

PUBLICATIONS IN INTERNATIONAL JOURNALS

In the year 2008

S.No	Authors	Title of the Paper	Name of the Journal and publisher	Vol., No., Page, Month, Year
1	I.Rajendran S.Shanmugasundaram P.Palanisamy	Prediction of Tool Wear using Regression and ANN models in End-Milling Operation	International Journal of Advanced Manufacturing Technology	37,(1-2), 29-41, 2008
2	M.Mohanraj S. Jayaraj C. Muraleedharan	Modelling of a Direct Expansion solar Assisted Heat Pumping ANN	International Journal of Green energy Taylor-Francis journal	5/6, 520-532, Nov-2008
3	M.Mohanraj S. Jayaraj C. Muraleedharan	Environment friendly alternatives to halogenated refrigerants-A review	International Journal of Green house Gas control Elsevier publishers	1/3, 189-198, Aug-2008
4	I.Rajendran S.Vijayarangan N.Natarajan	Investigation of wear in aluminium matrix composite for automotive brake drum applications using statistical analysis	Science and Engineering of Composite Materials, Freund Publishing House Ltd,	15, (1), pp 21-30, 2008

In the year 2009

S.No	Authors	Title of the Paper	Name of the Journal and publisher	Vol., No., Page, Month, Year
1	S.Vijayarangan D.A.Budan S.Arunachalam Tom Page	An Analysis of Machining Forces on Graphite/Epoxy, Glass/Epoxy & Kevlar/Epoxy Composites Using a Neural Network Approach	Journal of Modern Manufacturing Technology-	4,(2), 129-140, 2009
2	R.Ravindran R.Narayanasamy K.Manonmani J.Satheesh	A Crystallographic Texture Perspective Formability Investigation Of Aluminium 5052 Alloy Sheets At Various Annealing Temperatures	Materials & Design (Elsevier)-	30,(5), 1804– 1817, 2009
3	R.Ravindran, K. Manonmani, R. Narayanasamy	An analysis of void coalescence in AL 5052 alloy sheets annealed at different temperatures formed under different stress conditions	Materials Science and Engineering A(Elsevier)-	507(12), 252–267, 2009
4	M.Mohanraj S. Jayaraj C. Muraleedharan	Performance prediction of direct expansion solar assisted heat pumps using Artificial neural networks	International Journal of Applied energy, Elsevier publishers	89/9, 1442-1449, Sep-2009
5	M.Mohanraj S. Jayaraj C. Muraleedharan P.Chandrasekar	Experimental Investigation of R290/R600a mixture as an alternative to R134a in a domestic refrigerator	International journal of Thermal sciences, Elsevier Publishers	48,(5), 1036-1042, 2009
6	M.Mohanraj P.Chandrasekar	Performance of a forced convection solar drier with and without heat storage materials	International journal of Global Energy Issues(Inderscience publishers)	31(2), 112-121, 2009

In the year 2010

S.No	Name of the Faculty	Title of the Paper	Name of the Journal and publisher	Vol., No.,Page, Month, Year
1	S.Ayyappan K.Mylsamy	Drying of Copra in a Solar Tunnel Dryer	International Journal of Energy Technology and Policy(IJETP)	69, 635-638, 2010
2	R.Ravindran, K. Manonmani, R. Narayanasamy	An analysis of wrinkling limit diagrams of aluminum alloy 5005 annealed at different temperatures	International Journal of Material Forming (Springer)-	3,(2), 103-115, 2010
3	R.Ravindran, K. Manonmani, R. Narayanasamy	Effect of annealing on formability and crystallographic textures of aluminum magnesium alloy sheets	International Journal of Materials research-	101,(7), 877-886, 2010
4	I.Rajendran K. Mylsamy	Investigation on physio-chemical and mechanical properties of raw and alkali treated Agave americana fibre	Journal of Reinforced Plastics and Composites, Sage Publications (Published in Association with The American Society for Composites)-	29,(19), 2925-2935, 2010
5	Rama thirumurugan, G Muthuveerappan	Maximum fillet stress analysis based on load sharing in normal contact ratio spur gear drives	Mechanics based design of structures and machines (Taylor and Francis group, llc)-	38,(2), 204-226, 2010
6	I.Rajendran, T. Ramesh kumar, A.D.Latha.	Investigation on the Mechanical and Tribological Properties of Aluminium-Tin Based Plain Bearing Material	Journal of Tribology in industry (The official journal of the Serbian Tribology Society)-	32,(2), 3-10, 2010
7	I.Rajendran , K.Sundara Murthy	A study on optimisation of cutting parameters and prediction of surface roughness in end milling of aluminium under MQL machining	International Journal of Machining and Machinability of Materials	7,1, 112-128, 1/1/2010

8	I.Rajendran , K. Sundara Murthy	Design and development of strain gauge based milling tool dynamometer	International Journal of Machining and Machinability of Materials	7, 3-4/, 286-298, 2010
9	S Vijayarangan , B. Viswanath	A study of the low stress sliding abrasion wear behavior of mullite coatings	International Journal of Mechanical and Materials Engineering (IJMME)	5 ,1, 106-115, 2010
10	S Vijayarangan , LK Sreepathi, K Sabeel Ahmed	Measurement of Thermal Conductivity of Jute Fiber Reinforced Polyester Composites	Advances in Mechanical Engineering,Allied Publishers	312-316, 2010
11	I.Rajendran , K. Mylsamy	Conceptual design and fabrication of a table using discontinuous Agave Americana fibre reinforced epoxy composite	International Journal of Academic Research	2(1),165- 171,2010

In the year 2011

S.No	Authors	Title of the Paper	Name of the Journal and publisher	Vol., No., Page, Month, Year
1	S Vijayarangan, V Krishnaraj, S Pradeep	GFRP An Experimental and Statistical Study on the Effect of Trepanning Tool and Twist Drill on Forces and Hole Quality in Machining Composites	Journal for Manufacturing Science and Production-	7,(1), 25-34, 2011
2	S Vijayarangan, I Rajendran N Natarajan	Investigation of Wear in Aluminium Matrix Composite for Automotive Brake Drum Applications Using Statistical Analysis	Science and Engineering of Composite Materials-	15,(1), 21-30, 2011
3	S Vijayarangan, V Krishnaraj, A Kaldos	An Experimental Study on Effect of Drill Points and Drill Wear on Drilling of Glass Fiber Reinforced Plastic at High Spindle Speed	Journal for Manufacturing Science and Production-	7 ,(3-4), 187-200, 2011
4	D.Senthilkumar, A.Bensely, , S.Harish, D. Mohanlal, A. Nagarajan, A.Rajadurai, Pete Paulin,	Cryogenic Treatment of Gear Steel	Gear Solutions	5, 36-51, 2011
5	S Vijayarangan, AB Rao, MS Kumar	Performance of Fully Active Suspension System Using PID Controller	Journal for Manufacturing Science and Production-	7, (3-4), 271-282, 2011
6	I.Rajendran, K.Mylsamy	Influence of Fibre Length on the Wear Behaviour of Chopped Agave americana Fibre Reinforced Epoxy Composites	Tribology Letters – International Journal (Impact factor: 1.574), Springer Publications	44,(1), 75 – 80, 2011
7	I.Rajendran, D.Senthilkumar	Influence of Shallow and Deep Cryogenic treatment on tribological behaviour of EN19 steel	Journal of Iron and Steel Research, International, Elsevier Publications-	18,(9), 53-59, 2011
8	I.Rajendran, K.Mylsamy	Influence of alkali treatment and fibre length on Mechanical properties of short Agave fibre reinforced epoxy composites.	Journal of Materials and Design, Elsevier Publications-	32,(8-9), 4629-4640, 2011

9	I.Rajendran, D.Senthilkumar	Effect of cryogenic treatment on the hardness and tensile behaviour of AISI 4140 steel	Int. J. Microstructure and Materials Properties-	6,(5),366–377, 2011
10	I.Rajendran D.Senthilkumar, , MPellizzari, J.Siirainen .	Influence of shallow and deep cryogenic treatment on the residual state of stress of 4140 steel,.	Journal of Materials Processing Technology, Elsevier Publications, U.K,-	211, (3), 396-401, 2011
11	Rama thirumurugan, G.muthuveerappan	Critical loading points for maximum fillet and contact stresses in normal and high contact ratio spur gears based on load sharing ratio.	Mechanics based design of structures and machines (Taylor and Francis group,llc)-	39,(1), 118-141, 2011
12	I.Rajendran, D.Senthilkumar	Influence of shallow and deep cryogenic treatment on the residual state of stress of 4140 steel	Journal of Materials Processing Technology, Elsevier Publications.-	211,(3), 396-411, 2011
13	I.Rajendran, K.Mylsamy	The mechanical properties, deformation and thermomechanical properties of alkali treated and untreated Agave continuous fibre reinforced epoxy composites	Materials & Design, Elsevier Publications	32,(5), 3076-3084, 2011

In the year 2012

S.No	Authors	Title of the Paper	Name of the Journal and publisher	Vol., No., Page, Month, Year
1	I Rajendran, K.Sundara Murthy	Prediction and analysis of multiple quality characteristics in drilling under minimum quantity lubrication	Journal of Engineering Manufacture (Proceedings of the Institution of Mechanical Engineers, Part B	226 ,(6), 1061-1070, 2012
2	D.Shanmugam M.Thiruchitrabalam	Influence of Pretreatments on the Mechanical Properties of Palmyra Palm Leaf Stalk Fiber-Polyester Composites"	Journal of Reinforced Plastics and Composites.- Sage Publications	31,(20), 1400-1414, 2012
3	M.Selva kumar P.Chandrasekar P.Chandramohan M.Mohanraj	Characterization of Titanium composites through powder metallurgy techniques	Materials Characterization –Elsevier Publications-	73, 43–51, 2012
4	I.Rajendran, D.Senthilkumar	A research review of deep cryogenic treatment of steels	International Journal of Materials Structural Integrity	2012
5	S.Ayyappan K.Mylsamy	Solar tunnel drier with thermal storage for drying of copra	International Journal of Energy Technology and Policy (IJETP)-	8, 3-13, 2012
6	I.Rajendran, D.Senthilkumar	Optimization of deep cryogenic treatment to reduce wear loss of 4140 steel	Journal of Materials and Manufacturing Processes. Taylor and Francis Publications-	27,(5), 567-572, 2012
7	S Vijayarangan B.Viswanath	Characterization Studies of Mullite Coatings on Cast Aluminum	Journal of thermal spray technology-	21, (2), 325-334, 2012
8	I Rajendran, K.Sundara Murthy	Optimization of end milling parameters under minimum quantity lubrication using principal component analysis and grey relational analysis	Journal of Brazilian Society for Mechanical science & Engineering.	34 ,(3) , 253-261, July/Sept. 2 012

In the year 2013

S.No	Authors	Title of the Paper	Name of the Journal and publisher	Vol., No., Page, Month, Year
1	S Vijayarangan, V. Sivananth N Rajamanickam,	Evaluation of metal matrix composite to replace spheroidal graphite iron for a critical component, steering knuckle	Materials & Design, Elsevier Publications	43, 532-541, January 2013
2	I. Rajendran T. Rameshkumar	Mechanical and Tribological Properties on Al-Sn-Si Alloy-Based Plain Bearing Material	Taylor & Francis	56, (2), 268-274, 2013
3	Rama Thirumurugan G.Muthuveerappan	Prediction of load sharing based HCR spur gear stresses and critical loading points using artificial neural networks	International Journal of Computer Applications in Technology	47,(1), 14-22, 2013
4	D.Shanmugam M.Thiruchitrabalam	Static and Dynamic Mechanical Properties of Plamyra Plam Leaf Spring stalk fiber /jute fiber reinforced hybrid polyester composites	Journal of Materials and Design	50, 533-542, 2013
5	VC Uvaraja, N Natarajan, I Rajendran, K Sivakumar	Tribological Behavior of Novel Hybrid Composite Materials Using Taguchi Technique	Journal of Tribology	135, (2), 021101-12, 2013

In the year 2014

S.No	Authors	Title of the Paper	Name of the Journal and publisher	Vol., No., Page, Month, Year
1	T Ramesh Kumar, I Rajendran	Mass Loss Prediction of Newly Developed Aluminium-Based Alloys using Artificial Neural Network	Neural Network World	24 (2), 129-142, 2014
2	D Senthilkumar, I Rajendran	A research review on deep cryogenic treatment of steels	International Journal of Materials and Structural Integrity	8 (1), 169-184, 2014
3	D.Shanmugam M Thiruchitrambalam Rama.Thriumurugan	Continuous unidirectional palmyra palm leaf stalk fiber/glass—polyester composites: static and dynamic mechanical properties	Journal of reinforced Plastics and composites, Sage publications	33(9), 833–556, 2014
4	D.Shanmugam M Thiruchitrambalam	Influence of alkali treatment and layering pattern on the tensile and flexural properties of Palmyra palm leaf stalk fiber (PPLSF)/jute fiber polyester hybrid composites	Composite interfaces, Taylor and Francis	21(1) 3-12 2014
5	Rama Thirumurugan, Clement Christy C. Deepak	Design and Analysis of Asymmetrical Spur Gear Drive for Automobile Gear Box Application	Applied Mechanics and Materials	592, 2277-2281, 2014
6	S.Madhusudhanan, I.Rajendran, K.Prabu	Static Analysis Of Automotive Steering Knuckle	Applied Mechanics and Materials	592-594, 1155-1159, 2014
7	S.Ayyappan S.Arun	Experimental and comparison studies on drying characteristics of sliced cut tomatoes and cube cut tomatoes	International Journal of Recent Technology and Engineering	3(4), 25-31, September 2014
8	S.Ayyappan S.Arun	Experimental studies on drying characteristics of tomato in a solar tunnel greenhouse dryer	International Journal of Recent Technology and Engineering	3(4), 32-37, September 2014
9	S.Ayyappan S.Arun	Mathematical Modelling of Solar tunnel greenhouse dryer for describing the drying kinetics of copra	International Journal of Innovative Technology and Exploring Engineering	4(5), October 2014

In the year 2015

Publication type(Journal Article /Book/Book Chapter)		Author	Details of publications	Year of Publications
S.NO	Article	Name of the Authors	Full title of the article/Chapter/book	
1.	Article	Dr. V.Sivananth, Dr. S.Vijayarangan	Fatigue Life Analysis and Optimization OF Passenger Cars Steering Knuckle Under operating conditions.	2015
2.	Article	Dr. Rama Thirumurugan, R.Praveen	Dry Sliding Wear Characteristics Of Cryogenically Treated En 353 Gear Steel Using Taguchi Technique	2015
3.	Article	Dr.RamaThirumurugan, Yokeswaran.K	Crack Propagation Path Study Based on Load Sharing Behavior Spur Gear Drives	2014
4.	Article	C.Seva senthil Prabhu, M.Giridharadhalayan	Performance of fatigue strength and wear resistance of EN 19 material by shot peening treatment	2015
5.	Article	Dr.R.Ravindren	A Literature Survey On Machining With Different Types Of Materials By CNC Milling Machine	2015
6.	Article	Dr.R.Ravindren	Surface Roughness Prediction For CNC End Milling Process Using Genetic Algorithm.	2015
7.	Article	Dr. RamaThirumurugan	Contact stress analysis of normal contact ratio gears considering load sharing effect.	2015-
8.	Article	Dr. D.Shanmugam, Dr. RamaThirumurugan	Wear Behavior Of Palmyra Palm Leaf Stalk Fiber(PPLSF) Reinforced polyester Composites	2015
9.	Article	R.Bharathiraja, N.praveenkumar	Study On Characteristics Of CI Engine Using Nana Additive Blended Diesel-Fuel.	2015

10.	Article	Dr.RamaThirumurugan, S.Madhusudhanan	Finite Element Simulation Of Knuckle And Strut ARM column Assembly For Automotive Steering System.	2015
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