

**SRM VALLIAMMAI ENGINEERING COLLEGE
DEPARTMENT OF MECHANICAL ENGINEERING**

RESEARCH AND DEVELOPMENT PUBLICATIONS DETAILS

Academic Research Period 2016 – 21

Sl. No.	Author	Title of Paper	Name of the Journal	Volume No., Page No., Year	Scopus Index	ANNEXURE
1	T.Muthu Krishnan	Influence of arc duration on microstructure and tensile behavoir of magnetically impelled arc butt welded AISI 409 ferritic stainless stell tubes	MATERIALS SCIENCE & ENGINEERING A	Online October & 2021	1.57	I
2	Thiyagarajan Muthu Krishnan	Prediction of tensile strength and assessing the influence of process parameter of magnetically impelled arc butt welded AISI 409 ferritic stainless stell tubes	THE INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY	Online September & 2021	0.95	I
3	K.Velavan	Implications of SiC/Al ₂ O ₃ Reinforced Al-Mg-Zn Alloy Hybrid Nano Composites Using Vacuum Sintering Method	SILICON	Online January & 2021	0.42	I
4	Sudalai Suresh Pungaiiah	Thermal Analysis and Optimization of Nano Coated Radiator Tubes Using Computational Fluid Dynamics and Taguchi Method	COATINGS	Online August & 2020	0.48	I

5	K.Venkatesan	Evaluation and Comparison of Mechanical properties of Natural Fiber Abaca-Sisal Composite	FIBERS AND POLYMERS	Vol.21,No.7,1523-1534 November & 2019	0.44	I
6	Dr.S. Suresh Pungaiiah	Design of a nanocoated heat exchanger working with organic nanofluids using a hybrid technique	Transactions of the Canadian Society for Mechanical Engineering	Volume 45, 308–319, 2020	0.27	II
Sl. No.	Author	Title of Paper	Name of the Journal	Volume No., Page No., Year	Scopus Index	ANNEXURE
7	Dr.K.Sivakumar	Parameters optimization of Dissimilar Friction Stir Welding for AA7079 and AA8050 through RSM	Advances in Materials Science and Engineering	Online Volume 2021	0.36	I
8	Dr.K.Sivakumar	Mechanical Strength and Fatigue Fracture Analysis on Al-Zn-Mg Alloy with the Influence of Creep Aging Process	Advances in Materials Science and Engineering	Online Volume 2021	0.36	I
9	Dr.K.Sivakumar	Experimental investigation on emissivity Of 75Ni-25Cr alloy coated Aluminium surface for the purpose of solar applications	Materials Today: Proceedings	Online Volume 37	0.34	-
10	Dr.K.Sivakumar	Effect of rib arrangements on the flow pattern and heat transfer in internally ribbed rectangular divergent channels	Materials Today: Proceedings	Online Volume 46	0.34	-
11	Dr.S.Thirugnanam	Study about emissivity of black chromium (BCr) coated aluminium alloy surface	Materials Today: Proceedings	Volume 37, Part 2, 2021, Pages 1239-1242	0.34	-

12	Dr.S.Thirugnanam	Synthesize and wet condition based characterizations of GRP / Lye treated sisal fiber hybrid composite	Materials Today: Proceedings	Online Vol.33	0.34	-
13	Dr.K.Sivakumar	Metallurgical and Mechanical Characterization of TiCN/TiAlN/TiCNi layer nitride coatings	Elsevier-Surfaces and Interfaces	Vol. 15, Pages 256-264, 2019	0.28	-
14	Dr.K.Sivakumar Dr.P.Mathivanan	Machinability Studies of TiAlN-/AlCrN-Coated and Uncoated Tungsten Carbide Tools on Turning EN25 AlloySteel	Springer-Lecture Notes in Mechanical Engineering	Vol. 2 Pages 213-221 2019	0.13	-
15	Dr.P.Mathivanan	Study on the Damping characteristics of epoxy-Cloisite 30B filled hybrid metal fiber composites	International Journal of Applied Engineering Research	Vol. 14, Number 1 Pages 166-169 2019	0.2	-
Sl. No.	Author	Title of Paper	Name of the Journal	Volume No., Page No., Year	Scopus Index	ANNEXURE
16	Dr. S.Thirugnanam	Evaluation of tensile, flexural and impact properties on sisal/glass fiber reinforced polymer hybrid composites	Indian Journal of Engineering & Materials Sciences	Vol. 25, Pages. 425-431, Oct. 2018	0.23	-
17	Dr. S.Thirugnanam	An Experimental Study On The Wear Properties Of Aluminium Hybrid Composites	International Journal of Mechanical and Production Engineering Research and Development	Volume 8, Special Issue 7, Pages 453-460 Oct. 2018	0.11	-
18	Mr.S.Pungaiya	A review of Surface Coating Technology to Increase the Heat Transfer	International Journal of Mechanical Engineering and Robotic Research	Volume 7, No.5 Sep. 2018	0.12	-
19	Mr.K.Arumugam	Multi Performance Optimization Of Process Parameters On Machining	International Journal of Mechanical and Production Engineering	Volume 8,page 366-373 Aug.2018	0.11	-

		Inconel 625 Alloy During Electro Chemical Micromachining Using Taguchi grey relational Analysis	Research and Development			
20	Dr. S.Thirugnanam	Optimization Of The Process Constraints In Spark Erosion Machining Of Aluminium Alloy AA 6061 Hybrid Composites Using Artificial NeuralNetwork.	Pakistan Journal of Biotechnology	Vol. 15 (2) 303-310 2018	0.2	-
21	Dr.P.Mathivanan Dr.S.Thirugnanam	Study on the Mechanical Characteristics of hybrid metal-fiber panels with resin-Cloisite 10A mixture.	International Journal of Applied Engineering Research	Volume 13, Number 23 Pages. 16548-16551,2018	0.2	-
22	Dr.K.Sivakumar	Computational Investigations in Rectangular Convergent and Divergent Ribbed Channels	International Journal of Turbo & Jet Engines	Vol.35 (2), Pages.193-201 2018	0.17	I
Sl. No.	Author	Title of Paper	Name of the Journal	Volume No., Page No., Year	Scopus Index	ANNEXURE
23	Mr.V.Velavan	Wear reduction analysis of Aramid matrix composites	International Journal of Mechanical and Production	Special issue, June 2018,Pages.491 - 498	0.11	-
24	Dr.B.GnanasundaraJayaraja Dr.P.Mathivanan Dr.S.Thirugnanam	A Review on Wear Behaviour ofAl-Fly Ash-Wc-Mg Hybrid NanoComposite Material	International Journal of Engineering and Technology	Vol. 10, No 1, Feb-Mar 2018, Pages. 1-6	0.17	-
25	Dr.K.Sivakumar	Characterization Of TICN Coating Synthesized By the Plasma Enhanced PhysicalVapour Deposition Process On a Cemented Carbide Tool.	Surface Review and Letters	Vol.1, 2017 1950028 -1 to 11	0.19	I

26	Dr.K.Sivakumar	Numerical Simulation on Rectangular Convergent and Divergent Ribbed Channels	ARPJ Journal of Engineering and Applied Sciences	Vol. 11, No.18,Pages 11023-11030, Sep.2016	0.19	-
27	Mr.S.Senthilbabu	Experimental Evaluation of various parameters influencing Thrust force, Torque and circularity in drilling of Al based composite using response surface methodology	Indian journal of Science and Technology	Vol. 9, No.36,Pages 1-10, Sep.2016	0.16	-
28	Mr.S.Senthilbabu	Influence of various parameters on the hole quality in drilling of Al based Hybrid composites	ARPJ Journal of Engineering and Applied Sciences	Vol. 11, No.24,Pages 14482-14490, Sep.2016	0.19	-
29	Dr.P. Mathivanan	Behavior of Tensile, Flexural and Inter laminar shear strength of micro filled Al-Glass fiber reinforced plastic sandwich panels	International Journal of Mechanical Engineering and Technology	Vol. 7, No.6, Pages 604-608 Dec.2016	0.17	-

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Academic Research for the Year of 2015 – 16

S. No.	Author	Title of Paper	Volume No., Page No., Year	Name of the Journal	Scopus Index R
1.	Dr.B.GnanaSundaraJ ayaraja	Enhancing the properties of AL- WC Nano composites using liquid Metallurgy	Vol. 40, pp. 129-135, 2016	Experimental Techniques	0.3
2.	Mr.G. Ananth	Effectiveness improvement through total productive maintenance using particle swarm optimization model for small and micro manufacturing enterprises	Vol.16, No. 4, pp.473-502, 2015	International Journal of Productivity and Quality Management	0.35
3.	Mr.G.Ananth	Development of Simplified total productive Maintenance and its implementation	Vol.10, No. 11 pp. 29485- 29503, 2015	International Journal of Applied Engineering Research	0.2
4.	Mr.S.SenthilBabu	Experimental Evaluation of Thrust Force, Surface Roughness and Ovality in Drilling of AL/Sic/Gr Hybrid Metal Matrix Composites using HSS and Carbide Tipped Drill	Vol.8, No. 31, pp.1-10, 2015	Indian Journal of Science Technology	0.16
5.	Mr.S. SenthilBabu	Roughness Analysis of the Holes Drilled on AL/Sic Metal Matrix Composite using Atomic Force Microscope	Vol. 777 – 767, pp. 837-843. 2015	Applied Mechanics and Materials	0.12
6.	Mr.S. SenthilBabu	Surface Roughness prediction model using adaptive particle swarm optimization (APSO) algorithm	Vol. 28, pp. 345-360. 2015	Journal of Intelligent & Fuzzy Systems	0.46
7.	Dr. K. Sivakumar	Experimental Study of Developing Turbulent Flow and Heat Transfer in Ribbed Convergent / Divergent Rectangular Ducts	Vol.19, No.6, pp. 2219-2231. July-2015	Thermal Science	0.4

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Academic Research for the Year of 2014 – 15

S. No.	Author	Title of Paper	Volume No., Page No., Year	Name of the Journal	Scopus Index
1	Dr. K.Sivakumar	Experimental Studies on Turbulent Flow in Ribbed Rectangular Convergent Ducts with Different Rib Sizes	Vol. 32, No. 12 (2014), Pages. 79 – 85.	International Journal of Heat and Technology	0.53
3	Dr. K.Sivakumar	Influence Of Rib Height On Heat Transfer Augmentation – Application To Aircraft Turbines	31 (1): 87-95, 2014	International Journal of Turbo jet engines	0.17
4	Dr. S.Thirugnanam	Experimental Investigations On The Effect Of Heat Treatment Parameters On The Wear Behaviour Of Aluminum Hybrid Composites	66(4): 2014 · 545–554	Industrial Lubrication and Tribology ISSN 0036-8792	0.33
5	Dr.P.Mathivanan	Study on the Impact strength properties due to addition of Cloisite 30B in Glass Fiber Reinforced Epoxy –Aluminium laminates	Vol.10, (68), Pages. 728-731, 2015	International Journal of Applied Engineering Research ISSN 0973-4562.	0.2
6	Dr.P.Mathivanan	Flow characteristics of Catalytic muffler and optimization of design using CFD	Vol.10, (39): 2015, Pages 29430-29434	International Journal of Applied Engineering Research, ISSN 0973-4562	0.2
7	Mr.S.SenthilBabu	Mathematical Model for drilled hole surface roughness of Al/Sic Metal Matrix Composites.	Vol.8 (6): 2014	International Review of Mechanical Engineering (IRE.M.E)	0.26
8	Mr.G.Ananth	A Study on the PSO Model Based Fast Track Total Productive Maintenance for	Vol.8(5): 2014,	International Review of	0.26

		Small and Tiny Enterprises	Pages 941-947	Mechanical Engineering (IRE.M.E)	
9	Mr.G.Ananth	A study on the PSO model based quick total productive maintenance for small and tiny enterprises	Vol.70, Dec 2014, Pages. 186-195	Journal of Theoretical and Applied Information Technology	0.16
10	Mr.G.Anbuchezhian	Development of Mg Matrix Syntactic form process through powder metallurgy techniques	Vol.766 - 767, Dec 2014, Pages. 281-286	Applied Mechanics of Materials	0.12
11	Mr.S.SenthilBabu	Surface roughness prediction model using adaptive particle swarm optimization (APSO) algorithm.	Vol.28, Pages. 345-360, 2015	Journal of Intelligent and Fuzzy Systems	0.46
12	Mr.G.Ananth	Development of simplified total productive maintenance system for tiny industries and its implementation	Vol.10, (11):2015 , Pages. 29485- 29503	International Journal of Applied Engineering Research ISSN 0973-4562	0.2
13	Mr.G.Ananth	Effectiveness Improvement through Total Productive Maintenance Using Particle Swarm Optimization Model for Small and Micro Manufacturing Enterprises	Vol.16, (4) 2015,Pages 473- 503	International Journal of productivity and Quality management	0.35
14	Mr.S.SenthilBabu	Roughness Analysis of the Holes Drilled on AL/Sic Metal Matrix Composites using Atomic Force Microscope.	Vol.766- 767, Pages. 837-843, 2015	Applied Mechanics and Materials	0.12

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Academic Research for the Year of 2013 – 14

S. No.	Author	Title of Paper	Volume No., Page No., Year	Name of the Journal	Scopus index
1	Dr. K.Sivakumar	Heat Transfer And Pressure Drop Comparison Between Smooth And Rib-Roughened Divergent Rectangular Duct	6(1): 263-272, March-2014	International Journal Engineering and technology (IJET) ISSN:0975-4024	0.17
2	Dr. K.Sivakumar	Design Optimization of Rib-Roughened Convergent /Divergent Channel to Enhance Turbulent Heat Transfer	Volume 3, Special Issue 1, January 2014	International Journal of Innovative Research in Science, Engineering and Technology ISSN (Print) : 2347 - 6710	0.18
3	Mr.G.Ananth	A genetic algorithm based total productive maintenance model in comparison with neural networks for small and tiny enterprises	Vol. 6(1) 2013, Pages.18 1-188	International review on modeling and simulations	0.43
4	Dr.B.Gnanasundarajayaraja	Characterization, testing and software analysis of AL-WC Nano composites	Vol.34(1) , 2013	IJST, Transactions of Mechanical Engineering.	0.37
5	Mr.S.SenthilBabu	Experimentation on drilled hole surface roughness of Al/SiC Metal Composites	9(23): 2014	International Journal of Applied Engineering Research ISSN 0973-4562	0.2

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Academic Research for the Year of 2012 – 13

S. No.	Author	Title of Paper	Volume No., Page No., Year	Name of the Journal	Scopus index
1	Mr. S.Senthilbabu	An Improved Prediction Model for Drilling Characteristics Of Al/Sic Metal Matrix Composites	Vol. 6(2), 2013, 630-638	International Review on modeling and simulations	0.43
2	Dr. K.Sivakumar	CFD Simulation And Experimental Investigation Of Convection Heat Transfer In A Rectangular Convergent Channel With Staggered Ribs	Vol. 7(3); 2013, Pages.541-548	International Review of Mechanical Engineering (I.RE.M.E)	0.26
3	Mr. S.Senthilbabu	Study Of Some Parameters On Drilling Of Al Based Metal Matrix Composites - A Review	Vol. 3, Issue 7, June 2012, Pages.1-4.	International Journal of Scientific and Engg. Research ISSN 2229-5518	-
4	Dr.B.Gnanasundarajayaraja	Enhancing the Properties of Al-WC Nano composites Using Liquid Metallurgy.	2013	Experimental Techniques	-

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Academic Research for the Year of 2011 – 12

Author	Title of Paper	Volume No., Page No., Year	Name of the Journal	Impact Factor /SNIP/ SJR	Citations
Dr. S. Thirugnanam	Investigation Of Friction And Wear Behavior Of Hybrid Aluminum Composites	Vol 64, Issue 3, 152-163 2012	Industrial Lubrication and Tribology	0.444	-
Dr. S. Thirugnanam	Experimental Study And Prediction Using ANN On Mass Loss Of Hybrid Composites	Vol 64, Issue 3, PAGES.138-146 April ,2012	Industrial Lubrication and Tribology	0.444	-
Dr. P.Mathivanan	Impact Properties Of Aluminum - Glass Fiber Reinforced Plastics Sandwich Panels	15(3), 347-354, 2012	Materials Research-Ibero- AMJ	0.5	5
Dr. K.Sivakumar	Numerical Study Of Turbulent Flow And Heat Transfer In Square Convergent Channel With 90° Inline Rib Turbulators	Vol.1.(3), 218-224, 2012	International Journal Engineering and innovative technology (IJEIT)	0.36	-
Dr. K.Sivakumar	Comparative Study Between Experimental Work And CFD Analysis In A Square Convergent Ribbed Duct	447-457, 2012	Emerging Trends in Science, Engineering and Technology	0.6	-
Dr. K.Sivakumar	Gas Turbine Blade Cooling At Mid-Chord Region By Using Rib Turbulators - A Review	Vol 63(1). 1-16, 2012	Journal of Mechanical Engineering (StrojnickýCasopis)	-	-
Mr. S.Senthilbabu	Parameters Involved In Drilling Of Al Based Metal Matrix Composites - A Review	Vol 1(4), 91- 94, April 2012	International Journal Engineering and innovative technology (IJEIT) ISSN 2277-3754	0.36	-
Mr. G.Ananth	A Genetic Algorithm Based Total Productive Maintenance Model In Comparison With Neural Networks For Small And Tiny Enterprises	Vol. 1 (4), April 2012, Pages.109-113	International Journal Engineering and innovative technology (IJEIT)	0.36	-

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Academic Research for the Year of 2010– 11

Author	Title of Paper	Volume No., Page No., Year	Name of the Journal	Impact Factor /SNIP/ SJR	Citations
Dr. S. Thirugnanam	Experimental Study on the effect of Sic and Graphite Particles on weight loss AL 6061 Hybrid composite materials	Vol. 2 (1-2), April 2011, Pages.49-68	Industrial Lubrication and Tribology	0.444	-
Dr. S. Thirugnanam	Experimental Investigations on Machining Characteristics AL 6061 Hybrid composite processed by Electrical Discharge Machining	Vol. 3 (8), March 2011, Pages.87-101	Industrial Lubrication and Tribology	0.444	-

Academic Research for the Year of 2009– 10

Author	Title of Paper	Volume No., Page No., Year	Name of the Journal	Impact Factor /SNIP/ SJR	Citations
Dr.P.Mathivanan	Metal Thickness, Fiber Volume Fraction effect on the tensile properties, debonding of hybrid laminates	Vol. 29 (14), Feb' 2010, Pages.2128-2140	Journal of reinforced plastics and composites	-	-
Mr.S.SenthilBabu	Review on investigation of various parameters on drilling of metal matrix composites	April 2010	National Journal	-	-

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Academic Research for the Year of 2008 – 09

Author	Title of Paper	Volume No., Page No., Year	Name of the Journal	Impact Factor /SNIP/ SJR	Citations
Dr.S.Thirugnana m	APageslication study of innovative quality circle program me and its decision suPagesort system in a gear manufacturing company	Vol. 3 (1), Jan' 2009, Pages.24-46	International Journal of Process Management and bench marking	-	-

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Academic Research for the Year of 2006–07

Author	Title of Paper	Volume No., Page No., Year	Name of the Journal	Impact Factor /SNIP/ SJR	Citations
Dr.S.Thirugna nam	Innovative quality circle: A technique for coupling innovation and quality through employee participation	Vol. 3 (4), April 2007, Pages.24- 46	International journal of services and operations mangement	-	-

