

Paper Publication for 2024-2025

S. No	Name of the faculty	Scopus Conference	Journal			Others	Total
			Scopus	SCI	ESCI		
1	Dr. S. Arivazhagan	-	-	1	-	-	1
2	Dr. D. Elil Raja	-	-	2	-	-	2
3	Dr. M. Chrispin Das	-	-	1	-	-	1
4	Dr. N. Thangapandian	-	-	3	-	-	3
5	Dr. S. Prathap Singh	-	-	2	1	-	3
6	Mr. A. Sathish Kumar	-	-	-	-	1	1
7	Mr. S. A. Muhammed Abraar	-	-	2	-	-	2
8	Mr. D. Murali	-	-	1	-	-	1
9	Mr. K. Narayanamoorthy	-	-	1	-	-	1

List of Papers Published 2024-2025

Publication Details 2024 - 2025					
S. No	Author Name	Title of the Paper	Name of the journal/Conference	Category (Scopus/WOS)	Month & Year
SCOPUS & WOS INDEXED JOURNAL PUBLICATION					
1	D. Murali	Performance evaluation of luffa-sugarcane bagasse-based polymer-reinforced composites using Taguchi's method	Biomass Conversion and Biorefinery	Scopus, WOS	June 2024
2	S. A. Muhammed Abraar	Development of Biocomposite Food Packaging Coating Material with Silane-treated Nanosilica and Grape Seed Oil Blended Vinyl Ester	Silicon	Scopus, WOS	June 2024
3	D. Elil Raja S. Prathap Singh	Microstructural characteristics and mechanical properties of 3D printed Kevlar fibre reinforced Onyx composite	Materials Testing	Scopus, WOS	August 2024
4	M. Chrispin Das	Impact of ammonia energy fraction on improving thermal efficiency and emissions of ammonia/biodiesel in dual fuel diesel engine	Process Safety and Environmental Protection	Scopus, WOS	August 2024
5	N. Thangapandian	Exploring the impact of cryogenic treatment on detonation spray coated M2 high speed steel	Materials and Manufacturing Processes	Scopus, WOS	August 2024
6	S. A. Muhammed Abraar	Enhanced longevity and performance: The effect of ZrO ₂ and TaC coatings on pistons in internal combustion engines	Journal of the Serbian chemical society	Scopus, WOS	August 2024
7	N. Thangapandian	Enhancement of piezoelectric responses of electrospun PVDF nanofibers through mechanical stretching and annealing process	Materials Science and Engineering: B	Scopus, WOS	September 2024
8	M. Chrispin Das S. Arivazhagan	An experimental investigation on enhancing diesel engine performance and emissions with cashew nut shell oil biodiesel and hydrogen fumigation	Environment, Development and Sustainability	Scopus, WOS	October 2024
9	K. Narayanamoorthy	Tribological behaviour of thermally sprayed nano zirconia coating on AA7075	International Journal of Surface Science and Engineering	Scopus, WOS	October 2024
10	S. Prathap Singh D. Elil Raja	Machinability studies on AA-SiC-TiO ₂ based heat treated HMMC with negative polarity electrode using EDM	International Journal on Interactive Design and Manufacturing (IJIDeM)	Scopus, WOS	November 2024
11	S Prathap Singh D. Elil Raja	Comprehensive investigation of microstructure, hardness, and wear behavior in aluminum matrix composite reinforced with TiO ₂ and WC	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	Scopus, WOS	November 2024
12	S Prathap Singh D. Elil Raja	Exploring cutting parameters for enhanced performance in abrasive water jet machining of Al 6061 hybrid nanocomposite	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	Scopus, WOS	December 2024
13	D. Elil Raja S Prathap Singh	Analyzing the Dry Sliding Wear Performance on Aluminum 6061 Alloy Reinforced with SiC and B ₄ C Hybrid Nanocomposite	Advances in Materials Science	WOS	December 2024
14	N. Thangapandian	Enhancing the solar still performance with nano-coated seashells and surface-modified absorber plates for clean water production	Solar Energy	Scopus, WOS	January 2025

OTHER INDEXED JOURNAL PUBLICATION					
1	A. Sathish Kumar	Optimized Mechanical and Thermal Performance of Glass and Caustic Soda-Treated Banana Fibre Hybrid Composites	Nanotechnology Perception	Google Scholar	October 2024

Paper Publication for 2023-2024

S. No	Name of the faculty	Scopus Conference	Journal			Others	Total
			Scopus	SCI	ESCI		
1	Dr. D. Elil Raja	-	2	4	3	-	9
2	Dr. M. Chrispin Das	-	-	1	-	-	1
3	Dr. N. Thangapandian	-	-	5	-	-	5
4	Dr. J. Immanuel Durai Raj	-	-	1	1	1	3
5	Dr. S. Prathap Singh	1	1	2	1	1	6
6	Mr. T. Prabhuram	1	-		-	-	1
7	Mr. R. Ranjith kumar	2	-	1	-	-	3
9	Mr. S. Jagadeesh	1	-	-	-	-	1
10	Mr. K. Ramesh	1	-	-	-	-	1
11	Mr. A. Sathish Kumar	1	-	1	-	-	2
12	Mr. S. A. Muhammed Abraar	-	-	3	-	-	3
13	Dr. N. Suresh	-	-	1	-	-	1
14	Dr. K. Arun Vasantha Geethan	1	-	-	-	-	1

List of Papers Published 2023-2024

Publication Details 2023 - 2024					
S. No	Author Name	Title of the Paper	Name of the journal/Conference	Category (Scopus/WOS)	Month & Year
SCOPUS & WOS INDEXED JOURNAL PUBLICATION					
1	D. Elil Raja	Effect of retrogression and reaging (RRA) on pitting and stress corrosion cracking (SCC) resistance of stir zone of high strength AA7075-T651 alloy joined by friction stir welding	International Journal of Lightweight Materials and Manufacture	Scopus	June 2023
2	D. Elil Raja	Optimization of pulsed TIG welding parameters for maximizing the tensile strength of dissimilar ZM21 and AZ31 magnesium alloy joints	International Journal on Interactive Design and Manufacturing (IJIDeM)	Scopus, WOS	June 2023
3	D. Elil Raja	Effect of pH value, chloride ion concentration and salt spraying time on salt fog corrosion resistance of friction stir welded AA7075-T651 alloy joints	International Journal on Interactive Design and Manufacturing (IJIDeM)	Scopus, WOS	June 2023
4	S. A. Muhammed Abraar	Experimental Investigation on Metallurgical and Mechanical Properties and Wear Behavior of Al5032/SiC Nanocomposites	Materials Research	Scopus, WOS	June 2023
5	S. Prathap Singh D. Elil Raja	Analyzing the effect of WEDM parameters on machining of heat treated SiC and TiO ₂ reinforced LM25 aluminium alloy hybrid composite using Taguchi methodology	International Journal on Interactive Design and Manufacturing (IJIDeM)	Scopus, WOS	July 2023
6	S.A. Muhammed D. Elil Raja	Investigation of Nano SiO ₂ Filler Loading on Mechanical and Flammability Properties of Jute-Based Hybrid Polypropylene Composites	Silicon	Scopus, WOS	July 2023
7	N. Thangapandian	Understanding the machining characteristics of Al6082 hybrid metal matrix composites milled under cryogenic cooling conditions	The International Journal of Advanced Manufacturing Technology	Scopus, WOS	October 2023
8	N. Suresh	Investigations of the wear and corrosion characteristics of Al-SiC-WC hybrid composites produced via stir casting	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	Scopus, WOS	September 2023
9	S A Muhammed Abraar D Elil Raja	Hybrid calotropis gigantea fibre-reinforced epoxy composites with SiO ₂ 's longer-term moisture absorbable and its impacts on mechanical and dynamic mechanical properties	Materials Research Express	Scopus, WOS	November 2023
10	D. Elil Raja	A Review on the Development of Silicon and Silica Based Nano Materials in the Food Industry	Silicon	Scopus, WOS	November 2023
11	D. Elil Raja	Hybrid calotropis gigantea fibre-reinforced epoxy composites with SiO ₂ 's longer-term moisture absorbable and its impacts on mechanical and dynamic mechanical properties	Materials Research Express	Scopus, WOS	November 2023
12	N. Thangapandian	Energy, exergy, economic and environmental evaluation of solar desalination system comprising different enhanced surface absorber plates	Desalination	Scopus, WOS	November 2023
13	D. Elil Raja	Experimental Investigations of Mechanical and Dynamic Mechanical Analysis of Bio-synthesized CuO/Ramie Fiber-Based Hybrid Biocomposite	Fibers and Polymers	Scopus, WOS	December 2023

14	N. Thangapandian	Investigation of vibration, flexural, tribological and flame retardant properties on rubber crumb-reinforced polymer composites	Progress in Rubber, Plastics and Recycling Technology	Scopus, WOS	December 2023
15	J. Immanuel Durai Raj	Effect of e-waste nanofillers on the mechanical, thermal, and wear properties of epoxy-blend sisal woven fiber-reinforced composites	Green Processing and Synthesis	Scopus, WOS	December 2023
16	S. Prathap Singh	Effect of Silicon Nitride Particles on the Sliding Wear Characteristics of Functionally Graded Aluminium Composite	Journal of Materials Engineering and Performance	Scopus, WOS	December 2023
17	S. Prathap D. Elil Raja P. Ravichandran	Improvement in Manufacturing of Aluminium-Based Functionally Graded Materials through Centrifugal Casting—A Review	Engineering Proceedings	Scopus	January 2024
18	N. Thangapandian	Optimization of Process Parameters of Cyclic Expansion Extrusion Process for Effective Grain Refinement of Al-Mg-Si Alloy	Journal of Materials Engineering and Performance	Scopus, WOS	January 2024
19	J. Immanuel Durai Raj	Experimental investigation of the effect of e-waste fillers on the mechanical properties of Kenaf woven fiber composites	Environmental Quality Management	Scopus	January 2024
20	R. Ranjith Kumar D. Elil Raja	Exploring Mechanical and Flammability Traits in Hybrid Composites of Crown Flower/Nano SiO ₂ /4ZnO·B ₂ O ₃ ·H ₂ O under Cryogenic Conditions: an Experimental Study	Silicon	Scopus, WOS	February 2024
21	M. Chrispin Das	Predicting the performance and emissions of an HCCI-DI engine powered by waste cooking oil biodiesel with Al ₂ O ₃ and FeCl ₃ nano additives and gasoline injection – A random forest machine learning approach	Fuel	Scopus, WOS	February 2024
22	D. Elil Raja	Effect of Friction Coefficient in Friction Stir Welding of B ₄ C Reinforced AA5083 Metal Matrix Composites and Use of Fuzzy Clustering Technique for Weld Strength Prediction	Advances in Materials science and Engineering	Scopus	April 2024
23	A. Sathish Kumar	Corrosion and inhibition studies on AISI 316 with AISI 410 fiber laser welded joints	Bulletin of the Chemical Society of Ethiopia	Scopus, WOS	March 2024
24	D. Elil Raja S.A. Muhammed Abraar	Driving into the Future: Nano Graphene and Silicon Dioxide Enriched Kevlar Composites for Automotive Applications	Silicon	Scopus, WOS	April 2024
25	D. Elil Raja	Optimization of process parameters and predicting surface finish of PLA in additive manufacturing—a neural network approach	International Journal on Interactive Design and Manufacturing (IJIDeM)	Scopus, WOS	May 2024
26	N. Thangapandian	Mechanical and Wear Behavior of Al-Si ₅ Cu ₃ /ZrB ₂ In-Situ Reinforced Metal Matrix Composite	International Journal of Metalcasting	Scopus, WOS	May 2024
27	S. Prathap Singh	Effect of Ageing Temperature on the Hardness, Microstructural and Dry Sliding Wear Performance of the Functionally Graded A356 Alloy	International Journal of Metalcasting	Scopus, WOS	May 2024

SCOPUS INDEXED CONFERENCE PUBLICATION

1	R. Ranjith Kumar	Study of microstructural, chemical and microhardness characterization of stainless steels	Materials Today Proceedings	Scopus	July 2023
2	K. Ramesh S. Jagadeesh K. Gnanasekaran	IoT-Enabled 6DOF Robotic Arm with Inverse Kinematic Control: Design and Implementation	Proceedings - 2023 IEEE World Conference on Applied Intelligence and Computing, AIC 2023	Scopus	July 2023
3	T. Prabhuram S. Prathap Singh	Development and mechanical characterization of jute fibre and multi-	Materials Today Proceedings	Scopus	August 2023

	D. Elil Raja J. Immanuel Durairaj M. Chrispin Das P. Ravichandran	walled carbon nanotube-reinforced unsaturated polyester resin composite			
4	A. Sathish Kumar	The influence of the hardened matrix machining parameters on the process and production cost of the polypropylene cutting jacket	Materials Today Proceedings	Scopus	August 2023
5	S. Prathap Singh	Effect of acidic solution and immersion duration on the corrosion behaviour of the aluminium 6061 alloy	Materials Today Proceedings	Scopus	August 2023
6	R. Ranjith Kumar	Friction welding process with SFPC consumable pin applied on stainless steel duplex SAF 2205	Materials Today Proceedings	Scopus	August 2023
7	K. Arun Vasantha Geethan	Characterization of epoxy resin based banana fiber reinforced composite with waste CD powder filler	Materials Today Proceedings	Scopus	September 2023
8	S. Jagadeesh	Impact of heat treatment process on machinability behavior of brass alloy 272(CuZn37)	Materials Today Proceedings	Scopus	February 2024
OTHER INDEXED JOURNAL PUBLICATION					
1	J. Immanuel Durairaj	Designing and Performance Analysis of a Concentrated Solar Power System in Cold Arid High DNI Area	International Journal of Intelligent Systems and Applications in Engineering	Google Scholar	October 2023
2	S Prathap Singh D. Elil Raja	Formulation and evaluation of bio- grease from the blend of chemically modified rice bran oil and Calophyllum inophyllum oil	Journal of Engineering and Applied Science	Google Scholar	March 2024

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S. No	Name of the faculty	Scopus Conference	Journal			Others	Total
			Scopus	SCI	ESCI		
1	Dr. D. Elil Raja	-	1	3	-	-	4
2	Dr. M. Chrispin Das	1	-	-	-	-	1
3	Dr. N. Thangapandian	2	-	-	-	-	2
4	Dr. J. Immanuel Durai Raj	1	2	-	-	-	3
5	Dr. D. Arthur Jebastine Sunderraj	-	-	1	-	-	1
6	Mr. S. Prathap Singh	3	1	-	-	-	4
7	Mr. T. Prabhuram	1	-	-	-	-	1
8	Mr. R. Ranjith kumar	3	-	-	-	-	3
9	Mr. K. Ramesh	1	-	1	-	-	2
10	Mr. A. Sathish Kumar	1	-	-	-	-	1
11	Mr. S. A. Muhammed Abraar	-	1	2	-	-	3
12	Dr. K. Arun Vasantha Geethan	-	-	1	-	-	1
13	Dr. N. Suresh	-	-	1	-	-	1

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Publication Details 2022 - 2023					
S. No	Author Name	Title of the Paper	Name of the journal/Conference	Category (Scopus/WOS)	Month & Year
SCOPUS & WOS INDEXED JOURNAL PUBLICATION					
1	K. Ramesh	Feasibility of adding fuel oil as an oxygenate to gasoline on reducing mpfi engine emissions.	Environmental Engineering & Management Journal (EEMJ)	Scopus, WOS	June 2022
2	J. Immanuel Durai Raj	Evaluation of image quality based on visual perception using antagonistic networks in autonomous vehicles	International Journal of Health Sciences	Scopus	June 2022
3	D. Elil Raja	Experimental analysis and investigation of the performance of $3Al_2O_3 \cdot 2SiO_2 \cdot La_2O_3$ ceramic-coated piston	Journal of Ceramic Processing Research	Scopus, WOS	August 2022
4	D. Arthur Jebastine Sunderraj K. Arun Vasantha Geethan	Mechanical testing and characterization of tin-zinc-antimony-lanthanum lead-free solders produced using mechanical alloying and furnace melting techniques	Soldering & Surface Mount Technology	Scopus, WOS	August 2022
5	K Arun Vasantha Geethan	Analysis of recyclable waste and performance indicator measures of solid waste details in Madurai city	Fresenius Environmental Bulletin	WOS	September 2022
6	S. A. Muhammed Abraar	Microstructure, Mechanical Characteristics, and Wear Performance of Spark Plasma Sintered $TiB_2-Si_3N_4$ as Affected by B_4N Doping	Materials	Scopus, WOS	October 2022
7	N. Suresh	Influence of SiC and WC reinforcements on the mechanical characteristics of AA6061 hybrid metal matrix composites	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	Scopus, WOS	November 2022
8	D. Elil Raja	Optimization of Drilling Parameters in Sisal-Human Hair Hybrid Composite Using Grey Relational Analysis	Advances in Materials science and Engineering	Scopus	December 2022
9	D. Elil Raja S. Prathap Singh M. Chrispin Das	Tribological and characterization studies of aluminium alloy 6061 reinforcement with aluminium oxide and copper metal matrix composites	Journal of Ceramic Processing Research	Scopus, WOS	December 2022
10	S. A. Muhammed Abraar	Optimization of process parameters for WEDM on graphene – BN- AZ91 composite through hybrid techniques	Journal of Pharmaceutical Negative Results	Scopus	December 2022
11	S. Prathap Singh D. Elil Raja	Investigating the Microstructure, Tensile Strength, and Acidic Corrosion Behaviour of Liquid Metal Stir Casted Aluminium-Silicon Carbide Composite	Advances in Materials science and Engineering	Scopus	April 2023
12	D. Elil Raja	Experimental Investigation of High Filler Loading of SiO_2 on the Mechanical and Dynamic Mechanical Analysis of Natural PALF fibre-Based Hybrid Composite	Silicon	Scopus, WOS	April 2023
13	J. Immanuel Durai Raj	Analyze the Mechanical Characteristics of Fabricated MMCs on Nanocarbon Influencing with Polymer Composites	Journal of Nanomaterials	Scopus	May 2023
14	S. A. Muhammed Abraar	Development of thermally reduced corn stover biochar and its satin weaved sisal-reinforced vinyl ester composites	Biomass Conversion and Biorefinery	Scopus, WOS	May 2023
SCOPUS INDEXED CONFERENCE PUBLICATION					
1	T. Prabhuram S. Prathap Singh J. Immanuel Durairaj D. Elilraja M. Chrispin Das D. Arthur Jebastine	Optimization of operation parameters in machining of functionally graded metal matrix composite using TOPSIS	Materials Today Proceedings	Scopus	June 2022

2	S. Prathap Singh D. Ananthapadmanaban K. Arun Vasantha Gee P. Ravichandran	Microscopical and corrosion studies on Al6061 - 10% Al ₂ O ₃ functionally graded metal matrix composites	Materials Today Proceedings	Scopus	June 2022
3	S. Prathap Singh	Optimization of WEDM control parameters for machining of functionally graded Al6061-10 %Al ₂ O ₃ composite	Materials Today Proceedings	Scopus	June 2022
4	R. Ranjith Kumar	Analyzing the Emission Characteristics of a Catalytic Converter using a Nano-ZnO Coating	Journal of Physics: Conference Series	Scopus	June 2022
5	Ramesh Krishnan K. Gnanasekaran D. Elil Raja S. Jagadeesh S. Prathap Singh	Experimental study of micro-EDM on EN24 steel with normal brass, tin coated brass, cryogenic treated brass tool by varying the machining parameters	Materials Today Proceedings	Scopus	September 2022
6	A Sathish Kumar	Investigating mechanical strength of luffa and pineapple fibre reinforced polymer composite	Materials Today Proceedings	Scopus	September 2022
7	R. Ranjith Kumar	Optimization and electro chemical grinding surface investigation on eglin steel	Materials Today Proceedings	Scopus	September 2022
8	J. Immanuel Durai Raj S. Prathap Singh	CFDGAN: A generative adversarial network for flow approximation	AIP Conference Proceedings	Scopus	November 2022
9	N. Thangapandian	A Study on the Effect of Graphene on the Vibrational and Flame Retardant Characteristics of the GFRP Composites	ASME 2022 International Mechanical Engineering Congress and Exposition	Scopus	February 2023
10	N. Thangapandian	Influence of Heat Treatment on the Microstructural Properties of Wire Arc Additively Manufactured Inconel 625 Alloy	ASME 2022 International Mechanical Engineering Congress and Exposition	Scopus	February 2023
11	S. Prathap Singh	Effect of heat treatment on the hardness behaviour of the aluminium 6061 alloy	Materials Today Proceedings	Scopus	March 2023
12	R. Ranjith Kumar	Experimentally Investigating the Flat Plate Solar Water Heating System (FPSWHS) for South Indian Climate	Journal of Physics: Conference Series	Scopus	March 2023
13	M. Chrispin Das S. Prathap Singh T. Prabhuram	Characterization of pineapple leaf fiber, areca fiber and egg shell powder reinforced phenolic resin composites and finding optimal parameters for sustainable machining	Materials Today Proceedings	Scopus	April 2023

Paper Publication for 2021-2022

S. No	Name of the faculty	Scopus Conference	Journal			Others	Total
			Scopus	SCI	ESCI		
1	Dr. D. Elil Raja	1	-	-	-	-	1
2	Dr. M. Chrispin Das	-	1	-	-	-	1
3	Dr. N. Thangapandian	-	-	5	-	-	5
4	Dr. D. Arthur Jebastine Sunderraj	1	-	-	-	-	1
5	Mr. K. Ramesh	-	-	-	-	1	1
6	Mr. S. A. Muhammed Abraar	1	-	-	-	-	1
7	Dr. P. Ravichandran	1	-	-	-	-	1
8	Mr. A. K. Arun Raja	-	-	1	-	-	1
9	Dr. K. Arun Vasantha Geethan	-	1	-	-	-	1
10	Dr. V. Savithiri	-	-	1	-	-	1
11	Mr. D. Sakthivel	-	-	1	-	-	1
12	Dr. N. Suresh	-	-	-	-	1	1

List of Papers Published 2021-2022

Publication Details 2021 - 2022					
S. No	Author Name	Title of the Paper	Name of the journal/Conference	Category (Scopus/WOS)	Month & Year
SCOPUS & WOS INDEXED JOURNAL PUBLICATION					
1	A. K. Arun Raja K. Arun Vasantha Geethan P. Sabarish Kumar	Influence of Mechanical Attributes, Water Absorption, Heat Deflection Features and Characterization of Natural Fibers Reinforced Epoxy Hybrid Composites for an Engineering Application	Fibers and Polymers	Scopus, WOS	July 2021
2	M. Chrispin Das	ZrC-Impregnated Titanium-Based Coating as an Effective Lubricating Barrier for Artificial Hip Prosthesis	Materials Performance and Characterization	Scopus	August 2021
3	N. Thangapandian	Effect of shot blasting on droplet contact angle of carbon aided phase change nanocomposites	Surface Engineering	Scopus, WOS	August 2021
4	N. Thangapandian	Improvement on the machinability characteristics of AA6061-T6/15 wt.% SiC composites by Response Surface methodology	Surface Topography: Metrology and Properties	Scopus, WOS	September 2021
5	K. Arun vasantha Geethan P. Sabarish Kumar	Role of Modern Technologies and Internet of things in the field of Solid Waste Management	International Journal of Computers Communications & Control	Scopus, WOS	October 2021
6	N. Thangapandian	Effects of ultasonication and surfactant on the thermal and electrical conductivity of water – Solar glycol mixture based Al ₂ O ₃ nanofluids for solar-thermal applications	Sustainable Energy Technologies and Assessments	Scopus, WOS	October 2021
7	V. Savithiri K. Arun Vasantha Geethan P. Ravichandran	Compression and Operating Parameters Effect on the Performance of the PEM Fuel Cell - An Experimental Investigation	International Journal of Vehicle Structures and Systems	Scopus	December 2021
8	N. Thangapandian	Strain inhomogeneity and grain refinement in AA6063 aluminum alloy subjected to repetitive corrugation and straightening: comparison of experimental and finite element analysis	International Journal of Material Forming	Scopus, WOS	February 2022
9	N. Thangapandian	Heat transfer, pressure drop, and exergy analyses of a shot-peened tube in the tube heat exchanger using Al ₂ O ₃ nanofluids for solar thermal applications	Powder Technology	Scopus, WOS	March 2022
10	N. Thangapandian D. Sakthivel	Experimental analysis of C.I. engine using pyrolyzed plastic oil blended with alumina nano additive	Fuel	Scopus, WOS	March 2022
SCOPUS INDEXED CONFERENCE PUBLICATION					
1	P Ravichandran	Efficient multilevel federated compressed reinforcement learning of smart homes using deep learning methods	2021 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSSES)	Scopus	September 2021
2	D. Elil Raja K. Gnanasekaran K. Ramesh S. Prathap Singh S. Jagadeesh	Investigation of machining parameters of super hardened tool in micro electrical discharge machining	Materials Today Proceedings	Scopus	October 2021

3	D. Arthur Jebastine Sunderraj J. Immanuel Durai Raj K. Arun Vasantha Geethan S. Prathap Singh K. Narayanamoorthy	Study of tribological behavior of Al2024 by power metallurgy method	AIP Conference Proceedings	Scopus	October 2021
4	S. A. Muhammed Abraar	Experimental investigation of drilling parameters for polymer matrix composite	AIP Conference Proceedings	Scopus	October 2021
OTHER INDEXED JOURNAL PUBLICATION					
1	N. Suresh	Analysis of Damping and Wear Characteristics of Tungsten Carbide reinforced AA6061 Composites	International Research Journal on Advanced Science Hub		June 2021
2	Ramesh Krishnan K Gnanasekaran D Murali S Jagadeesh	Experimental Study Of Machining Parameters Of En8 & En19 Steel With Tungsten Carbide Tool By Using Conventional Lathe Machine	Design Engineering		July 2021



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DEPARTMENT OF MECHANICAL ENGINEERING

PUBLICATION DETAILS FOR THE ACADEMIC YEAR 2022 - 2023

S. No	Staff Name	Month and Year	Name of Journal	All Authors Name, Paper Title, volume, month, year of publication	DOI
1	Dr. K. Arun Vasantha Geethan	September 2022	Fresenius Environmental Bulletin	K Arun Vasantha Geethan, S Godwin Barnabas, Vijay Ananth Suyamburajan, S Valai Ganesh, , <i>Obtaining The Zero Landfill For End Of Life Of Automotive Components Using Efficient Recycling And Reusing Approach</i> , Volume 31– No. 09/2022 pages 9821-9830	https://www.prt-parlar.de/download_feb_2022/
2		June 2022	Material Today Proceeding	Chrispin Das M, Arthur Jebastine Sunderraj D, Arun Vasantha Geethan K, Elilraja D, Prabhuram T and Prathap Singh S, <i>Mechanical and Moisture Absorption behavior of Woven Pineapple Leaf Phenol Formaldehyde Composites</i> , 62(2), June 2022.	https://www.sciencedirect.com/science/article/pii/S2214785322028401
3		August 2022	Soldering & Surface Mount Technology	D. Arthur Jebastine Sunderraj, D. Ananthapadmanaban, K. Arun Vasantha Geethan, <i>Mechanical testing and characterization of tin–zinc–antimony–lanthanum lead-free solders produced using mechanical alloying and furnace melting techniques</i> , August 2022.	https://www.emerald.com/insight/content/doi/10.1108/SSMT-03-2022-0018/full/html
4		June 2022	Material Today Proceeding	S.Prathap Singh, D. Ananthapadmanaban, K. Arun Vasantha Geethan, P. Ravichandran, <i>Microscopical and corrosion studies on Al6061 - 10% Al₂O₃ functionally graded metal matrix composites</i> , 62(2), June 2022.	https://www.sciencedirect.com/science/article/pii/S2214785322019174
5	Dr. D. Elil Raja	December 2022	International Journal of Lightweight Materials and Manufacture	P. Prabhuraj, S. Rajakumar, Tushar Sonar, Mikhail Ivanov, I. Rajkumar, D. Elil Raja, <i>Effect of retrogression and reaging (RRA) on pitting and stress corrosion cracking (SCC) resistance of stir zone of high strength AA7075-T651 alloy joined by friction stir welding</i> , December 2022	https://doi.org/10.1016/j.ijlmm.2022.12.002
6		December 2022	Journal of Ceramic	D. Elil Raja, S. Prathap Singh, V. Rangarajan, M. Chrispin Das, <i>Tribological and characterization studies of aluminium alloy 6061 reinforcement with</i>	https://doi.org/10.36410/jcpr.2022.23.6.926



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DEPARTMENT OF MECHANICAL ENGINEERING

PUBLICATION DETAILS FOR THE ACADEMIC YEAR 2022 - 2023

			Processing Research	<i>aluminium oxide and copper metal matrix composites</i> , Vol. 23, No. 6, pp. 926~933 (2022)	
7		December 2022	Advances in Materials Science and Engineering	D. Elil Raja , S. Panneer Selvan, P. Prabhuraj, Tushar Sonar, <i>Optimization of Drilling Parameters in Sisal-Human Hair Hybrid Composite Using Grey Relational Analysis</i> , December 2022.	https://doi.org/10.1155/2022/4614105
8		August 2022	Journal of Ceramic Processing Research	M. Rajeshwaran, B. Shreeram, T. Thangeeswari and D. Elil Raja , <i>Experimental analysis and investigation of the performance of 3Al₂O₃·2SiO₂·La₂O₃ ceramic-coated piston</i> , 23(4), August 2022.	http://www.jcpr.or.kr/journal/archive/view/2691
9		Sep 2022	Materials today: Proceedings	Ramesh Krishnan, K. Gnanasekaran, Dr. D. Elil Raja, S. Jagadeesh, S. Prathap Singh, <i>Experimental Study of Micro-EDM on EN24 Steel with Normal Brass, Tin Coated Brass, Cryogenic Treated Brass Tool by Varying the Machining Parameters</i> , 66(4), September 2022.	https://www.sciencedirect.com/science/article/pii/S2214785322038287
10		June 2022	Material Today Proceeding	T. Prabhuram , S. Prathap Singh, J. Immanuel Durairaj, D. Elilraja, M. Chrispin Das, D. Arthur Jebastine Sunderraj, <i>Optimization of operation parameters in machining of functionally graded metal matrix composite using TOPSIS</i> , 62(2), June 2022.	https://doi.org/10.1016/j.matpr.2022.03.562
11		June 2022	Material Today Proceeding	Chrispin Das M , Arthur Jebastine Sunderraj D, Arun Vasantha Geethan K, Elilraja D, Prabhuram T and Prathap Singh S, <i>Mechanical and Moisture Absorption behavior of Woven Pineapple Leaf Phenol Formaldehyde Composites</i> , 62(2), June 2022.	https://www.sciencedirect.com/science/article/pii/S2214785322028401
12	Dr. M. Chrispin Das	December 2022	Journal of Ceramic Processing Research	D. Elil Raja , S. Prathap Singh, V. Rangarajan, M. Chrispin Das, <i>Tribological and characterization studies of aluminium alloy 6061 reinforcement with aluminium oxide and copper metal matrix composites</i> , Vol. 23, No. 6, pp. 926~933 (2022)	https://doi.org/10.36410/jcpr.2022.23.6.926



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13		June 2022	Material Today Proceeding	T. Prabhuram , S. Prathap Singh, J. Immanuel Durairaj, D. Elilraja, M. Chrispin Das, D. Arthur Jebastine Sunderraj, <i>Optimization of operation parameters in machining of functionally graded metal matrix composite using TOPSIS</i> , 62(2), June 2022.	https://doi.org/10.1016/j.matpr.2022.03.562
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15	Mr. T. Prabhuram	June 2022	Material Today Proceeding	T. Prabhuram , S. Prathap Singh, J. Immanuel Durairaj, D. Elilraja, M. Chrispin Das, D. Arthur Jebastine Sunderraj, <i>Optimization of operation parameters in machining of functionally graded metal matrix composite using TOPSIS</i> , 62(2), June 2022.	https://doi.org/10.1016/j.matpr.2022.03.562
16		June 2022	Material Today Proceeding	Chrispin Das M , Arthur Jebastine Sunderraj D, Arun Vasantha Geethan K, Elilraja D, Prabhuram T and Prathap Singh S, <i>Mechanical and Moisture Absorption behavior of Woven Pineapple Leaf Phenol Formaldehyde Composites</i> , 62(2), June 2022.	https://www.sciencedirect.com/science/article/pii/S2214785322028401
17	Mr. J. Immanuel Durai Raj	November 2022	AIP Conference Proceedings	N. Aagashram, J. Immanuel Durai Raj, A. Andrew Raymond Raj , S. Prathap Singh, <i>CFDGAN: A generative adversarial network for flow approximation</i> , AIP Conference Proceedings 2446, November (2022).	https://doi.org/10.1063/5.0108335
18		June 2022	Material Today Proceeding	T. Prabhuram , S. Prathap Singh, J. Immanuel Durairaj, D. Elilraja, M. Chrispin Das, D. Arthur Jebastine Sunderraj, <i>Optimization of operation parameters in machining of functionally graded metal matrix composite using TOPSIS</i> , 62(2), June 2022.	https://doi.org/10.1016/j.matpr.2022.03.562
19		June 2022	International Journal of Health Sciences	Perumal, T. S. R., Kulshrestha, V., Shastri, R. K., Raj, J.Immanuel Durai Raj , Mahandiran, S. B., & Velu, C, <i>Evaluation of image quality based on visual perception using antagonistic networks in autonomous vehicles</i> . International Journal of Health Sciences, 6(S3), June 2022.	https://doi.org/10.53730/ijhs.v6nS3.8731



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20	Mr. N. Suresh	November 2022	Journal of Process Mechanical Engineering - SAGE - PART E	N.Suresh , L.Balamurugan, D.Jayabalakrishnan, <i>Influence of SiC, WC reinforcements on mechanical properties of AA6061 Aluminium hybrid composites</i> , Journal of Process Mechanical Engineering, SAGE - PART E	https://doi.org/10.1177/09544089221141353
21	Mr. D. Arthur Jebastine Sunderraj	August 2022	Soldering & Surface Mount Technology	D. Arthur Jebastine Sunderraj , D. Ananthapadmanaban, K. Arun Vasantha Geethan, <i>Mechanical testing and characterization of tin-zinc-antimony-lanthanum lead-free solders produced using mechanical alloying and furnace melting techniques</i> , August 2022.	https://www.emerald.com/insight/content/doi/10.1108/SSMT-03-2022-0018/full/html
22		June 2022	Material Today Proceeding	T. Prabhuram , S. Prathap Singh, J. Immanuel Durairaj, D. Elilraja, M. Chrispin Das, D. Arthur Jebastine Sunderraj, <i>Optimization of operation parameters in machining of functionally graded metal matrix composite using TOPSIS</i> , 62(2), June 2022.	https://doi.org/10.1016/j.matpr.2022.03.562
23		June 2022	Material Today Proceeding	Chrispin Das M , Arthur Jebastine Sunderraj D, Arun Vasantha Geethan K, Elilraja D, Prabhuram T and Prathap Singh S, <i>Mechanical and Moisture Absorption behavior of Woven Pineapple Leaf Phenol Formaldehyde Composites</i> , 62(2), June 2022.	https://www.sciencedirect.com/science/article/pii/S2214785322028401
24	Mr. R. Ranjith Kumar	September 2022	Material Today Proceeding	G R Kannan, B. Vijaya Kumar, T. S. Senthil, Prashant sunagar, R. Ranjith Kumar , Lukesh Parida, Ram Subbiah, <i>optimization and electro chemical grinding surface investigation on eglin steel</i> , 66(3), September 2022.	https://www.sciencedirect.com/science/article/pii/S2214785322031571
25	Mr. S. Jagadeesh	September 2022	Materials today: Proceedings	Ramesh Krishnan, K. Gnanasekaran, Dr. D. Elil Raja, S. Jagadeesh, S. Prathap Singh, <i>Experimental Study of Micro-EDM on EN24 Steel with Normal Brass, Tin Coated Brass, Cryogenic Treated Brass Tool by Varying the Machining Parameters</i> , 66(4), September 2022.	https://www.sciencedirect.com/science/article/pii/S2214785322038287



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26	Mr. K. Ramesh	July 2022	Environmental Engineering and Management Journal	Gopinath Dhamodaran, Ganapathy Sundaram Esakkimuthu, Thennarasu Palani, Ramesh Krishnan , "Feasibility of adding fuel oil as an oxygenate to gasoline on reducing MPFI engine emission" July 2022	
27		June 2022	Materials today: Proceedings	Ramesh Krishnan, K. Gnanasekaran, Dr. D. Elil Raja, S. Jagadeesh, S. Prathap Singh, <i>Experimental Study of Micro-EDM on EN24 Steel with Normal Brass, Tin Coated Brass, Cryogenic Treated Brass Tool by Varying the Machining Parameters</i> , 66(4), September 2022.	https://www.sciencedirect.com/science/article/pii/S2214785322038287
28	Mr. A. Sathish Kumar	September 2022	Materials today: Proceedings	Y. Brucely, Manas Ranjan Sahoo, Shubhajit Halder A Sathish Kumar , Lukesh Parida, <i>Investigating mechanical strength of luffa and pineapple fibre reinforced polymer composite</i> , September 22	https://www.sciencedirect.com/science/article/pii/S221478532205595X?dgcid=author
29	Mr. S. Prathap Singh	November 2022	AIP Conference Proceedings	N. Aagashram, J. Immanuel Durai Raj, A. Andrew Raymond Raj, S. Prathap Singh , <i>CFDGAN: A generative adversarial network for flow approximation</i> , AIP Conference Proceedings 2446, November (2022).	https://doi.org/10.1063/5.0108335
30		December 2022	Journal of Ceramic Processing Research	D. Elil Raja , S. Prathap Singh, V. Rangarajan, M. Chrispin Das, <i>Tribological and characterization studies of aluminium alloy 6061 reinforcement with aluminium oxide and copper metal matrix composites</i> , Vol. 23, No. 6, pp. 926~933 (2022)	https://doi.org/10.36410/jcpr.2022.23.6.926
31		June 2022	Material Today Proceeding	S.Prathap Singh , D. X. Tittu George, M. Maria Jebin, <i>Optimization of WEDM control parameters for machining of functionally graded Al6061-10 %Al₂O₃ composite</i> , 63, June 2022.	https://www.sciencedirect.com/science/article/pii/S2214785322023173
32		June 2022	Material Today Proceeding	S.Prathap Singh , D. Ananthapadmanaban, K. Arun Vasantha Geethan, P. Ravichandran, <i>Microscopical and corrosion studies on Al6061 - 10% Al₂O₃ functionally graded metal matrix composites</i> , 62(2), June 2022.	https://www.sciencedirect.com/science/article/pii/S2214785322019174



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33		June 2022	Material Today Proceeding	T. Prabhuram , S. Prathap Singh, J. Immanuel Durairaj, D. Elilraja, M. Chrispin Das, D. Arthur Jebastine Sunderraj, <i>Optimization of operation parameters in machining of functionally graded metal matrix composite using TOPSIS</i> , 62(2), June 2022.	https://doi.org/10.1016/j.matpr.2022.03.562
34		June 2022	Material Today Proceeding	Chrispin Das M , Arthur Jebastine Sunderraj D, Arun Vasantha Geethan K, Elilraja D, Prabhuram T and Prathap Singh S, <i>Mechanical and Moisture Absorption behavior of Woven Pineapple Leaf Phenol Formaldehyde Composites</i> , 62(2), June 2022.	https://www.sciencedirect.com/science/article/pii/S2214785322028401
35		August 2022	Material Today Proceeding	Ramesh Krishnan , K. Gnanasekaran, D. Elil Raja, S. Jagadeesh, S. Prathap Singh, <i>Experimental study of micro-EDM on EN24 steel with normal brass, tin coated brass, cryogenic treated brass tool by varying the machining parameters</i> , 66(4), September 2022.	https://www.sciencedirect.com/science/article/pii/S2214785322038287
36	Mr. S. A. Muhammed Abraar	August 2022	AIP Conference Proceedings	Muhammad Abraar S A , Ananthapadmanaban D, Harish R, Gokul M, Ganesh R , <i>Modelling of Conventional Tyre with Different 3D Printing Materials</i> , 2460, August 2022.	https://aip.scitation.org/doi/abs/10.1063/5.0096148?journalCode=apc