

SUMMARY OF POSTER SESSIONS

Theme-wise Abstract & Poster List - September 2026

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Metals & Alloys	M&A	1-48
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Metal Additive Manufacturing

MAM | 23 Posters | 11 September 2026 | 16:45-18:15 h

Code	Main Title	Authors	Corresponding Email ID
MAM 1	Effect of Thermal Deposition Strategies on the Microstructure and Mechanical Properties of WAAM-Processed Al4043 and Al5Mg Alloys	Raghavendra Pai K, K Narayan Prabhu, Vijeesh Vijayan, Augustine Samuel	knprabhu@nitk.edu.in
MAM 2	Leveraging Simulation for Accelerating Material and Process Development with Computational Insights using FLOW-3D AM	Kaushik Balasubramanian	kaushik@kaushiksinternational.com
MAM 3	Plasma plume monitoring and adaptive laser power control during directed energy deposition of SS316L-IN718 functionally graded materials	Misba Amin, Ravi K R	p22mt002@iitj.ac.in
MAM 4	Development of new nickel-based superalloy 718 for the application of Wire DED AM	Nithin Therambath Ambujakshan, Pierre-louis Reydet, Herve Fraisse	nithin.therambathambujakshan@aperam.com
MAM 5	Effect of Linear Increment of Laser Power and Scan Speed Combinations in Selective Laser Melting of AlSi10Mg alloy	Jesulin Raj, Pavan Krishna, V. Sanjai, A. Vinoth Jebaraj	vinothjebaraj.a@vit.ac.in
MAM 6	Microstructural Evolution, Bead Geometry, and Mechanical Performance of Wire Arc Additively Manufactured Inconel 718	Suryakanta Sahu, Rahul Jain	rahul@iitbhillai.ac.in
MAM 7	Thermo-mechanical behavior of LPBF Ti-6Al-4V through experimental and constitutive models	Mohanraj J, Jambeswar Sahu	jambeswar.sahu@vit.ac.in
MAM 8	Effect of Scandium on microstructural and mechanical properties of Al-Mg alloy fabricated by wire arc additive manufacturing	Muhammed Rijas A, T. M. Anup Kumar, Agilan M, Chakravarthy P	muhammedrijas@iist.ac.in
MAM 9	Effect of post-processing routes and build direction on Creep Behaviour of SLM-AlSi10Mg	Prerna Sharma, S.M. Jagadeesh Babu, Anil Kumar Vesangi, Srinu Gangolu	srinu@iitk.ac.in
MAM 10	Laser Decal Transfer-Based Micro-3D Printing of NiTi Shape Memory Alloy for Miniaturized Microelectromechanical System Devices	Krishnpal Singh Tomar, Yuvraj K Madhukar, Palani Iyamperumal Anand	palaniia@iiti.ac.in
MAM 11	Real-Time Monitoring and Closed-Loop Control for Defect Mitigation in Directed Energy Deposition using Optical Emission Spectroscopy	Mohit Singh, Ravi K R	singh.110@iitj.ac.in
MAM 12	Interfacial Metallurgy and Microstructural Evolution in Hybrid Laser Powder Directed Energy Deposition of Inconel 718 Using High- and Low-Power Laser Systems	Bhavesh Chaudhary, Pradeep PI, Anilkumar V, Niraj Nayan, Govind	bhaveshm3690@gmail.com
MAM 13	Microstructural Characterization of Electron Beam Powder Bed Fused CM247LC Superalloy	T M Shreyas, Tanay Parlikar, G D Janaki Ram	tmschreyas01@gmail.com
MAM 14	Overcoming the Strength-Ductility Trade-off in LPBF Ti-6Al-4V: Microstructural Evolution, Defect Interactions, and Post-Processing Optimization	Dharani A S, S Santosh Sampath	Santoshs@ssn.edu.in
MAM 15	Development of varying composition Functionally Graded Materials (FGM's) using wire arc additive manufacturing	Vijeesh Vijayan, K S Sandesh, Godwin Mathew, Tilu K Thomas, Shine M Rachel, Prerack Gamit, Mebin T Kuruvila	vijeeshv@nitte.edu.in
MAM 16	Wire Arc Additive Manufacturing of 3D structure through optimized Tool Path Generation	Kaoushik V M, Balasubramanian G, Tejaswini P, Sukumar M	kaoushik.v.m@larsentoubro.com
MAM 17	Solid-State Additive Manufacturing: Development of Lightweight Aluminium Matrix Composites Through Friction Stir Powder Additive Manufacturing (FSPAM) Process	Nisar Ahamad Khan, Ajay Kumar	drajaykumarp@iittp.ac.in
MAM 18	AI-Enabled Wire-Arc Additive Manufacturing of TiB2-Modified Recycled AA7075 for Crack-Resistant Aerospace Structures	Ratchagaraja Dhairiyasamy, Deekshant Varshney, Subhav Singh, Sankar Thangavel, Sujitha Angamuthu, Dineshkumar Jayaraman	sankarthangavelpce@paavai.edu.in
MAM 19	Shedding Weight, Holding Steady: Topology-Optimized Reaction Wheel Mounting Bracket	Apurba Roy, Adil Anas, Sana Mariyam, H Giridhar, Anilkumar V, Baiju B, Niraj Nayan, Govind	aroy07111@gmail.com
MAM 20	Analyzing the Effect of Deep Cryogenic Treatment Followed by Heat Treatment on Additively Manufactured Mild Steel ER70S-6 Fabricated Using MIG WAAM	Prakhar Shukla, Varun Sharma	varun.sharma@me.iitr.ac.in
MAM 21	From Powder to Thrust: An 800 N Throttleable Engine Built by Laser Powder Bed Fusion	Apurba Roy, Nakkala Gopikrishna, Anilkumar V, Niraj Nayan, Govind, Birendra Oraon	gknmmme@gmail.com
MAM 22	Additive Manufacturing of Maraging Steel: Challenges and Opportunities	Vinothkumar G	vinothkumar@nitt.edu
MAM 23	Multi-Sensor Fusion Techniques for Real-Time Identification and Closed-Loop Monitoring of Hot Cracking in Directed Energy Deposition of Inconel 713C Alloys	Ravi K R, Subbuarayalu, Mohit Singh	ravikr@iitj.ac.in

Advanced Materials for Strategic Sectors

AMS | 11 Posters | 11 September 2026 | 16:45-18:15 h

Code	Main Title	Authors	Corresponding Email ID
AMS 1	Ultra-High-Strength Armour Steel: Indigenization through Lean Alloying and Energy-Efficient Processing	G. K. Bansal, A. K. Chandan, A. Ammasi, B. K. Sahoo, C. Soupramanien, V. C. Srivastava, S. Ghosh Chowdhury	gkbansal.nml@csir.res.in
AMS 2	Balancing Print time and Strength in 3D printed PLA: Infill Pattern and Layer Thickness as Design Levers for Structural and Lightweight Parts	Harsh Ghule, Amogh Moholkar, Abhinav Arya, Sandeep Chowriwar, Seelam Rajasekhar Reddy	srreddy@mme.vnit.ac.in
AMS 3	Tailoring the Dielectric Response of PDMS through Ionic Liquid Incorporation for Compact, Transparent, and Wearable Antennas	Krishnaja M U, V. Biju, Subodh G	gsubodh@gmail.com
AMS 4	Evaluation of oxidation-resistant Titanium Felt based Porous Transport Layer (PTL) for Space Grade Electrochemical Oxygen Generator	Arjun Raj M,, Remya K P, Vinay Mohan Bhardwaj, Avatar N Poduval, Akash Bhardwaj, Venkateswaran C, J. Mary Gladis, Surajeet Mohanty, Shaneeth M	arjunraj.isro@gmail.com
AMS 5	Influence of Solution Heat Treatment on Microstructural Evolution and Hardness of a Cast Nickel-Based Superalloy BZL-12Y	Om Puri Gosain, Subhabrata Chakraborty, Dibyendu Chatterjee, Sujoy Kumar Kar	gosiaom.iitkgp@gmail.com
AMS 6	Study on heat treatment cycle of 10X11H23T3 material for spaceapplication	Shubham Kumar, Debasis Tripathy, Prakash Pednekar, Ravi Ranjan Kumar, Vivek V, Rohit Kumar Gupta	shubhisro.dos@gmail.com
AMS 7	Development of High-Strength Cu-4.7Ti Alloy Sheets by Optimized Thermo- Mechanical Processing and Heat Treatment	Vibha Sharma, Anoop S, Manikandan P, Chenna Krishna S, Pravin Muneshwar	chenna.sk@gmail.com
AMS 8	Cold Sintering-Driven Dielectric Tailoring of SiO2-SnF2 Composites for Next- Generation Microwave Antenna	Jagadeesh M, Jawahar I N, Subodh G	gsubodh@gmail.com
AMS 9	High Temperature Deformation Behaviour of Ti-900 Titanium Alloy for Gas Turbine Compressor Blade Application	Dipayan Chakraborty, Ajay Kumar	drajaykumarp@iittp.ac.in
AMS 10	Effect of Extended Thermal Exposure During Vacuum Brazing on the Mechanical Properties and Microstructure of Cu-Cr-Zr-Ti Alloy for Rocket Liquid Engine Applications	Saravana P, Santhoshkumar R, Bodasingi Thavitiraju, Vivek V, Rohit Kumar Gupta	sagee_6162@rediffmail.com
AMS 11	Development, characterization and usage of advanced new class of refractory alloy for futuristic rocket engine thruster applications	Ravi Ranjan Kumar, Varsha Florist, K Soma Sunder, Aishwarya Shankadhar, Rohit Kumar Gupta	raviranjan.dei@gmail.com

AI & ML in Materials & Manufacturing

AIML | 17 Posters | 11 September 2026 | 16:45-18:15 h

Code	Main Title	Authors	Corresponding Email ID
AIML 1	Efficient Semi-Automated Material Microstructure Analysis Using Deep Learning: A Case Study in Additive Manufacturing	Sanjeev S Navaratna, Nikhil Thawari, Gunashekhar Mari, Amritha V.P, Pranav, Murugaiyan Amirthalingam, Rohit Batra	rbatra@iitm.ac.in
AIML 2	Comparative Evaluation of Machine Learning Models for Wear Rate Prediction in Wire Arc Additively Manufactured 316L Stainless Steel	S. Gold Suganth, S. Raman Sankaranarayanan, S.P. Kumaresh Babu	sgoldsuganth@gmail.com
AIML 3	Machine Learning-Based Prediction and Optimization of Thermal Performance in a Compact Graphene Nanofluid- Cooled Battery Thermal Management System for Electric Vehicles	Kusammanavar Basavaraj, Anand Kulkarni, Satyanarayan, Elangovan K	kusammanavarb@gmail.com
AIML 4	Hierarchical Machine Learning Framework for Real-Time Acoustic Emission-Based Defect Prediction in Directed Energy Deposition of Inconel 713	S. Subburayalu, Pratyusha Mukherjee, Shrey Baranwal, Rajeswari D, K. R. Ravi	p23mt0002@iitj.ac.in
AIML 5	Multi-Objective Deep Learning Framework for Optimising Ag- Sr-Zn-F Multi-Ion Doped Hydroxyapatite with Enhanced Biomedical Performance	Vaibhav Kannana, Gandi Raama, Dr. Nimu Chand Regera	vaibhavkannan.nitt@gmail.com
AIML 6	An Experimental and Machine Learning - based Study on Surface Roughness in Pulsed CMT Bead - on - trails	P. Jaichandran, M.D. Barath Kumar, K. Sathish Kumar, A. Vinoth Jebaraj, N. Arivazhagan, M. Manikandan	mano.manikandan@gmail.com
AIML 7	PI-LNO: Bridging Physics-Informed Learning and Laplace Neural Operators for the Prediction of Arbitrary Surface Wettability Dynamics	Ganesh Sahadeo Meshram; Partha Pratim Chakrabarti; Suman Chakraborty	ganeshmeshram.iitkgp@gmail.com
AIML 8	FedQualNet: An Intelligent Privacy-Preserving Federated Learning Framework for Collaborative Manufacturing Quality Prediction	N. Satish, L. Selvarajan, E. Saranya, V.M. Senthil kumar, V. Kalaiyarasi, G. Rubiya	saranya.omr@gmail.com
AIML 9	Transformative Integration of AI/ML in Manufacturing : Enhancing Efficiency, Safety and Sustainability in Sinter Plants Operation	Pankaj Kumar Gupta -	pankajkumar.gupta@jsw.in
AIML 10	AI-ML-Based Optimization of Process Parameters in WAAM Printed AA5356 for Enhanced Surface Quality and Dimensional Accuracy	Dr. Devasri Fuloria, Dr. Anoj Giri, Dev Sharma, Rishi Sawa, Yash Pathak	devasri.fuloria@vit.ac.in
AIML 11	Machine Learning-Based Prediction of Hole Expansion Ratio in Dual-Phase Steel: A Grade-Specific Random Forest and SHAP Analysis	Rajababoo Kumar, Aman Mohtta	rajababooiitm@gmail.com
AIML 12	Physics-Informed Computational Screening Framework for DBTT Prediction in Niobium-Based Refractory Alloys	Srivathsan, Chenna Krishna S, Vibha Sharma, Pravin Muneshwar	rrsrivathsan@gmail.com
AIML 13	Machine Learning-Based Prediction of Wear Rate and Coefficient of Friction of Sr/Ce Microalloyed Al-6Ni Alloys under Dry Sliding Conditions	S. Surendarnath, G Ramesh	gramesh.rmg@gmail.com
AIML 14	AI-Based Distortion Analysis and Post-Weld Treated TIG and Laser Welded AA5052-H32 Aluminium Thin Plates	N. Srimath, Dhanesh G, A.T. Navin Prasad, J. Yoganandh	jyogan@gmail.com
AIML 15	Application of Machine Learning in machining process: a review, challenge and future research	Sheo Kumar, Deepak Yadav, Krishna Kumar Soni	sheo_kumar@sac.isro.gov.in
AIML 16	AI-Driven Multi-Objective Optimization of EDM Geometric Accuracy in AISi10Mg Alloy Using an ANN-NSGA-II Framework for Strategic Manufacturing	C.Kavitha, L. Selvarajan, N. Satish, S. Revathi, B. prakash, C. Arun, T. Tamilarasu	selvalakshmanan86@gmail.com
AIML 17	Gaussian Process Regression-Based Modeling of Machining Characteristics in Die-Sinking EDM of SS316 Stainless Steel Using a Taguchi L18 Design	S. Umamaheswari, C. Kavitha, L. Selvarajan, Amirtha Varshini V, A. Aravindhan, R. Rajavel, Seenivasan Sankara Subramanian	seenivasan.sankarasubramanian@utas.edu.om

Surface Engineering

SE | 19 Posters | 11 September 2026 | 16:45-18:15 h

Code	Main Title	Authors	Corresponding Email ID
SE1	Development of Zr/ZrN Multilayer Thin Films for Enhanced Corrosion Resistance and Mechanical Properties by DC Magnetron Sputtering	Ramesh Chandra,, Aakanksha Jain,, Nav Rattan, Rahul S. Mulik	ramesh.chandra@ic.iitr.ac.in
SE2	Processing-Microstructure-Corrosion Relationship in Cu-TiO ₂ Composite Coatings Deposited by Different Thermal Spray Techniques	Saminderpreet Singh, Nitesh Kumar, Varun Sharma	saminder.pd@me.iitr.ac.in
SE3	Influence of Thermal Spray Routes on Microstructural and Electrochemical Properties of Al-TiO ₂ Coatings	Nitesh Kumar, Saminderpreet Singh, Varun Sharma	nitesh_k@me.iitr.ac.in
SE4	Pulsed Current Electrodeposition of Corrosion-Resistant Zn-Mn Alloy Coatings from Ethaline: The Role of DMH Complexation	Debasis Nayak, Juan David Matallana Guerrero, Anjali Kumari, Siddhartha Das, Karabi Das	karabi@metal.iitkgp.ac.in
SE5	Role of Cationic and Anionic Surfactants (CTAB and SDBS) in Tailoring the Microstructure, Tribology, and Corrosion Performance of Zn-Co Alloy Coatings Developed from a Deep Eutectic Solvent	Anjali Kumari, Pakanati Siva Prasad, Bangmaya Satpathy, Siddhartha Das, Karabi Das	anjali.nitjsr@gmail.com
SE6	Thermal Energy Method for Burr Removal in Cryogenic Injector Elements: Process Optimisation and Performance Evaluation	Sanway Deb, Saravanan P, Nithin P, Khalid Rashid, Rohit Kumar Gupta	sanway_deb@lpssc.gov.in
SE7	Electrochemical Response and passive film characteristics of Plasma-Sprayed Fe- based metallic glass coatings: Role of Process Parameters	Akankshya Rout, Md Akif Faridi and Tapas Laha	akankshya874@gmail.com
SE8	Effect of Processing Parameters on the Microstructural Evolution and Mechanical Property Variation of Laser Cladded H13 Tool Steel	Abhijit Kumar Khanra, Indranil Manna, , Indrani Sen	abhijit.kumar.khanra@kgpian.iitkgp.ac.in
SE9	Hot Corrosion Performance of HVOF-Sprayed NiCoCrAlYT _a and T-400 °Coatings on SS304 in Molten Solar Salt at 500 °C	P. Sakthivel, G. Sivakumar, M. Manikandan	manikandan.manoharan@vit.ac.in
SE10	Active Process Control using Raspberry Pi for Laser Cladding of Molybdenum Carbide in 17-4 PH steel matrix	Soumya Ranjan Sutar, Bikram K. Khandai, Arkajyoti Jha, Muvvala Gopinath	mgopinath@mae.iith.ac.in
SE11	Effect of Abrasive Water Jet Exposure Duration on Surface Roughness, Cleaning Capability, and Material Removal Rate of Mild Steel Specimens	Shamshad Ali, Faisal Hasan	shamshadalimes@gmail.com
SE12	Abrasive Wear Behaviour of 1C Bainitic Alloy Steel against Alumina under Ambient Conditions	P. C. Mania, A. P. Harsha, R. Mannab, M. Singha	pcmani.mec@iitbhu.ac.in
SE13	Effect of Additives on the Tribological Performance of Grease: Wear Resistance and Load-Bearing Capacity	P. C. Mania, R. Kumara	pcmani.mec@iitbhu.ac.in
SE14	Interplay of Microstructure, Counterbody Material and Environment on the Sliding Wear Behaviour of Friction Stir Processed AA5052	S Krishnaja, , GS Anantharam, Basil Kuriachen	bk@nitc.ac.in
SE15	Lubricated Tribological Behaviour of Laser-Textured SS316L: Influence of Homothetic and Hybrid Surface Architectures	Avadhoot Rajurkar, Rahul Waikar	aviraj.vitpune@gmail.com
SE16	Erosion Behaviour of HVOF-Sprayed Superalloy and High-entropy alloy Coatings	Niraj Kumar, Sai Shruti Sangeetrao, Narendra Babu N, Sayan Barat, Sumanth Govindarajan	nirajkumarbiwal1@gmail.com
SE17	Surface Modulation through Advanced Hot Dip Galvanizing Processes for Improved Corrosion Performance: A New Approach	Mahesh G. Walunj, Lokesh Ch. Pathak, Smrutiranjana Parida, V.S. Raja	mgwalunj.nml@csir.res.in
SE18	Corrosion Performance of API grade steel using Organic Inhibitor Coating	Ghanshyam Das, Md Sarfraz alam	ghsndhyamd@niamt.ac.in
SE19	Investigations on Elevated-Temperature Erosion Behaviour of NiCrMo4 hardfacing alloys	Jyoti V Menghani, Achu B	jvm@med.svnit.ac.in

Coatings & Special Materials

CSM | 31 Posters | 11 September 2026 | 16:45-18:15 h

Code	Main Title	Authors	Corresponding Email ID
CSM 1	Hybrid Manufacturing of Aluminium Alloy TPMS Structures	Gaurav Kumar, Rahul Jain, Neha Gupta	ngupta.mme@nitrr.ac.in
CSM 2	Waste to Wealth: Upcycled Polyethylene Terephthalate Aerogels for Solar-Driven Atmospheric Water Harvesting	S Sooryakumari, N S Akhila, E. Bhoje Gowd	bhojegowd@niist.res.in
CSM 3	Influence of Gel Solvent on the Crystal Structure and Crystalline Orientation in Nylon 11 Aerogels	Anupama C K,, Ashitha George,, E. Bhoje Gowd	bhojegowd.niist@csir.res.in
CSM 4	Structure-Property Relationships in Disentangled Ultra-High-Molecular-Weight Polyethylene Aerogels	Shehin K B,, E. Bhoje Gowd	bhojegowd@niist.res.in
CSM 5	Fabrication and Characterisation of Closed-Cell Aluminium Alloy Foam by Melt-Foaming Technique	Arun V. S., Hariharan M., Abhijith S. O., Vishak Manoj, Mainak Sen, Parijath Pallab Jana, Sreejakumari S. S.	sreejakumariss.niist@csir.res.in
CSM 6	Electrochemical Delithiation of Spent LiFePO ₄ Black Mass for Selective Lithium Recovery	Sreenandu P H, Gayathri J S, Venkatesan J, Jayasankar K	jayasankark.niist@csir.res.in
CSM 7	Integrated Plasma Arc Smelting and Electrorefining Process for the Sustainable Recovery of Platinum Group Metals from Spent Automotive Catalytic Converters	Sandeep U, Abhijith A, Gayathri J S, Jayasankar K, Venkatesan J	venkatesanj.niist@csir.res.in
CSM 8	Recovery and purification of silicon from EOL Solar Panel as a Critical Mineral Resource for Sustainable Industrial and Metallurgical Applications	Vineetha S V, Revathy Sreekumar, Sreejakumari S S	sreejakumariss.niist@csir.res.in
CSM 9	Sustainable Pyrolysis-Based Recycling of Waste Printed Circuit Boards for Resource Recovery and Emission Mitigation.	Anjana E I, Venkatesan J, Prathish K P, Jayasankar K	jayasankark.niist@csir.res.in
CSM 10	Optimizing TiCl ₄ Dosing Strategies to Achieve Productivity Improvements in Titanium Sponge Processing	Pradeep P I, Sreejith S, Ramesh George, Anilkumar V, Niraj Nayan, Govind Bajargan	pi.pradeep.pillai@gmail.com
CSM 11	Evaluation of Flotation Reagents for Selective Recovery of Graphite from Spent LIB Black Mass	Mousumi Gharai, I. Cassandra Austen, S. Tharinidevi, N. Vasumathi	mousumi14iit@gmail.com
CSM 12	Understanding Inclusion Evolution in Al-Killed Low-Carbon Steel with Ce Addition	Ammasi Ayyandurai	masi.nml@csir.res.in
CSM 13	A Europium-Based Red-Emissive Fluorescent Metal-Organic Framework for Ultrasensitive Detection of Nitrobenzene and Nitrophenolic Pesticide and Forensic Visualization of Latent Fingerprint Dermatoglyphics	Mukti Biswas, Dr. Gomathi Nagesawran	gomathi@iist.ac.in
CSM 14	NUMERICAL INVESTIGATION OF FLOW CONTROL IN NATURAL CIRCULATION SOLAR WATER HEATING SYSTEMS USING METAL HYDRIDE ACTUATORS	Alan John B S, Eashwar Krishna D M, Ajesh J, Akshay Asokan, Mohan G	mohan.g.menon@sctce.ac.in
CSM 15	Numerical Investigation of Bio-inspired Metal Hydride Heat Pump Modules for Efficient Heating and Cooling	Biju John Koshy, G. Mohan, M. Prakash Maiya	mohan.g.menon@sctce.ac.in
CSM 16	Role of Cerium Addition in Tailoring Microstructure and Mechanical Performance of AA6061 Aluminium Alloy	Sourav K. Krishnan, Adarsh A. S., Delvin Daniel Saju, T. P. D. Rajan,, Parijat P Jana	tpdrajan@gmail.com
CSM 17	Role of Nb Addition in the Microstructure-Magnetic Property Interplay of Nd-Fe-B Permanent Magnets	Sadhasivam M, M. B. Sivakumar, D. Prabhu, K. G. Pradeep	sadhasivam@iiitdm.ac.in
CSM 18	Numerical Study of a Metal Hydride Based Bellows Actuator	Syam S N, Mohan G.	mohan.g.menon@sctce.ac.in
CSM 19	Electrophoretically Deposited Porous Carbon Black-Supported Ni ₂ V ₂ O ₇ Nanorods for High-Performance Lithium-Ion Battery Anodes	Rohit Anand, Karabi Das, Siddhartha Das	rohitananddav@gmail.com
CSM 20	Photoactive 2-Nitrobenzaldehyde Electrolyte Additive for Enhanced Electrochemical Performance of Vanadium Oxide-Based Supercapacitors	Sudhir Kumar, Arun Kumar Singh, Shobha Shukla, Sumit Saxena	ssudhirkumar.sk@gmail.com
CSM 21	Fabrication and Characterization of Water Hyacinth derived Activated Carbon Loaded Recycled PET Nanofiber Membranes	Durgaram M, Gowthaman Baskaran, Muthusamy K, V. Karthik	karthikv@nitt.edu
CSM 22	Transformation of Novel Albezia Gum into a Sustainable Biopolymer for next generation Additive Manufacturing	Yeswanthkumar Reddy, B Santhi	yeswanth.basiredddy@gmail.com
CSM 23	Study On Iron Impurity Mitigation In Al-3133 Alloy Through Integrated Treatment Approaches	U. Prashanth, M. Karthick, G. Vinoth Kumar	mkarthick12494@gmail.com
CSM 24	Scrap To Smart Materials: A Method For Sustainable Recovery Of Edm Wires For Shape Memory Alloy Applications	Santosh Sampath	santoshs@ssn.edu.in
CSM 25	Phosphorus-Doped Carbon Dots Encapsulated in Porous Silica as Multifunctional Fillers for Hydrophobic and Flame-Retardant PVA-Based Sustainable Packaging Films	Bavya V, Harikrishnan P. S.,, Rajan T P D, Suresh K I	kisuresh@niist.res.in
CSM 26	Formulation and Statistical Optimization of a Vegetable-Oil-Based Organic Coolant for Sustainable Machining	N. Srimath, V. Kishore, C. Dinesh, J. Yoganandh	jyogan@gmail.com
CSM 27	Probing Oxygen Vacancy Mediated Charge Storage Kinetics in Sr _{1.85} FeCoO _{6-δ} through Electrolyte and Temperature	Pramod Kumar, Arpita Tripathi, Harish Verma, Aayush Mittal, Shail Upadhyay	supadhyay.app@iitbhu.ac.in
CSM 28	Formulation and lubricant property evaluation of chemically modified blend of Jatropha Oil and Waste Cooking Oil enhanced with Carbon Quantum Dots	Prebin Pius, K. P. Nair, Rani S., Ananthan D. Thampi	piusprebin@gmail.com
CSM 29	Resource Recovery from End-of-Life Solar Panels: Synthesis of Silicon Carbide from Recovered Silicon	Gayathri J S, Sandeep U, Abhijith A, K Jayasankar, Venkatesan J	venkatesanj.niist@csir.res.in
CSM 30	Enhanced Performance of Aqueous Zinc- Metal Batteries Using Polyimide/MWCNT Composite	Tanaya Dutta, Mary Gladis J.	marygladis@iist.ac.in
CSM 31	Developing Polysulfamates as Sustainable Alternatives to Polyurethanes	Biswajit Saha,	quentin.michaudel@chem.tamu.edu; biswaorg14.chem@gmail.com

Advanced Materials Processing

AMP | 18 Posters | 11 September 2026 | 16:45-18:15 h

Code	Main Title	Authors	Corresponding Email ID
AMP 1	Microstructural Characterisation and Heat Treatment Optimisation of AISI 430 Ferritic Stainless-Steel Rods for Space Applications	Santhoshkumar R, Bodasingi Thavitiraju, C R Anoop, Ravi Ranjan Kumar, Vartha Venkateswarlu, Rohit Kumar Gupta	mettsanthosh@gmail.com
AMP 2	Synergistic Effects of Friction Stir Processing on the Mechanical and Microstructural Characteristics of In-situ ZrB ₂ /Al7068 Composite	Atul Kumar, Nitish Raja, Mahesh V P	atul.kumar@vit.ac.in
AMP 3	Distortion Analysis and Microstructural Evolution in D6AC Steel C-Ring Specimens During Heat Treatment: Experimental and Simulation Study	Vibha Sharma, Anoop S, Lagudu Yerrinaidu, Chenna Krishna S, Pravin Muneshwar	chenna.sk@gmail.com
AMP 4	Design, Structural Optimisation and Mechatronic Development of a Low- Cost Computer-Controlled Miniature Universal Testing Machine for Material Characterisation	Gandi Raam P U	gandipuraam@gmail.com
AMP 5	Engineering Defect-Free Aerospace Components Using Hot Isostatic Pressing: An Experimental Investigation	Dineshraj S, Kiran John Antony, Ajaya Kumar M S, Deepak Kumar Mishra, Satish Kumar Singh, Govind	importantfordinesh@gmail.com
AMP 6	Thermal Analysis of Aluminium-Carbon Nanotube Composite Fabricated Using Powder Extrusion	Sreekumar E.N., M.S. Senthil Saravanan	sreekumar.rit@gmail.com
AMP 7	Evaluation of Die-Workpiece Interfacial Friction During Hot Working of Austenitic Stainless Steel	M.V. Navaneethkrishna,, B. Aashranth, Dipti Samantaray	deepsaroj@igcar.gov.in
AMP 8	Hybrid Particle-Reinforced Aluminium Matrix Composites: A Study on Electrochemical Performance	Mahesh V. P., Atul Kumar, Merrick Pappy Mathew	mahesh.vp@vit.ac.in
AMP 9	Development and Characterisation of Propellant Tank Outlet Adaptors Made of AS7G-03 through Gravity Die Casting	Varsha Florist, K Soma Sundar, Ravi Ranjan Kumar, Tribhuwan P Singh, Rohit Kumar Gupta	floristvarsha@gmail.com
AMP 10	Data-Driven Process Optimisation for Enhancing Magnetic Performance and Yield in 50C600 CRNO Electrical Steel	Gaurav Dhake, Pownsamy V, U Ravi Teja, J N Mohapatra, D Satish Kumar	gauravdhake22@gmail.com
AMP 11	Optimisation of Reverse-Pulse Copper Electrodeposition for Void-Free Through-Silicon Via Metallisation	Sumit Singh, Divyam Khandelwal, Dr. Bhaskar Mitra	sumit.singh.official11@gmail.com
AMP 12	Processing and Qualification of 36HXTiO Sheets into Foils for Cryogenic Stages of Space Applications	Shubham Kumar, Debasis Tripathy, Karumajji Soma Sundar, Ravi Ranjan Kumar, Rohit Kumar Gupta, Venkatesh N	shubhisro.dos@gmail.com
AMP 13	Optimisation of Electrochemical Micromachining Parameters for Magnesium AZ31 Alloy Using Citric Acid Electrolyte and TOPSIS Multi-Objective Analysis	N Sivashankar, L Selvarajan, S Sumathi, M R Nithya, C Arun, S Suriyaprakash, M Prasad	prasadsIm71@gmail.com
AMP 14	Advancements in Electromagnetic Interference (EMI) Shielding Materials: Trends, Challenges and Future Perspectives	Nandini Deshpande, Dhaval Vartak, Yogesh Ghotekar, Deepak Hadiyel, Naresh Chaudhari, Bhuwaneshwar Semwal, Pradeep Kumar, Manish M. Mehta	dhaval@sac.isro.gov.in
AMP 15	Numerical Investigation of Solid-Phase Hydrodynamics and Particle Characterisation in Continuous Precipitation Systems for Nuclear Reprocessing	Saroj K. Panda, Vivek K. Mishra	sarojkumarp@ssn.edu.in
AMP 16	Synthesis and Characterisation of Aluminium-Copper Composite by Friction Stir Processing	K. Krishnakumar,, M. S. Senthil Saravanan, Mohammad Israr	krishnasct@gmail.com
AMP 17	Room-Temperature Sintering of Nickel Ink by Chemically Etching Surface Oxidation for Low-Cost, High-Performance Printed EMI Shielding	Sumith Sudhakar,, J. Jithindev, Achu Chandran,, Surendran Kuzhichalil Peethambharan	kpsurendran@niist.res.in
AMP 18	Investigation of Hot Workability and Microstructure Control of Cp-Ti Alloy	Dhanya M S, Anoop S, Ravi Ranjan Kumar, S V S Narayana Murty	dhanyarajesh130@gmail.com

Smart, Nano & Functional Materials

SNF | 17 Posters | 11 September 2026 | 16:45-18:15 h

Code	Main Title	Authors	Corresponding Email ID
SNF 1	Hierarchical Al ₂ O ₃ /SiO ₂ Nanocomposite Coatings for Removable and Replaceable Transparent Superhydrophobic Functional Films	Meignanamoothi G, Ravi K R	ravikr@iitj.ac.in
SNF 2	Simultaneous Detection of Neurotransmitters Using a Bimetallic MOF-Based Portable Electrochemical Sensor	Praveena Ragavan, Sanskriti Parihar, and Gomathi Nageswaran	praveenaragav271@gmail.com
SNF 3	Development of Antimony and Fluorine Doped ZnO Nanoparticles for Supercapacitors	P. M. Anjana, and S. M. Jung	dranjanasree@gmail.com
SNF 4	Phenolphthalein-Chitosan Embedded Silica based Smart Coating for Corrosion Sensing and Protection	Nisha Balachandran, Vishnu S, Anoop S, Deepthi Thomas, Deepa Devapal, Lakshmi VM	nishapzm@gmail.com
SNF 5	Mechanical performance and in vitro degradation of AZ31- fishbone derived nano-hydroxyapatite composites	B. Venkateswarlu , B. Ratna Sunil , Marek Kolenčík	venkateswarlu@rguktn.ac.in
SNF 6	Composition-Tailored Bimetallic Transition Metal MOFs as Noble-Metal-Free Electrocatalysts for Water Splitting	Merin Joy, Gomathi Nageswaran	merinjoyettathottu@gmail.com
SNF 7	Adsorptive Removal of Congo Red Using Aluminum Terephthalate MOF and MOF-Cotton Composite: Insights into Adsorption Mechanism and Performance	Chithra K. R., Manas Kamnani,, Ranjith S. Pillai, Gomathi Nageswaran	gomathi@iist.ac.in
SNF 8	Microstructural Evolution and Damping Characteristics of Powder Metallurgy Fabricated Pure Magnesium and Mg-2 wt. % ZrO ₂ Nanocomposites	Dheeraj P , Amit Kumar Singh, Jagadeesha T, Manoj Gupta	dheeraj_p250081me@nitc.ac.in
SNF 9	Electrolyte Solvation and Interface Engineering for High-Performance Aluminium-Air Batteries	Muhammad M,, T. P. D. Rajan	tpdrajan@gmail.com
SNF 10	Binder-Free SrCoO _{3-δ} Electrode Films Fabricated by Electrophoretic Deposition for High-Performance Asymmetric Supercapacitors	Aayush Mittal, Yen-Pei Fu, Shail Upadhyay	supadhyay.app@iitbhu.ac.in
SNF 11	Development of High-Performance Zinc-Rich Epoxy Coatings through the Synergistic Action of Zinc Dimethacrylate and Graphene Nanoplatelets	Harsha Haridas, Athulya U.P., Anoop S., J. Mary Gladis	marygladis@iist.ac.in
SNF 12	Experimental and Numerical Investigation of GnP-CNH Nanocomposite-Coated Wood for Space Applications	Manjusha R, Suchitra Shet, Preeti, Chirag S, V. S. Sooraj, and Venkata Raghavendra	sooraj@iist.ac.in
SNF 13	Investigations On The Machining Characteristics And Surface Integrity Of WED Processed Low Cost Copper-Based High-Temperature Shape Memory Alloys	Bavin. S, Santosh. S	santoshs@ssn.edu.in
SNF 14	Effect of WEDM Parameters on Surface Pores of Nickel Wicks Using Image Analysis for Loop Heat Pipe Applications	Nipun Neil, Deepak Kumar Mishra, Snehil Srivastava, Dhanya M. S., Sri Boushali M., Ullekh Pandey, Rohit Kumar Gupta	nipun_neil@vssc.gov.in
SNF 15	Self-Sensing High-Entropy Alloy Nanolaminate Coatings for Molten-Salt Corrosion and Early Damage Detection	Ratchagaraja Dhairiyasamy , Deekshant Varshney , Subhav Singh , Sankar Thangavel , Divya Ponnusamy , Karikalan R	sankarthangavelpce@paavai.edu.in
SNF 16	Synergistic Adsorption in Trimetallic ZnCuCr-TpMIm MOFs for Realistic Wastewater Treatment Applications	Atul, Gomathi Nageswaran	gomathi@iist.ac.in
SNF 17	Effect of Liquid Crystalline Polymers on the Electrical Percolation Threshold of MWCNT-Filled Ternary Polymer Blends	R. Vivek, Kuruvilla Joseph, George P. Simon, Arup R. Bhattacharyya	vivek_r@vssc.gov.in

Metals & Alloys

M&A | 48 Posters | 12 September 2026 | 15:30-17:00 h

Code	Main Title	Authors	Corresponding Email ID
M&A 1	Microstructure and Phase Evolution in Stainless Steel Induced by Titanium via Mechanical Alloying and Subsequent Spark Plasma Sintering	Anil Kumar, Raj Bahadur Singh, Deepak Dwivedi, Saurabh	raj@nith.ac.in
M&A 2	Synthesis, High-Temperature Phase Stability, and Corrosion Resistance of Novel V ₃₀ Nb ₁₆ Ta ₈ Cr ₃₀ Mo ₁₆ Refractory High-Entropy Alloy	Rashid Kareem, M.R.R. Panicker, V.N.N. Namboothiri	rashidkareem342@gmail.com
M&A 3	Enhanced Wear Resistance of Ferrium® C64 Gear Steel via the Combined Effects of Equal Channel Angular Pressing and Heat Treatment	Virendra Ahirwar, A. Jayanthi, D. Nagarajan, B. Ravisankar	virendraahirwar121@gmail.com
M&A 4	Corrosion of 03X steel: Insight on the electrochemical and morphological aspect	Vishnu S, Nisha Balachandran, Deepthi Thomas, Deepa Devapal, Lakshmi VM	vishnusrn0007@gmail.com
M&A 5	Electronic-structure governed strengthening in face-centered cubic high- entropy alloys: A unified framework for solid-solution and grain size strengthening mechanisms	Siddharth Yadav, Katsushi Tanaka, Francesco Maresca, Rajeshwar R. Eleti	rajeshwar.eleti@mt.iitr.ac.in
M&A 6	Investigation of Hot Deformation Behavior in R370CrHT Pearlitic Steel	S. Krishna Narayan, Chaitanya Paramatmuni	c.paramatmuni@iitpkd.ac.in
M&A 7	Influence of 950°C Ageing on Phase Evolution and Strength in 13-8 PH Martensitic Stainless Steel	Dhanraj N. Aepurwar, Randhir Kumar Singh, Rajesh Kumar Rai, Ravi Ranjan Kumar, Rohit Kumar Gupta	randhir.meta@mnit.ac.in
M&A 8	Development of CNT reinforced Al-Cu alloy through Tubular Metal Additive Extrusion (TMAE) Technique	Vaisakh P. S., Senthil Saravanan M. S.	me.vaisakhps@sbcemail.in
M&A 9	Tailoring room temperature Charpy Impact Toughness in nano pearlitic steel through alloy design	Rahul Singh, Aparna Singh	aparna.s@iitb.ac.in
M&A 10	Kinetic Modeling of Second-Phase Dissolution During Solutionizing of Mg-5.9Al-1Zn Alloy Using the JMAK Approach	Abhishek Kumar, Rahul Ramesh Kulkarni, Rajkumar Ohdar	rahulkulkarni16122012@gmail.com
M&A 11	ANSYS-based simulation of squeeze casting parameters and their related experimental studies	T. Kavitha Rani, A. Kumar, P.P. Jana, A. Sarkar	sarkararnab@nitrrkl.ac.in
M&A 12	Comparative Evaluation of Processing Map Instability Criteria for Hot Workability Optimization of AA7075 Aluminum Alloy	T. M. Anup Kumar, P. Chakravarthy, Ravi Ranjan Kumar, S.V.S. Narayana Murty, Varsha Florist	anupkumar.tm@gmail.com
M&A 13	Annealing-path control of microstructure and mechanical behaviour in 1.2 mm interstitial-free high-strength (IFHS) steel	H. K. Mehtani, Umesh Ahire, Gafoorbhasha M, Pranav Tripathi, D. Satish Kumar	hitesh.kumar@jsw.in
M&A 14	Stress Corrosin Cracking Behaviour of AISI Type 316LN SS and its weldments in acidified chloride environment by slow strain rate testing technique	A. Poonguzhali, M. Jayalaksmi and S. Ningshen	apoongs@igcar.gov.in
M&A 15	Intermetallic Transformation and Mechanical Response of Sr-Zn Modified Al-Mg-Si Extrusion Alloys	S P Sibi, T.P.D. Rajan, Parijat Pallab Jana	sibisppadippura@gmail.com
M&A 16	Effect of heat treatment on the microstructure and mechanical properties of wrought C250 maraging steel	Mohan M , Agalya V, Usharani U Vinothkumar Govindaraj	vinothkumar@nitt.edu
M&A 17	Tribological Performance of DMD (Disintegrated Melt Deposition- Fabricated) AISi10Mg Alloy under Neem, Castor, and Gingelly Oil Lubrication: A Comparative Study with Dry Sliding	Jagadeesha T, Ejo John Varghese, Manoj Gupta	jagdishsg@nitc.ac.in
M&A 18	Fabrication and Characterization of Induction-Melted Mg-Ni and Ni- Modified AZ91/AZ31 Systems	L.B. Mulla, Dr. K. A. Sorate, Dr. Neeraj Srivastava	neeraj.s@med.svnl.ac.in
M&A 19	Comparative study on fracture toughness of additively manufactured and wrought Inconel 718 alloy for Aerospace applications	Prakash Pednekar, K Soma Sundar, Varsha Florist, Ravi Ranjan Kumar, Nithin P, Rohit Kumar Gupta	pednekarprakash@gmail.com
M&A 20	Interfacial thermal coupling performance index: A quantitative metric for assessing heat transfer across heat source-heat sink interfaces	Ramakrishna Devananda Pathumudy	ramakrishna.devv@gmail.com
M&A 21	Development of Aluminum-Graphene Nanocomposites with Improved Thermal and Tribological Properties for Strategic Applications	Izahaq S Khan, T.P.D. Rajan	izahaq.s.khan2727@gmail.com
M&A 22	Effect of Brazing Thermal Exposure on the Microstructure, Mechanical Properties, and Fracture Behaviour of ICSS-0721-202 Austenitic Stainless Steel for Rocket Engine Applications	Rahul srinivas P, Santhoshkumar R,Solo S, Aravinth S,Rohit Kumar Gupta	rahulsrinivas2910@gmail.com
M&A 23	Influence of Brazing Thermal Cycles on the Mechanical Behaviour of БрАЖМЦ 10-3-1.5 Aluminium Bronze for Rocket Liquid Propulsion Systems	Aravinth S, Solo S, Santhoshkumar R, Rahul srinivas P, Rohit Kumar Gupta	aravinth2601@gmail.com
M&A 24	Structure-Property Correlation of Al-Added Low-Density Medium-Mn Steel	Mukesh Kumar Yadav, Tapas Kumar Bandyopadhyay	mech.muku@gmail.com
M&A 25	Investigation of Microstructure and Mechanical Properties of Aluminium alloy 5083-H321 at Different Temperature Environments	V. Gowthaman, M.D. Barath Kumar, M. Manikandan	mano.manikandan@gmail.com
M&A 26	Effect of 950°C Heat Treatment on Microstructure, Mechanical Properties, and Wear Behaviour of 13-8 PH Stainless Steel	Dhanraj N. Aepurwar, Randhir Kumar Singh, Rajesh Kumar Rai, Ravi Ranjan Kumar, Rohit Kumar Gupta	randhir.meta@mnit.ac.in
M&A 27	Friction Stir Processing-Induced Dual-Phase Nanostructure in a Cu-Rich High-Entropy Alloy	Deeksha. Mishra, Saurabh.S. Nene	mishra.28@iitj.ac.in
M&A 28	Effect Of Sample Dimensions On The Grain Growth Studies In Metals	Arman Shekhar, Chaitanya Paramatmuni	c.paramatmuni@iitpkd.ac.in
M&A 29	Retained austenite and nano-precipitation mediated enhancement of strength and cryogenic toughness in Super Martensitic Stainless Steel	Biraj Kumar Sahoo, A.K. Chandan, G.K. Bansal, S. Ghosh Chowdhury, Govind Bajargan	biraj.nml@csir.res.in
M&A 30	Optimization of Machining Parameters Using the TOPSIS Method for Heat-Treated INCOLOY 800H Super alloy	A. Palanisamy, L. Selvarajan, Senthil.G, Prakash.B, Sadhishkumar.S, Narasimharajan.M, Tamilarasu.T	sssadhish@gmail.com
M&A 31	Investigation of Microstructure and Mechanical Properties of Aluminium alloy 5086-H131 at Different Temperature Environments	V. Gowthaman, M.D. Barath Kumar, M. Manikandan	mano.manikandan@gmail.com
M&A 32	Surface Integrity Enhancement of Si ₃ N ₄ -TiN Ceramic Composites by Micro-EDM: SEM-Based Mechanistic Analysis for Strategic Sector Applications	C.Arun, L. Selvarajan, N.Satish, R.Jeevanath, P.N.Mohankumar, K.P. Srinivasa Perumal, G. Nirmal kumar	selvalakshmanan86@gmail.com
M&A 33	Effect of Knockout Time on Microstructure and Mechanical Properties of SGCI Inserts for Railway Application	Sujit Kadam, Gokul M Pillai, Abhishek David and Vinod Kumar	vkt@iiti.ac.in
M&A 34	High-Temperature Composite Shape Memory Alloys For Aerospace Applications: Design And Actuation	S. Gowtham, S. Santosh , T. S. Srivatsan	gowtham2320074@ssn.edu.in
M&A 35	Influence of Temperature and Soaking Time on Microstructure and Grain Growth Kinetics of Nickel-Based Superalloy XH67	Ravi Ranjan Kumar, Santhoshkumar R, Rishabh Shrivastava, Karumajji Soma Sundar, Rohit Kumar Gupta	raviranjan.dei@gmail.com
M&A 36	Functionally Graded Medium-Entropy Alloy Coatings for Hydrogen- Assisted Cryogenic Fatigue Resistance of Stainless Steel	Ratchagaraja Dhairiyasamy, Deekshant Varshney,Subhav Singh, Sankar Thangavel, Sujitha Angamuthu ,Saravanan.R	sankarthangavelpce@paavai.edu.in
M&A 37	Direct Upcycling of Inconel 718 Machining Swarf into Oxide-Dispersion- Strengthened Superalloy Components	Ratchagaraja Dhairiyasamy,Deekshant Varshney ,Subhav Singh ,Sankar Thangavel ,Divya Ponnusamy , Baskar Rathinam	sankarthangavelpce@paavai.edu.in
M&A 38	Microstructural Evolution and Phase Transformation in Fe-Rich Fe-Al-Ti Alloys Processed by Mechanical Alloying and Spark Plasma Sintering	Deepak Kumar Srivastava, Ashutosh Sahu, Ram Sajeevan Maurya	ramsajeevan@iiti.ac.in
M&A 39	Revisiting Ancient Indian Urumi Steel: An Integrated Study of Metallurgy, Microstructure, Mechanical Performance, and Material characterization	Amit singh, Amber Verma, Gokul M. Pillai, Abhishek David, Sujeet S. Kadam, and Vinod Kumar	vkt@iiti.ac.in
M&A 40	Mechanistic Pathway of Metallic-to-Nanostructured Phase Conversions using Traditional Methods	Merish. S, Aswathy. L, Natrajan. R, Lekha GS, Sathiyarajeshwaran. P, Reena VL	vl.reena@gmail.com
M&A 41	Artificial Neural Network and Genetic Algorithm-Based Optimization of Solution Heat Treatment Parameters for AISI 321 Stainless Steel	Senthil G, Sakthivel L, Yokeshwaran S, Tharun A, Prabhakaran R, Raguraman S	g.senthilgct@gmail.com
M&A 42	Comparative Analysis of Hexagonal and Triangular Electrodes in EDM Machining of SS307: Influence on Machining Performance and Geometrical Tolerance	Venkatesh K, Senthilkumar T S, Selvarajan L, Prabhakaran D, Sathya T, Prasad M	senthilk.kumar6@gmail.com
M&A 43	Solid-State Thermal Synthesis and Microstructural Evolution of Stable Silver-Mercury Sulfide Polycrystalline Nanodomains via Traditional Multi-Stage Calcination	Aswathy. L, Merish. S, Natrajan. R, Lekha GS, Sathiyarajeshwaran. P, Reena VL	imrchemistry@gmail.com
M&A 44	Effect of Tantalum on the microstructural evolution and the mechanical properties of non-equiatomic CoCrNi medium entropy alloys.	Gajendra Patel, Mayur Vaidya, Rajesh Korla	ms22resch01001@iith.ac.in
M&A 45	Effect of Pouring temperature on castability of Al90Mg7Cu1.35Zn1.35Si0.3 Compositionally Complex Alloy	Saurav Kumara, Himadri Roy, Sudip Kumar Samantaa, Aditya Kumar, Lohara, Adwaita Maitya	svkumar.cmeri@csir.res.in
M&A 46	Development and Characterization of a Large AA2014-T652 Near-Net- Shape Conical Forging for Launch Vehicle Applications	Pabitra Mohan Nayak, Akhtedar Abbas Khan, Rajiv Panda	mohannayak1928@gmail.com
M&A 47	Influence of Zirconium and Strontiumon Grain Refinement and Microstructure of Al-3Mg-3Zn Alloy	Diya Mary Koshy, Akhil S. Karun, K. K. Ajith Kumar, [Author not provided in source]	diyamk453@gmail.com
M&A 48	Microstructure and Mechanical Property Studies of Cast and Heat- Treated Ti6Al4V	Siva Kumar K. G. V.	sivakumar.vkg@gmail.com

Ceramics & Composites

C&C | 24 Posters | 12 September 2026 | 15:30-17:00 h

Code	Main Title	Authors	Corresponding Email ID
C&C 1	Impact Analysis of Bullet on Ballistic Shield with Material Study and Scope for Additive Manufacturing & IoT Integration	Niviya Sri S, Venkatesh G	gvn.metal@psgtech.ac.in
C&C 2	Processing of Autoclave-Grade Carbon/Epoxy Prepregs by Oven Curing: Influence of Out-Life, Laminate Thickness, and Vacuum Bagging Strategy on Laminate Quality and Mechanical Performance	Aarathy Sen P L, Anish Kumar, Arun D I, Chakravarthy P	sen.aarathy@gmail.com
C&C 3	Synthesis and Characterisation of Ceramic Oxides: A Comparative Study	Gokul Das, Mahesh V P	mahesh.vp@vit.ac.in
C&C 4	Microstructural Characterisation, Thermal Conductivity and Mechanical Properties of Heterogeneous Bimodal Copper	Kona Durga Prasadu, Juan David Matallana Guerrero, Snehasish Adhikari, Siddhartha Das, Karabi Das	kdurgaprasad298@gmail.com
C&C 5	Design of Metal-Ceramic In-Situ Interpenetrating Phase Composite (IPC) Architecture for High-Toughness Parts	Sreekumar Vadakke Madam	sreekumar.meta@mnit.ac.in
C&C 6	Metallisation of Carbon Fibre-Reinforced Polymer Composites for Highly Reliable Applications: A Review of Innovative Approaches and Future Prospects	Yogesh Ghotekar	yogeshghotekar@sac.isro.gov.in
C&C 7	Graphene Oxide-Mediated Interfacial Engineering of SMA Wire- Reinforced Hybrid Composite Laminates for Enhanced Structural Performance	Gowtham S, S. Santosh	santoshs@ssn.edu.in
C&C 8	Influence of ZnO Reinforcement on the Microstructure, Mechanical Performance, Damping Capacity, Thermal Characteristics, and Corrosion Resistance of Mg-1Zn-1Ca Composites	Hemant Kumar Pant,, Michael Johanes, Amit Kumar Singh, Jagadeesha T, Manoj Gupta	amitsingh@nitc.ac.in
C&C 9	Development and Characterisation of Low-Cost Kaolinite- and Red- Soil-Based Ceramic Membranes for Oil-Water Emulsion Separation	Ansif Jaseem V P	ansifjaseem@gmail.com
C&C 10	Impact of Friction Stir Processing on the Wear and Mechanical Behaviour of SiC/TiB ₂ -Reinforced AZ91 Magnesium Hybrid Composites	Jeffin Johnson, Muhammed Rameez, R Adharsh, Leonardo Sebastain	jeffinj@rajagiritech.edu.in
C&C 11	Influence of Process Parameters and Electrode Geometry on Machining Performance and Surface Integrity of SS316 in Electrical Discharge Machining	Selvarajan L, Arun C, Kalaiyarasi V, Senthil G, Revathi S, Sowmesh P, Senthilkumar T S	senthilk.kumar6@gmail.com
C&C 12	Comparative Investigation of Polygonal Copper Electrode Geometry on Machining Performance and Dimensional Accuracy of SS307 Stainless Steel during Electrical Discharge Machining	Mohankumar P N, Selvarajan L, Venkatesh K, Arun C, Senthilkumar V M, Tejeshwar B, Senthilkumar T S	senthilk.kumar6@gmail.com
C&C 13	Processing and Characterisation of AZ91 Mg Alloy Reinforced with TiB ₂ by Two-Step In-Situ Processing	Geo Blessy M, Pragatheesh Saran M, K. K. Ajith Kumar	ajithkajith@gmail.com
C&C 14	Mechanical and Microstructural Characterisation of Glass Fibre- Reinforced Polymer (GFRP) as an Alternative Reinforcement for Concrete: A Comprehensive Durability Assessment	Gokul M Pillai, Anurag Singh, Amit Singh, Abhishek David, Md Anthesham Danish, Vinod Kumar	vkt@iiti.ac.in
C&C 15	Biowaste-Derived Activated Carbon-Mediated Synthesis of Al-Ce-Ti- La-Zr-Based High-Entropy Ceramics	Muthusamy K, Durgaram M, Gowthaman Baskaran, V. Karthik	karthikv@nitt.edu
C&C 16	Development of Tungsten-Based Composite for Space Applications	Deepak Kumar Mishra, Dineshraj S, Ajaykumar MS, Jalaja K, Satish Kumar Singh, Govind	dkm_12000@yahoo.co.in
C&C 17	A Physics-Informed Intelligent Model for Improved Prediction and Optimisation of EDM Parameters in Si ₃ N ₄ -TiN Ceramic Composites	Sadhishkumar S, Selvarajan L, Venkatraman J, Prakash B, Jeevananth R, Ramamoorthi M, Vishal T	prakashb@mahendratech.org
C&C 18	Influence of Reinforcements (TiC/BN) on the Tribological Characteristics of Aluminium (Al7050) Hybrid Composite	Muthukumaran Ramasamy, Ajith Arul Daniel, M. Nithya, A. Parthiban, J. Dineshkumar	parthibana83@gmail.com
C&C 19	Interfacially Engineered W-Cu-Diamond Gradient Composites for Repeated Extreme Heat-Flux Applications	Ratchagaraja Dhairiyasamy, Deekshant Varshney, Subhav Singh, Sankar Thangavel, Sujitha Angamuthu, Kalaimaamani K	sankarthangavelpce@paavai.edu.in
C&C 20	Static and Dynamic Flexural Tests of Pultruded Carbon Laminates for Assessment of Energy and Impact Absorption Capacity	Abhishek David, Gokul M Pillai, Amit Singh, Indrasen Singh, Vinod Kumar	vkt@iiti.ac.in
C&C 21	Influence of Electrode Materials on Die-Sinking EDM of Syalon 501: Performance and Surface Integrity Analysis	Prakash B, Selvarajan L, Senthil G, K. Madumathi, C. K. Murugesan, S. Paulraj	selvalakshmanan86@gmail.com
C&C 22	Damage Analysis of Jute-Glass-Carbon Fibre Hybrid Composites under Three-Point Flexural Fatigue Loading by Experimental and Numerical Approaches	Bharath B R, Jeevan Prasad K, Shreedhar N, Mohini Shukla	jeevanprasad202003@gmail.com
C&C 23	Effect of Thermal Annealing and Cryo-Conditioning on Chopped Glass Fiber Polyphenylene Sulfide Composites	Sumathy Muniamuthu, K. Sunil Kumar, Pinninti Prasanth Reddy	drsumathym@veltech.edu.in
C&C 24	Ultrasonic-Assisted Fabrication and Performance Evaluation of Aluminium-Based Nanocomposites for Marine Structural Application	Marie Samson D, Poovazhagan L	poovazhaganl@ssn.edu.in

Cryogenic & High Temperature Materials

CHT | 17 Posters | 12 September 2026 | 15:30-17:00 h

Code	Main Title	Authors	Corresponding Email ID
CHT1	Metallurgical analysis of a cracked NI-SPAN C 902 spring used in a high- pressure oxygen regulator	Santhoshkumar R, Bodasingi Thavitiraju, Ravi Ranjan Kumar, and Rohit Kumar Gupta	mettsanthosh@gmail.com
CHT2	Microstructural evolution and shape-memory characteristics of microwave-sintered Ni44.5Ti46.5Si9 shape-memory alloy	Aswinkumar S	s.aswin94@gmail.com
CHT3	Effect of heat treatment on the mechanical properties of EN-grade steel: A Review	V. Chinnadurai and Arun Prasad Murali	m.arunprasad1987@gmail.com
CHT4	Deformation-induced microstructural evolution and fracture behaviour of TiNbCrTa refractory complex concentrated alloy during hot compression	Aman Gupta,, Ajeet K. Srivastav, Satyam Suwas, and Shi-Hoon Choi	amangpta@gmail.com
CHT5	Processing of high-entropy rare-earth-based oxides using indigenous resources for thermal-barrier-coating applications	Nedunchezian Srinivasan and Anant Kumar Gupta	srinivasan.n@iitjammu.ac.in
CHT6	Indigenous development of hafnium- and zirconium-based ultra-high-temperature materials for extreme-environment applications	Narendar Nasani, Angad Choudhary, and Raghu C Reddy	narendar.nasani@cmet.gov.in
CHT7	Effect of welding processes on the tensile properties of Haynes 282 GTA and EB welds	M. Agilan, B. Prabha, K. Saravanan, and Aji M Abraham	agilan103@gmail.com
CHT8	Discontinuous plastic-flow behaviour of 16Cr-6Ni A-M transition-class stainless steel at cryogenic temperature	T. Antony Prabhu, G. Kamesh Guru, H. Siva Raman, A. Chenthilvel Murugan, P. Padmanabhan, R. Kalimuthu, and D. Gayatri Devi	antonyprabhu15@gmail.com
CHT9	Influence of heat treatment on microstructural evolution and high-temperature tensile behaviour of XH43 superalloy	Sagar Patil, S.V.S. Narayana Murty, Ravi Ranjan Kumar, and M.J.N.V. Prasad	mjnvprasad@iitb.ac.in
CHT10	Effect of brazing heat-treatment cycles on the microstructural and mechanical characteristics of ICSS-0716-301 stainless steel	Varsha Florist, Santhoshkumar R, Ravi Ranjan Kumar, Anoop C R, and Rohit Kumar Gupta	floristvarsha@gmail.com
CHT11	Structural stability and physical properties of Ni ₃ (Ti _{0.67} X _{0.33}) (X = Nb, Ta, Mo, Zr) ternary intermetallic compounds: A comparative assessment	D. Patel, S.K. Chaudhury, and K. Santhy	santhyk.mt@indusuni.ac.in
CHT12	Development, thermo-structural assessment and hot-test characterisation of a niobium-tungsten alloy combustion chamber for high-temperature liquid-rocket-engine applications	Nikhil Sharma, Aishwarya Shankhdhar, Unnikrishnan KR, Ebin Thomas, Ravi Ranjan Kumar, Satish Vanapallli, Vishal Kumar, and Ajith B	nicklex29@gmail.com
CHT13	Design, numerical simulation and synthesis of a high-emissivity glass coating for silica-based re-entry thermal protection systems (TPS)	Pranay Pandey, Ariharan S., Nagapriya S., Chakravarthy P., and Venkateswaran C.	pranaypandey82@gmail.com
CHT14	Constitutive modelling of cryogenic deformation behaviour of ICSS 1218-321 incorporating transformation-induced plasticity	Bishwajyoti Dutta Majumdar, Subha Sanket Panda, T. M. Anup Kumar, P. Chakravarthy, and Jayakumar K	bdmmech@hotmail.com
CHT15	Comparative study of the hot workability of as-cast and wrought XH55 superalloy	Sandipan Das, Pavan Kumar Theeti, Prasanthan Karayi, Debasis Tripathy, and Rohit Kumar Gupta	iitb.mems.sandipan.das@gmail.com
CHT16	Precipitation behaviour of XH55 superalloy	Sandipan Das, Ajit Kumar, Sebastian PP, Debasis Tripathy, and Rohit Kumar Gupta	iitb.mems.sandipan.das@gmail.com
CHT17	Effect of Thermal Treatment on Segregation Evolution and Mechanical Behavior of MoNbTaTiW Refractory High-Entropy Alloys	Shanker Kumar, Yagensah Shandangi, N. K. Mukhopadhyay, Vikas Jindal	shanker@nitw.ac.in

Advanced Materials Characterization

AMC | 12 Posters | 12 September 2026 | 15:30-17:00 h

Code	Main Title	Authors	Corresponding Email ID
AMC 1	Metallurgical Failure Analysis of A286 Bolts Used in the ISROSENE Feed Line of a Semi-Cryogenic Stage	Santhoshkumar R, Bodasingi Thavitiraju, Varsha Florist, Rohit Kumar Gupta	mettsanthosh@gmail.com
AMC 2	Influence of Surfactants on the Morphology, Surface Area, Wettability, and Optical Properties of Tin Oxide Nanoparticles for Advanced Functional Applications	Pankaj Kumar, Karabi Das, Ramkrishna Sen, Siddhartha Das	pankajbharti434@gmail.com
AMC 3	Microstructure-Property Correlation in DP980 Steel under Varying CAL Conditions	Nandini K, H. K. Mehtani, Gafoorbhasha M, D. Satish Kumar	knandini28may@gmail.com
AMC 4	Torsion-Based Evaluation of Hot Workability in SS316LN Stainless Steel	M. Arvinth Davinci, B. Aashranth, Dipti Samantaray,, A. Nagesha	arvinth@igcar.gov.in
AMC 5	Effect of Heat Treatment on Prior Austenite Grain Size and Texture in R370CrHT Rail Steel	Ebin Shibu James, S Krishna Narayan, Chaitanya Paramatmuni	c.paramatmuni@iitpkd.ac.in
AMC 6	Microstructural Evolution and Nano-Mechanical Characterisation of an Aged Low-Density L1 ₂ -Strengthened (FeCoNi) ₈₇ Al ₅ Ti ₈ High-Entropy Alloy	Sanjay Krishna K, Shanmugasundaram Thangaraju	thangaraju@diat.ac.in
AMC 7	Persistent Green Light-Emitting Phosphor-Incorporated Composites for Energy-Saving Applications	Dona Maria,, Subrata Das,, Sushanta K. Sahoo	subratadas.niist@csir.res.in
AMC 8	Persistent Blue Light-Emitting Garnet Phosphors for Anti- Counterfeiting Applications	Aiswarya Lakshmi, Sarangy Sreekumar, Subrata Das	physubrata@gmail.com
AMC 9	Study on Heat-Affected-Zone Cracking Susceptibility in ICNi- 4314-706 (XH43) Nickel-Based Superalloy	Rajendra Lakkipogu, Varsha Florist, Shubham Kumar, Ravi Ranjan Kumar, Rohit Kumar Gupta	raviranjana.dei@gmail.com
AMC 10	Optimisation of Post-Weld Heat Treatment in Ti6246 Alloy via Comparative Microstructural Evaluation of Weld and Parent Metal	Jalaja.K, Ranjith R, Manikandan P, Vivek R, Sushant K. Manwatkar, Sudarshan Rao Gundi, Anil Kumar V, Niraj Nayan, Satish Kumar Singh, Govind	jalajaerm@gmail.com
AMC 11	Interface Characterisation of Joints Realised through Solid- State Bonding Processes	Ranjith R, Lagudu Yerrinaidu, Jalaja.K, Sushant K. Manwatkar, Pravin Muneshwar, Anoop Kumar Shukla, Satish Kumar Singh, Govind	ranjithvssc@gmail.com
AMC 12	Residual Strength and Apparent Fracture Toughness of AA2219- T87 Using Surface-Crack Tension Specimens	Ankita Waghmare, Sudarshan Rao Gundi, Manikandan P, Govind	g_sudarshan@vssc.gov.in

Metal Joining Technologies

MJT | 35 Posters | 12 September 2026 | 15:30-17:00 h

Code	Main Title	Authors	Corresponding Email ID
MJT 1	Mechanical and Microstructural Characterization of AISI 202 Stainless Steel Braze Joint used in Rocket Cryogenic Engine	Santhoshkumar R, Bhavishya Naik, Bodasingi Thavitiraju, Antoni Prabhu, Chakravarthy P, Rohit Kumar Gupta	mettsanthosh@gmail.com
MJT 2	Diffusion Bonding Studies on Al6061 and SS316L for Biomedical Applications: Microstructure and Mechanical Properties Evaluation	Lohitha H N, Bhaskar H B, Manjunath Vatnalmath, Virupaxi Auradi	lohitha.h@gmail.com
MJT 3	Identification and Multi-Objective Optimization of Process Parameter Window for Friction Stir Welding of Aerospace-Grade AA7475 Alloy	T Cholairaj, Amala Justus Selvam	solairajmech335@gmail.com
MJT 4	Microstructure and Mechanical Characterization of Friction Stir Welded Al-5Mg/Al ₂ O ₃ Nanocomposites	N. Kishore Babu*, Mahesh Kumar Talari	kishorebabu@nitw.ac.in
MJT 5	Studies on Multiple Weld Repairs in Gas Tungsten Arc Welding for AA2219 Aluminum Alloys	Ujjain Vaidya, Rohit Kr Jha, K. Ganeshpandiyam	ujjainpurushottamvaidya@gmail.com
MJT 6	Comparative Analysis of Ageing and Solutionizing Post Weld Heat Treatments on MDN 250 Maraging Steel Weldments Produced by Pulse-GMAW Technique	K. Thirumalaikannan, N. Babu , M. Manikandan	mano.manikandan@gmail.com
MJT 7	Effect of Soldering Flux and Thermal Ageing on Reflowed Sn-37Pb/Cu Substrate Interfacial Regions	Satyanarayan, Kumarswamy M C, Vrushibendra R K., Veerabhadrappe Algur, Suresh P S	satyan.nitk@gmail.com
MJT 8	Role of the Cold Deformation and Post-Weld Heat Treatment on the Electron Beam Welded Joints of Monel K500	Afroz Shaikh, Anoop S, Vibha Sharma, Ciju Paul, Chenna Krishna, Pravin Muneshwar	shaikhafroz3028@gmail.com
MJT 9	A study on Influence of tool Concave Shoulder Angle over Mechanical and Metallurgical Properties of Friction Stir Welded Aluminium alloy - AA2219	Kamalesh M, Murugan M, Ganesh Pandiyam K	kamaleshemail@gmail.com
MJT 10	Hydrogen Embrittlement studies of Gas-Tungsten Arc-Welded M250 Maraging Steels	Subha Sanket Panda, M. Agilan, P. Chakravarthy	subhasanketp.pdf@iist.ac.in
MJT 11	Microstructural Evolution and Mechanical Properties of Dissimilar High-Frequency TIG Butt-Welded Pure Aluminum and Al-Cu Alloy	Venkatesan D, Ramesh Kumar S, Naveen S, Ramesh G	srk1306@gmail.com
MJT 12	Thermo-Compression Bonding for Wafer-Level Packaging of Quartz-Based Low Frequency Filters for Space Applications	Shivendra Tripathi, Tushar Kant, Swapnil Thakare, Deepak Sharma, Rajkumar Maurya, Kilaru Surendranath, Prashant Varma, Santanu Sinha	shivendra@sac.isro.gov.in
MJT 13	Structure-Property Correlation in Dissimilar Rotary Friction Welded Nickel-Based Alloy Joints	Dyva Isac Premkumar Bandaru, N. Kishore Babu, Mahesh Kumar Talari1	bd23mmr1r01@student.nitw.ac.in
MJT 14	Tensile Properties and Microstructure Evolution in AA2050 Friction Stir Weld	M. Agilan, Pabitra Mohan Nayak, K. Jalaja, P. Manikandan, Aji M Abraham	agilan103@gmail.com
MJT 15	Effect of Coating Weight on Resistance Spot Weldability of Zn-Al-Mg Coated High- Strength Steel	Vineet Patel, Hitesh Kumar, Umesh Ahire, D Satish Kumar	vin3673.patel@gmail.com
MJT 16	Influence of Silicon Content and Welding Parameters on the Weldability of High-Silicon Electrical Steel Grades	Amarjeet Kumar Singh1*, D Satish Kumar1	amarjeet.singh1@jsw.in
MJT 17	Mechanical Properties, Microstructure and Corrosion Behaviour of AA2014 Gas Tungsten Arc Welds	Bishodeep Sardar, M. Agilan, Antony Prabhu, S. Anoop, P. Chakravarthy	itsbishodeep@gmail.com
MJT 18	Investigations on the Microstructural Evolution and Mechanical Properties of Monel 400 Special Alloy Autogenous Electron Beam Welds	Ciju Paul,, M. Agilan, P. Chakravarthy	cijupaul@gmail.com
MJT 19	Development and Qualification of Dissimilar Metal Friction Welded Bimetallic Joint of Titanium Alloy (Ti6Al4V-ELI) and Stainless Steel (ICSS-1218- 321) Using Al Interlayer for Space Applications	Karumajji Soma Sundar, Shubham Kumar, Sebastian PP, Varsha Florist, Ravi Ranjan Kumar, Debasis Tripathy, Rohit Kumar Gupta	karumalt12937@gmail.com
MJT 20	Surface Characterization and Corrosion Behaviour of Friction-Welded Dissimilar A6061 Aluminium Alloy and ASTM A106 Grade B Steel Joints	Sabu KT,, S Muthukumaran, Sunilkumar D	sunilkumar@mech.nits.ac.in
MJT 21	Microstructural Evolution, Crystallographic Characteristics, and Residual Stress Analysis of Dissimilar Laser-Welded Inconel 718 and Super Duplex Stainless Steel 2507 Joints	Anilkumar S, Anoj Giri	anoj.giri@vit.ac.in
MJT 22	Enhanced Microstructure, Mechanical Properties, and Corrosion Resistance of Copper- Reinforced Friction Stir Processed Al 8090 Alloy	Binu Thomas, P.S Sreejith	binuthomas@cusat.ac.in
MJT 23	Diffusion Bonding of Ti-6Al-4V Alloy to Interstitial-Free Steel and Low-Density Steel: Interface Microchemistry and Mechanical Response	Manil Raj, M.J.N.V. Prasad, K. Narasimhan	manilrajkr733@gmail.com
MJT 24	Dynamic Stability Assessment of a Micro Friction Stir Welding Machine through Operational Vibration and Modal Analysis	Anoop F R, Aliya Shaji, Basil Kuriachen	bk@nitc.ac.in
MJT 25	Comparative Evaluation of ERNiCr-3 and ERNiCrMo-3 Filler Metals on Dissimilar TIG Welding of Monel 400 and SS304L	Selvam. S, M. Manikandan	mano.manikandan@gmail.com
MJT 26	Correlation of Microstructure, Residual Stress Distribution, and Mechanical Properties of Electron Beam Welded Monel 400 Similar Joints	M PrardhanYogya, Selvam S, Arivazhagan N, Debasis Tripathy, K Somasundar, Ravi Ranjan Kumar and Manikandan M	manikandan.manoharan@vit.ac.in
MJT 27	Diffusion Bonding of a VT9 ($\alpha+\beta$) Titanium Alloy: Influence of Interlayer and Process Parameters	S M Jagadeesh Babu, M Sujata, Akshatha Preeth, Srinu Gangolu, Rahul Ramesh Kulkarni, Dasharath S M, D L Chen	babu.iitb2013@gmail.com
MJT 28	Electrically Conductive Adhesive for Electromagnetic Interference (EMI) Shielding	Akhil Kr. Poddar, Arvind Kumar, Jigar B. Limbachiya, Gyan Singh	akhil201215@sac.isro.gov.in
MJT 29	Experimental Study of the Corrosion Behavior and Mechanical characteristics of Dissimilar AA 6082 and 8011 using Friction Stir Welding	Sivabalan. S, Sridhar. R, Ajith Arul Daniel, Sathishkumar. G., J. Dineshkumar Pugazhenthí. R, Parthiban. A	parthibana83@gmail.com
MJT 30	Development of Dissimilar Metal Tubular Joints of Monel 400 to Inconel 718 for Aerospace Applications	Ravi Ranjan Kumar, Jithesh C, Varsha Florist, Athul P, Rohit Kumar Gupta	raviranjan.dei@gmail.com
MJT 31	Microstructural Evolution and Mechanical Integrity of Vacuum Diffusion-Bonded Cu-Cr- Nb/Stainless Steel Joints for High-Temperature Propulsion Applications	Hariprasath P, Anoop Kumar Shukla, Satish Kumar Singh, Govind Bajargan	hariprasath1406@gmail.com
MJT 32	Metamorphosis of the Microstructure at the Upper and Central Regions of Friction Stir Processed and Welded Ti-6Al-4V Alloy	Rajath N Rao, Shrikantha S Rao, Arun Kumar Shettigar, Vijeesh Vijayan	vijeeshv@nitte.edu.in
MJT 33	Analysis of Mechanical Property Variations in TIG-Repair Welds of Maraging Steel M250	Lagudu Yerrinaidu, Jalaja.K, Manikandan.P, Sushant K. Manwatkar, Sudarshan Rao Gundi, Satish Kumar Singh	lagudunaidu3@gmail.com
MJT 34	A Comparative Study on Metallurgical and Mechanical Behaviour of Wrought and Additively Manufactured Inconel 718 Gas Tungsten Arc Welds	S.V.S Madhuri	sreejamadhuri58@gmail.com
MJT 35	Influence of Corrosive Environments on the Microstructure and Lap Shear Strength of Ni Nanoparticles Reinforced SAC387 Solders	Hisham J Muhammed, K. Narayan Prabhu	knprabhu@nitk.edu.in