ABS ID	Mode of Presentation	Poster Title	Prefix	Full Name	Institurion/Affiliation	City		
	Friction Stir Welding							
194	Poster Presentation + Flash Talk (ORAL)	Optimization of friction stir welding process parameters to enhance the flexural strength in stir casted of metal matrix composites	Mr	G. Subhash	VNR Vignana Jyothi Institutute of Engineering and Technology	Hyderabad		
19	Poster Presentation + Flash Talk (ORAL)	Influence of Tool Pin Profile and Reinforcement Particles on the Corrosion Characteristics of Friction Stir Welded AA5052	Mr	Vishnu Venugopal	National Institute of Technology	Calicut		
20	Poster Presentation + Flash Talk (ORAL)	Influence of FSW Tool Pin Profiles on Fatigue Life: A Computational and Experimental Approach Considering Residual Stress	Mr	Anoop F R	National Institute of Technology	Calicut		
23	Poster Presentation + Flash Talk (ORAL)	A Review of Developments in Portable Friction Stir Welding (FSW) Equipment for Onsite Applications	Mr	Anantharam G S	National Institute of Technology	Calicut		
30	Poster Presentation + Flash Talk (ORAL)	Experimental Investigation and Analysis of Friction Stir Welding of Al 65032 Plates Using a Butt Joint Configuration	Mr	Pawan Prakash	Indian Institute of Technology (Indian School of Mines)	Dhanbad		
59	Poster Presentation + Flash Talk (ORAL)	A REVIEW ON THE EFFECT OF MULTI-PASS FRICTION STIR WELDING (FSW)	Mr	Narayan Alias Amey Shivaji Gauns	Agnel Institute of Technology and Design - Assagao Bardez	Anjuna Goa		
91	Poster Presentation + Flash Talk (ORAL)	Exploring Sustainable Aluminum Sheet Scrap Recycling via Friction Stir Welding: A Feasibility Study Toward a Circular Economy	Dr	Kaushik Bandyopadhyay	IIT Bhilai	Durg		
105	Poster Presentation + Flash Talk (ORAL)	Fatigue crack growth rate behaviour of friction stir welded AA6061-T651 aluminium alloys and base metal: A comparison	Mr	Hemendra Kumar Srivastava	Annamalai Unversity	Chidambaram		

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146	Poster Presentation + Flash Talk (ORAL)	Yield Locus Characterization of FSW AA2219-T87 Using Modified Cruciform Specimens: Comparison with TIG Welds and Base Material	Ms	Priya Tiwari	Indian Institute of Technology, Bombay	Mumbai	
236	Poster Presentation	Thermal and Microstructural Analysis of Friction Stir Welding on High Strength Aluminum alloys for Aerospace applications	Mr.	Malav Chavda(Rushil Shah)	Silveroak University, Ahemdabad	Gujarat	
238	Poster Presentation	Process-Driven Microstructural Evolution and Its Impact on Strength and Electrochemical Corrosion in Dissimilar FSW AA5052–AZ31 Joints	Mr.	Deepak Kumar	Indian Institute of Petroleum and Energy	Vizag	
244	Poster Presentation	Investigation on microstructure and mechanical properties of ironâ€″nickel-based superalloy joints by using rotary friction welding	Mr.	BANDARU DYVA ISAC PREMKUMAR	NIT Warangal	Warangal	
215	Poster Presentation	Smart Tooling and Material Engineering in Friction Stir Welding: A Review of Innovations Driving High-Performance Joints	Mrs	NOWSATH BEGAM MY	SRM Institute of Science and Technology	Tiruchirappalli	
PO-02	Poster Presentation	Friction stir welding of aluminium using zinc strip as a filler material	Mr	Cheekati Abhishek	Indian Institute of Technology	Patna	
	Friction Stir Processing						
54	Poster Presentation + Flash Talk (ORAL)	Characterization of the wire produced from aluminium scrap through friction stir extrusion process	Mr	Jaya kumar Sankar	Vellore Institute of Technology	Chennai	
61	Poster Presentation + Flash Talk (ORAL)	Experimental and Statistical Analysis of Friction Stir Processing Parameters for Improved Microstructure and Mechanical Properties of Aluminum alloy	Ms	Sujata Sahoo	Indian Institute of Technology	Dharwad	

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82	Poster Presentation + Flash Talk (ORAL)	Enhancement of mechanical properties of AZ31 magnesium alloy through friction stir processing	Mr	Vishnukant	NITK Surathkal	Mangalore
17	Poster Presentation + Flash Talk (ORAL)	Microstructural Evolution and Enhanced Corrosion Resistance of EN24 Steel Processed by Friction stir	Mr	Rajnish Mishra	Indian Institute of Technology Patna	Patna
28	Poster Presentation + Flash Talk (ORAL)	Study of gradient microstructure and its mechanical characteristics by friction stir processing in Al-Mg-Sc alloy (AA5024) after thermal annealing	Mr	Praveen Kumar	IIT Bombay	Mumbai
107	Poster Presentation + Flash Talk (ORAL)	Effect of Friction Stir Processing on the Tensile, Corrosion and Wear Properties of SLM Fabricated Ti6Al4V Alloy	Mr	Md Parwez Alam	Indian Institute of Technology	Patna
71	Poster Presentation	Impact of varying tool rotational speed on Elastic modulus of Zn-Mn alloys processed by friction stir processing	Mr	Uday Kumar V	National Institute of Technology Warangal	Hanamkonda
247	Poster Presentation	Towards understanding the structure-property evolution mechanisms in wrought-to-printed and printed-to-printed linear friction welded Ti alloy near net blanks for aerospace applications	Mr	Mohan Raj Pandiyan	Indian Institute of Technology	Palakkad
PO-01	Poster Presentation	Microstructure, mechanical properties and thermal stability of Al-Fe composite processed by friction stir processing	Ms	Malothu Madhu	Indian Institute of Technology	Patna
258	Poster Presentation	Influence of Multi-Pass Friction Stir Processing on the Microstructural Evolution and Mechanical Performance of Aluminum-Based Polymer- Derived Ceramic Composites	Mrs	Bindu Gutta	IISc	Bangalore
259	Poster Presentation	Large strain deformation of pure magnesium using HPCRS	Ms.	Sanika Abhijit Paranjape	IISc	Bangalore

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	Friction Surfacing								
4	Poster Presentation + Flash Talk (ORAL)	Electrochemical Corrosion Analysis of Aluminum 6061 deposited on Steel Substrate using Friction Surfacing	Mr	Mo Rizwan Ahmad Qureshi	Indian Institute of Technology	Gandhinagar			
7	Poster Presentation + Flash Talk (ORAL)	Development of the Heat Transfer and Material Flow Model for the Friction Stir Deposition of Dissimilar Alloys	Ms	Prachi Sharma	Indian Institute of Technology	Gandhinagar			
117	Poster Presentation + Flash Talk (ORAL)	Investigation of Microstructural and Mechanical Performance of Additively Manufactured Steel Structures via Multi-Layer Friction Surfacing (MLFS)	Prof	Nirmal Kumar Singh	IIT(ISM) Dhanbad	Jharkhand			
		Solid State Additive Manu	factuing						
208	Poster Presentation + Flash Talk (ORAL)	Mechanical and Microstructural Properties of Ceria-Stabilized Zirconia and Polymer-Derived Ceramic Reinforced AA7075 Composites Fabricated Through Friction Stir Powder Additive Manufacturing (FSPAM) Process	Mr	Nisar Ahamad Khan	Indian Institute of Technology Tirupati	Tirupati			
48	Poster Presentation + Flash Talk (ORAL)	The effect of reheating during layer-wise addition in friction stir additive manufacturing (FSAM) of AA2024 on microstructure and mechanical properties	Mr	Pilli Jaya Teja	Indian Institute of Technology Bhilai	Bhilai			
187	Poster Presentation + Flash Talk (ORAL)	The Current State of Materials Used in Friction-Based Additive Manufacturing for Dental Crowns: Limitations, Opportunities, and Future Trends	Mr	Ratnakar Lande	G. H. Raisoni College of Engineering and Management	Nagpur			
200	Poster Presentation + Flash Talk (ORAL)	Abnormal grain growth in Inconel 718 alloy fabricated by friction surfacing deposition additive manufacturing	Mr	Tej Prakash	Indian Institute of Technology Madras	Chennai			

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	Wear and Surface Engineering							
197	Poster Presentation + Flash Talk (ORAL)	Surface Finishing of Biodegradable Magnesium Alloy (ZE41A) using Viscoelastic Polymer Abrasive Tool : Effect of Interfacial Friction and Abrasion	Mr	Shanmuka Srinivas M	Indian Institute of Technology Tirupati	Tirupati		
41	Poster Presentation + Flash Talk (ORAL)	Evaluation of spray deposited water based friction modifiers for altering friction and wear at rail-wheel interface	Mr	Shreedhar Sahoo	Indian Institute of Technology	Kharagpur		
70	Poster Presentation + Flash Talk (ORAL)	Complementary Role of Solid Lubricants in Sintered Copper-Based Brake Composite Friction Material	Dr	Raja P	IIT Madras	Chennai		
104	Poster Presentation + Flash Talk (ORAL)	Microstructure, tensile, and wear properties evaluation of friction stir processed CNT-reinforced SLM fabricated AlSi10Mg	Mr	Mani Thakur	Indian Institute of Technology	Patna		
163	Poster Presentation + Flash Talk (ORAL)	Microstructure tailoring through shot peening for improved surface performance of WAAM-deposited mild steel	Mr	Prashant Veer	Indian Institute of Technology	Dharwad		
172	Poster Presentation + Flash Talk (ORAL)	Effect of Surface Roughness on Corrosion Behavior	Mr	Syed Mahammad Shafi	Indian Institute of Technology Madras	Chennai		
195	Poster Presentation + Flash Talk (ORAL)	Tribo-Microstructural Evaluation of Titanium Grade 2 sheet under Polymeric and Carbon Based Nano-Solid Lubricants and its Influence on SPIF-Induced Surface Roughness for Biomedical Applications	Mr	Kundan Kumar Mehra	Dr B R Ambedkar National Institute of Technology Jalandhar	Jalandhar		
204	Poster Presentation + Flash Talk (ORAL)	Comparative study on Hot Air Jet Erosion Behavior of HVOF-Sprayed WC-Base Coatings on Boiler Tube Steel	Mr	Elango D	National Institute of Technology, Tiruchirappalli	Trichy		

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198	Poster Presentation + Flash Talk (ORAL)	Effect of Heat Treatment on Microstructure and Wear behaviour of AlxCoCrFeNi High Entropy Alloy	Mr	Sandeep K. Yadav	Defence Institute of Advanced Technology	Pune	
27	Poster Presentation	Microwave Hybrid Heating of Nickel-Based Alloys for Steel Cladding: A Review	Mr	Kuna Venkateswararao	IIT ISM Dhanbad	Dhanbad	
201	Poster Presentation	Effect of Calcium Addition on the Microstructural, Mechanical Properties and Wear Resistance of Zn-Al-Cu-Mg alloy via squeeze casting	Mr	Thiyagesan G	National Institute of Technology	Trichy	
242	Poster Presentation	Smart Monitoring and Prediction of Lubricant Degradation	Mr	Pavansudhan H	Indian Institute of Technology Madras	Chennai	
243	Poster Presentation	Experimental Study of Bearing Life Reduction under Combined Electrical and Mechanical Loads	Mr	Raghvendra Lodhi	Indian Institute of Technology Madras	Chennai	
97	Poster Presentation + Flash Talk (ORAL)	Wear and surface characteristics of additively manufactured and naturally aged blocks of SS-316	Mr	Vikas Kumar Singh	Indian Institute of Science (IISc)	Bengaluru	
PO-03	Poster Presentation	Influence of WC reinforcement on the Wear Characteristics of AISI 316L WAAM Cladding on Medium Carbon Steel	Mr	Saptarshi Saha	Jadavpur University	West Bengal	
	AI/ML in Friction Based Processes						
69	Poster Presentation + Flash Talk (ORAL)	Hybrid Physics-based Machine Learning Framework for Friction Stir Welding: Predicting UTS in AISI 321â€"Al 65032 Welds	Mrs	Ankita Mistri	IIT(ISM) Dhanbad	Dhanbad	

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154	Poster Presentation + Flash Talk (ORAL)	Machine Learning-Based Prediction and Optimization of Friction Stir Processing in casted Aluminum Plates	Mr	Vinayaka E Bodur	IIT Dharwad	Dharwad		
	Soft Material Processing							
176	Poster Presentation + Flash Talk (ORAL)	Mechanism and Control of a Strength-Boosting Wearable Device	Mrs	Drush Subbaiah	Ramaiah Institute of Technology	Bengaluru		
184	Poster Presentation + Flash Talk (ORAL)	Dynamic Mechanical Analysis of Acacia Nilotica Filler Blended PLA Based Bio Composite Using Bio/Medical Application	Dr	Sadhishkumar S	Mahendra Institute of Technology	Namakkal		
241	Poster Presentation	Effect of Infill Geometry and Density on the Tensile Performance of PLA–Carbon Fiber Composites Processed by Fused Filament Fabrication Technique (FFF)	Dr	Satyabodh Raichur	Visvesvaraya Technological University, Belagavi	Bangalore		
		Solid State Processi	ng					
81	Poster Presentation + Flash Talk (ORAL)	Development of High Pressure Compressive Reverse Shearing, a new severe plastic deformation process	Mr	Govind Kumar	Indian Institute of Science	Karnataka		
6	Poster Presentation + Flash Talk (ORAL)	Spheroidization trend of secondary thermo-mechanically processed Ti-6Al-2Mo-4Sn-2Zr (Ti-6242) alloy	Ms	Saumya Gupta	IIT Kharagpur	Kharagpur		
217	Poster Presentation	Solid-state joining of copper and stainless steel by electromagnetic force	Mr	Amit Bhargav	MANIT Bhopal	Bhopal		

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ABS ID	Mode of Presentation	Poster Title	Prefix	Full Name	Institurion/Affiliation	City
88	Poster Presentation	"Friction Riveting: A Critical Analysis of Process Parameters, Material Compatibility and Performance"	Dr	Akshay Ganpat Tajane	VIT,PUne	Nashik
227	Poster Presentation	The process of microstructural evolution during linear friction welding of Ti6Al4V alloy	Dr	Prachant Hullani	Indian Institute of Science, Bangalore	Bangalore
223	Poster Presentation	Microstructural engineering and its role on strain gradient plasticity during V-bending of magnesium sheets	Dr	Sourav Mishra	Indian Institute of Technology, Madras	Chennai
222	Poster Presentation	Fatigue Life Prediction of Laminated Bi-layered (Mg/Al) and Tri-layered (Al/Mg/Al) Clad Sheets	Mr	Rahul Srivastava	IIT Madras	Chennai
226	Poster Presentation	Microstructure, texture, and mechanical properties of Al sheets, produced by room temperature consolidation of powder by HPCRS	Dr	Nikhil T G	IISc	Bangalore