

Accepted papers till 10th July 2020

Paper ID	Title
4	Transient Numerical Simulation of Solidification in Continuous Casting Slab Caster
8	Mechanical, Chemical and Thermal recycling of bio-composites: A Review
10	Numerical Investigation of Swirl and Tumble Motion in the cylinder and Their Effect on Combustion of Gasoline - Methanol Blends in SI Engine
14	An Experimental Analysis of the Thermal Performance of Solar Air Heater (SAH) Having Two Different Absorber Plate Along With (PCM)-Based Energy Storage
17	STUDY ON IMPORTANT TECHNIQUES AND PROCESSES FOR THE MANAGEMENT OF WASTE ELECTRICAL WIRES
19	Comparative Study of the Fluid Interface Capturing High Resolution Algebraic Schemes
30	Testing of Material for Disc Brake Rotor
34	Design and Fabrication of Portable Tensometer For Natural Fibers
40	"5S HOUSEKEEPING"-A LEAN TOOL: A CASE STUDY
43	Increasing powertrain efficiency using Regenerative Clutch System
45	Implementation of Industry 4.0 Practices in Indian Organization: A Case Study
51	Comprehensive Study of Artificial Intelligence tools in Supply Chain
62	Sustainability of Industry 4.0 Practices: A Review
75	Analytical and decision modelling approaches in Circular Economy: A Review
80	A review on scramjet engine
84	Modeling and Simulation of HVAC System
89	Design of Shock-free conical nozzles
90	A Review on Advancements in Photovoltaic Cells
91	Static analysis of laminated composite stiffened plates: An isogeometric finite element approach
93	A Review on Real Time Potholes Detection Techniques
94	Numerical study of gas-turbine type continuous combustion unit burning LPG mixture
95	TRANSITION OF STRATIFIED-WAVY TO INTERMITTENT FLOW PATTERNS USING NON-LINEAR ANALYSIS OF PRESSURE FLUCTUATIONS
97	Soot Formation Characteristics of Homogeneous Supercritical Fuel Spray of Dieseline Blend
99	A Review on Thermal Barrier Coatings (TBC)- Usage and Effect on Internal Combustion Engine.
101	Relative study of a Plain Circular Bearing and Two-Lobe Journal Bearing lubricated with Micropolar Fluid
103	Determining Optimal Crop Selection by Multi Objective Optimization and Analyzing the Concentration of Heavy Metals using Chemometric Techniques
105	Experimental Study of Thermal Contact Conductance of Tool-sample interface after Heat Treatment
108	Analyzing the production of the plastic manufacturing through a fuzzy analytic hierarchy process
114	Structural, Wear and Thermal Behaviour of Copper Metal Matrix Composites: A Review
118	Strengthening of Metal Matrix Composites

129	Development of Green Cementitious Materials Origin from Agro-Squander : A Review
130	Finite Element Analysis Of Soft Body Armour Using Shear Thickening Fluid
136	Adoption of Smart Homes in the UK: Customers' Perspective
137	An explorative analysis of IoT applications in Cold Chain Logistics
142	Analyzing the Cause Effect Relationship among Deming's Quality Principles to Improve TQM using DEMATEL
146	STUDY OF HARMFUL EFFECTS AND DISPOSAL TECHNIQUES FOR E-WASTE IN EMERGING NATIONS
148	Security in Manufacturing Systems in the Age of Industry 4.0: Pitfalls and Possibilities
156	A low-cost novel design for knee orthosis
159	NUMERICAL INVESTIGATIONS ON A VARIABLE CHANNEL WIDTH MINICHANNEL HEAT SINK USING CUO-WATER NANOFLUID
161	LIQUID FILM THICKNESS MEASUREMENT: A CRITICAL REVIEW
163	APPLICATION OF STRUCTURED MAINTENANCE RELIABILITY PROGRAMME IN OIL AND GAS INDUSTRY-A CASE STUDY
167	Weight Optimization and Force Analysis of an ATV Roll cage
177	Analyzing the Cause Effect Relationship among Factors of Social Media Advertising (A Study on Kids' Behavior)
179	AIR POLLUTION SCENARIO IN INDIA AND ASSESSMENT OF AIR PURIFICATION TECHNOLOGIES
181	Vortex Dynamics in Near Wake Region behind a Triangular Cylinder at Intermediate Reynolds Number
183	Advancement in different materials used for aircraft structure processed through Equal Channel Angular Pressing
185	Review of Materials and processes Used in 4D printing
187	Fabrication and experimental study of mechanical behavior of hollow glass fiber based self healing polymer composite
195	STRUCTURAL ANALYSIS OF CRACKED COLUMN WITH BUCKLING USING FINITE ELEMENT METHOD
197	Filler composition effect on the mechanical behavior of the dissimilar welds joint
207	Modeling and optimization of turning process using white coconut oil as metal working fluid through desirability function
212	Vibro-acoustic analysis of Simple Vehicle Cabin using Finite Element Method
217	Thermo-Mechanical Analysis of Functionally Graded Material for Cylindrical Shell Subjected to Internal Pressure for Varying Volume Gradation
218	A Case Study Of Manpower Productivity Improvement In Moulding Section Of Automotive Industry By Using Man Machine Chart
220	Lean tool selection in a die casting industry: A Fuzzy AHP based decision support heuristic
225	Influence of Spindle Rotational Speeds on Pure Mg and 0.1GNP-3Al-Mg Alloy-nanocomposite in WEDT Process
226	A Theoretical Review of anatomy of Net Operating Cycle
229	Development of tractor seat suspension system for improving the ride comfort
230	Modelling and real time simulation for hot coil marking
231	Emerging Security Threats, Countermeasures, Issues and Future Aspects on Internet of Things (IoT): A Systematic Literature Review
234	Effect of ageing on emission levels of a gasoline vehicle: a case study in Indian context

235	Processing and characterization of Plasma sprayed LD slag coatings on mild steel substrate
236	COMPARISON OF FREE CONVECTION AROUND HEATED SQUARE PLATE IN A SQUARE ENCLOSURE ENCLOSING AIR, WATER AND Ag-WATER NANO-FLUID
237	Numerical study of Heat Exchanger having protrusion and Dimple roughened Conical Ring Inserts
238	Futuristic Approaches of Low-Grade Industrial Waste Heat Recovery
240	Investigation of Laser- MIG hybrid welding performances in Al alloys with influence of Ar-He-Ne mix shielding.
245	Sintering temperature optimization to examine the friction and wear behavior of hybrid aluminium composite under lubricating sliding conditions
246	Friction and wear analysis of hybrid aluminium composite at high applied load under wet sliding conditions.
247	Heat Dissipation Characteristics of a FSAE Racecar Radiator
248	Lead-free solders: Overview, challenges, and solutions
250	Fabrication and Analysis of Evaporative Water Reclamation Plant Using Waste Water from Different Sources
251	Ranking of Service quality attributes in order of importance to Choice Rider's in Urban bus transport - A Case for Kolkata
252	Techno-Economic Feasibility Analysis of Parabolic Solar Cooker in Tropical Environment of India
254	Computational analysis of EMHD flow of nanofluid over a rotating disk with convective boundary conditions: Buongiorno's Model
256	Computational Analysis for Drag Reduction in Automobiles using Application of Vortex Generator (Performance Evaluation of Vortex Generator for Drag Reduction in Automobiles)
258	CFD Analysis of Mixed Convection in an Enclosure with a Floor-mounted Step-like Heat Source
259	A Low Dissipative Scheme for Hyperbolic Conservation Laws
260	Parametric Appraisal for EDM of Inconel 825 Superalloy using Cu and Cu-Ni Electrodes
266	Characterization Techniques and Properties of Natural Polymer Nano Fiber Composites: A Comprehensive Study
267	Role of Bio-Cutting Fluids under Minimum Quantity Lubrication: An Experimental Investigation of a Sustainable Machining Technique
269	Modelling and Optimization of Galvanizing Steel in Seam Welding Using RSM
270	Path Planning Approaches for Mobile Robot Navigation in Various Environments: A Review
271	An Experimental Study on Performance Parameters of Diesel Engine Fueled With Blends of Diesel Fuel and Linseed Oil
272	Experimental Analysis on Wear Behavior of Luffa-Date leaves- Saw Dust Hybrid Natural Fiber Composites
274	Study of Natural Convection Heat Transfer in a closed wall with thermal conditions.
275	Drag Reduction of TVS Scooty using a Windshield for the Rider Comfort Improvement
278	Modeling interrelationships of Sustainable manufacturing barriers by using interpretive structural modeling (ISM)
279	Dynamic Mode Decomposition of Temperature Field in a T-junction under Inflow Pulsation
282	Energy-Economic Study of Smart Lightning Infrastructure for Low Carbon Economy
283	Transmission efficiency of polymer spur gears meshing with polymer as well as metal spur gears

291	Effect of strip orientations and geometry on the critical heat flux in pool boiling
293	A Review on Electrical and Mechanical Technologies Used in Spray Painting Robots
295	ANALYSIS OF MECHANICAL PROPERTIES AND ENVIRONMENTAL EFFECT ON COMPOSITE SANDWICH STRUCTURE BY VARYING THE FACE SHEET THICKNESS
296	Effect of Velocity Variation on the Rate of Erosion Wear at the Elbow of the Slurry Pipe by using CFD
299	Methanol Gasoline Fuel blends: A fuel for two wheeler bike
300	Effect of Current on the Hardness of Weld Bead Generated by TIG Welding on Mild Steel
304	Computational study of the effect of cold orifice dimension on the temperature variation in the counter flow vortex tube
309	Supplier selection for sustainable supply chain using an integrated GRA-VIKOR approach in an SME
310	A review of Battery used in electrical vehicles
311	Modelling and Simulation of the Load Governing System of Steam Turbine
313	Effect of Temperature on Path and Trajectory Tracking of Mobile Robots in a Cluttered Environment
314	A Two-Field Formulation in Isogeometric Analysis to Alleviate Locking
316	Numerical Research on the Welding Residue Stress and Thermal Deformation of Welded Y-junction
317	Modelling and Control of Arc Welding Processes using Artificial Neural Networks
318	Key Enablers of Sustainable Additive Manufacturing: Case of Indian Automotive Company
319	Effect of Feed Rate on Bead Dimensions in TIG Welding
320	Assessment of Key Barriers of Sustainable Additive Manufacturing in Indian Automotive Company
322	Influence of Process Parameters on Reinforcement Height of Tungsten Inert Gas Welded Joints for Low Carbon Steel AISI 1010 Plates
323	A Review of Effect of Welding Parameters on the Structure and Properties of the Weld in Shielded Metal Arc Welding Process
324	Effect of process parameters on spark energy and material removal rate in electron discharge machining process.
325	Modelling and Optimization of Piezo-electric Energy Harvesting System under Dynamic Loading
326	Dynamics of annular liquid sheets using Feature Correlation Velocimetry (FCV)
327	Rejection Minimization through Lean Tools in Assembly Line of an Automotive Industry
328	IMPROVING PHYSIO-CHEMICAL PROPERTIES OF BIODIESEL USING BLENDING
330	Wheeled Mobile Robot Trajectory Planning using Evolutionary Techniques
331	Dynamically Changing Parameters Particle Swarm Optimization (DCPPSO) based Trajectory Planning of 3- links Articulated Robot
337	Synthesis and characterization of graphene and comparison with copper to make better wire
338	Slurry pressure drop through horizontal mitre pipe bend using CFD
343	Development of Characteristic Equation for Evacuated Tubular Collector under Constant Collection Temperature Mode of Operation
345	DC Fast Charging Technique for Automated Guided Vehicle
347	Multi-Objective Optimization of Aerofoil

348	A Review Paper on Friction Stir Welding Process
349	A Review on Working and Applications of Oxy-Acetylene gas welding.
349	A Review on Working and Applications of Oxy-Acetylene gas welding
352	TRIBOLOGICAL ASPECT OF NANOLUBRICANT BASED ON CARBON NANO TUBES (CNTS) AND GRAPHENE - A REVIEW
354	Simulation Studies on the Transition from Simple Expansion Chamber Muffler to Tapered Expansion Chamber Muffler
356	Review of recent progresses in thermoelectric materials
358	Experimental Investigation of a Stress Wave Force Balance System
361	A Review on Unremitting Growth of Wireless Electricity and its Escalating Demand in Future
362	SIMP-based Structural Topology Optimization using Unstructured Mesh on GPU
365	Fatigue life prediction of front axle of truck at different crack directions using ANSYS
366	Implementation of Six sigma in CNC turning machine – a case study
367	Integration of Six Sigma and Lean Six Sigma for Superior Sustainability of Dairy Production
371	AUTOMATIC HANDBRAKE SYSTEM TO REDUCE THEFT PROBLEM OF VEHICLE
372	COMPARATIVE ANALYSIS OF DIFFERENT COMPOSITES FOR ANKLE FOOT ORTHOSIS- A REVIEW
376	Preliminary investigation of Wire cut EDM on polycrystalline silicon ingot
377	Role of Industry 4.0 Technologies in Sustainability Accounting and Reporting-Research Opportunities in India and Other Emerging Economies
379	Numerical Modeling and Simulation of Wind Turbine Blade Aerofoil for Performance Enhancement
380	Artificial Neural Network analysis for Carbon Nanotubes based nanofluid flow over exponentially stretching sheet
381	Theoretical Analysis of Isentropic & Alternative Refrigerant based Cooling System and Low Carbon Economy
383	Ultrasonic Vibrations Assisted Turning (UAT): A Review
384	Effect of addition of nanoparticles to the karanja oil during tribological characterization
385	Correlation between anthropometric measurements and muscle performance based on endurance test
386	Hydrophobicity Enhancement of Mesh Like Surface for Moist Air Condensation
387	VIRTUAL ENVIRONMENT DESIGN OF RAILWAY WAGON FOR PROTOTYPE ANALYSIS AND SIMULATION
389	Finite element analysis of HDPE based hybrid nanocomposite for potential use as liner material for total hip prosthesis
391	Design and Analysis of Metal-to-Metal Contact Bolted Flange Joint using CAE tool
392	Parametric Analysis of Electric Discharge Machining of Hybrid Composite Materials
394	Preliminary Investigation of Wind Energy Potential, Availability and Future in Himalayan State of India: Uttarakhand
397	Smart Programmed Light Source Calibrated and Software Based Measuring Tool [SPLSC]
399	Advance Fatigue Analysis of an Auto Rickshaw Rear Axle Shaft
401	A LITERATURE REVIEW ON DEVELOPMENT OF GRAPHENE REINFORCED COMPOSITE MATERIALS FOR TURBINE BLADES
405	Studies on Flow past Surface Cooled Circular Cylinder at Low Reynolds Number

406	GPU – based Topology Optimization using Matrix-Free Conjugate Gradient Finite Element Solver with Customized Nodal Connectivity Storage
407	Taguchi Based Hardness Optimization of Friction Stir Welding Process
408	Selection of Turbine Seal Strip Material by MCDM Approach
409	Design and Thermal Analysis of Pipe Insulation
411	Efficiency Analysis of Aerospike Nozzle by Comparison with a De-Level Nozzle Using Computational Fluid Dynamics
412	Tribological Study on Comparing the Effect of Wedge and flat Shaped Pin Using SAE20W40 lubricant
413	A FUNDAMENTAL INTRODUCTION AND RECENT DEVELOPMENTS OF MAGNETIC ABRASIVE FINISHING: A REVIEW
416	Vortex formation in liquid columns during draining: Influence of drain port geometry
417	Study of the effect of dielectric on performance measure in EDM
419	Optimization of cylindrical grinding for material removal Rate of Alloy Steel EN9 by using Taguchi Method
420	Adaptation of 3D Printing Technology for Fabrication of Economical Upper Limb Prostheses
423	Micro and Pico Hydro-Electric Power Generation: Potential and Future Prospect in Tripura, India
424	Parametric Optimization of thermal performance of heat pipe using Taguchi Method
425	Effects of hybrid nanofluids on thermal performance of heat pipe: An experimental investigation
426	A LITERATURE REVIEW ON DEVELOPMENT OF ADVANCED COMPOSITE MATERIALS AND USAGE OF GRAPHNE AND NATURAL SILK FOR REINFORCEMENT OF EPOXY COMPOSITES.
427	Modeling and Analysis of Composite Bullet Resistant Jacket
430	Crashworthiness analysis of a thin walled structure in the frontal part of Automotive Chassis
431	HYBRIDIZATION OF NATURAL FIBERS TO DEVELOP THE POLYMERIC COMPOSITE MATERIALS: A Review
433	A Review on Applications of Simultaneous Localization and Mapping method in Autonomous Vehicles
435	Effect of EMG Denoising on Classification Accuracy of Sit to Stand Phases
436	The effect of dynamic snapping on critical buckling load prediction of an axially compressed cylindrical shell using energy barrier method
438	STUDY OF CONSISTENCY ESTABLISHMENT OF DEVIATION IN QUALITY NORMS DURING MANUFACTURING OF CROWN WHEEL PINION
440	Parametric Optimization of Gas Tungsten Arc Welding Using AHP based Taguchi Method
441	Energy saving technique for separation of a fuel additive
443	Identifying the factors related to CSR activities contributed towards Brand Management through extensive literature review
444	Kaizen implementation in Rolling Mill: A case study
446	Effectiveness of Japanese Encephalitis Warning System developed by North Eastern Space Application Centre in case fatality ratio mitigation in three districts of Assam
447	Identification of Factors for Lean and Agile Manufacturing Systems in Rolling Industry
449	Vibration and stress analysis of spur gear train by using Ansys
452	Recent researches on the failure of spur gears – Literature review

453	Modelling and Simulation of Brake pedal using Finite Element Analysis for Formula Bharat
457	A review on shape-stabilized phase change materials
459	Numerical Analysis of Surface Integrity in Parallel Turning Part A: Influence of Cutting Tool Nose Radius
461	Surface roughness prediction of 3D printed surface using artificial neural network
462	Study of aerodynamics on Indian Budget Concept Car
465	Parametric evaluation of lathe boring operation to improve the surface finish of grey cast iron (SG-260) under dry condition
469	Numerical Simulation of ribbed Solar Air Heater
470	Comparative study for the Performance of corrugated and Impinging Jet Absorber plates of Solar Air Heater
471	The coatings developed by thermal spraying technique for hydro turbine applications- A Brief Review
472	Improvements in Production Line using ProModel© Simulation Software: A Case Study of Beer Beverage Company in India
473	Service quality dimensions in designing business strategies in urban bus transport - A Case for Kolkata
474	SUSTAINABLE SUPPLIER SELECTION IN AUTOMOBILE SECTOR USING GRA-TOP MODEL
475	Study on tribological behavior of HVOF developed coatings especially for hydro turbine runner application-A Concise Review
476	Performance Comparison Analysis of Direct Coupled SVCR and SHVCR System Used in Different Seasons
477	Human Empowerment by Industry 5.0 in Digital era: Analysis of Enablers
478	Sustainable Circular Manufacturing in the digital era: Analysis of Enablers
479	MODIFIED HISTOGRAM PROCESSING FOR IMAGE ENHANCEMENT BASED ON SEGMENTATION
481	Comparative Vibration Analysis of an Engine-Mounting Bracket with Different Materials
483	Impact of Casting Parameters on Surface Roughness and Hardness of Squeeze Cast Beta Brass
484	Challenges and Opportunities in Synthesis of Hybrid Cu-Al ₂ O ₃ -C & Cu-ZrO ₂ -C Composites through Stir Casting Route
487	FABRICATION AND MECHANICAL CHARACTERIZATION OF ALUMINIUM ALLOY REINFORCED WITH SILICON CARBIDE AND FLYASH
489	Emission characteristics of Renewable Diesel and its comparison with the Diesel Fuel on Single Cylinder Diesel Engine
496	Mechanical Regenerative Braking System for Higer Bus
501	CFD Studies on the Modified Laparoscopic Instrument used in Minimally Invasive Surgeries
503	Analysis of the Quadcopter Dynamics with Different Frame Structures
505	Design and Analysis of Reaming Tool by Finite Element Modeling and Simulation
509	Correlation Assessment of Weld Bead Geometry and Temperature Circulation by Online Measurement in Nd:YAG Laser Welding
510	Optimization of Inventory Decisions using Fuzzy Cognitive Mapping in an Automobile component manufacturing SME
511	Straightness Accuracy Estimation of Different Cavity Geometries Produced by Micro - Electrical Discharge Milling
515	Artificial neural networks-based robustness prediction of bilateral teleoperated scooping motion

518	DEFORM 3D SIMULATION ANALYSIS FOR TEMPERATURE VARIATION IN TURNING OPERATION ON TITANIUM GRADE 2 USING CVD COATED CARBIDE INSERT
519	Study of existing systems to control inside temperature of car compartment and factors influencing the rise of temperature within the car compartment– A review
520	Green supplier selection for Nickel Coating Industries using a hybrid GRAF-VIK model
521	Air Conditioning System in Surgical & Critical Care: A Review
525	Static Analysis of Euler Bernoulli Beam by Using Bond Graph
526	Bond Graph Modelling and Simulation of a Differential Drive Mobile Robot
527	Estimation of Surface Roughness in turning operations using Multivariate Polynomial Regression
528	Quarter Car Model with Power Law Damper Excited by a Road Profile
529	Investigating CVT as a transmission system prospect for wind turbine
532	Optimization of the Suspension Parameters of a Quarter Car Model with Nonlinear Damper
533	Energy Utilization Reduction of Domestic Refrigerator Using Phase Change Materials
535	Biomass Thermochemical Processing in Fixed Bed Downdraft Gasifier: A Review
536	Estimation of orthodontic force parameters with developed computer application for en-masse retraction of six maxillary anterior teeth
537	Comparative Analysis of Femur Bone's Compatible Materials by Finite Element Analysis (FEA) Tool
539	A Fuzzy Based Decision System to control and monitor Mushroom Growth
545	Design and Development of an Unmanned Aerial Cargo Vehicle using Additive Manufacturing
547	Factors Affecting Travel Range of Electric Vehicles and Their Sustainability
548	Integration of Green Supply Chain and Reverse Logistics of Electric Vehicle Batteries - A Framework in Indian context
553	Modelling and Simulation of Wind Turbine Blade Hub for its Life Enhancement using Epoxy Fiber Glass as Material
554	Utilization of nanofluids as coolant- A review
555	Progressive Die Design and Development using AUTOCAD
556	Effects of Cutting Parameters and Cutting Fluids in Turning of Aluminium Alloy
559	Identification of Drivers in implementing Green Supply Chain in Indian perspective
560	Design of a Low-Cost 1-20GHz E-Shaped Antenna for Wireless Applications
561	Design, Analysis and Fabrication of Automatic Braking System
563	Review on thermal spray coating methods and property of different types of metal based coatings
564	Design, Analysis and Fabrication of Wheel Assembly for Formula type Automotive
567	Understanding blockchain technology beyond bitcoin
568	Carrom Playing Robot With Automatic Shot Selection
572	Biodiesel In India- A Review
577	Biofuel for Internal Combustion Engines: Brief Review on Sustainable Liquid fuels
579	Effect of Welding Speed on the Dimensions of Bead in Tungsten Inert Gas Welding Process
583	FABRICATION OF HYBRID MATERIAL(AI-SiC-Flyash) FOR INDUSTRIAL APPLICATION

584	Selection of blends of ethanol with petrol for SI engine using TOPSIS and VIKOR methods
585	Optimization of design problems using TLBO and mTLBO Algorithms
586	Current Scenario in Optimization of Machining Parameters While Electric Discharge Machining for Biocompatible Ti-Alloy: A Review
587	Enhancement of Adhesive Wear Resistance of AISI 409M Steel by Deposition of WC-10Co-4Cr Powder using GTAW Process
589	GSM Based Operation System for Agricultural Pumps
591	Fabrication of Jackfruit stems fiber composites
594	Identification of Gas-Liquid Two-Phase Flow Patterns using Various Experimental Techniques: A Review
595	Adaptability in Riding Positions: Need of India
597	Pneumatic compressed Air car
599	Optimization in Brake Pedal of All Terrain Vehicle
601	To Study Linear Attenuation for Construction of Nuclear Response Robot
602	Design and Analysis of an Automatic seed sowing machine using Solidworks and ANSYS tools
604	Design of low power dynamic type latch comparator using 18nm FINFET technology for SAR ADC
606	Damage Analysis of an Inclined Cracked Curved beam using ANFIS
609	A low cost portable mechanical ventilator - A conceptual design
613	STEERING AND BRAKING SYSTEMS ANALYSIS OF GO KART
618	Microstructure and porosity behavior of spray formed Al alloy processed by cold rolling
619	Fuzzy grey relational based risk analysis of steam generating unit.
621	PVD based thin film deposition methods and characterization / property of different compositional coatings - a critical analysis
623	Role of Artificial Intelligence in Railways: An Overview
624	Impact of Internet of Things in Manufacturing Industry
626	Two body abrasive wear behavior of woven Carbon /Glass /Aramid Polytherimide Reinforced Hybrid Composites
629	Numerical analysis of double pipe heat exchanger using cross twisted tape with v-cuts
630	Development and testing of Binary Organic Eutectic Mixture for Thermal Energy Storage
632	Machine Learning Approach to Predict Compressive Strength of Green and Sustainable Concrete
633	Big Data Based Structural Health Monitoring of Concrete Structures-A Perspective Review
634	Biodegradable Metal matrix composites for orthopedic implant applications: A review
635	A Taguchi approach to optimize electrochemical discharge machining of e-glass fibre reinforced polymer composite
636	Sensorless Speed Regulation through AI Controller in Induction Motor
639	ANALYSING THE ROLE OF SIX BIG LOSSES IN OEE TO ENHANCE THE PERFROMANCE: LITERATURE REVIEW AND DIRECTIONS
643	A Brief Study on Machinability of Aluminium Alloys
644	Taguchi Multi-machining Characteristics Optimization of W-Al-SiC Alloy
651	Bending Strength Analysis of Involute Helical gear using FEA Software

652	MATERIAL SELECTION OF THE FRAME OF THE HYBRID AGRICULTURAL SPRAYER
653	Analysis of the Challenges of Industry 4.0 enabled Sustainable Manufacturing through DEMATEL Approach
656	A Business Process Modelling Approach in Human Resource Management for Small and Medium Sized Enterprises
664	Exploring the Probable Applications of Data Mining in the field of Civil Engineering
666	Economic Implication and Impact of Climate Change on Net Zero Energy Building (NZEB)
667	Six Sigma in Piston Manufacturing
668	Development of Flexible Solar PV Panel Cleaning System
669	Assessment of Rice flour and Jaggery as a potential 3D Food printer cartridge
670	Recognition of Car Model and Type using OpenCV in live-streaming videos
671	A Review of Natural Gas - Diesel Dual Fuel Engines
672	Detection of rust disease in wheat crop using convolutional neural networks via transfer learning technique
673	Automatic Facial Forgery Detection Using Deep Neural Network
674	Multi-Objective optimization and Modelling of AISI D2 Steel using Grey Relational Analysis and RSM approaches under Nano based MQL Hard turning.
681	Effect of Wall-Fin Aspect-Ratio in a Suddenly Expanded Micro-combustor
683	Mathematical modeling of drying kinetics of garlic clove in forced convection evacuated tube solar dryer
684	Effect of Metallic Fillers on Mechanical Properties of FRP Composite
685	Numerical Analysis of Regenerator for Pulse Tube Refrigerator
686	Delamination Detection and Localization in Laminated Structures using Machine Learning Techniques
687	Waste Heat Management in Hybrid Vehicles for Cabin Cooling
691	Experimental Investigation of Parabolic Trough Collector Using Cut Tube Receiver and Chronological Tracking
694	Experimental and Numerical Investigation of Flat Plate Solar Water Heater
699	Hybrid renewable road side charging station with I2C communication functionality
700	Optimization of Friction Stir Welding Parameters for Similar Base Material Combinations
701	Using Hybrid AHP-ISM technique for Modelling of Lean Management Enablers in MSME's
702	Process parameter characterization of dielectric elastomer based electro-mechanical system
703	Numerical study on effect of coexistent states and dielectric breakdown on soft elastomeric material
705	MODELING AND SIMULATION OF HUMAN TEMPOROMANDIBULAR JOINT USING BOND GRAPHS – A ONE DIMENSIONAL MODEL
706	Composite coating on Aluminium based alloys through Ni-P electroless plating route
708	Design & Development of Hypersonic Aerial Vehicles
710	Lean Manufacturing Implementation in Crankshaft Manufacturing Company
711	Finite Element Analysis of Laser Drilling on Ti-6Al-4V Alloy
712	Effect on Performance and emission of IC Engine using mahua oil and yellow grease – A simulation based study using Diesel-RK

713	Comparative CFD analysis of straight and helical shaped Earth Air Pipe Heat Exchanger (EAPHE) system
715	Design and Optimization of 4 Degree of Freedom Anthropomorphic Robotic Manipulator
717	Text Independent Voice Biometric for User Recognition
718	Tribological Properties and Morphological analysis of waste fishbone filled carbon/jute reinforced polymer composite
MATPR-D-20-01704R1	Influence of Groove Angle on Hardness and Reinforcement Height of Shielded Metal Arc Welded Joints for Low Carbon AISI 1016 Steel Plates
MATPR-D-20-01761R1	Influence of Input Process Parameters on Weld Bead Width of Shielded Metal Arc Welded Joints for AISI 1010 Plates
MATPR-D-20-01762R1	Effect of External Magnetic Field on Weld Width and Reinforcement Height of Shielded Metal Arc Welded Joints.
MATPR-D-20-01799R1	Wear Characteristics of Al Matrix reinforced Al ₂ O ₃ -Carbon Hybrid Metal Matrix composites
MATPR-D-20-01846R1	Development of new hybrid jute/carbon/fishbone reinforced polymer composite
MATPR-D-20-01854R1	Material Conscious Energy Matrix and Enviro-economic Analysis of Passive ETC Solar Still
MATPR-D-20-01866R1	Investigations on SOFC-HAT-sCO ₂ based combined power and heating cycle
MATPR-D-20-01867R1	Design and Optimization in materials of Suspension for Formula Society of Automotive Engineers (FSAE)
MATPR-D-20-01912R1	STUDY OF FABRICATION AND ANALYSIS OF NANOCELLULOSE REINFORCED POLYMER MATRIX COMPOSITES"
MATPR-D-20-01953R1	Effect of Ceramic Reinforcement on the Properties of Iron Based Metal Matrix Nanocomposites
MATPR-D-20-02038R1	Influence of the Catalytic activity of MgO Catalyst on the Comparative studies of Schlichera oleosa, Michelia champaca and Putranjiva based biodiesel and its blend with Ethanol- diesel
MATPR-D-20-02094R1	Effect of addition of nanoparticles to the karanja oil during tribological characterization
MATPR-D-20-02108R1	Experimental investigation of flushing approaches on EDM machinability during machining of titanium alloy
MATPR-D-20-02215R1	A Review: Enhancement of Turning Process Performance by Effective Utilization of Hybrid Nanofluid and MQL
MATPR-D-20-02284R1	Effect of inclination on internal heat and mass transfer of active solar still having conical condensing cover

MATPR-D-20-02305R1	RSM/DFA computation approach for optimization and modeling of CI engine performance and emission characteristics fuelled with preheated fuel blend modified withTiO2 nanomaterial.
MATPR-D-20-02366 R1	Comparative analysis of a human tooth using different materials based on the finite element method
MATPR-D-20-02581R1	Green Energy Generation from Road Traffic Using Speed Breakers
MATPR-D-20-02582R1	A simplified methodology for finding the natural frequencies and mode shapes of the machine tool structures
MATPR-D-20-02718R1	Mechanical and Microstructural Testing of C-45 Material welded by using SMAW and GMAW Process
MATPR-D-20-02955R1	AN INTEGRATED METHOD INVOLVING DESIGN-MANUFACTURING-ENVIRONMENT APPLIED IN STRUTURAL OPTIMIZATION
MATPR-D-20-02990R1	MODELING OF NONLINEAR BEHAVIOR IN SOLID MECHANICS BY THE EFG MESHLESS METHOD AND THE BIPOTENTIAL APPROACH
MATPR-D-20-03093R1	"A mini review on single slope solar desalination unit augmented with different types of collectors"
MATPR-D-20-03127R1	Design improvements of vehicle bumper for low speed impact
MATPR-D-20-03128R1	Production & Optimization of Biodiesel from rubber oil Using BBD technique
MATPR-D-20-03174R1	Compressive behavior of auxetic structural metamaterial for lightweight construction using ANSYS static structural analysis
MATPR-D-20-03196R1	Experimental Modal Parameter Identification and Validation of cantilever beam.
MATPR-D-20-03197R1	Fabrication of Parabolic Trough Hybrid Solar PV-T Collector Using a-Si Thin Film Solar Cells in Indian Perspective
MATPR-D-20-03263R1	Simulation Studies on Aerodynamic Features of Eurofighter Typhoon and Dassault Rafale Combat Aircraft
MATPR-D-20-03397R1	Comparative investigation of double slope solar still by incorporating different types of collectors:A mini review
MATPR-D-20-03653R1	Fabrication and bend testing of DHAK fiber composites
MATPR-D-20-03654R1	Impact characteristics of DHAK fiber composites
MATPR-D-20-03738R1	ANALYSIS OF EFFECTS OF VARYING FACE SHEET THICKNESS ON DIFFERENT PROPERTIES OF COMPOSITE SANDWICH STRUCTURE

MATPR-D-20-04000R1	Natural Draft Cooling Tower: Analytic study for performance enhancement
MATPR-D-20-04153R1	ANN Based Robust Bidirectional Charger for Electric Vehicles
MATPR-D-20-04193R1	A Novel Modified Ant Colony Optimization Based Maximum Power Point Tracking Controller for Photovoltaic Systems
MATPR-D-20-04341R1	A review of inclusion of nanofluids on the attainment of different types of solar collectors
MATPR-D-20-04408R1	Effect of Surface Roughness on Friction and Lubrication Regimes
MATPR-D-20-04427R1	Effect of carbonaceous nanomaterials' reinforcement on mechanical properties of aluminium metal-based nanocomposite: a review
MATPR-D-20-04469R1	Analysis of Voltage Distribution in Electrowetting on Dielectric(EWOD) System
MATPR-D-20-04569R1	Simulation in Digital Twin for Aerospace, Manufacturing and Robotics
MATPR-D-20-04654R1	Selection of Tool Transverse Speed Considering Trial Run Experimentation for AZ61/Tic Composite Developed Via Friction Stir Processing Using Triangular Tool
MATPR-D-20-04689R1	Effects of Varying Face Sheet Thickness and Panel Shape on Flexural Strength of a Composite Sandwich Structure
MATPR-D-20-04736R1	STRENGTH ANALYSIS OF ROTARY FRICTION WELDED JOINTS OF DISSIMILAR STEEL GRADES
MATPR-D-20-04778R1	Evaluation of Green Operation Managements using Fuzzy Analytical Hierarchy Process
MATPR-D-20-04902R1	Cooling techniques of the PV module: A review
MATPR-D-20-04977R1	Experimental and Numerical Investigation of Thermal Conductivity of Marble Dust filled Needle Punched Nonwoven Jute-Epoxy Hybrid Composite
MATPR-D-20-04978R1	Numerical Simulation of Solid particle Erosion for Glass Fibre Reinforced Epoxy Composites
MATPR-D-20-04979R1	Computational Fluid Dynamics Modeling of Erosion at Diverse Impact Angle for Glass Fiber Reinforced Polymer Composite
MATPR-D-20-05098R1	Impact Strength of Joints of Aluminium Matrix Composite Formed Using Friction Stir Welding Technique
MATPR-D-20-05186R1	A Study on Flight Time Optimization of Quadcopter using Solar Energy

MATPR-D-20-05242R1	Welding of super Alloys
MATPR-D-20-05243R1	Absorbability Analysis of CY -230 Epoxy Resin and Chicken Feather Fiber Based Hybrid Biocomposite Material
MATPR-D-20-05320R1	Predictive modeling of engine emissions using Machine Learning: A review