹	1Sant Longowal Institute of Engineering and Technology, Longowal, Sangrur, Punjab 2Punjabi University, Patiala, Punjab	expansion and phase correlation of electro-optic modulator based optical frequency comb	RESEARCH SCHOLAR	OFFLINE/ ORAL		
119.	A-AM-119	Gurjit Kaur ¹ , Kirandeep Sandhu ^{2*} , and Manoj K. Sharma	1,3 Department of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala- 147004, India. 2 P.G Department of Physics, GSSDGS Khalsa College, Patiala- 147001, India.	Review on theoretical development of superheavy nuclei using dynamical cluster decay and ℓ -summed Wong model	FACULTY	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

120.	A-AM-120	Vangari Rohit Ramesh1 and T. Sonamani Singh2	Department of Physics National Institute of Technology, Tiruchirappalli, India, 620015	Cost-effective Setup for Fabrication of Bioinspired Helical Magnetic Microswimmers	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs.750	403128 657038
121.	A-AM-121	Rajbir Kaur1,2 and Ashish Arora1	1 Department of Mathematical Sciences, IKG Punjab Technical University, Kapurthala-144 603, Punjab, India. 2 Department of Applied Sciences, Guru Nanak Dev Engineering College, Ludhiana-141006, Punjab, India	Love wave at the interface between porous layer and elastic half-space with triangular irregularity	RESEARCH SCHOLAR	ONLINE/ ORAL		
122.	A-AM-122	Sanjay Kumar Singh1*, Toshar Garg1, Shweta1, Deepmala1, Nikhil Kumar2 M. M. Sinha2 & Kaushal Agheda3	1Department of Physics, Goswami Ganesh Dutt Innovation Hub, S. D. College, Barnala-148101, Punjab, India 2Department of Physics, Sant Longowal Institute of Engineering and Technology, Longowal - 148106, Punjab, India 3Department of Applied Physics, Faculty of Technology & Engineering, The Maharaja Sayajirao University of Baroda, Vadodara, India.	Ab-initio Study of Structural and Thermodynamic Properties of Rare Earth Metal alloy YbMg: Using DFT	FACULTY	OFFLINE/ ORAL		
123.	A-AM-123	Ishu Sharma and Sumaya Khan	Amity University Dubai, UAE	Envision Bionic Life in the Digitized World using Cyborg Technology	FACULTY	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

124.	A-AM-124 (ECE)	Pratima Malhotra ¹ and Surinder Singh ¹	1 Sant Longowal Institute of Engineering & Technology, Longowal, 148106, Punjab, India	Design of Highly sensitive SPR based Photonic sensor for chemical detection in the near to the middle infrared spectrum	RESEARCH SCHOLAR	OFFLINE/ POSTER		
125.	A-AM-125	Ansari Mohd Farhan Mohd Saleem	Department of Materials and Metallurgical Engineering, MANIT, Bhopal, M.P	In-situ development of high entropy alloy coating on stainless steel by TIG arcing	RESEARCH SCHOLAR	ONLINE/ ORAL		
126.	A-AM-126	Sonik Bhatia ¹ , Gagandeep kaur ¹ , Rohit Mehra ²	1 P.G Department of Physics, Kanya Maha Vidyalaya Jalandhar-144004 2 PG department of Physics, N.I.T Jalandhar	Sol Gel Prepared Er. Doped ZnO based Nanoparticles for Efficient Photodegradation of Methylene blue dye by U.V Radiations	FACULTY	OFFLINE/ POSTER		
127.	A-AM-127	Chennaram ¹ and T. Sonamani Singh ²	Department of Physics National Institute of Technology, Tiruchirappalli, India, 620015	Cargo Towing by Microswimmer Near Wall under Low Reynolds Number Condition	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs.750	403157 171987
128.	A-AM-128	Chandresh Kumari ¹ , Ishu Sharma ^{*2}	1 Greater Noida Institute of Technology, 6B, Knowledge Park-II, Greater Noida (U.P.) 201310 2 Department of Engineering, Architecture and Interior Design, Amity University, Dubai, Dubai Campus, UAE	Er Doped GeSbSeEr Chalcogenide for Efficient Photodegradation of Crystal Violet Dye from Aqueous Solution Using UV Light	FACULTY	ONLINE/ POSTER		
129.	A-AM-129	Rati Kanta Bera ¹ , Minati Baral ² , and B. K. Kanungo ³	1 Department of Chemistry, ACC Wing, Indian Military Academy, Dehradun-248007, Uttarakhand, India	Fabrication of PVC membrane based ion selective electrodes for the	FACULTY	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

			2Department of Chemistry, National Institute of Technology, Kurukh-136119, Haryana, India. 3Department of Chemistry, Sant Longowal Institute of Engineering & Technology, Longowal-148106, Punjab, India.	identification and measure of Cu(II)				
130.	A-AM-130	Trupti Tanaya Mishra ¹ , Mohua Chakraborty ¹ , Chintak Kamalesh Parashar ² , Partho S G Pattader ² , Dipankar Bandyopadhyay ² , Dhrubojoyoti Roy ¹	1 Department of Physics, C.V. Raman Global University, Bhubaneswar, Odisha, 2 Department of Chemical Engineering, Indian Institute of Technology, Guwahati, Assam, India	Role of molar ratio and nanostructure morphology of Co-Mn-Mo based electrodes for Supercapacitor Application	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs.750	403136068517
131.	A-AM-131	1Parul Kumar and 2Sushma Jain	1 *P.G. Department of Chemistry, Government National College, Sirsa, Haryana 2 Professor, P.G. Department of Chemistry, Government Dungar College, Bikaner, Rajasthan	artificial neural network for water quality prediction and evaluation: a case study of sirsa, haryana, india	FACULTY	OFFLINE/ ORAL		
132.	A-AM-132	Gagandeep kaur ¹ , Sonik Bhatia ¹ , Rohit Mehra ²	1P.G Department of Physics , Kanya Maha Vidyalaya Jalandhar-144004 2 PG department of Physics, N.I.T Jalandhar	Synthesis and analysis of Electrical, optical and pH of Undoped and Gd doped ZnO Nanoparticles	RESEARCH SCHOLAR	OFFLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

133.	A-AM-133	Uday Kumara, b, Parasuraman Swaminathanb, and Hitensinh Vaghela	aALTER-India, Institute for Plasma Research, Ahmedabad, India bElectronic Materials and Thin Films Lab, Department of Metallurgical and Materials Engineering, Indian Institute of Technology Madras, Chennai, India	Investigation of the emittance properties of multilayer insulation used in cryogenic applications	RESEARCH SCHOLAR	OFFLINE/ ORAL		
134.	A-AM-134	1Joshua Gnana Sekaran J, *2Girimurugan R, 3Mary Jenila R, 4Bharani Prakash T, 5Kanagaselvam R, 6Muthuraj M	1Professor, Department of Mechanical Engineering, CSI College of Engineering, Ooty 643 215, Tamilnadu, India 2Assistant Professor, Department of Mechanical Engineering, Nandha College of Technology, Perundurai 638 052, Tamilnadu, India 3Assistant Professor, Department of Physics, St. Xavier's College, Tirunelveli 627 007, Tamilnadu, India 4Assistant Professor, Department of Electrical and Electronics Engineering, Sri Krishna College of Technology, Coimbatore 641 042, Tamilnadu, India 5Professor, Department of English, Nandha College of Technology, Perundurai 638 052, Tamilnadu, India 6Assistant Professor, Department of Mechanical Engineering, Vidyaa Vikas College of Engineering and Technology, Tiruchengode 637 214, Tamilnadu, India	Investigation of Building Materials Filled with Phase Change Material (PCM) for Thermal Energy Storage Through Numerical Analysis	FACULTY	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

135.	A-AM-135	Dr. Kavita a, Dinesh Kumar b	a Multani Mal Modi College, Patiala (Pb.) b Govt Victoria Girls Senior Secondary School Patiala.	Green synthesis of zinc oxide nanoparticles toward highly efficient photocatalysis application	FACULTY	ONLINE/ ORAL		
136.	A-AM-136	Manoj Kumar ¹ , Dr. Genius Walia ¹ and Dr. Parul Kumar ²	1 University College of Basic Sciences & Humanities Guru Kashi University, Talwandi Sabo, Bathinda, Punjab 2 Department of Chemistry, Government National College, Sirsa, Haryana, India	Synthesis and Characterization of Magnetic Nanoparticles by Co-precipitation Method	RESEARCH SCHOLAR	OFFLINE/ POSTER		
137.	A-AM-137	Mitty George ¹ , Krishnakumar V ¹ , Vinod P, Dr. Kailasnath M ¹	1. International School of Photonics, Cochin University of Science and Technology, Kochi – 682022, Kerala, India	Predictive Modelling of Milk Dilution through Random Forest Regression	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs.750	439862 540023
138.	A-AM-138	Dr. Shyamal Kumar Das*	Department of Physics, Tezpur University, Assam-784028, India	Nanostructured 2D vanadyl phosphate for rechargeable aluminum-ion battery	FACULTY	ONLINE/ ORAL	Rs. 1500	SBIN2 402045 7369
139.	A-AM-139 (ECE)	Manish Tiwari	NITTTR Bhopal	Comparative Analysis of Processors used in UAV Drones to assist Application Specific Processor Selection: VLSI Design Perspective	RESEARCH SCHOLAR	ONLINE/ ORAL		
140.	A-AM-140	Rajvir Kaur ¹ *, Harpreet Kaur ² , Randhir Singh ¹	1Department of Applied Sciences, Guru Nanak Dev Engineering College, Ludhiana- 141006, Punjab (India) 2Department of Chemistry, Punjabi University, Patiala- 147002, Punjab (India)	Comparison study of Electrochemical Degradation of Various Dye Effluents Using Vertically Oriented Electrodes under Amperostatic Conditions	FACULTY	OFFLINE/ POSTER		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

141.	A-ME-01	Vikrant Singh, Anuj Bansala, Anil Kumar Singlaa, Vijay Kumarb, Ranbir Singh Roopraia, Rampal Sharmaa	aSant Longowal Institute of Engineering and Technology, Longowal, Sangrur-148106, Punjab, India, email: (R. Sharma) bIndustrial and Production Engineering Department, Dr B R Ambedkar National Institute of Technology, Jalandhar, India	Microstructural, Wettability, and slurry erosion behavior of HVOF sprayed VC+ 75% CuNi-Cr coating on SS316 steel	RESEARCH SCHOLAR	ONLINE/ ORAL		
142.	A-ME-02	Amit Kumar Yadav, Smaranika Dash2 and Sunipa Bhattacharyya1	1 Department of Ceramic Engineering, National Institute of Technology Rourkela, Odisha (India)- 769008 2 Department of Basic Science and Humanities, Vignan Institute of Technology and Science, Hyderabad, Telangana, India- 508284	Bioprinting- An Innovative Approach for Tissue Engineering	RESEARCH SCHOLAR	ONLINE/ ORAL		
143.	A-ME-03	Rojaleena Dasa, Vijay Kumarb,Jyoti Shahc, Ravinder Kumar Kotnalac, Sanjeev Sharmad, Pritam Babu Sharmad	aRPS College of Engineering and Technology, Balana Mahendragarh, Haryana- 123029, India bIndustrial and Production Engineering Department, Dr B R Ambedkar National Institute of Technology, Jalandhar, Punjab- 144011, India. cCSIR- National Physical Laboratory, Dr.K.S. Krishnan Road, Delhi- 110012, India. dAmity University Gurugram, Manesar, Haryana, 122413, India.	Zinc Oxide Hydroelectric Cell: Pioneering Green electricity Generation through water splitting	FACULTY	ONLINE/ ORAL		
144.	A-ME-04	Sumit Singla1, Rojaleena Das2 Vikrant Singh3	1Indus University, ,Rancharda,Shilaj,Ahmedabad,Gujarat -382115, India	A Literature Review on Solar Dryer for Vegetables and Fruits	RESEARCH SCHOLAR	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

			2RPS College of Engineering and Technology, Balana Mahendergarh, Haryana- 123029, India 2Sant Longowal Institute of Engineering and Technology, Longowal, Sangrur-148106, Punjab,					
145.	A-ME-05	Vijay Kumar ¹ , Rojaleena Das ² and Vikrant Singh ³	1Industrial and Production Engineering Department, Dr B R Ambedkar National Institute of Technology, Jalandhar, Punjab-144011, India 2RPS College of Engineering and Technology, Balana Mahendragarh, Haryana- 123029, India 3Sant Longowal Institute of Engineering and Technology, Longowal, Sangrur-148106, Punjab, India	Microstructural and wettability behaviour of WC-10Co-4Cr+graphene coating on IS-2062 steel substrate	RESEARCH SCHOLAR	ONLINE/ ORAL		
146.	A-ME-06	Anchal Sharma*, Rampal Sharma, Vikrant Singh ^b , Swapnil Karalea, Samandeep Kaur ^b	aIndian Institute of Technology, Mandi Himachal Pradesh - 175005, India, bSant Longowal Institute of Engineering and Technology, Longowal, Sangrur, Punjab-148106, India,	Advancements in Manufacturing of Composite Materials: A Comprehensive Review and Future Perspectives	RESEARCH SCHOLAR	OFFLINE/ ORAL		
147.	A-ME-07	Samandeep Kaur ^{1,2*} , Vikrant Singh ² , Vinkel Kumar	1 National Institute of Food Technology Entrepreneurship and Management, Haryana	Drying Behavior of Cucumis melo Seeds: Kinetics, Mathematical	RESEARCH SCHOLAR	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

		Arora ¹ , Anil Kumar Singla ² , Anchal Sharma ²	2 Sant Longowal Institute of Engineering and Technology, Punjab	Modeling, and Impact on Bioactive Compounds				
148.	A-ME-08	Sachin Jha*, Vikrant Singh, Anuj Bansal, Anil Kumar Singla, Jagtar Singh	aSant Longowal Institute of Engineering and Technology, Longowal, Sangrur-148106, Punjab, India,	Effect of Heat Treatment on Wettability Analysis of Sputtered AlN over Aluminium-6061 Surface	RESEARCH SCHOLAR	OFFLINE/ ORAL		
149.	A-ME-09	Rampala*, Anchal Sharmab, Vikrant Singha, Samandeep Kaura, Anil Kumar Singlaa, Anuj Bansala	aSant Longowal Institute of Engineering and Technology, Longowal, Sangrur, Punjab-148106, India, bIndian Institute of Technology, Mandi Himachal Pradesh - 175005, India	Cavitation erosion in hydro machinery components and its mitigation by thermal spray coatings: A review	RESEARCH SCHOLAR	ONLINE/ ORAL		
150.	A-ME-10	Santosh Kumar ¹ , Harvinder Singh ¹ & Rakesh Kumar ²	1Department of Mechanical Engineering, Chandigarh Group of Colleges, Landran, Punjab, India 2 Department of Regulatory Affair & Quality Assurance, Auxein Medical Pvt. Ltd., Sonipat, Haryana, India	Compressive study on the Microstructural, Mechanical, Tribological & Application of Cold Spray Coatings	RESEARCH SCHOLAR	ONLINE/ ORAL		
151.	A-ME-11	Manjit Singh, Sanjeev Sharma, Narinder Kumar, Parveen Singla, Gurkirat Singh, Harwinder Singh	Chandigarh Engineering College, CGC Landran (Mohali)	Numerical Solution of Unsaturated flow Based on Fokker-Planck Equation using FDM	FACULTY	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

152.	A-ME-12	Hrishav Raushana*, Vikrant Singha, Jonny Singlaa, Anuj Bansala, Anil Kumar Singlaa, Jagtar Singha, Manish Kumarb	aSant Longowal Institute of Engineering and Technology, Longowal, Sangrur-148106, Punjab, India bThermo Fisher Scientific India Pvt. Ltd., Sector 2, Noida, Uttar Pradesh, 201301, India,	To Study the Salt Spray Corrosion Behavior of WAAMed Cladded Inconel 625 over EN8 Steel	RESEARCH SCHOLAR	ONLINE/ ORAL		
153.	A-ME-13	Himanshu Sharmaa*, Vikrant Singha, Anuj Bansala, Anil Kumar Singlaa, Jagtar Singha	aSant Longowal Institute of Engineering and Technology, Longowal, Sangrur-148106, Punjab, India	To Study the Cavitation Behavior of WAAMed Cladded Inconel 625 over Mild Steel	RESEARCH SCHOLAR	ONLINE/ ORAL		
154.	A-ME-14	Ranbir Singh Roopraia*, Anuj Bansala, Jagtar Singha, Vikrant Singha, Jonny Singlaa, Anil Kumar Singlaa	aSant Longowal Institute of Engineering and Technology, Longowal, Sangrur-148106, Punjab, India	Investigate the slurry abrasion behaviour of ERNiCrMo-3 clads on 080M40 steel using a wire arc additive manufacturing process	RESEARCH SCHOLAR	OFFLINE/ ORAL		
155.	A-ME-15	Nitin Kumar1, Jaspal Singh Gill1*	1Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, India,	Cavitation erosion analysis of Mo2C+CoNi and GNP coating applied to SS304 using HVOF	RESEARCH SCHOLAR	ONLINE/ ORAL		
156.	A-ME-16	MD Abdulla	Indian INstitute of Technology Hyderabad	An investigation of dry sliding wear for short e glass fibre based	RESEARCH SCHOLAR	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

				Particulates Filled polyester Hybrid Composites				
157.	A-ME-17	Vikas Bansala*, Anil Kumar Singlaa, Amandeep Singh Shahia	1 Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, India	Advancements in Magnesium Alloys: A Comprehensive Review of Mechanical Properties and Diverse Applications	RESEARCH SCHOLAR	OFFLINE/ ORAL		
158.	A-ME-18	Yogesh S. Shete ¹ and Dr. Nikhil Kadam ²	1 Research Scholar, JSPM University, Pune, Maharashtra, India 2 JSPM University, Pune, Maharashtra, India	Solid Lubricants in Machining: Enhancing Performance and Sustainability	RESEARCH SCHOLAR	ONLINE/ ORAL		
159.	A-ME-19	Sudhir Kumara*, Arpita Gupta ^b , Ajay Pratap Singh ^c , Harish Kumard	a Government Polytechnic, Uttawar (Palwal)-111203 (Haryana), India b Institute of Integrated Learning in Management, Lodhi Road-110003 (Delhi), India c Ajay Kumar Garg Engineering College, Ghaziabad-201009 (Uttar Pradesh), India d National Institute of Technology, Delhi-110036 (Delhi), India	Optimizing Parameters of Electric Discharge machining for AISI420 Stainless steel using weighted-Grey relational analysis	FACULTY	OFFLINE/ ORAL		
160.	A-ME-20	Devara Venkata Krishna, Mamilla Ravi Sankar*	Department of Mechanical Engineering, Indian Institute of Technology Tirupati, Andhra Pradesh, India-517619	Comparative study on the properties of Glutaraldehyde and Glyoxal cross-linked gelatin and polyvinyl alcohol composite hydrogel	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs.750	T24013 120184 839620 78051)
161.	A-ME-21	Kajal Singha, Hari Shanker a Ajay Pratap Singh a ¹ ,	a Department of Mechanical Engineering, Ajay Kumar Garg Engineering College Ghaziabad, Uttar Pradesh, India, 201009.	Mechanical and Microstructural properties of GMAW Welded Ferritic AISI 1080 Carbon Steel (UNS G10800)	FACULTY	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

162.	A-ME-22	Dr.Sethuram D*1, Shreyas Ramanujam*2, Sadashiva Benakatti*3 Sagnik Ray*4, Sameer Raghavendra*5	*1PES University Ring Road Campus, Bangalore, India	Comparison of Mechanical Properties Of Pla Reinforced With Aluminium Powder By Impact Testing	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs. 3000/- For 04 students	402920981018
163.	A-ME-23	Alka sharma	Delhi Technological University, Delhi	A Comprehensive Study on the Enhanced Microstructural and Mechanical Properties Resulting from Ultrasonic Vibration-Assisted CMT Welding	RESEARCH SCHOLAR	ONLINE/ ORAL		
164.	A-ME-24	Satish Sahu	1Department of Mechanical Engineering, NIT Raipur, Raipur, India	Static Analysis Of Laminated Composite Plates Using Carrera Unified Formulation	RESEARCH SCHOLAR	ONLINE/ ORAL		
165.	A-ME-25	MD Abdulla	Indian Institute of Technology Hyderabad	The effect of test specimen thickness on the IZOD impact strength for Fused Filament Fabricated based 3D printed specimens using PET and PETG filaments	RESEARCH SCHOLAR	ONLINE/ ORAL		
166.	A-ME-26	Karan Modi a, Snehal Baraiya a*, Kamlesh	a Advanced Manufacturing Laboratory, Institute of Infrastructure Technology Research and	A comparative study of tool life during drilling of	RESEARCH SCHOLAR	OFFLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

		Joshi a, Navneet Khanna a	Management (IITRAM), Ahmedabad 380026, India	additively manufactured and wrought Inconel-718				
167.	A-ME-27	Arnab Mandal1, Manoj Kundu2	1B.Tech Student, Dr.B.C.Roy Engineering College, Durgapur, India 2*Assistant Professor, Mechanical Engineering Department, DR. B.C Roy Engineering College, Durgapur, India	Analyzing, Predicting And Optimizing Cutting Forces In Turning With A Lathe Tool Dynamometer With Variable Feed Rates	FACULTY	ONLINE/ ORAL		
168.	A-ME-28	Dr. Rahul	School of Mechanical Engineering, KIIT University, Bhubneswar	Machinability Investigation during CNC Turning of Novel Incoloy 825 Super alloy using Carbide Tool Uncoated Ceramic Inserts CNMG120408	FACULTY	ONLINE/ ORAL		
169.	A-ME-29	ANKUR KUMAR	Dept. of Mechanical Engineering, SLIET LONGOWAL	Design And Power Density Analysis Of Axial Flux Permanent Magnet Synchronous Motor With Hybrid Stator For Electrical Vehicle	RESEARCH SCHOLAR	OFFLINE/ ORAL		
170.	A-ME-30	Mandeep Singh	Mechanical Engg. Deptt., Punjabi University, Patiala	Fabrication and microstructural properties of aluminium-based hybrid nanocomposites by vacuum die casting	FACULTY	ONLINE/ ORAL		
171.	A-ME-31	Ashish Kumar 1 *, Davinder Singh 2 ,	Mechanical Engineering Department, Punjabi University, Patiala,	A Review of Erosion Behavior of Nanocomposite Ceramic Coatings on Turbine Blades	RESEARCH SCHOLAR	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

		Khushdeep Goyal 3	2 Assistant Professor, Mechanical Engineering Department, Punjabi University, Patiala, 3 Professor, Mechanical Engineering Department, Punjabi University, Patiala,					
172.	A-ME-32	Davinder Singh1* and Khushdeep Goyal2	Department of Mechanical Engineering, Punjabi University, Patiala (Punjab)	Evaluation of CSFs for the adoption of additive manufacturing in Indian manufacturing industries: an AHP approach	FACULTY	ONLINE/ ORAL		
173.	A-ME-33	Yadwinder Pal Sharma*, Balwinder Singh Sidhu	Department of Mechanical Engineering, GZSCCET-MRSPTU, Bathinda, Punjab, India	Design and Laser Bending of Agriculture Tools by Using Computational Techniques	RESEARCH SCHOLAR	OFFLINE/ ORAL		
174.	A-ME-34	Praveen Kumar Verma 1, Vinod Kumar2, Hitesh Vasudev3	1Department of Mechanical Engineering Punjabi University Patiala Punjab 147002, 2School of Mechanical Engineering Lovely Professional University, Phagwara, Punjab 144411, India	Effect of electro-corrosion behavior of different grades of stainless steel used in bio-implants – A Review	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs.750	402816 841183
175.	A-ME-35	Sarvagya Sujit Mishra, Suyog Shrestha, Jay Krishan Yadav Sumanta Chaudhuri, *Rajiva Lochan Mohanty, Anish	Kalinga Institute of Industrial Technology, Bhubaneswar, Odisha, India	Porous coating effect on two-phase heat transfer performance of heat sink	FACULTY	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

		Pandey, Anil Kumar Singla						
176.	A-ME-36	Anish Pandey*, Surjeet Singh Gour, Harsh More, Rajiva Lochan Mohanty, Mantra Prasad Satpathy	Mechatronics Lab, School of Mechanical Engineering, KIIT Deemed to be University, Patia, Bhubaneswar-751024, Odisha, India	Intelligent Beehives: Enhancing Honey Collection with IoT Technology	FACULTY	ONLINE/ ORAL		
177.	A-ME-37	Raj Kumar	Chandigarh University	Analysis of AISI 1080 Steel Chassis for Go-Kart: Front and Side Impact Study using Static Structural Analysis in Ansys	FACULTY	ONLINE/ ORAL		
178.	A-ME-38	Bibhu Bhusan Sah 1 , Rajiva Lochan Mohanty 2 , Mihir Kumar Das 1	1 Indian Institute of Technology Bhubaneswar, Khorda, Odisha, India, 752050. 2 Kalinga Institute of Industrial Technology, Bhubaneswar, Odisha, India, 751024.	Study of desirable coating properties of AlSiC plasma spray coating	FACULTY	ONLINE/ ORAL		
179.	A-ME-39	aMithlesh Sharma bDeepak Kumar Goyal cGagandeep Kaushal d*Onkar Singh	aMechanical Engineering Department, GCET, Kanhpur Khui, Ropar, 140117, India b, dMechanical Engineering Department, I. K. Gujral Punjab Technical University, Main Campus, Kapurthala 144603, India cMechanical Engineering Department, Yadavindra College of Engineering, Punjabi University Guru Kashi	Enhancing Wear Resistance in SS-304 and SS-316 through Oxidation: A Comprehensive Investigation on Sliding Wear Behavior and Surface Analysis	RESEARCH SCHOLAR	OFFLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

			Campus, Talwandi Sabo, Bhatinda 151302, India					
180.	A-ME-40	Brijesh Kumar Yadav ¹ , Varun Sharma ^{1*} , Shailendra Singh Bhadauria ¹	Dr B R Ambedkar national institute of technology jalandhar	To investigate the effect of heat input on the mechanical and metallurgical properties of hardox400 steel welded joints	RESEARCH SCHOLAR	ONLINE/ ORAL		
181.	A-ME-41	aMithlesh Sharma bDeepak Kumar Goyal cGagandeep Kaushal d*Onkar Singh	aMechanical Engineering Department, GCET, Kahnpur Khui, Ropar, 140117, India b, dMechanical Engineering Department, I. K. Gujral Punjab Technical University, Main Campus, Kapurthala 144603, India cMechanical Engineering Department, Yadavindra College of Engineering, Punjabi University Guru Kashi Campus, Talwandi Sabo, Bhatinda 151302, India	Improving Turbine Steel Erosion Resistance: Investigating HVOF-Sprayed Coatings and Predictive Modeling	RESEARCH SCHOLAR	OFFLINE/ ORAL		
182.	A-ME-42	Pavan Meena and Ramkishor Anant	1Department of Materials and Metallurgical Engineering, Maulana Azad National Institute of Technology Bhopal 462003, (MP)	Critical interaction on residual stress formation in dissimilar T/P92 and AISI304 steel weldment using novel prescribed weld temperature	RESEARCH SCHOLAR	ONLINE/ ORAL		
183.	A-ME-43	Arihan Jain^{1*} , Kshitiz Sharma ¹ , Gursharan	1Undergraduate student, Department of Mechanical Engineering, Punjab Engineering College, Chandigarh-160012, India	Determining optimal porosity and pore size of Mg-based biodegradable bone scaffolds	RESEARCH SCHOLAR	OFFLINE/ ORAL	Rs.750	403168 075269

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

		Kaur1, Kamal Kumar2	2Associate Professor, Department of Mechanical Engineering, Punjab Engineering College, Chandigarh- 160012, India.					
184.	A-ME-44	Mukesh Rekhi1, Dr. Jasmaninder Singh Grewal2,*, Dr. Surendra Kumar 3	1-2Department of Mechanical and Production Engineering, Guru Nanak Dev Engineering College, Ludhiana 3Senior Principal Scientist, CSIR- CMERI CoEFM, Ludhiana.	A comparative finite element analysis of kangaroo paw ventilation system with straight radial vanes using ANSYS 15 Workbench.	RESEARCH SCHOLAR	ONLINE/ ORAL		
185.	A-ME-45	Harwinder Singh1, Pardeep Gupta1, Praveen Kumar1*	1Department of Mechanical Engineering, Sant Longowal Institute of Engineering and Technology, Longowal, 148106, Punjab, India	Investigation of the Axial Tensile Performance of Dual Thermoplastic deposited in Core-Shell Structure via MEX Three- Dimensional Printing	RESEARCH SCHOLAR	OFFLINE/ ORAL		
186.	A-ME-46	Maninder kaur 1,2,*, Dr. Khushdeep Goyal 1 , Dr. Deepak Kumar Goyal 3	1Department of Mechanical Engineering, Punjabi University, Patiala, Punjab, India 2Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, Punjab, India 3Department of Mechanical Engineering, IKGPTU Main campus, Kapurthala, Punjab, India	Surface Coatings as a Potential Approach to Combat Solid Particle Erosion (SPE): A Review	RESEARCH SCHOLAR	ONLINE/ ORAL		
187.	A-ME-47	Abhigya Hazra1, Nilesh Pal1 , Sachin Pal1, Vivekkumar Gaud1,	1 Mechanical Engineering Department, Vidyavardhini's College of Engineering, Vasai West, 401202, India 2 Gen. Manager R&D, Mixing, Sujan Industries, Vasai East	Study Of Carbon Black Composition In Styrene Butadiene Rubber Towards Its Mechanical And Its Ageing Properties	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs. 750	439671 783223

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

		Umeshchandra Mane1[0000-0002 7286-8912], Utpal Basuli2	401202, India					
188.	A-ME-48	1 Manohar Devadiga , 1 Vishal Dhinde, 1 Nikunj Kalsariya, 1 Tisha Paul, 2 Swapnil Mane	1 Student, Department of Mechanical Engineering, Vidyavardhini's College of Engineering and Technology, University of Mumbai, India 2 Assistant Professor, Department of Mechanical Engineering, Vidyavardhini's College of Engineering and Technology, University of Mumbai, India	Manufacturing of the prominent automobile parts using composite materials	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs.750	Rs.750 & UPI ID: dhindevishal08@oksbi
189.	A-ME-49	Amit Bansod , Yash Jaiswar, Sachin Rai, Chandrashekhar Mishra, Dr Umeshchandra Mane, Dr Utpal Basuli	Student, Department of Mechanical Engineering, Vidyavardhini's College of Engineering and Technology, University of Mumbai, India Assistant Professor, Department of Mechanical Engineering, Vidyavardhini's College of Engineering and Technology, University of Mumbai, India	Effect of Carbon Black, Acrylonitrile Content and Curing System on the Properties of Acrylonitrile Buta-diene Rubber (NBR) Composites	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs.750	amitbansod304@okhdfcbank
190.	A-ME-50	Yadav Shubhrata, Kumar Vipina, Mandavi Devesha, Kumar Rohita, Omer Ankita, Tiwari Akashb	a Sant Longowal Institute of Engineering and Technology, Longowal, 148106, Sangrur, Punjab, India b Military Engineering Services, Office of Garrison Engineer, 151004, Bathinda, India	Fabrication of SS308 by WAAM based Additive manufacturing	FACULTY	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

191.	A-ME-51	Sandeep Yadav	Sant Longowal Institute of Engineering and Technology, Longowal, 148106	Optimizing bionic Dual-Arm Underwater Robot Manipulator Performance: A Whales Optimization Algorithm Approach to PID Tuning	RESEARCH SCHOLAR	ONLINE/ ORAL		
192.	A-ME-52	Hardeep singh, Harwinder Singh, Lalit Ahuja, Amrik Singh	Department of mechanical engineering SLIET, Longowal	Experimental Studies On Tensile, Impact And Corrosion Behavior On Waam Developed In-625 Alloys	RESEARCH SCHOLAR	ONLINE/ POSTER		
193.	A-ME-53	Dr. Mohd Majid	Department of mechanical engineering SLIET, Longowal	Weldability issues related with duplex stainless steels- A review	FACULTY	OFFLINE/ ORAL		
194.	A-ME-54	Nitin Yadav and Rajesh Kumar	Precision Metrology Laboratory, Department of Mechanical Engineering, Sant Longowal Institute of Engineering and Technology, Longowal -148106, India	Development and studies on piezoelectric energy harvester for engine and human footstep vibrations	RESEARCH SCHOLAR	ONLINE/ ORAL		
195.	A-ME-55	Kulwant Singh*, Satyam Kumar, Aditya Raj, Mohit Kumar Singh, Ashwini Kumar Tripathy	Chandigarh University, Mohali, India	Microstructure and Mechanical Properties Evaluation of Fiber Laser Welded SS321	RESEARCH SCHOLAR			

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

196.	A-ME-56	Satish Sahu	Department of Mechanical Engineering, NIT Raipur, Raipur, India	static analysis of laminated composite plates using Carrera unified formulation	RESEARCH SCHOLAR	ONLINE/ ORAL		
197.	A-ME-57	Anuj Kumar Jha ¹ , Ashutosh Kumar Jha ¹ , Jay Airao ² *, Dr. Navneet Khanna ²	¹ Advanced Manufacturing Laboratory, Institute of Infrastructure, Technology, Research and Management (IITRAM), Ahmedabad 382026, Gujarat ² Department of Mechanical and Production Engineering, Aarhus University, Denmark	Machine Learning for Tool Wear Prediction: A Comprehensive Analysis Using Classification and Regression Techniques	RESEARCH SCHOLAR	ONLINE/ ORAL	Rs.750	403146 224242
198.	A-ME-58	Mukul Kumar ¹ , Shailesh Kumar Pandya ² *	¹ Departmental of Mechanical Engineering, S. V. National Institute of Technology, Surat – 395007, mukul0222@gmail.com ² Departmental of Mechanical Engineering, S. V. National Institute of Technology, Surat	A 2-D parabolic heat source for modelling of Tungsten Inert Gas (TIG) welding process	FACULTY	ONLINE/ ORAL	Rs. 1500	403118 899608
199.	A-ME-59	Mr. Rishabh Maurya, Mr. Harsh Dhembare, Mr. Pranit Ghanekar, Mr. Vruttik Bhoir, Dr. Ashish Choudhary	Vidyavardhani College of Engineering and Technology, Vasai, Maharashtra	Efficient thermal management of a high performance 800W Dell data server submerged in the immersion cooling tank – A case study	RESEARCH SCHOLAR	OFFLINE/ ORAL		
200.	A-ME-60	* ¹ Girimurugan R, ² Madhavan V M, ³ Girisha	¹ Assistant Professor, Department of Mechanical Engineering, Nandha College of Technology,	Examining and Exploring the Vibration Energy Harvesting Process through	FACULTY	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

		L, 4Ravivarman G, 5Nanthakumar S, 6Magesh Babu D	Perundurai 638 052, Tamilnadu, 2Associate Professor, Department of Mechanical Engineering, Sona College of Technology, Salem 636 005, Tamilnadu 3Professor, Department of Mechanical Engineering, PES Institute of Technology and Management, Shivamogga 577 204, Karnataka, 4Assistant Professor, Department of Electrical and Electronics Engineering, Karpagam Academy of Higher Education, Coimbatore 641 021, Tamilnadu, 5Assistant Professor (Senior Grade), Department of Mechanical Engineering, PSG Institute of Technology and Applied Research, Coimbatore 641 062, Tamilnadu 6Professor, Department of Mechatronics Engineering, Velammal Institute of Technology, Panjetty 601 204, Tamilnadu	the Modeling and Parametric Investigation of a Bimorph Piezoelectric Beam with a Tip Mass				
201.	A-ME-61	Karan Mankotia	Chandigarh University	Weight loss study of heat treated API X70 pipeline steel immersed in sea and fresh water medium	FACULTY	ONLINE/ ORAL		
202.	A-ME-62	Dilpreet Singh ^{1,2} , Davinder Singh ¹ ,	1Department of Mechanical Engineering, Punjabi University, Patiala, India	An innovative review on protective coatings counting future trends of hot corrosion prevention	FACULTY	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

		Harvinder Singh1	2Department of Mechanical Engineering, Chandigarh University Gharuan, Mohali, India					
203.	A-ME-63	Rishabh Maurya, Harsh Dhembare, Pranit Ghanekar, Vruttik Bhoir, Ashish Chaudhari	Vidyavardhini's College of Engineering and Technology, Vasai	Numerical Analysis of Thermal Management of a High Performance 800W Dell Data Server with Liquid Immersion Cooling	FACULTY	ONLINE/ ORAL		
204.	A-ME-64	Binu Kumar Bhagria, Khushdeep Goyal, Dharampal Deepak	Department of Mechanical engineering, Punjabi University, Patiala, Punjab, India, 147002	Nano-coatings: Review on hot corrosion performance in aggressive environments.	RESEARCH SCHOLAR	ONLINE/ ORAL		
205.	A-ME-65	Sumit Kumar1*, Pardeep Gupta2 and Sunil Kumar3	1,3Assistant Professor (ME), SLIET Longowal, Sangrur (Pb), India 2Professor (ME), SLIET Longowal, Sangrur (Pb), India	Role Of Delivery Management in Attaining Business Excellence through TQM: An Empirical Case Study	FACULTY	OFFLINE/ ORAL		
206.	A-ME-66	Sukhjinder singh	Punjabi university, patiala	Effect of YSZ reinforcements on hot behavior of Ni-20Cr Coatings	FACULTY	OFFLINE/ ORAL		
207.	A-ME-67	Sarpreet Singh1*, Parlad Kumar1,	1Punjabi University, Patiala, Punjab, India	Slurry Erosion Analysis of Laser Cladded Hogonas+50% WC on SS410 and SS304 steels	RESEARCH SCHOLAR	ONLINE/ ORAL		

National Conference on Advanced and Emerging Materials for Technological Applications (AEMTA-2024): March 15-16, 2024
(List of Accepted Abstracts)

		Deepak Kumar Goyal ²	21. K. Gujral Punjab Technical University Jalandhar, Kapurthala, Punjab, India					
208.	A-ME-68	Kulwant Singh*, Harsimran Kaur, Anjana Konsam, Devanshu Sharma, Dev Goyal, Navdeep Sharma	Department of Mechanical Engineering, Chandigarh University, Mohali, Punjab, India.	Mechanical and Microstructure Evaluation of JFE HITEN-780 LE Joint Welded in Butt Configuration	FACULTY	OFFLINE/ ORAL		
209.	A-ME-69	Harvinder Singha, Charanjit Singha*, Khushdeep Goyala,	a, Department of Mechanical Engineering, Punjabi University Patiala (India)	Investigating the Effect of Different Wire Materials on Performance Characteristics and Surface Integrity during WEDM of Nimonic75 Alloy	FACULTY	ONLINE/ ORAL		