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P001	TEMPIN168	Ms. SHRUTI SHARMA	Optimized post-treatment conditions to establish desired microstructure and mechanical strength in DED-built 17-4 Ar PH SS	Additive Manufacturing
P002	TEMPIP199	Ms. Ipsita MOHANTY	Effect of β -phase stabilizing elements on microstructural and mechanical properties of Ti64 alloy using laser based additive manufacturing	Additive Manufacturing
P003	TEMPIR292	Prof. Ram Chandra Prasad	Mechanical Properties and Fracture characteristics of 3D Printed PLA	Additive Manufacturing
P004	TEMPIP335	Mr. Gowtham Nimmal Haribabu	Process map development for Additive Manufacturing (DED & L-PBF) and melt pool modeling using machine learning	Additive Manufacturing
P005	TEMPIP350	Mr. Jaydeep Vishwakarma	High temperature tensile behavior of maraging steel processed by PBF-LB in different build orientations	Additive Manufacturing
P006	TEMPIP427	Ms. Nivatha Elangovan	Engineering microstructural evolution during arc wire additive manufacturing of magnesium alloy AZ31	Additive Manufacturing
P007	TEMPIP430	Mr. Mohit Singh	Development of process map for customized directed energy deposition machine for SS316L based on clad geometry	Additive Manufacturing
P008	TEMPIP613	Ms. Neelima Devi Guduru	Cold Spraying: An Emerging Technique for Additive Manufacturing and Near Net Shaping	Additive Manufacturing
P009	TEMPIN631	Dr. Madhu H C	Microstructural and Mechanical Characterization of Heat-treated Laser Powder Bed Fusion Built Nickel-based Superalloy Components	Additive Manufacturing
P010	TEMPIP341	Mr. Sarath Chandra Reddy Karumudi	High temperature creep properties of heat treated IN939 alloy fabricated by Laser Powder Bed Fusion	Additive Manufacturing
P011	TEMPIP644	Ms. INDU KOLAPALLI	Microstructural and Mechanical Characterization of Additively Manufactured XH 67	Additive Manufacturing
P012	A2022IP016	Mr. Vedanth Bhatnagar	Microstructure and Mechanical Properties of an Al-Fe-Cr-Ti alloy Manufactured Using Laser Powder Bed Fusion	Additive Manufacturing
P013	TEMPFP639	Mr. Bibek Das	High Throughput Bending Creep Testing of A205 Aluminium Alloy Fabricated by Laser Powder Bed Fusion.	Additive Manufacturing
P014	TEMPIU224	Ms. Haeshini Jegan	Modelling segregation during metal additive manufacturing	Additive Manufacturing
P015	TEMPIP721	Mr. Ajay V	Anisotropy in fatigue crack propagation behaviour of wire arc additive manufactured SS 316L	Additive Manufacturing
P016	TEMPIP461	Mr. PRANAV RAI	Surface crack repair of metallic materials through friction surfacing	Additive Manufacturing
P017	TEMPIP783	Mr. SUBHENDU NASKAR	Effect of heat treatments on elevated temperature microstructure and mechanical properties of Inconel 718 fabricated via Selective Laser Melting	Additive Manufacturing
P018	TEMPIP828	Mr. Rohit Singh	Fabrication of internally cooled cutting insert tool by rapid tooling	Additive Manufacturing
P019	TEMPIM374	Mr. Vinod Kumar Janagam	Effect of Heat Treatment on microstructure and mechanical properties of DED 3D printed Ti6Al4V	Additive Manufacturing
P020	TEMPIP975	Mr. Aditya Pandey	Effect of Marangoni convection on molten pool formation during selective laser melting process of IN718 alloy	Additive Manufacturing
P021	TEMPIP646	Mr. Mergoju Srikanth	Effect of Processing Parameters on relative density and microstructural changes of Selective Laser Melted Commercially Pure Titanium	Additive Manufacturing
P022	TEMPIN1020	Mr. Abhishek Raj	Characterization of Metal Powders to Evaluate Their Suitability for Additive Manufacturing	Additive Manufacturing
P023	TEMPIP626	Mr. LITTON BHANADARI	A study on fatigue performance of SLM Ti6Al4V alloy	Additive Manufacturing
P024	TEMPIP992	Mr. V S Hariharan	Tailoring the crystallographic texture of additively manufactured Haynes 282 through laser scan rotation modification : Simulation and Experiments	Additive Manufacturing
P025	TEMPIP429	Mr. SAI CHARAN BONAGIRI	Effect of heat treatment on the selective laser melted aluminium alloy AlSi10Mg	Additive Manufacturing
P026	TEMPIN1096	Mr. Uday Pratap Singh	Thermo-Mechanical Approach To Study The Residual Stress Evolution In Part-Scale Component During Laser Additive Manufacturing Of Alloy-718	Additive Manufacturing
P027	TEMPIN768	Ms. AMRITA DIXIT	Model-based study of laser interaction with the powder bed during the additive manufacturing process	Additive Manufacturing
P028	TEMPIM179	Ms. Tishta Das	Microstructural evaluation of multilayer SS 316L: Laser based and wire based direct energy deposition .	Additive Manufacturing
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P030	TEMPIP913	Mr. Vikas Tiwari	Effects of Scanning Speed on Microstructure and Microhardness of Laser Assisted Stellite 6 and Stellite 6/TiC Coating on SS316 substrate	Additive Manufacturing
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P035	TEMPIP108	Ms. Meghna Narayanan	Direct writing of reactive inks based on electroless nickel deposition on pure aluminium	Advanced Functional and Composite Materials

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P038	TEMPIP309	Ms. Bharathy Jacob	Correlation of Alloy Composition and Electronic Properties to Transformation Temperatures of Ti-Based Shape Memory Alloys by Regression Analysis	Advanced Functional and Composite Materials
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P045	TEMPIP594	Ms. Jenifer K	Indium-free highly stable transparent multilayer ZTO/Ag/ZTO thin film electrodes for optoelectronic applications	Advanced Functional and Composite Materials
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P051	TEMPIU755	Ms. Pranjali Khandare	Design of Shape Memory Alloy Hydraulic Couplings for Aerospace Application	Advanced Functional and Composite Materials
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P055	TEMPIM196	Dr. Arockia Kumar R Raju	Friction stir processing- a tool for developing functional materials	Advanced Functional and Composite Materials
P056	TEMPIM713	Mrs. SUJA P	High Density Copper Single Atom Catalyst on Graphitic Carbon Nitride for Multifunctional Applications	Advanced Functional and Composite Materials
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P059	TEMPIP916	Ms. Ipsita Madhu Mita Das	Development of novel aluminium alloy composites based on tungsten-based nanocrystalline dispersoids	Advanced Functional and Composite Materials
P060	TEMPIN924	Mr. SAI MANEESH	Effect of film thickness and buffer layer on Structural and Magnetization Behaviour of Fe-Ga Thin Films	Advanced Functional and Composite Materials
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P063	TEMPIN872	Mr. Vaibhav Verma	Correlating the Extent of Thermal Exfoliation of Graphene Oxide with Defect Structure, Dispersibility And Reinforcing Ability of Reduced Graphene Oxide in Glass Ceramics	Advanced Functional and Composite Materials
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P069	TEMPIN1079	Mr. Gautam Kumar	Polymer-assisted deposition of large area MoS2 thin film and its application as efficient SERS substrate	Advanced Functional and Composite Materials
P070	TEMPIP346	Mr. Ajay kumar Mishra	Comparison of the Mechanical Characteristics of Epoxy Resin Reinforced with Carbon Fiber under Various Fiber Orientations	Advanced Functional and Composite Materials

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P104	TEMPIP1069	Mr. Dhiman Mahata	Effects of Indium Addition on Corrosion Resistance of Nickel-Aluminium Bronze (NAB) alloy in 3.5 wt% NaCl solution	Corrosion and Oxidation of Metals and Alloys
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P124	TEMPIM1142	Mr. Srikanth Batna Batna	Raman spectroscopy as a tool for stress measurement in Thermal barrier	Damage, Material Degradation and Life Assessment and Non Destructive Evaluation
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P164	R2022U138	Dr. Shivkumar Khaple	Effect of Zr on Microstructure and Mechanical Properties of Ferritic lightweight steel	Ferrous Materials
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P166	TEMPIM963	Mr. SHARAT CHANDRA RACHURI	EFFECT OF TEMPERING TEMPERATURE AND TIME ON THE MECHANICAL PROPERTIES AND MICROSTRUCTURE OF AN HIGH STRENGTH LOW ALLOY (HSLA) STEEL	Ferrous Materials
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P175	TEMPIN1044	Mr. AYUSH KUMAR KHARETE	Improvement of surface quality of SS 316L: Effect of Silicon	Ferrous Materials
P176	TEMPIN1048	Mr. VITTAL RAO	Productivity Improvement in Blast Furnace#3, Durgapur Steel Plant	Ferrous Materials
P177	TEMPIM1051	Mr. Manu Raina	Steel-making practice to overcome the concern of cracking and Ti streaks in 321H Stainless Steel	Ferrous Materials
P178	TEMPIM162	Mr. Ravindra Malewar	Study on advanced bainite formation in 0.7C, 2Cr, 2Mn, 2Si, 2Ni, 0.5Mo steel	Ferrous Materials
P179	TEMPIN1062	Mr. Shivendra Kumar Dubey	Usage of new agglomerate at C Blast Furnace, Tata Steel Limited	Ferrous Materials
P180	TEMPIN1073	Mr. CHANDAN KUMAR	Concern of Edge cracking in 204Cu Stainless Steel during Hot Rolling: Role of Mould flux	Ferrous Materials
P181	TEMPIN1101	Mr. Mohammed Rasul Iqbal	Improving Spheroidisation in medium carbon steel for cold heading	Ferrous Materials
P182	TEMPIN1095	Mr. Ankit Kumar Agrawal	Reduction in the occurrence of boat scale defect at HSM	Ferrous Materials
P183	TEMPIN1104	Mr. Shivendra Kumar Dubey	Blow down and stack repair of E Blast Furnace, Tata Steel Limited	Ferrous Materials
P184	TEMPIM1137	Mr. Karan Khariyal	PCI coal diversification at JSW Blast Furnaces.	Ferrous Materials
P185	TEMPIN1171	Ms. Ventrapragada Bramaramba	Study of Wear Characteristics for Different Grades of DMS Ductile Iron	Ferrous Materials
P186	TEMPIN1140	Mr. Vinayak Gopal Vadagave	Reduction in banded scale marks on strip surface and to improve roll life	Ferrous Materials
P187	TEMPIN1180	Mr. I P Gupta Gupta	A Journey of Improvement in Coke Rate at F blast furnace Tata Steel, Jamshedpur India	Ferrous Materials
P188	TEMPIN1237	Mr. Tathagata Bhattacharya	Design of Oxygen Pipeline for enrichment of Cold Blast going to Blast Furnace Stoves - A case Study	Ferrous Materials
P189		Mr. Abhinandan Chatterjee	Process Stabilization of Electroslag Remelting Unit for Laboratory Study	Ferrous Materials
P190	TEMPIP111	Mr. Amit Kumar Singh	Characterization of charcoals produced from Acacia, Albizia and Leucaena for application in ironmaking	Green Production, Sustainability and Circular Economy
P191	TEMPIN264	Mr. Sandeep Singh	Reduction of Heat Loss in Reheating Furnace Through Veneering Modules	Green Production, Sustainability and Circular Economy
P192	TEMPIM324	Mr. Srisuman Kanamarlapudi	INTEGRATION OF SUSTAINABLE PRACTICES IN NON RECOVERY COKE OVEN	Green Production, Sustainability and Circular Economy
P193	TEMPIP340	Mr. Kuruva Harish	Valorization of mineralogical byproduct TiO2 using photocatalytic degradation of organo-sulfur industrial effluent	Green Production, Sustainability and Circular Economy
P194	TEMPIN154	Dr. AMIT BARNWAL	Recovery of Cu and Au from discarded mobile using mechanical and chemical processing	Green Production, Sustainability and Circular Economy
P195	TEMPIM397	Mr. sivalingaraju Barisetty	Effective recycling of steel plant dust and sludge through briquetting	Green Production, Sustainability and Circular Economy
P196	A2022IP026	Ms. Shaila Mir	A comparative analysis based on physical and chemical characterization of various types of motherboards	Green Production, Sustainability and Circular Economy
P197	TEMPIN362	Ms. Saziya Ahasan	Copper Staves Changing at G Blast Furnace, First Time in Tata Steel.	Green Production, Sustainability and Circular
P198	TEMPIM443	Mr. BABLU GHOSH	Studies on use of waste plastic in coke making	Green Production, Sustainability and Circular
P199	TEMPIM459	Mrs. suguna soumya varanasi	Pelletisation of ladle slag to increase its valorization potential	Green Production, Sustainability and Circular
P200	TEMPIU478	Ms. Priyadarshini Bais	Selective recovery of aluminium, lithium and cobalt from end-of-life li-ion batteries	Green Production, Sustainability and Circular
P201	TEMPIN504	Mr. Uttam Reddy Lingareddygari	Agglomeration of underutilized ferromanganese slag fines to use in silicomanganese production—A case for sustainable consumption and production in ferroalloy manufacturing facilities	Green Production, Sustainability and Circular Economy
P202	TEMPIN390	Mr. SANDEEP PRASAD	Sustainable utilization of spare parts in Coal processing plant.	Green Production, Sustainability and Circular Economy
P203	A2022IP025	Mrs. Neha Shukla	Microwave processing of spent fluorescent lamp phosphors for recovery of rare earth elements	Green Production, Sustainability and Circular Economy
P204	TEMPIP358	Mr. Sai Kiran	Recovery of valuable materials from End-of-Life crystalline Silicon Photovoltaic modules	Green Production, Sustainability and Circular
P205	TEMPIU683	Mr. kishor modalavalasa	Undiluted recycling of Automobile Aluminium	Green Production, Sustainability and Circular
P206	TEMPIN365	Mr. RADHA RAMAN ABHYUDAY	Reduction in CO2 emission at Tata Steel Blast Furnaces by new initiatives	Green Production, Sustainability and Circular

P207	TEMPIN704	Mr. Rajanikant jadhav	Recovery of Oxalic Acid from Sodium Oxalate Sludge	Green Production, Sustainability and Circular
P208	TEMPIP741	Mr. Rohit Jha	Exploring the environmental friendly pretreatment processing of waste printed circuit boards	Green Production, Sustainability and Circular
P209	TEMPIP703	Mr. SHAIK SALEEM	Recycling of Li-ion batteries for recovery of valuable materials through pyrometallurgical techniques	Green Production, Sustainability and Circular
P210	TEMPIU754	Mr. Sri Rishith Satya Surya Battula	COOLING CURVE ANALYSIS OF RECYCLED AUTOMOBILE ALUMINIUM ALLOY CONTAINING HIGH FE IMPURITY	Green Production, Sustainability and Circular
P211	TEMPIU831	Mr. Namburi GowriManikanta kumar	Heat treatment investigation in recycled aluminium alloy with excessive iron content	Green Production, Sustainability and Circular
P212	TEMPIU854	Mr. Souvik Banerjee	Development of Micro-Pelletization Process for Iron Bearing Industrial Wastes to Enable Recycling	Green Production, Sustainability and Circular
P213	TEMPIP849	Mrs. Pushpa Gautam	Facile recovery of Copper oxide nanostructures from discarded printed circuit boards of computer motherboards	Green Production, Sustainability and Circular
P214	TEMPIU851	Mr. PIKU HAIT	Fly Ash bricks	Green Production, Sustainability and Circular
P215	TEMPIU863	Mrs. Rinku Dey	Development of Solid Waste Composite Brick for Recycling in Blast Furnace	Green Production, Sustainability and Circular
P216	TEMPIU892	Mr. Pritha Sarkar	Development of a Process on the Utilization of LD Slag as Fertilizer	Green Production, Sustainability and Circular
P217	TEMPIP671	Ms. SATYASWINI SAHU	Recovery of mixed metal oxide from complex lithium-ion battery cathode material as promising catalyst for oxygen evolution reaction	Green Production, Sustainability and Circular Economy
P218	TEMPIM978	Mr. Krushna Kumbhar	Recycling of CM247 LC Ni-Base Superalloy for Aerofoil Castings of Gas Turbine Engines	Green Production, Sustainability and Circular Economy
P219	A2022IN009	Dr. Sahithya Kandalam	The Road to Sustainable Electrical Products – an Industry Perspective	Green Production, Sustainability and Circular Economy
P220	TEMPIN867	Mr. M K GHOSH CHOUDHURY	AUDOS – Automatic Chemical Dosing at Waste Water Treatment Plant	Green Production, Sustainability and Circular Economy
P221	TEMPIP1036	Mr. Shubham Sharma	Recovery of precious and critical materials from Solar Interconnects	Green Production, Sustainability and Circular Economy
P222	TEMPIP984	Mr. Bhupendra Gehlot	Extraction of Solar Grade Silicon from end-of-life Si-based Solar Panels	Green Production, Sustainability and Circular Economy
P223	TEMPIN1084	Ms. Dhvani Purohit	Life Cycle Analysis of PCB Recycling in Cu-Smelter	Green Production, Sustainability and Circular
P224	TEMPIN1088	Mr. PRAVEEN TIKARE	An Exergy analysis of PCB recycling in secondary Cu Smelter	Green Production, Sustainability and Circular Economy
P225	TEMPIN1154	Ms. Anupma Arya	Use of comparative Life Cycle Assessment study in Construction	Green Production, Sustainability and Circular Economy
P226	TEMPIN259	Mr. V Madhu Babu	Influence of homogenization treatments on microstructure and mechanical properties of AlCrFeMoNbNi high-entropy alloy	High Entropy Materials
P227	A2022IP013	Mrs. NAGA LAKSHMI JANDHYALA	Structure-property correlations in NbW and NbWTi concentrated refractory alloys	High Entropy Materials
P228	TEMPIP285	Mr. Kishore Behera	Effect of C/Metal ratio on densification, microstructure and mechanical properties of (TiWTaMoV) _x high entropy carbide by reactive spark plasma sintering	High Entropy Materials
P229	A2022IU002	Mr. Tamaghna Chaudhuri	Study of phase formation in NbTiVZr refractory high entropy alloy.	High Entropy Materials
P230	TEMPIN536	Mr. Ram Jee Soni	Effect of Cr variation on (MoTaTiV) _{100-x} Cr _x Refractory High-Entropy Alloys	High Entropy Materials
P231	A2022IP024	Mr. Dharmendra Kumar Yadav	Microstructural and Electrochemical Characterization Fe ₂₀ Cr ₂₀ Mo ₂₀ Nb ₃₀ Ti ₁₀ Complex Concentrated Alloy	High Entropy Materials
P232	TEMPIP685	Mr. RITIK Jena	Heaes	High Entropy Materials
P233	A2022IP022	Mr. Sudhansu Maharana	Microstructural and phase evolution of Ni ₄₆ Al ₁₂ Co ₁₈ Cr ₈ Fe ₁₂ Mo ₄ high entropy alloy synthesized via mechanical alloying and spark plasma sintering	High Entropy Materials
P234	TEMPIN727	Mr. CHITRESH CHANDRA	Fabrication of WC based cemented carbides using CrMnFeCoNi high entropy alloy as a binder phase	High Entropy Materials
P235	TEMPIP632	Mr. Abhinav Dixit	Microstructure and Mechanical properties of novel (TiZrHf) ₉₈ Dy ₂ HCP High Entropy Alloy	High Entropy Materials
P236	TEMPIP800	Ms. AMBE RADHA	Microstructure design in Al _{0.2} CoCrFeNi high entropy alloy through heat treatment optimization	High Entropy Materials
P237	TEMPIP848	Ms. Priyanka Sharadrao Ninawe	Sintering of Ytria dispersed AlCoCrFeNi high entropy alloy	High Entropy Materials
P238	TEMPIN729	Mr. Reddy Kunda Siri Kiran Janardhana	Magnetic Properties of Electrodeposited FeCoNiCuZn High Entropy Alloy Thin Films	High Entropy Materials
P239	TEMPIP936	Mr. jitesh kumar	The Effect of Al Addition on Solid Solution Strengthening in CoCrFeMnNi: Experiment and Modelling	High Entropy Materials

P240	TEMPIP937	Mr. Bikash Tripathy	Microstructural Tailoring for Achieving Superior Mechanical Properties in a Cost-Effective AlCrFe ₂ Ni ₂ High Entropy Alloy	High Entropy Materials
P241	TEMPIN943	Mr. Ranjith Kumar Yedulapuram	High entropy spinel oxide nanoparticles derived from a facile synthesis for multifaceted applications	High Entropy Materials
P242	TEMPIU1001	Ms. Ashwini Dhothpelli	Development of entropy stabilized oxide ceramics for 5G dielectric resonator antennas	High Entropy Materials
P243	TEMPIP939	Mr. Priyatosh Pradhan	Equi-atomic TiVZrNbCr Refractory High Entropy Alloy: Synthesis, Characterization and Hydrogen Storage Properties	High Entropy Materials
P244	TEMPIP1068	Mr. Ashwani Gautam	Low-temperature synthesis and stability landscape of entropy stabilized oxide	High Entropy Materials
P245	TEMPIP784	Mr. SAIKUMAR KATTA	Effect of Working Pressure on (MoNbTaW) _N Thin Films Deposited by DC Magnetron Sputtering	High Entropy Materials
P246	TEMPIN1153	Mr. Subham Das	Effect of Nb on oxidation of CoCr ₂ -xFeNi ₂ .1Nbx high entropy alloys	High Entropy Materials
P247	TEMPIN1163	Ms. Syed Amuth U Rasool Qadri	Nitriding of equiatomic FeNiCo medium entropy alloy	High Entropy Materials
P248	TEMPIN1183	Ms. Sudepta Mukherjee	On the high temperature coarsening kinetics of γ' precipitates in a Ni-Al-Co-Cr-Ti FCC Complex Concentrated Superalloy	High Entropy Materials
P249	TEMPIP194	Mr. Rushikesh Muley	Development of Property Prediction Model for Hot Strip Mill Using Machine Learning Algorithms	ICME / AI / ML (Accelerated Materials Development)
P250	TEMPIP197	Mr. Rohit Vishwakarma	Development of Anomaly Detection and Process Optimization Model for Iron Ore Sintering Process	ICME / AI / ML (Accelerated Materials Development)
P251	TEMPIP319	Mr. Gowtham Nimmal Haribabu	A deep adversarial approach for Synthetic Microstructure Generation to Establish Process-structure Linkages	ICME / AI / ML (Accelerated Materials Development)
P252	TEMPIP348	Mr. Swaminathan Ganesan	Modelling of Functional Fatigue Behaviour of NiTi Shape Memory Alloy using ANN	ICME / AI / ML (Accelerated Materials Development)
P253	TEMPIM653	Dr. Nilesh Gurao	Understanding the effect of heat treatment on mechanical properties of direct metal laser sintered AlSi ₁₀ Mg using combinatorial synchrotron diffraction - constitutive modelling - crystal plasticity simulations approach	ICME / AI / ML (Accelerated Materials Development)
P254	A2022IU017	Ms. Shambhavi Dhagamwar	Prediction of Single Crystal Deformation using Machine Learning	ICME / AI / ML (Accelerated Materials Development)
P255	TEMPIP878	Mr. Vijith P	AI Guided Discovery of Star Block Copolymers using Monte Carlo Tree Search and Molecular Dynamics Simulations	ICME / AI / ML (Accelerated Materials Development)
P256	TEMPIM163	Mr. PAVAN KUMAR KNS	Accelerated discovery of Ni-Ti-Cu shape memory alloys with Multi-Objective Optimization of Transformation Temperature & Hysteresis using Artificial Neural Networks and Genetic Algorithm	ICME / AI / ML (Accelerated Materials Development)
P257	TEMPIM955	Ms. Dornala Spandana	Modeling & Prediction of Transformation Temperatures of NiTi based shape memory alloys using Artificial Neural Networks	ICME / AI / ML (Accelerated Materials Development)
P258	TEMPIP1060	Ms. VEDASRI BAI KHAVALA	Data-Driven Prediction of Transition Metal-based compounds as Oxygen Evolution Reaction Electrocatalysts	ICME / AI / ML (Accelerated Materials Development)
P259	TEMPIN1080	Mr. Abhijai V	Data-Driven Prediction of Transition Metal-based compounds as Oxygen Evolution Reaction Electrocatalysts	ICME / AI / ML (Accelerated Materials Development)
P260	TEMPIU1074	Mr. Gopal Kedia	Design and development of shape memory high and medium entropy alloys	ICME / AI / ML (Accelerated Materials Development)
P261	TEMPIN1165	Mr. Nikhil Chaurasia	A unique machine learning training methodology for phase segmentation in microstructures	ICME / AI / ML (Accelerated Materials Development)
P262	TEMPIN600	Mr. GEDELA PRAVEEN	Steel Ladle Tracking system to Enhance Production in Steel Melt Shop (SMS)	Industry 4.0
P263	TEMPIM624	Ms. Archana Sharan	Digitalized Yard Management for Steel Wire and Rod Processing Unit	Industry 4.0
P264	TEMPIN690	Mr. Prashant Kumar	Hydraulic System Failure Prediction Through Data Science Models	Industry 4.0
P265	TEMPIN788	Mr. Ravi Shanker Pandey	Process Modelling in Blast Furnace at ISP	Industry 4.0
P266	TEMPIN879	Mr. Durgesh Shukla	Optimization of Stove Operation Using Data-Driven Approach to Maximize Hot Blast Temperature in Blast Furnace	Industry 4.0
P267	TEMPIN933	Mr. Uma Sankar Sahoo	A Method To Improve Blast Furnace Stability Using AI Driven Blowing Parameter Recommendation System	Industry 4.0
P268	TEMPIN1019	Mr. Anupam Srivastav	Soft Sensing of Solution Loss Carbon to Maximise Coke Productivity & Optimise Power Generation	Industry 4.0
P269	TEMPIN1038	Mr. Pranay Ranjan	Digitalisation at LD#3 Thin slab caster to achieve benchmark performance	Industry 4.0
P270	TEMPIN655	Mr. Wasib Qadri	Mathematical Model for Enabling Untrimmed Rolling in TSCR by Machine Learning Approach	Industry 4.0
P271	TEMPIN858	Mr. Auropratik Mohanty	Minimization of Surface Defect in Cold Rolled Cr-Mn Austenitic Stainless Steel	Industry 4.0
P272	TEMPIP1052	Mr. Sheshang Singh Chandel	Physicochemistry facet and toxicity review of Electric Arc Furnace Slag	Industry 4.0
P273	TEMPIN967	Ms. Pooja Sabnani	Stabilizing blast furnace operation enabled by quick diagnosis of heat loss	Industry 4.0
P274	TEMPIN1125	Mr. K Akshay	Process Improvement using Radar Based Slope Angle Probe at Sinter Plant	Industry 4.0
P275	TEMPIP155	Mr. Mohsin Hasan	High cycle fatigue properties of inductive heat treated SAE 9254	Lightweighting and Materials for Next Generation Transportation/Automobiles

P276	TEMPIM425	Mr. Nema Gorain	Development of a leaner steel with 20GPa% strength & ductility product	Lightweighting and Materials for Next Generation Transportation/Automobiles
P277	TEMPIP736	Mr. Sudipta Mohapatra	Effect of strain rate and interrupted tensile straining on the mechanical stability of reverted austenite of intercritically annealed medium manganese steel	Lightweighting and Materials for Next Generation Transportation/Automobiles
P278	TEMPIP343	Mr. Merugu Rakesh	Effects of in situ Al ₃ Ti and Al ₃ Zr Composite Particles on Stabilization and Properties of Al Foams	Lightweighting and Materials for Next Generation Transportation/Automobiles
P279	TEMPIN807	Mr. Vikas Marakini	Milling induced surface integrity investigation in Al-Li alloy	Lightweighting and Materials for Next Generation Transportation/Automobiles
P280	A2022IP010	Mr. Chakravarthula Gopi krishna	Influence of PWHT on the microstructure and mechanical properties of TIG welded DP 780 steel	Lightweighting and Materials for Next Generation Transportation/Automobiles
P281	TEMPIM861	Ms. R Krithika	Stabilization of UNS S32205 Duplex Stainless Steel: A quality concern	Lightweighting and Materials for Next Generation Transportation/Automobiles
P282	TEMPIN399	Mr. NELLUTLA SAHITHYU	Influence of micro addition on microstructure and mechanical strength of Al-Ce based alloys	Lightweighting and Materials for Next Generation Transportation/Automobiles
P283	TEMPIU910	Mr. NELLUTLA SAHITHYU	Influence of micro addition on microstructure and mechanical strength of Al-Ce based alloys	Lightweighting and Materials for Next Generation Transportation/Automobiles
P284	TEMPIN971	Mr. VIKASH KUMAR	Deposition of Nanocrystalline Diamond film from Hot-filament CVD system on silicon substrate at low temperature using acetylene and hydrogen mixture in rich argon environment	Lightweighting and Materials for Next Generation Transportation/Automobiles
P285	TEMPIM1013	Dr. Parijat Pallab Jana	Investigation on microstructure and thermo-mechanical properties of squeeze cast Al-Si Alloys	Lightweighting and Materials for Next Generation Transportation/Automobiles
P286	TEMPIN1047	Mr. Gourav Mundhra	Microstructural development, mechanical properties, and phase stability of novel rapidly quenched Al-Ti-Ta light-weight alloy	Lightweighting and Materials for Next Generation Transportation/Automobiles
P287	TEMPIN1167	Mr. PAVAN KUMAR RAJAVARAPU	Design and characterization of high strength Austenite based low density duplex steel for automotive applications	Lightweighting and Materials for Next Generation Transportation/Automobiles
P288	TEMPIU806	Mr. KAKUMANU ABHISHEK	Effect of heat treatment on Al-Ce alloy after addition Si and Mg	Lightweighting and Materials for Next Generation Transportation/Automobiles
P289	TEMPIU640	Mr. RUPESH KRISHNA KRISHNAPURAM	High temperature performance of Al-Ce-Si ternary with small addition of Sc.	Lightweighting and Materials for Next Generation Transportation/Automobiles
P290	TEMPIN289	Mr. Ranga Rao B	Analytical Method for Quick Measurement of Elemental Composition in the Copper Dust & Aluminum Chlorohydrate by Xray-Spectroscopy	Materials Characterization
P291	TEMPIN342	Mr. Tarun Babu Mangalarapu	Precipitation behavior of Al-7075 powder in comparison to bulk using SAXS	Materials Characterization
P292	TEMPIN246	Mr. Argha Dutta	Study the effect of irradiation on the pre-existing defects in Nb-1Zr-0.1C	Materials Characterization
P293	TEMPIN441	Dr. DURGA PRASAD	The origin of strain partition in multi-phase steel: Application of 3-D microstructure	Materials Characterization
P294	TEMPIP547	Mr. Anil Kumar Reddy C	Experimental Study On Machining Characteristics of CMSX-4 NiL Alloy In AWJM	Materials Characterization
P295	A2022IP029	Mr. B N V S Ganesh Gupta K	Effect of MWCNTs on mechanical performance of adhesively bonded composite single-lap joints: An assessment on in-situ temperature variation	Materials Characterization
P296	TEMPIP299	Mr. Shreshtha Ranjan	Response of shock induced deformation in CP-Titanium	Materials Characterization
P297	TEMPIP599	Dr. Bikash Kumar	Evolution of microstructure and mechanical properties of LPBF processed Mar-M 509 after short-cycle heat treatments	Materials Characterization
P298	TEMPIN719	Mr. Asutosh Acharya	Effect of Particle Size of Aluminum Tri Hydrate (ATH) on its Colour and Thermal Properties	Materials Characterization
P299	TEMPIP708	Mr. RAHUL CHAURASIYA	Structure Properties Co-relation of Advance high strength steel	Materials Characterization
P300	TEMPIP758	Mr. SAGAR DAS	Tribological behaviour of Al-Cu-Ni alloys with and without microalloying	Materials Characterization
P301	TEMPIP767	Mr. Peddiraju V S Vivek Chaitanya	Phase separation in small scale structures fabricated by FIB milling of Ag – Cu thin films	Materials Characterization
P302	TEMPIM110	Mr. ABDUL GAFFAR	Effect of grain size on deformation behavior of Armco Iron under dynamic loading conditions	Materials Characterization
P303	TEMPIM483	Dr. Suresh Koppoju	Microstructure of gas atomized powders and cold sprayed coatings of aluminium alloys	Materials Characterization
P304	TEMPIP539	Mr. AMAR MAHATO	Development of Cu-Zr alloys by Mechanical alloying	Materials Characterization
P305	TEMPIP864	Mr. MAHESH Katakam	Microstructure Evolution during Constrained Groove Pressing of Metastable β -21S Titanium Alloy	Materials Characterization

P306	TEMPIN610	Mr. DHEERAVATH RATHIRAM NAIK	NEW TECHNIQUE FOR REVEALING OF PRIOR AUSTENITIC GRAIN BOUNDARIES IN PRECIPITATION HARDENED MARTENSITIC STEEL FOR GRAIN SIZE MEASUREMENT	Materials Characterization
P307	TEMPIN902	Mr. Sarbeswar Das	Effect of lattice strain on crystallite size during mechanically alloying of Cu-Cr alloys at different milling hours	Materials Characterization
P308	TEMPIP966	Mr. Pawan Rohith Senivarapu A	A Study on the effect of laser shock peening on the near-surface microstructure and mechanical properties of solution annealed IN718	Materials Characterization
P309	TEMPIM970	Ms. Bhavana Unikela	X-ray diffraction Rietveld analysis of aged Alloy 617	Materials Characterization
P310	TEMPIM1024	Mr. V V V S SUBBARAO	Analytical method for chemical analysis of recycled Nickel base superalloy	Materials Characterization
P311	TEMPIP1027	Mr. Ashish Thakur	Synthesis of fine-grained cast Al-alloys using novel Al-MgAl ₂ O ₄ master alloys via ultrasonically treated stir casting route	Materials Characterization
P312	TEMPIP1003	Mr. T ARUN KETAN	Synthesis of Barium Hexaferrite Template and Characterisation for Structural and Microstructural Properties	Materials Characterization
P313	TEMPIN1042	Mr. Basant Rath	Influence of Geological Conditions on Formation of Goethite	Materials Characterization
P314	TEMPIN1035	Ms. Sneha Dandekar	Processing segment for PET/PBT Blends at sub-zero temperatures to enhance the Structural, Interfacial and Mechanical Performance	Materials Characterization
P315	TEMPIP583	Ms. Gauri Waghmare	Oxidation behaviour of ytterbium silicate EBCs fabricated using slurry spraying-reactive sintering technique.	Materials Characterization
P316	TEMPIU882	Mr. Vikram Hastak	Understanding the phase evolution on aging of YSZ powders and pellets above and below the T _{0(c/t)} temperature	Materials Characterization
P317	TEMPIP1061	Mr. Vaibhav Gaur	Effect of deformation on mechanical properties and lattice parameters in Ti-6Al-4V through cryo rolling	Materials Characterization
P318	TEMPIN1082	Mr. Rameez Tamboli	Beneficial effects of Aluminum Addition in Interstitial Free Steel	Materials Characterization
P319	TEMPIN1090	Mr. Kartikey Sharma	Microstructure evolution and mechanical properties of cold rolled C-103 sheets annealed under different conditions	Materials Characterization
P320	TEMPIN1108	Ms. KAKUNURI ROHINI	Grain growth texture and microstructure of non oriented electrical steel	Materials Characterization
P321	TEMPIN1081	Mr. AMIT MONDAL	Sample preparation technique for chemical analysis of Cast Iron: An innovative design and development journey	Materials Characterization
P322	TEMPIN1151	Mr. Rohan Modi	Thermo-mechanically rolled heavy plates for high strength structural application	Materials Characterization
P323	TEMPIP1066	Mr. CHAVAN AKASH NAIK	Effect of initial cold rolled microstructure ferrite-pearlite/bainite martensite on intercritical annealing of advanced high strength steels	Materials Characterization
P324	TEMPIN1162	Ms. Anupama Kashyap	Plate-type carbonitrides development in ferrite matrix during nitrocarburizing of Fe-4 wt.% V alloy	Materials Characterization
P325	TEMPIN1170	Ms. Udita Singh	A Study on the Root Cause of Pin-Type Un-coated Spots in Continuous Galvanized Steel During Substitution of Lead to Antimony in Zinc Bath	Materials Characterization
P326	TEMPIN743	Dr. Luv Gurnani	Correlation between microstructure, stoichiometry, coherency strains and mechanical behavior of bulk polycrystalline MgO-based 'ceramic alloys'	Materials Characterization
P327	TEMPIP273	Mr. SK MD ARIF	Study the microstructure, hardness and tensile properties of low carbon micro alloyed steels processed through quenching & partitioning treatment	Materials Characterization
P328	TEMPIP318	Mr. Ganesh Chine	Synthesis and characterization of NMC811 cathode material for lithium-ion battery	Materials for Energy and Energy Storage
P329	A2022IP003	Mr. VEERA VENKATA RAMANA TATAVARTHI	Synthesis and characterization of binary chalcogenide Te/Se alloy nanowires for flexible thermoelectric applications	Materials for Energy and Energy Storage
P330	TEMPIN519	Dr. Mani Pujitha Illa	Boron substituted NASICON-structured Na ₃ Zr ₂ Si ₂ PO ₁₂ for all-solid-state sodium-ion batteries	Materials for Energy and Energy Storage
P331	TEMPIP569	Mr. Arghyadeep Sau	Surface modification of copper current collector to address the delamination issue of electrodeposited tin as active material in rechargeable Li-ion batteries during charge-discharge cycles	Materials for Energy and Energy Storage
P332	TEMPIP656	Mr. Pranay Gandharapu	Reduced Graphene Oxide Reinforced Faceted Antimony Particles for Next Generation Na-ion Batteries	Materials for Energy and Energy Storage
P333	TEMPIP643	Mr. S S Lokesh Vendra	Insights into the electrochemical performance of multiphase SiOC/C/NbC/Nb ₂ O ₅ for Li-ion batteries	Materials for Energy and Energy Storage
P334	TEMPIN707	Ms. Anagha Pradeep	High Rate-capable, Electrochemically Stable, and Safe Bi-phase Na-titanate based Composite Anode for Na-ion Batteries	Materials for Energy and Energy Storage
P335	TEMPIN312	Mr. SREENU GOMASU	Dielectric and Ferroelectric Characteristics of (BiFeO ₃)(1-x) –(CaTiO ₃) _x Lead-Free Ceramics for High-Temperature Energy Storage Application	Materials for Energy and Energy Storage
P336	TEMPIP735	Mr. Ankur Sharma	Insights into the effect of Zn-doped Layered Transition Metal (TM) Oxide cathode towards high voltage compositional-structural-mechanical stability as cathode material for Li-ion batteries	Materials for Energy and Energy Storage
P337	TEMPIP684	Ms. Rashmi Tripathi	Effect of Microstructure of Silicon Nanowire on the Electrochemical Performance in Li-ion Battery Anode	Materials for Energy and Energy Storage
P338	TEMPIN777	Mr. Malothu. Usha Rani RANI	A Novel bio-waste precursor derived activated carbon-MXene composite for high-performance supercapacitors	Materials for Energy and Energy Storage
P339	TEMPIN508	Mr. Antony Harison MC	Effect of thermal ageing on microstructure and mechanical properties of forged Nimonic 105 alloy	Materials for Energy and Energy Storage

P340	TEMPIP928	Mr. Kiran Kumar Garlapati	V2O5 anchored Ti3C2Tx composite for high-performance supercapacitors	Materials for Energy and Energy Storage
P341	TEMPIU931	Mr. Sahith Reddy Vadde	Development of Aluminium Battery	Materials for Energy and
P342	TEMPIN886	Ms. Gecil Evangeline T	Fabrication of rare earth doped Calcium Copper Titanium Oxide (CaCu3Ti4O12/CCTO) ceramic for high frequency applications by microwave sintering.	Materials for Energy and Energy Storage
P343	TEMPIN956	Mr. Vikas N P	Structural and Electrical characterization of SrMnO3 Thin Films deposited by pulsed laser deposition	Materials for Energy and Energy Storage
P344	TEMPIN981	Mr. Abhishek Kumar	An insight into BZT-BCT Lead-free Piezoelectric ceramic for Energy Harvesting Applications	Materials for Energy and Energy Storage
P345	TEMPIP990	Mr. Subhadeep Saha	Electrical Characterizations of Nd3+ substituted Bismuth Ferrite Ceramics for Energy Storage Applications	Materials for Energy and Energy Storage
P346	A2022IU027	Ms. Sushmita Kumari	Colossal dielectric permittivity in porous high-entropy oxides infiltrated with ionic liquids	Materials for Energy and Energy Storage
P347	TEMPIN1085	Mr. Raghunath Sharma Mukkavilli	One-step low temperature pathways to obtain self-supported TaCN / TaN as electrocatalysts for hydrogen evolution reaction (HER)	Materials for Energy and Energy Storage
P348	TEMPIP926	Mr. Mohd Aman	Bifunctional NiMn LDH Grassy Mat Porous Architecture for Accelerated Catalysis and Free-Standing Electrode Supercapacitor	Materials for Energy and Energy Storage
P349	TEMPIN1115	Mr. Sushobhan Kobi	Air Stable Cubic Li-La-zirconate (LLZO) based Solid Electrolyte for Solid State Lithium Metal Battery	Materials for Energy and Energy Storage
P350	TEMPIP903	Ms. URWASHI GUPTA	Synthesis of highly efficient and free standing Ni-Mo alloy electrocatalysts for water splitting through electro-deoxidation	Materials for Energy and Energy Storage
P351	TEMPIP115	Mr. ROOPCHAND TANDON	Friction Stir Processing of the AA7075T7352 Aluminum Alloy Microstructure Mechanical properties and Texture Characteristics	Materials Joining Technologies
P352	TEMPIP193	Mr. Suraj Wadekar	Investigation of Monel-400 to Inconel 718 dissimilar alloy GTA and EB welds	Materials Joining Technologies
P353	TEMPIN202	Mr. Hitesh Kumar	AUTOGENOUS DIODE LASER WELDING OF IRON-BASED SUPERALLOYS: A-286 and INCOLOY-800	Materials Joining Technologies
P354	TEMPIP221	Mr. Adarsh Kumar	Development of shielding set-up for gas tungsten arc welding of titanium alloys without using external shielding	Materials Joining Technologies
P355	R2022U118	Dr. Suresh Meshram	An investigation on fusion and solid state welding of Nickel-base super alloy C-276	Materials Joining Technologies
P356	TEMPIM167	Mr. Johny Varghese	Effect of section thickness on tensile properties of friction stir welded IN-RAFM steel plates	Materials Joining Technologies
P357	TEMPIP595	Mr. SACHIN BALBANDE	Mechanical behaviour of AISI 8620 steel modified using in-situ grown carbide through with tungsten inert gas arcing	Materials Joining Technologies
P358	TEMPIP295	Mr. Vamsi Krishna	Effect of welding speed and post weld heat treatment on microstructural and mechanical properties of gas tungsten arc welded Ti-15V-3Al-3Cr-3Sn joints	Materials Joining Technologies
P359	TEMPIU896	Mr. saravanan V	Heat Affected Zone Studies of Super Duplex Stainless Steel using Thermomechanical Simulation	Materials Joining Technologies
P360	TEMPIP1006	Ms. Athira K S	Effect of keyhole mode gas tungsten arc welding of Inconel 740H	Materials Joining Technologies
P361	TEMPIN1011	Mr. Sushan Deshmukh	Combined Microscopic study of inclusions and their effect on mechanical properties of 316L(N) weld metal	Materials Joining Technologies
P362	TEMPIP1041	Mr. NAGENDRA CHAKRAVARTHI POLAMARASETTY	Effect of Hydrogen addition in shielding gas in CP-Titanium welds	Materials Joining Technologies
P363	TEMPIR1148	Mr. Mohd Aqeel	Challenges in laser-based welding of thick-sectioned superalloy materials	Materials Joining Technologies
P364	A2022IP006	Mr. Aditya Kumar	Effect of Low-Pressure Carburizing on Fatigue Strength of AISI 8620 Steel Lower Insert used in Fuel Systems for Automotive Applications	Mechanical Behaviour of Metals and Alloys
P365	TEMPIN138	Mr. RATAN TOPPO	Abrasive, Erosive and Sliding Wear of a High Strength Martensitic Steels	Mechanical Behaviour of Metals and Alloys
P366	TEMPIP251	Mr. Sudarshan Palve	Influence of processing parameters and alloying elements in Astaloy 85Mo (FL-4405 modified) on their mechanical properties	Mechanical Behaviour of Metals and Alloys
P367	TEMPIM298	Mr. Ashit Prasad	Rejuvenation of Refractory Testing Equipment- The Design Strategies	Mechanical Behaviour of Metals and Alloys
P368	TEMPIN448	Mr. SHAHNAWAZ AHMAD AHMAD	EFFECT OF R-RATIO ON THRESHOLD STRESS INTENSITY FACTOR IN AN AERO ENGINE ALLOY	Mechanical Behaviour of Metals and Alloys
P369	TEMPIM486	Mr. ARBIND KUMAR AKELA	FORMABILITY ASSESSMENT OF HIGH SILICON GRADES STEEL	Mechanical Behaviour of Metals and Alloys
P370	A2022IU018	Mr. Ajay Kumar Kunarapu	Tensile deformation behaviour of dual phase FeMnAlC light weight austenitic steel	Mechanical Behaviour of Metals and Alloys
P371	TEMPIN563	Mr. Surajeet K. dutta	Case Study on Establishment of Heat Treatment Process of Forged Wheel	Mechanical Behaviour of Metals and Alloys
P372	TEMPIM437	Dr. M Sai Krishna Rao munjuluri	Structure Property Co-relation of a Nickel base wrought Superalloy EP 742 ID used for Turbine Applications	Mechanical Behaviour of Metals and Alloys
P373	TEMPIP334	Mr. Naveen Kumar Mindi	Mechanism of dislocation evolution in ratcheting-deformed 42CrMo4 steel	Mechanical Behaviour of Metals and Alloys
P374	TEMPIP710	Mrs. Harita Seekala	A unified approach to quantify the material and geometrical effects in indentation size effect	Mechanical Behaviour of Metals and Alloys
P375	TEMPIP404	Mr. Debabrat Dash	High temperature deformation behaviour of Hybrid 55 martensitic steel (HY55)	Mechanical Behaviour of Metals and Alloys

P376	TEMPIM498	Dr. Randhir Kumar Singh	Hot Deformation Behaviour of Nickel Base Superalloy Ni-24Cr-14W-0.5Ti: A study using processing maps	Mechanical Behaviour of Metals and Alloys
P377	TEMPIM730	Mr. ABHISHEK RASTOGI	Orientation dependence of stress-induced martensite formation during nanoindentation in metastable β Ti-10V-2Fe-3Al alloy	Mechanical Behaviour of Metals and Alloys
P378	TEMPIM752	Mr. PUSHPENDRA KUMAR DWIVEDI	Mechanism of Ratcheting Deformation of HSLA Steel in terms of Dislocation Density and Internal Stresses	Mechanical Behaviour of Metals and Alloys
P379	TEMPIN746	Mr. B ANANT SAGAR DEVABATINI	HIGH TEMPERATURE TENSILE BEHAVIOR OF A BETA TITANIUM ALLOY TIMETAL 21 S USED FOR AERONAUTICAL APPLICATIONS	Mechanical Behaviour of Metals and Alloys
P380	TEMPIP688	Ms. Priyanka Saini	Temperature dependence of pressure sensitivity in a bulk metallic glass composite	Mechanical Behaviour of Metals and Alloys
P381	TEMPIP852	Ms. Aravi Muzaffar	Insight into the architectural template dependence on superelasticity of Nitinol based single-layer porous metallic fibre network	Mechanical Behaviour of Metals and Alloys
P382	TEMPIN856	Mr. Abhijeet Anand	Evaluating the Mechanical Properties of a Near β Titanium alloy disc with Dual Microstructure	Mechanical Behaviour of Metals and Alloys
P383	TEMPIP698	Mr. Guntreddy Damodhar Naidu	The influence of aging on microstructure, hardness and low cycle fatigue behaviour of Haynes 282 alloy	Mechanical Behaviour of Metals and Alloys
P384	TEMPIP908	Mr. Rubal Dongarwar	Phase transformation in 316L Stainless Steel by Low Cycle Cryo-fatigue and its Reversion	Mechanical Behaviour of Metals and Alloys
P385	TEMPIP709	Mr. Karthick G	Effect of direct addition of nanocrystalline complex pyrochlores on mechanical behaviour of austenitic ODS SS316L steels	Mechanical Behaviour of Metals and Alloys
P386	TEMPIP914	Mr. Abhishek Kumar	High-Temperature Deformation of Additively Manufactured β/β' Ti-alloy with Heterogeneous Microstructure.	Mechanical Behaviour of Metals and Alloys
P387	TEMPIP935	Mr. Krishna Teja Challa	Creep Fatigue Crack Growth Studies of P 91 Steel	Mechanical Behaviour of Metals and Alloys
P388	TEMPIP820	Ms. Priya Tiwari	Mechanical and Microstructural Characterization of AA2219	Mechanical Behaviour of Metals and Alloys
P389	TEMPIM965	Mr. Hari Krishna	Strain Controlled Corrosion Fatigue Behaviour of an Experimental High Strength Low Alloy Steel	Mechanical Behaviour of Metals and Alloys
P390	TEMPIP973	Mr. Surajbhan Jaiswal	An experimental and crystal plasticity simulation study on the evolution of microstructure and texture during sequential multiaxial compression of Mg-0.5wt.% Ce	Mechanical Behaviour of Metals and Alloys
P391	TEMPIP1002	Mr. Peeyush Mahajan	Effect of T/D Ratio and Texture on the Formability of Thin SS304 Foils	Mechanical Behaviour of Metals and Alloys
P392	TEMPIP898	Ms. Swati Kumari	Effect of cold rolling and annealing temperatures on the microstructure and mechanical properties of FCC medium entropy alloy	Mechanical Behaviour of Metals and Alloys
P393	TEMPIN989	Mr. R DURAI PANDI	Influence of Load ratio on Fatigue Crack Growth (FCG) behaviour of SS316L (N)	Mechanical Behaviour of Metals and Alloys
P394	TEMPIN1106	Mr. B Ramkrishna Ramkrishna	Ballistic impact property evaluation of nanobainitic steel	Mechanical Behaviour of Metals and Alloys
P395	TEMPIN1109	Dr. Bimal Das	Uniaxial asymmetric stress controlled fatigue behaviour of SS 316L	Mechanical Behaviour of Metals and Alloys
P396	TEMPIP985	Ms. Ayushi Thakur Thakur	Alloying effect of Ni on toughness of lead-free Sn-based solder at varied temperatures	Mechanical Behaviour of Metals and Alloys
P397	TEMPIP960	Mr. Anish Ranjan	Local Anisotropy in Strain Response of an α/α' Titanium Alloy	Mechanical Behaviour of Metals and Alloys
P398	TEMPIN1046	Mr. GLGSB Srinivas Kumar	HIP-Processing and Characterization of Advanced Indigenous Powder Metallurgy Nickel Base Superalloys for Aero-Engine Applications	Mechanical Behaviour of Metals and Alloys
P399	TEMPIP270	Mr. Apoorv Sobti	Effect of rolling deformation on mechanical properties of nano-bainitic steels	Mechanical Behaviour of Metals and Alloys
P400	TEMPIP871	Mr. Shrikanth S	On the Determination of the Elastic Properties of Anisotropic Materials from Nanoindentation Measurements	Mechanical Behaviour of Metals and Alloys
P401	TEMPIM1160	Ms. Saumya Jha	Computational evaluation of mechanical characteristics improved by thermal cycling-assisted grain size modulation	Mechanical Behaviour of Metals and Alloys
P402	TEMPIN1184	Mr. Lavakumar Bathini	On the superior wear resistance and adhesion strength of compositionally modulated Ni-W multilayer coatings	Mechanical Behaviour of Metals and Alloys
P403	A2022IP015	Mrs. SNIGDHA PRIYADARSHINI	A study on production of Ferro Nickel and Ferro Manganese from Manganese nodules using plasma smelting process	Mineral Processing & Beneficiation
P404	TEMPIP189	Mr. Shrey Agrawal	Recovery of titania and alumina from red mud by alkali baking followed by water and acid leaching process	Mineral Processing & Beneficiation
P405	TEMPIM233	Mr. KVKS Prakash	Study of DRI Accretion Usage as a Substitute to Iron Ore & Quartz in the Silico Manganese Production at SAF, JSPL-Raigarh	Mineral Processing & Beneficiation
P406	TEMPIM245	Mr. Chandra Shekhar Verma	Innovative Briquetting Technology: High Pressure Vacuum Extrusion	Mineral Processing & Beneficiation
P407	TEMPIN253	Mr. ABHIJIT DAS	Enhancement in CSR of coke by optimising heating parameters at COBs, BSL	Mineral Processing & Beneficiation
P408	TEMPIM234	Mr. KRISHNAKUMAR K	Primary De-oxidation to improve the alloy recoverys at the tapping stage of Energy Optimizing Furnace	Mineral Processing & Beneficiation
P409	TEMPIM261	Mr. Rajesh Kumar	Development of grade Mix-up detection system at Merchant Mill	Mineral Processing & Beneficiation
P410	TEMPIN336	Ms. Shobhitha Cheluvakumar	Palletisation of mix AFR to optimize the kiln process operations and increasing the Thermal Substitution Rate.	Mineral Processing & Beneficiation
P411	TEMPIM428	Mr. NILU KUMAR	A post carbonization approach to improve metallurgical coke strength	Mineral Processing & Beneficiation

P412	TEMPIM329	Mr. Satyendra Sudershan	Investigating role of balling index on the performance of sinter plant, ISP	Mineral Processing & Beneficiation
P413	TEMPIP553	Mr. AVULA LEELA SUKH BRAHMA REDDY	Characterization of properties in low-grade hematite iron ores and their fired pellets	Mineral Processing & Beneficiation
P414	TEMPIP647	Mr. Mohana Rao Andavarapu	Development of Process Flowsheet for the Utilization of Low Volatile Coking Coal of Jharia Coalfields	Mineral Processing & Beneficiation
P415	TEMPIN716	Mr. Kumar Abhishek	A computational tool for prediction of Jig Concentrator operating parameter to get improved yield of concentrate	Mineral Processing & Beneficiation
P416	TEMPIM824	Mr. Mrunmaya Pasupalak	USE OF LOW GRADE IRON ORES CONTAINING HIGH LOI FOR PELLET MAKING	Mineral Processing & Beneficiation
P417	TEMPIN842	Mr. Diwakar Raj	Real time measurement of Coal level in Silos at Coal Handling Plant of Durgapur Steel Plant	Mineral Processing & Beneficiation
P418	TEMPIM899	Mr. Ravi Kant Sagar	Evaluation of properties of high silica hematite iron ore pellets	Mineral Processing &
P419	TEMPIN793	Mr. KASHINATH BARIK	Preheating Study of High LOI Iron Ore Pellet	Mineral Processing &
P420	TEMPIM994	Mr. Mudhunuru Varma Raju	Utilization of iron ore tailings for making construction bricks	Mineral Processing &
P421	TEMPIN887	Dr. Barun Harichandran	Resource utilization by beneficiation of iron ore tailings	Mineral Processing &
P422	TEMPIM894	Mr. bhaskar khatravath	Elimination of material sticking on Process Main Fan Impeller in Sintering	Mineral Processing & Beneficiation
P423	TEMPIM538	Mr. Tonmoy Kundu	Behaviour of Nickel-Lateritic Ore in the Grinding Circuit: With a Perspective on Pellet Preparation	Mineral Processing & Beneficiation
P424	TEMPIN1065	Mr. Satyasish Rout	Value addition of bauxite waste mining waste PLK rock for industrial applications.	Mineral Processing & Beneficiation
P425	TEMPIP944	Mr. BIPLAB HAZRA	The Reduction of Iron Ore pellet by Hydrogen	Mineral Processing &
P426	TEMPIN1049	Mr. Siddhartha Guha	A new approach: Processing of Low Carbon Ferro Chrome for Chemical Analysis	Mineral Processing & Beneficiation
P427	TEMPIP779	Mr. Subhabrata Mishra	Hydrodynamic performances of low-grade iron ore fines in a fluidized bed	Mineral Processing & Beneficiation
P428	TEMPIN1092	Ms. Aparna Singh	Chemical and Sorption characteristics of Coal bed Methane and Shale Gas Reservoirs	Mineral Processing & Beneficiation
P429	TEMPIM1111	Dr. MANASHI ADHIKARY	The Story of a Fallen Structural Plate: A Finite Element Analysis Case Study	Mineral Processing & Beneficiation
P430	TEMPIN1144	Ms. Shalini Chaurasiya	Surface coating on the iron ore pellets to improve its metallurgical properties	Mineral Processing & Beneficiation
P431	TEMPIN1145	Mr. P D S Patnaik	Assessment of performance of various organic binder during iron ore pellet making	Mineral Processing & Beneficiation
P432	TEMPIN1100	Ms. Suman .	Effect of Positioning of Overflow Discharge on the Segregation Characteristics of Hydrocyclone	Mineral Processing & Beneficiation
P433	TEMPIP151	Mrs. SWETA KUMARI	Statistical analysis of Tensile deformation of Al nanowire using Molecular Dynamic Simulations	Modeling and Simulation
P434	TEMPIM207	Dr. Kavithaa. S Subramanian	Transient thermal analysis for the development of a prototype HMC package using Cu/SiC composite	Modeling and Simulation
P435	TEMPIM212	Mr. Mukesh Kumar Das	Computation of generalized stacking fault energy of FCC medium entropy alloys and understanding its effect on their deformation behavior	Modeling and Simulation
P436	TEMPIM195	Mr. KRISHNA KUMAR K	SYNERGISTIC EFFECT OF ELASTIC AND MAGNETIC FREE ENERGY ON PHASE SEPARATION BEHAVIOR IN Fe-Cr SYSTEM: A PHASE FIELD STUDY	Modeling and Simulation
P437	TEMPIP402	Mr. Hrishikesh Kumar	Effect of Composition on the Mechanical properties of Nano-Structured Cu-Ni Alloy Thin Films via Nano-indentation Simulation using Molecular Dynamics	Modeling and Simulation
P438	TEMPIN451	Mr. SOUMAVO PAUL	Development of dynamic recovery-based Ferro Alloy Prediction Model for Steel Melting Shop	Modeling and Simulation
P439	TEMPIP474	Mr. Tapasendra Adhikary	Mechanical behavior of Ni/Ti multilayer-based shape memory alloys: Endorsement via Atomistic simulations	Modeling and Simulation
P440	TEMPIP479	Ms. SWETA KUMARI	Nucleation of twinning dislocation loops in fcc metals	Modeling and Simulation
P441	TEMPIM540	Mr. Abhishek Maitra	Failure Analysis of Cardan Spindle in Bar Mill	Modeling and Simulation
P442	TEMPIP400	Mr. Rohit Shandley	Experimental Investigation of Crystal Structure and First Principles Calculations of Thermodynamic and Elastic Properties of the MgSnY Phase	Modeling and Simulation
P443	TEMPIN490	Mr. B Sai Prakash	Prediction of LD end-point temperature	Modeling and Simulation
P444	TEMPIN489	Mr. B SAI Prakash	Prediction of remainder thickness of refractory in a torpedo vessel	Modeling and Simulation
P445	TEMPIP794	Mr. Manish Ranjan	Ab-initio Calculation for Investigating Ductility in Refractory Multicomponent Alloy	Modeling and Simulation
P446	TEMPIP317	Mr. POKULA NARENDRA BABU	Atomistic insight of structural and defects analysis in CNT embedded nanocrystalline Al nanocomposite under torsional deformation	Modeling and Simulation
P447	TEMPIP905	Ms. Anantha Lakshmi Prasanna Tatavarty	Modeling of Low Cycle Fatigue behaviour of AA2219 Aluminium alloy	Modeling and Simulation
P448	TEMPIM604	Mr. SAMEERAN PANI	Use of AI Driven Burden Recommender System for Stable and Efficient Blast Furnace Operations	Modeling and Simulation
P449	TEMPIM972	Mr. R Nikhil	Experimental and Numerical study of In-plane shear deformation in Mod. 9Cr-1Mo. steel	Modeling and Simulation
P450	TEMPIM969	Dr. Kaushlendra Kumar	Tuning of anti-phase boundary energy of Ni3Al of Ni-based superalloys with substitutional alloying	Modeling and Simulation

P451	TEMPIP919	Mr. SANDIP GUIN	A phase field approach to study effect of temperature gradient on microstructure evolution	Modeling and Simulation
P452	TEMPIP661	Mr. Ayush Badaya	A Graphical User Interface for Industrial Case Hardening of Steel	Modeling and Simulation
P453	TEMPIN725	Ms. ANITA SOREN	Prediction of Coke Strength After Reaction & Coke Reactivity Index by Using Random Forest Regressor in the Coke Making Process	Modeling and Simulation
P454	TEMPIN1009	Ms. Kotha Satya Tejaswi	Development of a model for continuous casting process using OpenFOAM	Modeling and Simulation
P455	TEMPIP945	Mr. Anandhakrishnan S	Evaluation of shape and size of γ' precipitates in Aluminium – Copper alloys from phase field modelling	Modeling and Simulation
P456	TEMPIN810	Mr. PRASHANT KUMAR JHA	Parametric study of DEM parameters using wall friction test	Modeling and Simulation
P457	TEMPIN1127	Mr. SAMBIT SAHOO	FEM Simulation of Pulsed Laser Welding of High-Carbon Alloy Steel: Using Different Heat Source Models	Modeling and Simulation
P458	TEMPIN1128	Mr. YOGENDRA CHOUKSEY	On the precipitation and coarsening kinetics of a new 12% Cr steel for power plant applications	Modeling and Simulation
P459	TEMPIN1136	Mr. SHIVAM PARMAR	Friction Stir Welding of Copper Using Hexagonal Pin Profile Tool: A Numerical Modeling Approach	Modeling and Simulation
P460	TEMPIP205	Mr. Ankit Negi	Effect of Orientation Relationship on the Microstructure Evolution in α/β Ti - Alloys: A Phase - Field Study	Modeling and Simulation
P461	TEMPIN731	Ms. Ainkara Karthiga R	Effect of non-spherical drag on particle dynamics in fluidized bed - A CFD approach	Modeling and Simulation
P462	TEMPIP1055	Mr. Aman Mittal	Development of DEM code for non-spherical particle dynamics - Testing and Validation	Modeling and Simulation
P463	TEMPIN1168	Mr. Rahul Kumar	Development of bond contact model for use in discrete element method to study the mechanical behavior of cemented granular materials	Modeling and Simulation
P464	TEMPIN1158	Dr. DASARI MOHAN	MicroSim: A user friendly open source tool for phase-field simulations based on CPU and GPU implementation	Modeling and Simulation
P465	TEMPIN1172	Mrs. Jagathpriya L M	Understanding the role of metallic mirror in multilayer plasmonic substrate for perfect absorption.	Modeling and Simulation
P466	TEMPIN988	Mr. Rahul Soni	CFDEM Modelling of Reduction of Hematite Iron Ore (Fe_2O_3) to Magnetite (Fe_3O_4) in Fluidized Bed Reactor	Modeling and Simulation
P467	TEMPIN1193	Mr. Abhishek	Online Rib Detection System at NBM, Tata Steel	Modeling and Simulation
P468	TEMPIN674	Ms. Soumita Chakraborty	MD simulation of defect microstructure during successive cascades in model Fe-Ni-Cr alloy	Modeling and Simulation
P469	A2022IP012	Mr. RAASHID FIROZ	Microstructure Evolution of Nb-rich β -TiAl with Varying Cooling Rate	Non-ferrous Alloys
P470	TEMPIP123	Mr. Adya Charan Arohi	Microstructure-property correlation of metastable β Ti-5Al-5V-5-Mo-3Cr alloy	Non-ferrous Alloys
P471	TEMPIP143	Mr. Subburayalu S	Role of Cooling rate on hot tearing formation during laser surfacing of Aluminium 7075 alloy	Non-ferrous Alloys
P472	TEMPIP426	Mr. Ankur Kumar	Optimization of retrogression and re-aging treatment parameters for 7068 alloy	Non-ferrous Alloys
P473	TEMPIP434	Mr. Thilak Chakaravarthi	Solidification Behaviour of dilute Mg-Zn-La alloys	Non-ferrous Alloys
P474	TEMPIM662	Mr. Sukumar Govindan	A comparative study on dynamic deformation and ballistic impact behaviour of three β -Ti alloys: Ti-4Al-2.5V-1.5Fe, Ti-6Al-2Fe and Ti-6Al-4V	Non-ferrous Alloys
P475	TEMPIN413	Mr. vijay kaushik	Production of Nb55Ti for Superconducting Accelerator Applications	Non-ferrous Alloys
P476	TEMPIM775	Mr. SHASHI SHEKHAR	Effect of section size and heat treatment on microstructure and mechanical properties of Ti-10V-2Fe-3Al Alloy	Non-ferrous Alloys
P477	TEMPIP801	Mr. Sachin kumar	Interdiffusion in β phase field of ternary (Ni, Ru)Al system	Non-ferrous Alloys
P478	TEMPIP339	Mr. Indeevar Singh	Effect of partial substitution of Mo in 90W-7Ni-3Fe on microstructural attributes and mechanical properties processed by spark plasma sintering	Non-ferrous Alloys
P479	TEMPIN857	Mrs. SRILATHA SUNKARA	CHARATERIZATION AND TYPE CERTIFICATION OF AEROSPACE ALUMINIUM ALLOY FORGINGS FOR AIR LAUNCHED MISSILE	Non-ferrous Alloys
P480	TEMPIP874	Ms. Mallam Vidyasree	Temperature and frequency dependent dynamic properties of commercial Ti-6Al-4V alloy	Non-ferrous Alloys
P481	TEMPIN904	Mr. AASHENDRA PATODI	Investigation on CaO-CeO ₂ Based Core Compositions for Ti-Al Alloy Investment Casting	Non-ferrous Alloys
P482	TEMPIP873	Ms. Meeta Ashok Kamde	Effect of Zr addition on the microstructural evolution, mechanical, and corrosion phenomena of Mg-Y-Ca alloy	Non-ferrous Alloys
P483	TEMPIN952	Mrs. SRILATHA SUNKARA	CHARATERIZATION AND TYPE CERTIFICATION OF AEROSPACE ALUMINIUM ALLOY FORGINGS FOR AIR LAUNCHED MISSILE	Non-ferrous Alloys
P484	TEMPIN825	Mr. Immanuel Kola	Comparison of Peripheral Coarse Grain Formation in AA2024 and AA6063 Aluminium Alloys	Non-ferrous Alloys
P485	TEMPIM1022	Mr. RAVI KUMAR SAGGURTHI	Optimization of Homogenization treatment of AA7068 aluminium alloy	Non-ferrous Alloys
P486	TEMPIM1010	Mr. AMIT KUMAR	High temperature deformation behaviour and process map of high strength Al alloy	Non-ferrous Alloys
P487	TEMPIN1120	Mr. Pawan Bohane	Effect of Al-B master alloy addition and heat treatment on microstructure, electrical conductivity, and hardness of aluminium alloy	Non-ferrous Alloys
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P499	TEMPIN1091	Mr. SUDEEP SINGH	Magnetic and microstructural studies on isotropic nanocrystalline Nd-Fe-B based magnet prepared by spark plasma sintering	Rare Earth Permanent Magnets
P500	TEMPIN267	Mr. Ravivarman	Improvement of Work roll life in Reversible Mill	Thermomechanical Processing
P501	TEMPIM304	Mr. Rajan Singh	Design and Development of Cold Rolled Continuous Annealed Complex Phase Steels with Improved Formability	Thermomechanical Processing
P502	TEMPIM338	Mr. Goura Hari Das	Indigenization of Titanium Alloys Tube manufacturing	Thermomechanical Processing
P503	TEMPIN327	Mr. INDRANIL BHATTACHARJEE	Analysis of random microstructural non-uniformity in Ni-Cr-Mo alloy tubes	Thermomechanical Processing
P504	TEMPIP226	Mr. Shrutik Bole	A Study on the Effect of Prior Hot Forging on Microstructure and	Thermomechanical Processing
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P506	TEMPIM581	Dr. Jose Immanuel	Friction stir processing of Magnesium alloy AZ91 with novel tool design	Thermomechanical Processing
P507	TEMPIM628	Prof. Sudipto Chakraborty	Nanofluids for ultrafast cooling of steel	Thermomechanical Processing
P508	TEMPIM287	Mr. Santhoshkumar R	Understanding and resolving the cracking issues during metal forming in Fe-14Cr-5.5Ni-1Mo-1W-0.20V-0.10Nb stainless steel sheet used in LOX-Kerosene thrust chamber	Thermomechanical Processing
P509	TEMPIN681	Mr. Deepan Navukkarasu	Cracking phenomenon in Te-Pb based free cutting steel during hot rolling	Thermomechanical Processing
P510	TEMPIM501	Mr. Bhavanish Kumar Singh	Thermomechanical Processing of 16Cr-5Ni-1Mo Martensite Stainless Steel Forgings to obtain enhanced strength and toughness	Thermomechanical Processing
P511	TEMPIP172	Mr. Gaurav Rajan	Influence of friction stir processing on the stir cast AA5083-SiCn nanocomposites	Thermomechanical Processing
P512	TEMPIN586	Mr. SIRASAVADA RAVI VARMA	Indigenous Development of Monel K500 Alloy for Gaganyaan Program	Thermomechanical Processing
P513	TEMPIM853	Dr. Balasundar Ilangovan	Microstructural Evolution during Heterogenization Annealing and Hot Deformation in a Medium Alloyed Wrought Nickel based Superalloy	Thermomechanical Processing
P514	TEMPIM865	Mr. Bipin Kedia	On the Phase Transformations in a β solidifying β -TiAl alloy	Thermomechanical Processing
P515	TEMPIP796	Mr. K POORNA CHANDER	Microstructure and Property Correlation in Quenching and Non-isothermal Partitioning Steel	Thermomechanical Processing
P516	TEMPIN1076	Mr. krishna chaitanya	Comparison of Ni3Sn4 phase growth kinetics in deformed and undeformed Ni-Sn sandwich diffusion couple	Thermomechanical Processing
P517	TEMPIN1117	Mr. RAVI VARMA SIRASAVADA	Indigenous Development of Alloy Superfer 909 Hot Rolled Bars	Thermomechanical Processing
P518	TEMPIN1134	Mr. SHIKHAR SAINI	Effect of Batch Annealing on Strip Breakage in 430L Ferritic Stainless Steel during Cold Rolling	Thermomechanical Processing
P519	TEMPIP177	Ms. Ramya Krishna	Effect of fibre architecture on mechanical properties of Cf/SiC composites with multi-layered interphase	Ultra High Temperature Materials
P520	TEMPIP153	Mr. Adarsha Ranjan Mishra	PROCESSING OF NEAR NEAT SHAPE ZrB2 BASED ULTRA-HIGH TEMPERATURE CERAMIC COMPOSITES AND THEIR STRUCTURE-PROPERTY CORRELATION	Ultra High Temperature Materials
P521	A2022IP021	Mr. Ammar Eqbal	Effect of ZnO Dopant on Asymmetric Microstructure Evolution and Electrochemical Blackening during Flash Sintering of 3 mol% Ytria Stabilized Zirconia	Ultra High Temperature Materials
P522	TEMPIP170	Mr. PUSHPENDER SINGH	Plasma sprayed carbon Nano fillers reinforced lanthanum-cerate hybrid composite coating with outstanding toughness	Ultra High Temperature Materials
P523	TEMPIP369	Ms. Vijaya Lakshmi Devara	Comparison of tribological performance of HVOF deposited thin cermet coatings as an alternative to hard chrome plating	Ultra High Temperature Materials
P524	TEMPIP433	Mr. Manoj J J	Understanding the role of TiC in prevention of Hot cracking through grain refinement during laser cladding of Inconel 718 alloy	Ultra High Temperature Materials
P525	TEMPIN737	Mr. S.S.N MURTHY	Processing of ZrB2 based ultra-high temperature ceramic matrix composites	Ultra High Temperature Materials
P526	TEMPIP819	Mr. Savanth Tadepalli	Microstructural characterization of as-cast and aged dispersion strengthened Cu – Cr – Nb alloy	Ultra High Temperature Materials
P527	TEMPIP895	Mr. AJIT KUMAR NAIK	Development of functionally graded ZrB2-B4C composites for lightweight ultrahigh-temperature aerospace applications	Ultra High Temperature Materials
P528	TEMPIN957	Mr. RAMA KRISHNA MANKENA	Influence of temperature on the wear response of plasma sprayed oxide layers	Ultra High Temperature Materials

P529	TEMPIP995	Mr. DURGA RAJU	Effect of Potential Sintering additives on Properties of Ytria Stabilized zirconia	Ultra High Temperature Materials
P530	TEMPIM950	Mr. Shishir	Preparation of homogeneous Nb-W-Zr alloy electrodes for making Cb-752 alloy ingot	Ultra High Temperature Materials
P531	TEMPIN1119	Mr. POLASANI AJAY	Development of Inconel 718 Superalloy powder by Mechanical Alloying through elemental route	Ultra High Temperature Materials