

# Sri Krishna College of Engineering and Technology

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Publication details for AY: 2019-2020

Sl.No	Authors Name	Title of the paper/ Journal	Name of the journal	Indexed in	Vol.No/Issue	Academic Year
1	V.Karthickeyan, B.Ashok, S.Thiyagarajan, K.Nanthagopal, V.Edwin Geo, B.Dhinesh	Comparative analysis on the influence of antioxidants role with Pistacia khinjuk oil biodiesel to reduce emission in diesel engine	Springer- Heat and Mass Transfer	WoS/Scopus	56	2019-2020
2	V.Karthickeyan	Data set for effect of cetane enhancer on ceramic coated diesel engine fuelled with neat Moringa oleifera methyl ester	Data in Brief	WoS/Scopus	24	2019-2020
3	V.Karthickeyan	Effect of combustion chamber bowl geometry modification on engine performance, combustion and emission characteristics of biodiesel fuelled diesel engine with its energy and exergy analysis	Energy	WoS/Scopus	176	2019-2020
4	S.Thiyagarajan, Ankit Sonthalia V.Karthickeyan, B.Ashok, K.Nanthagopal, V.Edwin Geo, B.Dhinesh	Effect of electromagnet-based fuel-reforming system on high-viscous and low-viscous biofuel fueled in heavy-duty CI engine	Journal of Thermal Analysis and Calorimetry- Springer	WoS/Scopus	138	2019-2020
5	hok , K. Nanthagopal , D. Arumuga Perumal , V. Karthickeyan , K.C. Vora , Atmesh Jain	Effect of fuel injection strategies and EGR on biodiesel blend in a CRDI engine	Elsevier Ltd- Energy	WoS/Scopus	181	2019-2020
6	Zheng Chen Zheng Chen	Effect of oxygen enrichment on CI engine behavior fueled with vegetable oil: an experimental study	Springer- Journal of Thermal Analysis and Calorimetry	WoS/Scopus	142	2019-2020
7	Krishnamoorthy Ramalingam , Annamalai Kandasamy , Dhinesh Balasubramanian , Moulik Palani	Forcasting of an ANN model for predicting behaviour of diesel engine energised by a combination of two low viscous biofuels	Springer Publication- Environmental Science and Pollution Research	WoS/Scopus	27	2019-2020
8	Karthickeyan Viswanathan, Dhinesh Balasubramanian, Thiyagarajan Subramanian & Edwin Geo Varuvel	Investigating the combined effect of thermal barrier coating and antioxidants on pine oil in DI diesel engine	Springer Publication- Environmental Science and Pollution Research	WoS/Scopus	26	2019-2020
9	V. Karthickeyan , B. Ashok , K. Nanthagopal , S. Thiyagarajan , V. Edwin Geo	Investigation of novel Pistacia khinjuk biodiesel in DI diesel engine with post combustion capture system	Elsevier Ltd- Applied Thermal Engineering	WoS/Scopus	159	2019-2020
10	Abdulfatah Abdu Yusuf, Freddie L. Inambao, Abdurrahman S. Hassan, Sharif S. Nura, V. Karthickeyan	Comparative study on pyrolysis and combustion behavior of untreated matokke bio mass wastes in east africa via TGA,SEm,EDXS	Springer-Journal of energy and environmental engineering	WoS/Scopus	11	2019-2020
11	V. Karthickeyan , S. Thiyagarajan , V. Edwin Geo , B. Ashok , K. Nanthagopal , Ong Hwai Chyuan , R. Vignesh	Simultaneous reduction of NOx and smoke emissions with low viscous biofuel in low heat rejection engine using selective catalytic reduction technique	Elsevier Ltd- Fuel	WoS/Scopus	255	2019-2020
12	Nagarajan Jeyakumar , Bose Narayanasamy , Dhinesh Balasubramanian, Karthickeyan Viswanathan	Characterization and effect of Moringa Oleifera Lam. antioxidant additive on the storage stability of Jatropha biodiesel	Fuel	WoS/Scopus	281	2019-2020
13	Karthickeyan Viswanathan , B. Ashok , Arivalagan Pugazhendhi	Comprehensive study of engine characteristics of novel biodiesel from curry leaf (Murraya koenigii) oil in ceramic layered diesel engine	Fuel	WoS/Scopus	280	2019-2020

14	Abdulfatah Abdu Yusuf, V. Karthickeyan , Sharif S. Nura , Abdurrahman H. Shu'ibu , Atiku A. Farooq , Freddie L. Inambao	Data set on performance and relative exhaust emission (REE) characteristics of fish oil ethyl ester with fuel preheating in diesel engine	Elsevier Ltd- Data in brief	WoS/Scopus	29	2019-2020
15	S. Thiagarajan a, Ankit Sonthalia b, V. Edwin Geo a, T. Prakash a, V. Karthickeyan c, B. Ashok k d, K. Nanthalagopal d, B. Dhinesh e	Effect of manifold injection of methanol/n-pentanol in safflower biodiesel fuelled CI engine	Elsevier Ltd- Fuel	WoS/Scopus	261	2019-2020
16	V. Karthickeyan a, S. Thiagarajan b, B. Ashok c, V. Edwin Geo b, A.K. Azad d	Experimental investigation of pomegranate oil methyl ester in ceramic coated engine at different operating condition in direct injection diesel engine with energy and exergy analysis	Elsevier Ltd- Energy Conversion and Management	WoS/Scopus	205	2019-2020
17	V.Karthickeyan	Experimental investigation on combined effect of ignition promoters and ceramic coating fuelled with papaya seed oil methyl ester in DI diesel engine	Elsevier Ltd- Renewable Energy	WoS/Scopus	148	2019-2020
18	K. Nanthalagopal, B. Ashok, R. Susanth Kishna, R. Srinath, M. Pranava Kumar, V. Karthickeyan	Experimental investigation on engine parameters variation in common rail direct injection engine fueled with biodiesel	Springer- Clean Technologies and Environmental Policy	WoS/Scopus	22	2019-2020
19	Shuang Wang, V. Karthickeyan, E. Sivakumar, M. LakshmiKandan	Experimental investigation on pumpkin seed oil methyl ester blend in diesel engine with various injection pressure, injection timing and compression ratio	Fuel	WoS/Scopus	264	2019-2020
20	Raja Subramanian, Balaji Natarajan,, Rajendran Chinnasamy	Effect Of Mig Welding Process Parameters On Microstructure And Tensile Behavior Of Hastelloy C276 Using Response Surface Methodology -	Material Research Express	WoS and Scopus	6(6)	2019-2020
21	S.J.S. Chelladurai, R. Arthanari	Prediction of hardness of stir cast LM13 aluminum alloy-copper coated short steel fiber reinforced composites using response surface methodology	Materialwissenschaft und Werkstofftechnik	WoS and Scopus	51(2)	2019-2020
22	S. Chelladurai, R. Arthanari	Investigation on mechanical and wear properties of zinc coated steel wires reinforced LM6 aluminium alloy composites by squeeze casting	Surface Review and Letters	WoS and Scopus	2019	2019-2020
23	S. Manickam a, C. Rajendran b, V. Balasubramanian a	Investigation of FSSW parameters on shear fracture load of AA6061 and copper alloy joints-	Journal of Heliyon	Scopus/Wos		2019-2020
24	C. RAJENDRAN a, K. SRINIVASAN b, V. BALASU BRAMANIAN b, H. BALAJI c, P. SELVARAJ c	Effect of tool tilt angle on strength and microstructural characteristics of friction stir welded lap joints of AA2014-T6 aluminum alloy	Transaction of Non-Ferrous Materials society Chinna	WoS	29(9)	2019-2020
25	C. Rajendran, K. Srinivasan, V. Balasubramanian, H. Balaji, P. Selvaraj	Evaluation of load-carrying capabilities of friction stir welded, TIG welded and riveted joints of AA2014-T6 aluminium alloy	Journal of Aircraft Engineering and Aerospace Technology	Scopus/Wos	91(9)	2019-2020
26	C. Rajendran, K. Srinivasan, V. Balasubramanian, H. Balaji and P. Selvaraj	Effect of Post Weld Heat Treatment on Strength and Microstructure of Friction Stir Welded Lap Joints of AA2014-T6 Aluminum Alloy	Metal Science and Heat treatment	Scopus/Wos	61	2019-2020
27	Chinnasamy Rajendran, Kasi Srinivasan, Visvalingam Balasubramanian , Haridasu Balaji and Ponnumuthu Selvaraj	Mechanical properties and microstructuralcharacteristics of friction stir welded AA2014-T6 aluminium alloy joints	Journal of Mechanical Behaviour of Materials	WoS/Scopus	2019	2019-2020

28	Chinnasamy Rajendran, Mannoj Guru, Sruthi-Kavin, P. Navanithan	Influence of tool rotation speed on microstructural characteristics and mechanical properties of friction stir welded A2014-T6 aluminium alloy.gineering	Journal of computational materials science and surface en	Scopus	230-244	2019-2020
29	auth-M_-Vigneshkumar	Finite Element-Based Parametric Studies of Nugget Diameter and Temperature Distribution in the Resistance Spot Welding of AISI 304 and AISI 316L Sheets	Transactions of the Indian Institute of metals	WOS & SCOPUS	72 (2)	2019-2020
30	Murugesan Vigneshkumar; Perumal Ashoka Varthanam	Comparison of RSM and ANN model in the prediction of the tensile shear failure load of spot welded AISI 304 /316 L dissimilar sheets'	International Journal of Computational Materials Science and Surface Engineering	SCOPUS	8(2)	2019-2020
31	R. Soundararajan, S. Sivasankaran, G. Adhithya	Appraisal of tribological properties of A356 with 20% SiC composites under dry sliding condition, Journal of the	Brazilian Society of Mechanical Scie	WOS and Scopus	42(147)	2019-2020
32	K. Balasubramanian, S.R. Bragadeesvaran, S. A jay Adarsh, M. Baranitharan, K. Gokulakrishnan	Surface properties of Ti-6Al-4V alloy treated by plasma ion nitriding process ,	Materials Today Proceedings	Scopus	45	2019-2020
33	S Vignesh, R Ramamoorthi and N Aravindkumar	Effect of various parameters on the performance of vortex tube cooling system	IOP Conference Series: Materials Science and Engineering	Scopus	993(1)	2019-2020
34	Ramamoorthi R , Ramachandran N, Nikiles PD, Jayasurya R , Natheesh MD, Nithin K Biju	Design and fabrication of beach cleaning machine	International Journal of Innovative Technology and Exploring Engineering	Scopus	8(12)	2019-2020
35	S. Balamurugan*, R. Ramamoorthi, I.K. Kavin Jeysing, S. Kumar, I. Mohammed Sharukhan, G. Muthu Prakash and S. Madhan	Microstructure and Mechanical Properties of Cold Metal Transfer Welding AA6082-T4 Alloys	Indian Journal of Science and Technology	UGC , WoS	12(42)	2019-2020
36	Soundararajan Ranganathan, Shanthosh Gopal, Tharunkumar Magudeeswaran, Ramamoorthi Rangasamy	Exploration of Dry Sliding Wear Behaviour of Sisal Fiber Reinforced Cashew Nut Shell Liquid and Epoxy Polymer Matrix Composite as an Alternative Friction Material in Automobiles	SAE Technical Paper Series	Scopus		2019-2020
37	P. Sureshkumar , R. Ramamoorthi and N. Babu	Experimental Investigation of Friction and Wear Properties for Glass/Carbon Hybrid Fiber Reinforced with Epoxy Resin	Indian Journal of Science and Technology	UGC , WoS	12(42)	2019-2020
38	auth-B_-Karthick_Raja	3D Printing and Additive Manufacturing Technologies, Parameter Optimization for Polyamide in Selective Laser Sintering Based on Mechanical Behaviour, Springer,	Springer,	Scopus	2	2019-2020
39	V.Boobesh Nathan a, R.Soundararajan b, C.Brainard Abraham c, Faizur Rahman.A a	Evaluation on mechanical and metallurgical properties on Aluminium hybrid metal matrix composites,	Materials Today Proceedings,	Scopus	18(7)	2019-2020
40	R. Soundararajan a, N. Jayasurya b, R.G. Girish Vishnu b, B. Guru Prasad b, C. Pradeep c	Appraisal of mechanical and tribological behaviour of PA6-TiO2 composites through fused deposition modelling,	Materials Today Proceedings,	Scopus	18(7)	2019-2020
41	auth-R_-Soundararajan	A New Appraisal of the Thermomechanical Behaviour of a Hybrid Composite Brake Disc in a Formula Vehicle,	SAE Technical Paper,	Scopus	2019-28-2572	2019-2020

42	Ranganathan, S., Kuppuraj, S., Soundarajan, K., and Perumal, A	Design and Analysis of Hybrid Metal Matrix Composite Connecting Rod via Stir/Squeeze Casting Route	SAE Technical Papers	Scopus	2019-28-0113	2019-2020
43	Raghavar, P., Suresh, M., Aakash, S., Dinesh Kumar, K., Hari Prasath, S.	A Review on Mechanical Behaviour of Aluminium Reinforced Composites	IoP- Conference series	Scopus	995 012040	2019-2020
44	Krishnamoorthy , M. Karthikeyan	Design and analysis of sensor centered prostheses for handicaps	Materials Today: Proceedings	Scopus	45(2)	2019-2020
45	P.RaghavarJ.BaskaranC.AagashA.GaneshS.Gopi Krishna	Evaluation of mechanical properties of Al7075-SiC composites fabricated through stir casting technique	Materials Today Proceedings	Scopus	45(2)	2019-2020
46	Arun KurienReji, G.Kumaresan,AjaykrishnanMukundhan, Archit S.Menon,A.P.Harikrishna,Jitesh J.Parappadi	Experimental analysis of a four slope solar still augmented with a parabolic reflector array with V-shaped mirror arrangement for pre-heating brackish water	Materials Today Proceedings	Scopus	45(2)	2019-2020
47	Arun Kurien Reji, G. Kumaresan, Sarathi A, Saiganesh Arasappa G.P, Suriya Kumar	Performance analysis of thermosyphon heat pipe using Aluminum oxide nanofluid under various angles of inclination	Materials Today Proceedings	Scopus	45(2)	2019-2020
48	Murugesan Vigneshkumar, Perumal Ashoka Varthanam	Modeling of Multi Layered ANN Architecture for Resistance Spot Welding Process	International Journal of Innovative Technology and Exploring Engineering	SCOPUS	8(11)	2019-2020
49	Ben Ruben R, S. Vinodh, Asokan P	Development of structural equation model for Lean Six Sigma system incorporated with sustainability considerations	International Journal of Lean Six Sigma	WoS / Scopus	11(4)	2019-2020
50	Krishnamoorthy S, Ben Ruben R	Operational improvement by lean approach	International Journal of Mechanical Engineering and Technology	Scopus	10(3)	2019-2020
51	Yuvaraj Kunnathur Periyasamy, A. Perumal, Boopathiraja Kunnathur Periyasamy	Influence Of Tool Shoulder Concave Angle and Pin Profile On Mechanical Properties and Microstructural Behaviour Of Friction Stir Welded AA7075-T651 and AA6061	Transactions Of Indian Institute Of Metals	Scopus/WoS		2019-2020
52	S. Ranjith Kumar, V.P. Srinivasan, S. Balamurugan, S. Dinesh Krishnan, V. Gokul, S. Anudeep	Optimization of machine machining parameters in EDM of silicon nitride-titanium nitride based on RSM	Materials Today Proceedings	Scopus/UGC care	45(2021)	2019-2020
53	V.P. Srinivasan a, P.K. Palani b, S. Dhayanandan a, S. Gopi a, S. Balamurugan a, S. Mohana Venkatesh c	A Multi Criteria Decision Making (MCDM) based on TOPSIS and RSM for process improvement in electrical discharge machining of silicon nitride-titanium nitride ceramic composites / Materials Today Proceedings	Materials Today Proceedings	Scopus/UGC care	45(2021)	2019-2020
54	V.P. Srinivasan, Abhilash Arulvalan, J. Amarnath, L. Dhinesh, R.B. Dhivyan, F. Mohammed Rizwan, A. Navashanmugam, P. Mowyanivesh	Design and fabrication of dual axis writing machine / Materials Today Proceedings	Materials Today Proceedings	Scopus/UGC care	45(2021)	2019-2020

55	Sivasubramanian R, Siva sundar S, Umakhesan A, Rajavel M, Saravanan M	Design and Development of Electromagnetic Braking System	International Journal of Innovative Technology and Exploring Engineering	Scopus	8(4)	2019-2020
56	Babu Narayanan, Vinu Kumar, A.Megalingam Murugan	Multi-Response Optimization of Process Parameters in Wire Electric Discharge Machining of Ti-3AL-2.5V Alloy Using Taguchi Integrated Grey Relational AnalysisResearch and Development	International Journal of Mechanical and Production Engineering	Scopus	9(1)	2019-2020
57	Samson Jerold Samuel Chelladurai , Murugan K. , Abhra Pratip Ray, Makarand Upadhyaya , Venugopal Narasimharaj , Gnanasekaran S.	Optimization of Dry Sliding Wear parameters of titanium alloy using taguchi method	International Journal of Innovative Technology and Exploring Engineering	Scopus	8(11)	2019-2020
58	Ramachandran N	Design and Fabrication of Steam Sanitise	International Journal of Engineering and Advanced Technology	UGC CARE	201+	2019-2020
59	Ramachandran N, C Balasuthagar1, Dinesh Shanmugam1 and K Vigneshwaran2	Design and Fabrication of Beach Cleaning Machine	International Journal of Innovative Technology and Exploring Engineering	Scopus	2019	2019-2020
60	Ramachandran N, Sivakumar M, Siva Sundar S, Umakhesan A, Theiva Shanmuga Sundar	Design And Fabrication Of Stair Climbing Load Carrier	International Journal of Innovative	Scopus	8(4)	2019-2020
61	Aakash D Bansal1, N Ramachandran2 and V Rastogi1	Studies on the effects of braking loads on a Railway Wheel	IOP Conference Series: Materials Science and Engineering	Scopus	691 012019	2019-2020
62	Ramachandran N, Neelesh kumar N , Rajeshwaran S K	Design and fabrication of Semi-Automated Lawn Mower	International Journal of Innovative Technology and Exploring Engineering	Scopus	2019	2019-2020
63	Karthickeyan V., Balamurugan S., Ashok B., Thiagarajan S., Mohamed Shameer P., and Dhinesh Balasubramanian	Process Optimization Study of Alternative Fuel Production From Linseed Oil, Recent Technologies for Enhancing Performance and Reducing Emissions in Diesel Engines	IGI global	Scopus	234-249	2019-2020
64	, Jeyaseelan R, Sree Harrish S	Microstructure and Mechanical Properties of Cold Metal Transfer Welding AA6082-T4 Alloys,	Indian Journal of Science and Technology	WoS	12(42)	2019-2020
65	Ranjith Kumar S, Ramachandran N, Arvind M, Divaakar D, Dineskumar P, Adhith S	Effect on the Mechanical Properties of Za-27 Graphite Reinforces Composites when routed	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	Scopus	8	2019-2020
66	Parthipan G, Dhivyaneswaran J, Vimal raja M, Rajesh K, Sanjeeviraj K	Fabrication of Wireless Remote Controlled Electric Lawn Mower/	International Journal of Innovative Technology and Exploring Engineering	Scopus	8(10)	2019-2020
67	J.Dhiyaneswaran, S.Mohamed Raakin , M.Praveen Kumar, A.Kapilan, J.Manikandaprasanth	Performance Optimization of CI Engine Fueled by Biodiesel and Hydrogen with Dee Injection/	International Journal of Innovative Technology and Exploring Engineering	Scopus	8(7)	2019-2020
68	Kumar , A. Mohan , M. Jemimah Carmichael , Anand Mohan , T.C. Manjunath , Makarand Upadhyaya , V.M. Jothiprakash	Design and development of rescue robot in borewell environment	Materials Today Proceedings	Scopus	13-07-1905	2019-2020

69	J. Dhiyaneswaran, K. Rajesh, K. Sanjeeviraj	Performance and Emission Characteristics of Dual Fuel CI Engine	International Journal of Innovative Technology and Exploring Engineerin	Scopus	8(9)	2019-2020
70	J. Baskaran, Raghavar P, Ramakrishnan C, Renga Prashad A, Monish Kumar R	Investigation on the Influence of Heat Treatment of Mechanical Behavior Enhancement of A356 Alloy	Materials Today: Proceedings, 2019	Scopus	10(3)	2019-2020
71	S.P. Vinith	INVESTIGATION ON MECHANICAL PROPERTIES OF GAS METAL ARC WELDED STAINLESS STEEL SPECIMENS USING AND TAGUCHI METHOD	International Journal of Mechanical Engineering and Technology (IJMET)	Scopus	10(1)	2019-2020
72	S Vignesh, R Ramamoorthi and N Aravindkumar	Effect of various parameters on the performance of vortex tube cooling system	IOP Conf. Series: Materials Science and Engineering	Scopus	993	2019-2020
73	Sathishkumar Kuppuraj, Soundararajan Ranganathan, Sathishkumar Aruchamy, and Shanthosh Gopal	Investigation of Dry Sliding Wear Behavior of AA8011 Reinforced with Zirconium Oxide and Aluminium Oxide Hybrid Composites Processed through Multi-Direction Forging /	SAE Technical Paper	Scopus	2019-28-0057	2019-2020
74	K. Kaviyarasan a, R. Soundararajan b, P. Seenivasaperumal c, A. Sathishkumar b, J. Pradhee p kumar a	Experimental Investigation of Dry Sliding Wear Behaviour on Ceramic Reinforced Magnesium Composite by Powder Metallurgy Technique /	Materials Today: Proceedings	Scopus	18	2019-2020
75	Arun Kumar Rajamanickam1, V C Uvaraja2, D Selvamuthukumaran2 and A Shanmugasundaram3	Experimental Investigation on Production of Jatropha Methyl Ester	IOP Conference Series: Materials Science and Engineering	Scopus	764(1)	2019-2020
76	Ashokavarthanhan P, Darshan Rajasekaran, Sheril Santacruz, Venkata Krishnan Ravichandran	Simulation of Chinese finger grip braided sleeve designs for transtibial prosthetics,	Malaysian Journal of Fundamental	Wos	15(1)	2019-2020
77	R. Ben Ruben and P. Ashoka Varthanhan	Application of total interpretive structural modeling (TISM) approach for analysis of barriers in deploying circular supply chains /	Indian Journal of Science and Tech	UGC CARE	12(24)	2019-2020
78	L. Feroz Ali a, R. Soundararajan b, S. Jeyasurya a, M. Kovarthanam a, S. Naveen Prasath a	Metallurgical assessment of AA7075 – T6 with xwt% tungsten carbide nano particle surface composites processed by FSP route,	Materials Today Proceedings,	Scopus	2020-28-0404	2019-2020
79	R. Soundararajan, M.P. Ramprakash, T.J. Muthu Vel, M. Ratteesh, S. Puvanesh Kumar	Investigation of metallurgical and mechanical behavior of forged aluminium alloy hybrid composites,	Materials Today Proceedings,	Scopus	45(2)	2019-2020
80	K. Sathish Kumar a, R. Soundararajan a, G. Shanthosh a, P. Saravanakumar b, M. Ratteesh a	Augmenting Effect of Infill Density and Annealing on Mechanical Properties of PETG and CFPETG Composites Fabricated by FDM",	Materials Today Proceedings,	Scopus	45(2)	2019-2020
81	R. Soundararajan, R. Ajith, C. Mahesh kumar, U. Sabarivasan, J. Sonu Mourya	A novel approach for design and analysis of an all-terrain vehicle roll cage,	Materials Today Proceedings,	Scopus	45(2)	2019-2020
82	auth-R_-Soundararajan	Optimization of WEDM process parameters by RSM in machining of stir cum squeeze cast A413-B4C composites,	SN Applied Sciences,	WOS & Scopus	1768 (2020)	2019-2020
83	Balasubramanian Kaliyaperumal, Jeyakumar Rengaraj, Ramamoorthi Rangasamy, Soundararajan Ranganathan	Experimental Studies on Weldability of Oil Hardening Non-Shrinking Die Steel, SAE Technical Paper,	SAE Technical Paper,	Scopus	2020-28-0424	2019-2020

84	Feroz Ali Liyakath Ali, Anandaraj Soundarajan, Deepak Raj Kanagaraj, Gajendran Niranjan, Soundararajan Ranganathan	Unraveling the Mechanical Behavior of AA 7075 – WC Nanocomposites Developed through FSP Route,	SAE Technical Paper,	Scopus	2020-28-0404	2019-2020
85	Kaviyarasan Kalaiarasen, Soundararajan Ranganathan, Saranyan Guruswamy, Saranyan Kathiresan, Balakumaran Nagarajan	Computation Design and Analysis of Brake Disc with Various Profiles,” SAE Technical Paper,	SAE Technical Paper,	Scopus	2020-28-0350	2019-2020
86	Shanthosh Gopal and Soundararajan Ranganathan, and Sathish Kumar K	Tribological Behaviour of Carbon Fibre Reinforced Bio Degradable Material as an Alternative Frictional Brake Pad in Automobiles, SAE Technical Paper,	SAE Technical Paper,	Scopus	2020-28-0513	2019-2020
87	Sathishkumar Kumar K, Shanthosh gopal, Soundararajan Ranganathan, and Sathishkumar Aruchamy	Design and Analysis of Air Compressor Intake Valve Body Casing by Metallic Material and Hybrid Polyamide Composite, SAE Technical Paper,	SAE Technical Paper,	Scopus	2020-28-0377	2019-2020
88	Soundararajan Ranganathan, Shanthosh gopal, Sridhar eswaran, Suganthan muthusamy	Design and Analysis of Steering Knuckle for FSAE Vehicle, SAE Technical Paper,	SAE Technical Paper,	Scopus	2020-28-0506	2019-2020
89	Soundararajan Ranganathan, Shanthosh gopal, Sachin Adithya, Sanjeev venkatesan	Design and Analysis of Hybrid Composite Brake Disc with Various Grooves, SAE Technical Paper,	SAE Technical Paper,	Scopus	2020-28-0503	2019-2020
90	Soundararajan Ranganathan, Saravana kumar, Shoban thirunavukkarasu, Sendil P Muthuswamy	Modular Design and Analyze of Air Intake Manifold for Formula Vehicle, SAE Technical Paper,	SAE Technical Paper,	Scopus	2020-28-0392	2019-2020
91	Soundararajan Ranganathan, Akash Jayaraman, Sabarivasan Udhayakumar, Sathish Kumar K	Design Modification of Brake Disc and Brake Pad to Increase the Heat Transfer Rate and Clamping Area through Thermal and Structural Analysis for Automobiles, SAE Technical Paper	SAE Technical Paper,	Scopus	2020-28-0392	2019-2020
92	Soundararajan Ranganathan, Vishaal Aravinth, Shanthosh gopal, Ajith Raja, Pradeep C	Design and Analysis of Steering Knuckle at Diverse Strengthening Condition, SAE Technical Paper,	SAE Technical Paper,	Scopus	2020-28-0501	2019-2020
93	Soundararajan Ranganathan, Sathish Kumar K and Shanthosh Gopal, and Ramprakash Palanivelu	Enhancing the Tribological Properties PETG and CFPETG Composites Fabricated by FDM via Various Infill Density and Annealing, SAE Technical Paper,	SAE Technical Paper,	Scopus	2020-28-0429	2019-2020
94	Soundararajan Ranganathan, Sathish Kumar K, Shanthosh gopal, Pradeep C	The Effect of Print Orientation and Infill Density for 3D Printing on Mechanical and Tribological Properties, SAE Technical Paper,	SAE Technical Paper,	Scopus	2020-28-0411	2019-2020
95	Soundararajan Ranganathan, Sivakumar Nallappan Sellapan and Sathish Kumar K	Enhancing the Mechanical and Metallurgical Behavior of Post-Processing on Friction Stir Processed AA8011 with NiTi-SMAs and Si3N4 Surface Hybrid Composites, SAE Technical Paper,	SAE Technical Paper,	Scopus	2020-28-0419	2019-2020
96	Soundararajan Ranganathan, Shanthosh gopal, Sathishkumar Aruchamy, Ashokavarthanhan Perumal	Assessment of the Metallurgical and Mechanical Properties of Stircum Squeeze Cast A356 with 5wt. % SiC and x wt. % Flyash Hybrid Composites, SAE Technical Paper,	SAE Technical Paper,	Scopus	2020-28-0397	2019-2020
97	Soundararajan Ranganathan, Shanthosh gopal, Sathishkumar Aruchamy, Ashokavarthanhan Perumal	Exploration on WEDM process parameters effect on LM13 alloy and LM13/SiC composites using Taguchi method,	Materials Today Proceedings,	Scopus	45(2)	2019-2020

98	V. Boobesh Nathan , R. Soundararajan , C. Brainard Abraham , E. Vinoth , J.K. Narayanan	Study of mechanical and metallurgical characterization of correlated aluminium hybrid metal matrix composites,	Materials Today Proceedings,	Scopus	45(2)	2019-2020
99	K. Sathishkumar a, R. Soundararajan a, N.S. Sivakumar b, G. Shanthosh a, C. Pradeep c	Investigation of A413 alloy with reinforcement of SiC and flyash hybrid composites by stir cast cum forged process on electric vehicle In-wheel motor casing,	Materials Today Proceedings,	Scopus	45(2)	2019-2020
100	R. Soundararajan, Vishaal Aravinth, M. Vallarasu, S. Ranjith	Mechanical and tribological behaviour of friction stir welded joint on AA8011 at diverse strengthening condition through post processing,	Materials Today Proceedings,	Scopus	45(2)	2019-2020
101	C Rajendran1, E Suryaprakash2, V Sivasankar2, P Suryaprakash2 and K Rohith2	Predict the Tensile Strength of Friction Welded Steel/ASS304L Dissimilar Joints	IOP Conference Series: Materials Science and Engineering	Scopus	995 012042	2019-2020
102	Jeyakumar, Ramamoorthi	Investigation on Mechanical Properties of Coconut Fiber reinforced Polyester Composites	International Journal of Innovative Technology and Exploring Engineering	Scopus	2019	2019-2020
103	R. Ramamoorthi, R. Soundararajan and R. Jeyakumar	Experimental Investigations of Mechanical Properties of Sisal Fiber / Cashew nut shell dust Strengthened Hybrid Epoxy Composites	Indian Journal of Science and Technology	WoS/Scopus	2019	2019-2020
104	Rajesh A, G. Vignesh Subramaniam, G.Shanthosh and T.Shoban	Investigation of surface property of AA2024 T3 when shot peened using glass beads / International Journal of Mechanical Engineering and Technology	International Journal of Mechanical Engineering and Technology (IJMET)	Scopus	2019	2019-2020
105	A. Rajesh, P. Ashoka Varthanam, J. Srikant, T. Shoban, K.S. Sanjayakanna, P.V. Suchith	Optimization of shot peening process parameters using PSO algorithm to maximise the fatigue strength, flexural strength and surface harness of AA2024-T3 alloy	Materials Today: Proceedings	Scopus	2020	2019-2020

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Sl.No	Authors Name	Title of the paper/ Journal	Name of the journal	Indexed in	Vol.No/Issue	Academic Year
1	B. Ashok a, K. Nanthagopal , Ong Hwai Chyuan , Phung Thi Kim Le , Kedar khanolkar , Nina d Raje , Arun Raj , V. Karthickey	Multi-functional fuel additive as a combustion catalyst for diesel and biodiesel in CI engine characteristics	Fuel	WoS/Scopus	278( 15)	2020-2021
2	Ghanta Ram Sai Avinash , C. Kavitha b, B. As hok a, R. Vignesh a, Vaibhav Ve nkat a, V. Karthickeyan c	Study of diesel fuel multiple injection characteristics using shadow-graphic imaging technique with CRDI system in constant volume chamber	Fuel	WoS/Scopus	279(1)	2020-2021
3	V.P. Srinivasan , P.K. Palani	Surface integrity, fatigue performance and dry sliding wear behaviour of Si3N4-TiN after wire-electro discharge machining	Ceramics International	WoS/Scopus	46(2020)	2020-2021
4	N.Balaji,S.Balasubramani,T.Ram akrishnan,Y.Sureshbabu	Experimental investigation of chemical and tensile properties of sansevieria cylindrica fiber composites	Material Science Forum	Scopus	979	2020-2021
5	Balasubramani Subramanian3,1, Balaji Natarajan2, Balasubramanian Kaliyaperumal2 and Samson	Wear behaviour of aluminium 7075 boron carbide coconut shell fly ash reinforced hybrid metal matrix composite	Materials Research Express	WoS/Scopus	6	2020-2021
6	Ashokavarthan an P,Sureshbabu.Y	Optimization of Performance and Emission Characteristics of Catalytic Coated IC Engine with Biodiesel Using Grey-Taguchi Method,	Scientific Reports	WoS/Scopus	10 (1)	2020-2021
7	Ashokavarthan an P,Vijay Prakash G,Vigneshkumar M,Balu Mahandiran S,Sekar P	Multi- objective optimization of process parameters in dry sliding wear characteristics of Al/SiC composite using Taguchi grey relation analysis	Journal of Critical Reviews	Scopus	42(8)	2020-2021
8	Ashokavarthan an P	Modification and simulation of double wishbone front suspension in safari SUV,	Journal of Critical Reviews	WoS/Scopus		2020-2021
9	Yuvaraj Kunnathur Periyasamy, Ashoka Varthan an Perumal, Boopathiraja Kunnathur Periyasamy	Optimization of process parameters on friction stir welding of AA7075-T651 and AA6061 joint using response surface methodology,	Materials Research Express	WoS/Scopus	7(6)	2020-2021
10	Yuvaraj Kunnathur Periyasamy, Ashoka Varthan an Perumal , Boopathiraja Kunnathur Periyasamy	Influence of Tool Shoulder Concave Angle and Pin Profile on Mechanical Properties and Microstructural Behaviour of Friction Stir Welded AA7075-T651 and AA6061 Dissimilar Joint,	Transactions of the Indian Institute of Metals	WoS/Scopus	72 (4)	2020-2021
11	G. Gokilakrishnan; P. Ashoka Varthan an	Development of manufacturing-distribution plan considering quality cost,	International Journal of Enterprise Network Management	WoS/Scopus	10 (3-4)	2020-2021

12	Ramamoorthi, R; Joseph, J Dixon Jim; Samuel, C Samson Jerold, Hillary, J Justin Maria;	A study on microstructural effect and mechanical behaviour of Al6061–5%SiC–TiB2 particulates reinforced hybrid metal matrix composites	Journal of Composite Materials	WoS/Scopus	54(17)	2020-2021
13	S Raja, R Saranya, V SaiYaswanth, A SachinAdithya and M B Rohith Kumar	A Review On Influencing Welding Parameters Of Super Alloys	Material Science And Engineering	Scopus	995	2020-2021
14	Samson Jerald Samuel C,Gnanasekaran S,Ramesh Arthanari	Developing an Empirical Relationship to Predict the Wear Characteristics of Ni-Based Hardfaced Deposits on Nuclear Grade 316LN Austenitic Stainless Steel	Advances in Materials Science and Engineering	WoS/Scopus	2021	2020-2021
15	Samson Jerald Samuel C,Gnanasekaran S,Sivananthan S,Ramakrishnan Thirumalaisamy	Optimizing the Characteristics of the Laser Hardfacing Process Parameters to Maximize the Wear Resistance of Ni-Based Hard-Faced Deposits Using the RSM Technique	Advances in Materials Science and Engineering	WoS/Scopus	2021	2020-2021
16	Samson Jerald Samuel C,Vadivel P,Velmurugan C	Experimental investigation on mechanical properties and wear characterization of Al-Si12CuMg1 aluminium alloy reinforced with titanium diboride and boron carbide particulate hybrid composites using stir casting process	Materialwissenschaft und Werkstofftechnik	WoS/Scopus	173-190	2020-2021
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18	Raghuvaran P, Suresh M, Baskaran J, Arun Prasad S, Charan M K, Dhananjayan T	Investigation on Characteristics of Stir Casted Aluminium Matrix Composites – A Review	Advances in materials science	Scopus	841-851	2020-2021
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23	Rajendran C a, Abdulriyazdeen A , Abishek S , Aatheeshwaran A , Akash A	Prediction of relationship between angular velocity to the pitch line velocity ( $\omega/v$ ) on tensile strength of friction stir welded AA2014-T6 Aluminium alloy joints: Angular velocity to pitch line velocity ratio on FSW joints -	Forces in mechanics	Scopus	4, 100036	2020-2021

24	R. Soundararajan, S. Sivasankaran, N. Babu & G. Prithivi Raj Adhithya	Appraisal of tribological properties of A356 with 20% SiC composites under dry sliding condition	Journal of the Brazilian Society of Mechanical Sciences and Engineering	WoS/scopus	42(3)	2020-2021
25	Karthik S;V P Arunachalam	Investigation on the tensile and flexural behavior of coconut inflorescence fiber reinforced unsaturated polyester resin composites	Materials Research Express	Scopus/WoS	7(1)	2020-2021
26	R. B. Manoram, R. Sathiya Moorthy & R. Ragunathan	Investigation on influence of dimpled surfaces on heat transfer enhancement and friction factor in solar water heater	Journal of Thermal Analysis and Calorimetry	WoS/SCOPUS	58	2020-2021
27	Srinivasan V P	Microstructure and Mechanical Properties of Welded Joints of AA6061-T6 Alloy by Cold Metal Transfer Method	International Journal of Innovative Technology and Exploring Engineering	UGC care	9(6)	2020-2021
28	Sivasubramanian R, G. Kumaresan, N. Neelesh Kumar, S.K. Rajeshwaran, R. Jeyaseelan, V. Manikandan, B.	Design and Analysis of Air Powered Vehicle Frame	Material today Proceedings	Scopus	45	2020-2021
29	Sivasubramanian R, Kumaresan G , Palanivel R , Nishanth kalathil P , Nirmal B	Comparative performance analysis of parabolic trough solar collector by varying absorber surface	Material today Proceedings	Scopus	45	2020-2021
30	Babu N, S. Udhayakumar c,M. Samuel Gemsprima	Tribological evaluation of vegetable oil-based lubricant blends	Materials Today Proceedings	Scopus	37 (2021)	2020-2021
31	Balamahendiran N, P. Ashoka varthanhan, D. Barath, U. Dhyaneswar, P. Varun,M. Vigneshkumar	Challenges and possibilites in the resistance spot welding of dissimilar metals – A review	Material today proceedings	Scopus	37 (2021)	2020-2021
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33	Balamahendiran N; Vigneshkumar M. ; Ashoka Varthanhan P. ; Abishek S. ; Abdulriyazdeen A. ; Abilash S.	Investigation of Solid State Welding of Copper Nickel Alloy (Cu-Ni 90/10)Using FSW Process	IOP Conference Series	Scopus	1145 (2021)	2020-2021
34	Gunasekaran K N, K. Logesh , S. Joe Patrick Gnanaraj , A. Abdul Munaf ,Jebaraj Jeremy Jeba Samuel , R. Ramadoss	Studies on mechanical properties and Characterization of carbon fibre reinforced hybrid composite for aero space application	Materials today proceedings	Scopus	47	2020-2021
35	Gunasekaran K N; Vishaal Aravinth, C.B. Muthu Kumaran, K. Madhankumar, S. Pradeep Kumar	Investigation of mechanical properties of PLA printed materials under varying infill density	Materials today proceedings	Scopus	45	2020-2021

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37	Gunasekaran K N	Automatic Gear Shifting Mechanism using Fuzzy logic controller	International Journal of Innovative Technology and Exploring Engineering	Scopus	8	2020-2021
38	Ramachandran N, J. Ajay Aravind, M. Ajithkumar, K. Arun Kumar, M. Dhivakar,R. Jeyakumar	Development and Conception of Versatile Agricultural Machine	Material Today Proceedings	Scopus	37	2020-2021
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41	Balamurugan S, B. Balakarthick, S. Devva Darshan, A.B. Dhanush Prabhu,V.P. Srinivasan	Experimental investigation on ultrasonic metal welding of copper sheet with copper wire using Taguchi method	, Materials Today: Proceedings	Scopus	45(2)	2020-2021
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49	Baskaran J, C. Aagash, A. Ganesh, S. Gopi Krishna,P. Raghuvaran	Evaluation of mechanical properties of Al7075-SiC composites fabricated through stir casting technique	Materials Today: Proceedings, 2021	Scopus	45(2)	2020-2021
50	Baskaran J,M. Suresh, P. Raghuvaran, V. K. Dharsan, A. Afesul Gayoom & S. Dharaneetharan	Mechanical Behavior Investigation of Copper-Added A356 Alloy	Springer Proceedings in Materials	Scopus	853–858	2020-2021
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55	Vignesh S, R. Ramamoorthi , N. Aravindkumar	An alternate sleeve design in transtibial prosthetics	Materials Today Proceedings	Scopus	45 (2)	2020-2021
56	Sathishkumar Aruchamy, Soundararajan Ranganathan, Sathish Kumar K, Akilesh Ramasamy,	Design and Couple Field Analysis of Uncoated and Coated Aluminium Metal Matrix Hybrid Composite Piston	SAE Technical Paper	Scopus	2020-28-0391	2020-2021
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69	Soundararajan R, Sait Javid Firnas, Nandakumar Naveen raj, sabapathy pradeep s	Tribological Evaluation of Organic Frictional Composites Filled with Various Nano-Solid Lubricants, SAE Technical Paper	SAE Technical Paper	Scopus	2021-28-0262	2020-2021
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78	Arun KurienReji, KumaresanG, SarathiA, Saiganesh Arasappa G.P Suriya KumarR Shelton Matthew M	<a href="#">Performance analysis of thermosyphon heat pipe using aluminum oxide nanofluid under various angles of inclination</a>	Materials Today proceedings	Scopus	45( 2)	2020-2021
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96	Jayakumar R, N. Ramachandran, J. Ajay Aravind, M. Ajithkumar, K. Arun Kumar, M. Dhivakar	Development and conception of versatile agricultural machine	Materials Today: Proceedings	WoS/Scopus	37	2020-2021
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105	Manoram R B,S. Dinesh Krishnaa, M. Baranitharan, K. Gokulakrishnan, M. Dinesh Krishna, Rithish Krishna V. Raja	An experimental study about the heat transfer rate and intermediate surface temperature analysis through traditional method of composite wall heat transfer	Materials Today: Proceedings	SCOPUS	37(2)	2020-2021
106	Manoram R B,T Nagulan, B Kaviness, JK Kishore Kannan, B Kowshik	Numerical investigation on flat plate collector with struts for drying of fruits and vegetables	IOP Conference Series: Materials Science and Engineering	SCOPUS	993	2020-2021
107	Ashoka Varthanhan Perumal, Jayasuryaa Jagadeesan, Pranav kaladharan, Harsha Vardhan Nagarajan	Optimization of WEDM process parameters for D3 die steel using RSM	Materials Today: Proceedings	Scopus	37(2)	2020-2021
108	R Arunbharathi, P Ashoka Varthanhan, R Jayasurya, SV Kavin, S Jayasuriya	Experimental Study and Determination of the Effect of Drilling EDM Parameters for Incoloy 800 Alloy	IOP Conference Series: Materials Science and Engineering	Scopus	6(1)	2020-2021
109	Arunbharathi Ramaswamy , Ashoka Varthanhan Perumal	Multi-objective optimization of drilling EDM process parameters of LM13 Al alloy–10ZrB2–5TiC hybrid composite using RSM/	Journal of the Brazilian Society of Mechanical Sciences and Engineering	Scopus/WoS	42(8)	2020-2021
110	Yuvaraj K P, Ashoka Varthanhan P, Haribabu L. a, Madhubalan R. , Boopathiraja K.P	Optimization Of FSW Tool Parameters For Joining Dissimilar AA7075-T651 And AA6061 Aluminium Alloys Using Taguchi Technique	Materials Today Proceedings	Scopus	45, 919-925	2020-2021
111	Yuvaraj K P,Boopathiraja K.P, Ramamoorthi R, Vadivel Vivek V, Vickram K. c, Vinodh Kumar S.	Characterization and Surface Modification On Composites By Friction Stir Processing – A Review	Materials Today Proceedings	Scopus	45, 1156-1160	2020-2021
112	Yuvaraj K P, C. Gokul, S.J. Eashwar, N. Arunkumar, S. Abith Tamil Dheen,R. Ramamoorthi	An Investigation Of The Impact Of Axial Force On Friction Stir-Welded AA5086/AA6063 On Microstructure and Mechanical Properties Butt Joints	Materials Today Proceedings	Scopus	253-272	2020-2021
113	Srinivasan V P,S. Balamurugan, B. Balakarthick, S. Devva Darshan, A.B. Dhanush Prabhu	Experimental investigation on Ultrasonic Metal Welding of copper sheet with copper wire using Taguchi method	Materials Today Proceedings	Scopus	45(2021)	2020-2021

114	Balaji N, Prabhushankar N	Various alternative sources for silica sand, binders and additives in sand casting and their properties - A review	IOP Conference Series: Materials Science and Engineering	Scopus	993	2020-2021
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Publication details for AY: 2021-2022

<b>Sl.No</b>	<b>Authors Name</b>	<b>Title of the paper/ Journal</b>	<b>Name of the journal</b>	<b>Indexed in Scopus/WoS/ UGC care</b>	<b>Vol.No/I ssue No</b>	<b>Academic Year</b>
1	V.P. Srinivasan , P.K. Palani , S. Balamurugan	Experimental investigation on EDM of Si3N4-TiN using grey relational analysis coupled with teaching-learning-based optimization algorithm	Ceramics International	WoS/Scopus	47(2021)	2021-2022
2	R. Soundararajan , K.R. Ramkumar , S. Sivasankaran Hyoung Seop Kim	Enhancement of tensile strength in AA 6061-T6 plates joined by gas tungsten arc welding using high entropy alloy filler sheet,	Materials Science & Engineering A,	Scopus / WoS	832,	2021-2022
3	A Sathish Kumar, Soundararajan R, Sivasankaran	Effect of Direct Aging on the Microstructure and Mechanical Behavior of AlSi10Mg Alloy: Casting Versus Selective Laser Melting :	Journal of Materials Engineering and Performance	Wos/ Scopus	1(5)	2021-2022
4	N Ramachandiran, Sivasubramanian R, Palanivel, Nishanth Kalathil, Nirmal	Design and Fabrication of Hybrid Mobility Scooter	Advances in Materials Research	Scopus	5(1)	2021-2022
5	Soundararajan, R.; Sathishkumar, A.; Sivasankaran, S.; Shanthosh, G.; Karthik, S.	Evaluation of Microstructures, Mechanical and Dry-Sliding Wear Performance of A356-(Fly Ash/SiCp) Hybrid Composites/International	International Journal of Metalcasting	WoS / Scopus	16	2021-2022
6	Ramamoorthy K	Development of bamboo Ash-Al hybrid reinforce with Al2O3 priduced by stir casting technique	JCPR Journal	Scopus / WoS	22(4)	2021-2022
7	T. Nithyanandhana and R. Ramamoorthib,	Investigation on Microstructural Characterization and Mechanical Behaviour of Aluminium 6061 – CSFA / Sicp Hybrid Metal Matrix Composites	Silicon	Scopus / WoS	14	2021-2022
8	Manickaraj, Ramamoorthy K , Makesh Kumar	Effect of hybridization of novel African teff and snake grass fibers reinforced epoxy composites with bio castor seed shell filler: Experimental investigation	Polymers and Polymer Composites	WoS , Scopus	30	2021-2022
9	T. Nithyanandhana and R. Ramamoorthib,*	EFFECT OF CHICKEN BONE ASH ON MECHANICAL PROPERTIES OF AI 8011 REINFORCED WITH SILICON CARBIDE	Journal of Engineering Research	Scopus	22(4)	2021-2022

10	<b>T. Ramakrishnan,S.</b> Senthil Kumar, Samson Jerold Samuel Chelladurai,S. Gnanasekaran,N. K. Geetha, Ramesh Arthanari, and <b>Baru Debtera</b>	Effect of Moisture Content on Mechanical Properties of AAM Natural Fiber-Reinforced Isophthalic Polyester Composites	Advances in Materials Science and Engineering	Scopus / WoS	2022	2021-2022
11	<b>P. Gnaneswaran,V.</b> Hariharan, Samson Jerold Samuel Chelladurai,G. Rajeshkumar,S. Gnanasekaran,S. Sivananthan, and <b>Baru Debtera</b>	Investigation on Mechanical and Wear Behaviors of LM6 Aluminium Alloy-Based Hybrid Metal Matrix Composites Using Stir Casting Process	Advances in Materials Science and Engineering	Scopus / WoS	2022	2021-2022
12	<b>M. Bakkiyaraj,S.</b> <b>Gnanasekaran</b> , Samson Jerold Chelladurai Samuel, K. Murugan, S.T. Selvamani, and <b>Yosef Asrat Waji</b>	Influence of Process Parameters on Tensile Strength of the Friction Welded AA6063-T6 Joints by Box-Behnken Design Approach	Advances in Materials Science and Engineering	Scopus / WoS	2022	2021-2022
13	Rajendran C, R Ben Ruben, P Ashokavarthanhan, K Mallieswaran	Identifying the Effect of PWHT on Strength of Laser Beam Welding Joints of AA2024 Aluminum Alloy.	ASME Open Engineering	Scopus	1	2021-2022
14	Kuppusamy Mallieswaran , Shanmugam Rajasekaran , Mari Vinoth Kumar and Chinnasamy Rajendran	Steel shot peening effects on friction stir welded AA2014-T6 aluminum alloys	Materials Testing	Scopus/Wos	64 (8),	2021-2022
15	<b>R. Suresh Kumar,1S.</b> Senthil Kumar, 2C. Rajendran, 3Samson Jerold Samuel Chelladurai, 3and <b>Gizachew Balcha</b> 4	Investigation on Corrosion Behaviour of LM25-SiCp Composite Using Taguchi Method	Advances in materials science and engineering	Scopus/Wos	2022	2021-2022

16	Gokilakrishnan Gopal ht tps://orcid.org/0000-0002-3876-1759 ggokilakrishnan@gmail.com and Vignesh Kumar Murugesan	Comparative assessment over the selection of lean supply chain practices through fuzzy integrated principal component analysis, gray relational analysis, and complex proportional assessment approaches	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	WOS	2	2021-2022
17	R. Sivakumar,B. R. <u>Senthil Kumar,G.</u> <u>Gopalarama</u> <u>Subramaniyan,M.</u> <u>Sivaraja,M. P.</u> <u>Natarajan,Pravin P.</u> <u>Patil,S. Kaliappan,K. P.</u> <u>Yuvaraj, and Kassie Jemberu Abebe</u>	Microstructure And Mechanical Behaviour Of Ti-6Al-4V Matrix Reinforced With WCP Developed By Squeeze Casting	Journal Of Nanomaterials	Scopus/WoS	2022	2021-2022
18	G. Gokilakrishnan,R. Sathishkumar,N. S. Sivakumar,S. Kaliappan,S. Sekar,Pravin P. Patil,Ram Subbiah,K. P. Yuvaraj, and Feleke Worku Tadesse	Wear Behavior And Fesem Analysis Of LM 25 Alloy MMHC'S Reinforced With FE3O4 and GR By Utilizing Taguchi's Technique	Journal Of Nanomaterials	Scopus/WoS	2022	2021-2022
19	Manoram R B, Sathiayamoorthy	Experimental investigation on energy and exergy analysis of solar water heating system using cobalt oxide based nanofluid	Journal of Heat Transfer	Scopus/WoS	145	2021-2022
20	Soundararajan, Karthick S	Evaluavtion of microstructure , mechanical and dry sliding wear performance of A356-(FLy ash/SiCp) Hybrid composites	International Journal of metal casting	Scopus/WoS	16	2021-2022
21	Babu N, Mehalingam N	Microstructural, mechanical and tribological characterization of ZrB2 reinforced AZ31B surface coatings made by friction stir processing	Journal of Adhesion Science and Technology	WoS/scopus		2021-2022
22	Babu N, Mehalingam N	Experimental study on mechanical and tribological behaviour of Ti-3Al-2.5V alloy at high load condition using response surface methodology	Advances in Material Processing Technologies	WoS/scopus	8(3)	2021-2022
23	Balumahendiran N, Vartika Kulshrestha	Fuzzy-based optimization and linear feedback fluid actuators for soft handheld robots	International Journal of Health Sciences	Scopus	11093–1 1114	2021-2022
24	Balumahendiran N, Vartika Kulshrestha	Evaluation of image quality based on visual perception using antagonistic networks in autonomous vehicles	International Journal of Health Sciences	Scopus	11071–1 1092	2021-2022

25	<u>P Devendran, PA Varthanhan</u>	Prediction of weldment mechanical properties in GMAW with robot-assisted using fuzzy logic systems,	Materials Research Express	Scopus / WoS	8 (12),	2021-2022
26	C. SELVA SENTHIL PRABHU, P. ASHOKA VARTHANAN , and T. RAM KUMAR	Shot peening effects on fatigue life, corrosion behavior and surface roughness of low carbon alloy steel,	Bulletin of the Polish Academy of Sciences: Technical Sciences	Scopus / WoS		2021-2022
27	Yuvaraj K.P., Ashoka Varthanhan P, Haribabu L . Madhubalan R. Boopa thiraja K.P.	Optimization of FSW tool parameters for joining dissimilar AA7075-T651 and AA6061 aluminium alloys using Taguchi Technique,	Materials Today: Proceedings	Scopus	45,	2021-2022
28	R. Soundararajan , K.R. Ramkumar , S. Sivasankaran , Hyoung Seop Kim	Enhancement of tensile strength in AA6061-T6 plates joined by gas tungsten arc welding using high entropy alloy filler sheet	Materials Science and Engineering A	Scopus / WoS	832	2021-2022
29	Soundararajan R, Ferous Ali, A Sathish Kumar	Exploration of Various Forging Route Performance of Cast A356 Alloy Reinforced with Fly Ash and MWCNT Hybrid Composites /	J. Inst. Eng. India Ser. D	Scopus / WoS	1(10)	2021-2022
30	Sivakumar, N.S., Thangarasu, V.S., Soundararajan,	Mechanical and machining behaviour of betel nut fiber/leather/chitin-toughened epoxy hybrid composite,	Biomass Conversion and Biorefinery,	Scopus / WoS	1(8)	2021-2022
31	V. Kavitha <sup>1</sup> , R. Soundararajan <sup>2</sup> , V. Senthil <sup>3</sup>	Effect of cryogenic treatment on nitinol alloy reinforced with mwcnt and its effect on high temperature wear analysis,	Journal of Ceramic Processing Research.	Scopus / WoS	23 (3),	2021-2022
32	R Soundararajan, LF Ali, MS Srinidhi	Notch tensile and dry sliding wear studies on Mg-Nd-Gd-Zn alloy,	Surface Topography: Metrology Properties,	Scopus / WoS	10 (1),	2021-2022
33	Kaviyarasan, K., Soundararajan, R., Roger, R.R.	Assessing the Tribological Behaviour of Stir Casted AA 6063 with xwt% ZrSiO4 and 6wt% TiB2 Hybrid Composites,	J. Inst. Eng. India Ser. D,	Scopus	1(10)	2021-2022
34	Kaviyarasan, K., Soundararajan, R., Roger, R.R.	Assessment of Mechanical and Tribological Characteristics of A356 Reinforced with x wt% CaB6 Composites,	J. Inst. Eng. India Ser. D,	Scopus	103 (1)	2021-2022
35	Arunkumar R, V C Uvaraj	Assessment of mechanical properties of LM13 aluminum alloy hybrid metal matrix composites	Materials Research Express	Scopus/WoS	9(7)	2021-2022
36	Balaji.N, Madan Kumar, Manonmani	Optimization of ultimate tensile strength of welded Inconel 625 and duplex 2205	Journal of Mechanical Engineering and science	Scopus	15 (1),	2021-2022
37	Srinivasan V P, Ravi Rai, Arul Jothi,	Experimental investigation on electro discharge machining of aluminium alloy (Al 2014) using GRA	AIP conference proceedings	WoS/Scopus	2527(1)	2021-2022

38	Srinivasan V P, Ravi Rai, Arul Jothi,	Optimization of Electrical Discharge Machining Process Parameters of Titanium Alloy using Taguchi Methodology	AIP conference proceedings	WoS/Scopus	2527(1)	2021-2022
39	R. Siva Subramanian a, G. Kumaresan b, R. Ajith a, U. Sabarivasan a, K.K. Gowthamaan a, S. Anudeep	Performance analysis of Modified solar still integrated with Flat plate collector	Material today Proceedings	Scopus	45	2021-2022
40	K N Gunasekaran, D Balamuruga, M Babin, K J Barath Rajand S Arun	Influence of pitting corrosion on TIG Welded Joints of AA2024 Aluminum Alloy Joints	Journal of Physics: Conference Series	Scopus	2115/1-12052	2021-2022
41	K N Gunasekaran, D Balamurugan, M Babin, K J Barath Raj and S Arun	Developing empirical equation to predict shear strength of friction stir welded AA2024 aluminum alloy joints	AIP Conference Proceedings	WoS/Scopus	2527 (1),	2021-2022
42	N Ramachandran, RN Vyas...	Review on optical tweezers in multi-fields	AIP conference proceedings	WoS/Scopus	2527 (1),	2021-2022
43	N. Ramachandran, R. Ramamoorthi, B. Srinithi, S. Swetha, R. Nitin Vyas, D. Nandheesh	The experimental development and enhancement of ultrasonic welding process specification aimed at delrin materials	AIP conference proceedings	WoS/Scopus	2527 (1),	2021-2022
44	M. Karthick, S. Ranjith Kumar, K. Athiappan, S. Joe Patrick Gnanaraj	Thermal Analysis of counter flow concentric tube exchanger using Runge-Kutta method	AIP Conference Proceedings	Scopus /Wos	2527(1)	2021-2022
45	Vimal Raja Muthukali, Dhyaneswaran Jaganathan, Sathish Kumar Kumaresan, Sekar Premkumar, Sonu Mourya Jay Prakash Mourya, Yahia Ayyash Hakkim	Design and development of E-scooter for daily use	AIP conference proceedings	WoS/Scopus	2527(1)	2021-2022
46	Dhyaneswaran Jaganathan, Rajender	Design and development of mini electric bike	AIP conference proceedings	WoS/Scopus	2527(1)	2021-2022

47	Wilver Auccahuasi, Juan Grados, Lucas Herrera, Karin Rojas, Wilmer Chavez, Jessica Meza, Ricardo Gutierrez, Edwin Felix, Mario Ruiz, Alfonso Fuentes, Enrique Diaz	Design of Control Mechanisms for Electrical Groups based on IoT Technology, for Monitoring Operating Parameters/	International Conference on Electronics and Renewable Systems	Scopus		2021-2022
48	M. Vinosh , T. Nithish Raj , M. Prasath	Optimization of sheet metal resistance spot welding process fixture design	Materials Today: Proceedings	Scopus	45	2021-2022
49	M. Vinosh , S. Senthil Kumar b, D. Nithish , G. Naveen	Development of tray type nursery seeding equipment	Materials Today: Proceedings	Scopus	37	2021-2022
50	J. Jones Praveen , M. Vinosh , A. Bovas Herbert Bejaxhin , G. Paulraj c	Embedded effect of ZrB2-Si3N4 on tribological behaviour of Al 8011 metal matrix composite	Materials Today: Proceedings	Scopus	2021	2021-2022
51	S.N. Dinesh a, Rajasekar an Saminathan b, Milind M. Patil c, Prasad Ramchandra Baviskar c, Haitham Hadidi b, S. Vignesh d, P. Manoj Kumar	Investigating the single pass baffled solar air heater (SAH) with an organic PCM (OPCM)	Materials Today: Proceedings	Scopus	62 (8)	2021-2022
52	S. Vignesh , R. Rathish b, S. Johnpriyan b, K. Nand kumar b, I. Sujin	Study on emission reduction techniques by in-cylinder reduction method for compression ignition engines	Materials Today: Proceedings	Scopus	66 (3)	2021-2022
53	Sathishkumar A, Soundararajan R, Sakthivel Ganapathy, Reshvanth Kalidasan	Enhancement in Tribological Properties of Squeeze Casted A356 Alloy Through T6 Heat Treatment Process /	SAE Technical Paper	Scopus	2021-28-0265	2021-2022
54	Sathishkumar A, Soundararajan R, Sakthivel Ganapathy, Reshvanth Kalidasan	Assessment of Tribological Characteristics of Stir Cum Squeeze Cast AlSi7Mg with x wt % Flyash and 3wt % MoS2 Hybrid Composites	SAE Technical Paper	Scopus	2021-28-0260	2021-2022

55	Sathishkumar A, Soundararajan R, Reshvanth Kalidasan, Sakthivel Ganapathy	Impact of Post Processing Methods on the Mechanical Properties of Squeeze Casted A356 Alloy	SAE Technical Paper	Scopus	2021-28-0266	2021-2022
56	Soundararajan R, Sathishkumar A, Kaviyarasan Kalaiarasan, Sathish Kumar K	Evolution of A356 with Flyash Composites on Metallurgical Mechanical and Tribological Behaviour under Dry and Wet Conditions	SAE Technical Paper	Scopus	2021-28-0272	2021-2022
57	Soundararajan R, Jerald Immanuel Prince Edward, Nishanth Venkitkumar, Sathishkumar Aruchamy	Microstructural Changes and Mechanical Properties Upgrading Over Friction Stir Processing Strategies on A356 Alloy with Tungsten Nano Particle Surface Layer Composites	SAE Technical Paper	Scopus	2021-28-0269	2021-2022
58	Karthik Soundarajan, Soundararajan R, Sathishkumar A	Physio - Mechanical and Chemical Behaviour of Surface Modified Coconut Inflorescence Fiber	SAE Technical Paper	Scopus	2021-28-0275	2021-2022
59	A. Sathishkumar, R. Soundararajan, T. J. Muthu Vel, M. B. S. Arjith & G. Sakthivel	Review on Regenerative Braking System	Springer Innovations in Communication and Computing	Scopus	2022 ,	2021-2022
60	GANESAMOORTHY RAJU, Balaji NATARAJAN, Ezilarasan Chakaravarthy, Poovaragan Samikannu, Soundararajan R	Tribological behavior of thermal mechanical composite reinforced sisal characteristics and influence SiC filling materials	SAE Technical Paper	Scopus	28 (277)	2021-2022
61	Balaji NATARAJAN PhD, BALASUBRAMANI SUBRAMANIAN, KANNAN KANAGARAJ, Soundararajan R	Experimental Study on SS 304 Sheet Metal for Bending Process Optimization using Response Surface Method -	SAE Technical Paper	Scopus	28 (268)	2021-2022

62	Balasubramanian Kaliyaperumal, Soundararajan R, Jeyakumar Rengaraj, Ramamoorthi Rangasamy	An Experimental Investigation on Hot Cracking and Properties of TIG Welded AA2014 Alloy using Continuous and Pulsed Current	SAE International	Scopus	2021-28-0262	2021-2022
63	Balasubramanian Kaliyaperumal, Soundararajan R, Jeyakumar Rengaraj, Ramamoorthi Rangasamy	An experimental investigation on hot cracking and properties of AA2014 alloy using continuous and pulsed current,	SAE technical paper	Scopus		2021-2022
64	Ramamoorthi Rangasamy, Jeyakumar Rengaraj, Balasubramanian Kaliyaperumal, Vignesh Subramanian, Soundararajan R	Experimental estimates on performances of hybrid-biofiber/powder strengthened composite structure	SAE technical paper	Scopus	2021-28-0262	2021-2022
65	Ramamoorthi Rangasamy, Jeyakumar Rengaraj,	Experimental Estimates on Performances of Hybrid-Bio Fiber / Powder Strengthened Composite Structure	SAE International	Scopus	28	2021-2022
66	Senthil Kumar Srinivasan, Uma Mageswari Deivasigamani, Bibin Chidambaram, Guru Prasaath Raju, Yuvaraaaj Kamaraj, Chella Sudheer Manikantan, Kishore Raj Sivasankar, Jeyakumar Rengaraj	Converting plastics to fuel using solar energy	AIP Conference Proceedings	Scopus / WoS	2527 (1),	2021-2022
67	R. Jeyakumar, R. Ramamoorthi, K. Balasubramanian, R. Madhubalan	Study the mechanical behaviour of banana fiber/glass fiber reinforced polyester nano clay composites	AIP Conference Proceedings	Scopus / WoS	2527 (1),	2021-2022

68	S. Deepan a, R. Jeyakumar b, V. Mohankumar c, A. Manojkumar c	Influence of rice husk fillers on mechanical properties of banana/epoxy natural fiber hybrid composites	Materials Today: Proceedings	Scopus	2022	2021-2022
69	A Rajesh1, C Bhaveshkumar1, L Aswin1, S Aravind Nachiappan1 and R Ashwin1	Optimization of FSW Process parameters to yield maximum shear fracture load of AA2024 aluminium alloy joints	Journal of Physics: conference series	Scopus	2115(1)	2021-2022
70	Benruben R, S.P. Nithin Balaji, K Pranav, and J.Jayasuryaa	Development of a Dedicated Framework for Deployment of Circular Economy Strategies in Manufacturing Organizations	Proceedings of IEOM Society	Scopus	606	2021-2022
71	Srikant J, Thirumurugan S, Venkata Krishnan R and Sai Deepesh J	Prioritization of enablers supporting deployment of Lean Six Sigma with sustainability considerations: An ISM based approach	Proceedings of IEOM Society	Scopus	575	2021-2022
72	R. Ben Ruben, P. Nagapandi, S. Nachiappan	Modelling and analysis of barriers of lean sustainability in metal manufacturing organizations	Materials Today Proceedings	Scopus	45	2021-2022
73	R. Ben Ruben, S.P. Nithin Balaji, K. Pranav, J. Jayasuryaa	Assessment of environmental sustainability for promoting green materials and practices	Materials Today Proceedings	Scopus	15	2021-2022

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SI.N	Authors Name	Title of the paper/ Journal	Name of the journal	Indexed in	Vol.No/Issue No	Academic Year
1	L. Selvarajan , R. Rajavel , K . Venkataramanan V.P. Sri nivasan	Experimental investigation on surface morphology and recasting layer of Si3N4-TiN composites machined by die-sinking and rotary EDM	Ceramics International	WoS/Scopus	49(5)	2022-2023
2	V. P. Srinivasan,Ch. Sandeep,C. Shanthi,A. Bovas Herbert Bejaxhin,R. Anandan, and M. Abisha Meji	Comparative Study on EDM Parameter Optimization for Adsorbed Si3N4–TiN using TOPSIS and GRA Coupled with TLBO Algorithm	Adsorption science and technology	WoS/Scopus	2022(4112448)	2022-2023
3	P RAGHUVARAN, M SURESH, A RAJESH	Effect of shotpeening and heat treatment on fatigue strength and microstructure of stir casted AL7075-SiC Composites	Periodico Mineralogia	Scopus	91(4)	2022-2023
4	C Rajendran, K Srinivasan, V Balasubramanian	Friction stir welding for manufacturing of a light weight combat aircraft structure	Materials Testing	Wos/Scopus	64 (12),	2022-2023
5	V. Sivamaran,V. Kavimani,M. Bakkiyaraj,C. Rajendran, and Tushar Sonar	An Optimization of Particle Size and Additives of Slip Cast Alumina Samples to Reduce Warpage and Porosity	Advances in materials science and engineering	Wos/Scopus	2022	2022-2023
6	A. Padma Rao,1Manzoor Hadi,1C. Rajendran,Sonar Tushar,Mikhail Ivanov,P. Senthil Kumar, and V. Murali Krishna	Potentiodynamic Corrosion Behavior and Microstructural Characteristics of Pulsed CMT-Welded AA2014-T6 Aluminium	Advances in materials science and engineering	Wos/Scopus	2022	2022-2023
7	C. Rajendran , M. Vinoth Kumar , Tushar Sonar . Mallieswaran	Investigating the Effect of PWHT on microstructural features and fatigue crack growth behavior of friction stir welded AA2024-T6 aluminum alloy joints	Forces in Mechanics	Scopus	8-100107	2022-2023
8	S. Manickam C. Rajendran S. Ragu Nathan V. Sivamaran , V. B alasubramanian	Assessment of the Influence of FSSW Parameters on Shear Strength of Dissimilar Materials Joint (AA6061/AZ31B)	Journal of Light weight Materials and Manufacture	Scopus	6 (1), 33-45	2022-2023
9	Vigneshkumar Murugesan , Ashoka Varthanhan Perumal	Electrodeposition and corrosion characterization of epoxy/polyaniline coated AZ61 magnesium alloy	Corrosion Reviews	WoS / Scopus	40 (5)	2022-2023

10	Vignesh Kumar M, P. Ashoka Varthanhan	NUMERICAL ANALYSIS OF THE EFFECT OF HEAT INPUT IN THE SPOT WELDING OF DISSIMILAR MATERIALS	Materials and Technologies	WoS / Scopus	56 (3)	
11	S. Kaliappan,A. Shanmugam,Pradeep Johnson, M. Karthick, S. Sekar,Pravin P. Patil,M. K. S. Sai , K. P. Yuvaraj, and Venkatesan Govindaraajan	Impact of AlN-SiC Nanoparticle Reinforcement on the Mechanical Behavior of Al 6061-Based Hybrid Composite Developed by the Stir Casting Route	Advances In Materials Science and Engineering	Scopus/WoS	253-272	2022-2023
12	M. Babu,S.R. Venkataraman,Putta Nageswara Rao,Venkateswara Rao,S.	Optical Microstructure, Fesem, Microtensile, and Microhardness Properties Of LM 25-B4CNP-GRNP Hybrid Composites Manufactured By Selective Laser Melting	Advances In Materials Science and Engineering	Scopus/WoS	2022	2022-2023
13	S. Balamurugan D. Seenivasan	Multi-response and multi-criteria decision-making optimization of transesterification reaction for biodiesel production based on critic weight determination method,	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	Scopus/WoS		2022-2023
14	Dinesh Suppan, Sivasubramanian R	Performance analysis of parabolic trough solar collector by varying the absorber surface	International Journal Of Ambient Energy	Scopus	43(1)	2022-2023
15	Babu N , Soundararajan R	Efect of Processing Route on the Mechanical and Tribological Behaviour of AA8011 Hybrid Composites	J. Inst. Eng. India Ser. D	Wos/Scopus		2022-2023
16	Sathish Kumar A, Soundararajan	Exploration of Various Forging Route Performance of Cast A356 Alloy Reinforced with Fly Ash and MWCNT Hybrid Composites	J. Inst. Eng. India Ser. D	Scopus	1(10)	2022-2023
17	Sathish Kumar A, Soundararajan	Effect of Direct Aging on the Microstructure and Mechanical Behavior of AlSi10Mg Alloy: Casting Versus Selective Laser Melting	Journal of materials engineering and performance	WoS and Scopus	1(15)	2022-2023
18	Karthick S, Soundararajan R	UNRAVELLING THE TRIBOLOGICAL BEHAVIOUR OF MERCERIZED COCONUT INFLORESCENCE FIBER FORTIFIED UNSATURATED POLYESTER COMPOSITES	Materials and technology	SCI	56 (3)	2022-2023
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36	Sivasubramanian R, Santhosh Karthick, Sivaganesh , Suryabalan	Performance analysis of multipass tubes solar water heater using nanofluids	Material today Proceedings	Scopus 66 (3)	2022-2023
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