

VELALAR COLLEGE OF ENGINEERING & TECHNOLOGY, ERODE – 638 012

DEPARTMENT OF MECHANICAL ENGINEERING

P-13. List of Faculty Publications along with DOIs and publication/citation details

2009 – 2010

JOURNAL PUBLICATIONS

S.NO	NAME OF THE FACULTY	PUBLICATION TYPE	TITLE OF PUBLICATION	JOURNAL NAME	YEAR OF PUBLICATION	VOLUME NO	ISSUE NO	PAGE NO	ISSN / ISBN
1.	Dr.M.Jayaraman	National	Effect of Process Parameters on Tensile Strength of Friction Stir Welded Cast LM6 Aluminium Alloy Joints	Journal of Materials Sciences and Technology	2009	25	5	655-664	1005-0302
		International	Optimisation of Friction Stir Welding Process Parameters to Weld Cast Aluminium Alloy A413 - An Experimental Approach	International Journal of Cast metals Research	2009	22	5	367-373	1364-0461
		International	Application of RSM and ANN to predict the tensile strength of Friction Stir Welded A319 cast aluminium alloy	International Journal of Manufacturing Research	2009	14	3	306-323	1750-0605

		International	Optimization of Friction Stir Welding Process Parameters to Weld Cast A356 Aluminum Alloy Taguchi's Design of Experiments Approach	Metals and Materials International	2009	15	2	313-320	1598-9623
		National	Optimization of Process Parameters for friction stir welding of cast aluminium alloy A319 by taguchi method	Journal of Scientific and Industrial Research	2009	68	1	36-43	0022-4456
2.	Dr.R.Kumaravelan	International	Thermal buckling of simply supported rectangular functionally graded material plates	International Journal of Materials and product Technology	2010	3	1	431-439	1171-5209

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2010 – 2011

JOURNAL PUBLICATIONS

S.NO	NAME OF THE FACULTY	PUBLICATIO N TYPE	TITLE OF PUBLICATION	JOURNAL NAME	YEAR OF PUBLIC ATION	VOL UME NO	ISSUE NO	PAG E NO	ISSN / ISBN
1.	Dr.M.Jayaraman	International	Establishing relationship between the base metal properties and friction stir welding process parameters of cast aluminium alloys	Materials and Design	2010	31	9	4567-4576	0261-3069

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2011 – 2012

JOURNAL PUBLICATIONS

S.N O	NAME OF THE FACULTY	PUBLICATION TYPE	TITLE OF PUBLICATION	JOURNAL NAME	YEAR OF PUBLI CATIO N	VOLUME NO	ISSUE NO	PAG E NO	ISSN / ISBN
1.	Dr.R.Kumaravelan	International	Intensification of the Subsisting Methodology to Enhance DFM without Discretization	Journal of Engineering and Technology	2012	2	2	87-96	2347-2324

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2012 – 2013

JOURNAL PUBLICATIONS

S.NO	NAME OF THE FACULTY	PUBLICATI ON TYPE	TITLE OF PUBLICATION	JOURNAL NAME	YEAR OF PUBLICAT ION	VOLU ME NO	ISSUE NO	PAGE NO	ISSN / ISBN
1.	Dr.M.Jayaraman	International	Effect of process parameters on tensile strength of friction stir welded cast A356 aluminium alloy joints	Transactions of Nonferrous Metals Society of China	2013	23	1	605 – 615	1003-6326
2.	Dr.R.Kumaravelan	International	Analysis of Elastic-Plastic Contact Performance of Rigid Sphere Against a Deformable Flat-Effect of Strain Hardness	American Journal of Applied Sciences	2012	9	2	240-245	1554-3641
		National	Evaluation of the Contact Parameters of A Structural Rigid Sphere and A Deformable Flat Contact Model by Considering the Strain Hardening Effect	Journal of Engineering and Technology	July 2012	2	2	97 -103	2347-2324
		International	Contact analysis of spherical ball and a deformable flat model with the effect of tangent modulus	Structural Engineering and Mechanics	2012	44	1	240-245	1598-6217
		International	Analysis of multi leaf spring based on contact mechanics – a novel approach	Structural Engineering and Mechanics	2013	47	3	443- 454	1598-6217

		International	Testing of three-fuel mixture in a four stroke single cylinder direct injection diesel engine	Transaction of FAMENA	November 2013	37	3	75-84	1849-1391
		International	Analysis of contact parameters in the sphere and flat contact model by flattening approach	Oxidation Communication	December 2013	36	4	845-851	0209-4541
3.	Dr.S.Velumani	International	Regression modeling and optimization of cutting parameters through Nelder mead simplex search and CCFD during drilling of Sisal-Glass/Vinyl ester composites	International Journal of Machining and Machinability of Materials	January 2013	14	1	1-23	1748-5721

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2013 – 2014

JOURNAL PUBLICATIONS

S.NO	NAME OF THE FACULTY	PUBLICATIO N TYPE	TITLE OF PUBLICATION	JOURNAL NAME	YEAR OF PUBLICATI ON	VOLU ME NO	ISSUE NO	PAGE NO	ISSN / ISBN
1.	Dr.R.Kumaravelan	International	Analysis of Motor Cycle Helmet under Static and Dynamic Loading	World Academy of Science, Engineering and Technology	January 2014	8	1	212-218	2010-376X
		International	Rapid Prototyping Applications in Various Field of Engineering and Technology	World Academy of Science, Engineering and Technology	March 2014	8	3	108-116	2010-376X
		International	An Aerodynamic Design and Analysis of Motor Cycle Helmet with Anti-Glare Visor'	World Academy of Science, Engineering and Technology	March 2014	8	3	126-135	2010-376X
		International	Modeling and Design of MPPT Controller using Stepped P&O MPPT Algorithm in Solar Photovoltaic System	World Academy of Science, Engineering and Technology	March 2014	8	3	110-116	2010-3778
2.	Dr.S.Velumani	International	Mechanical and machinability behaviors of woven coir fiber-reinforced polyester composite	Fibers and Polymers	October 2013	14	9	1505-1514	1875-0052

		International	Mathematical modeling and prediction of the thrust force and torque in drilling of sisal/glass-vinyl ester hybrid composite using the RSM, MLPNN, RBFN and ENN methods	Indian Journal of Engineering and Materials Sciences (IJEMS)	August 2013	20	4	289-298	0975-1017
		National	DSR Smart (2013), Optimization of mechanical properties of non-woven short sisal fibre-reinforced vinyl ester composite using factorial design and GA method	Bulletin of Materials Science	August 2013	36	4	575-583	0973-7669
		National	Mathematical modeling and optimization of mechanical properties of short coir fibre reinforced vinyl ester composite using genetic algorithm method	Mechanics of Advanced Materials and Structures	2014	21	7	559-569	1537-6532
3.	Mr.R.Prakash	International	Modeling and Design of MPPT Controller using Stepped P&O MPPT Algorithm in Solar Photovoltaic System	World Academy of Science, Engineering and Technology	March 2014	8	3	110-116	2010-3778

2014 – 2015

JOURNAL PUBLICATIONS

S.NO	NAME OF THE FACULTY	PUBLICATION TYPE	TITLE OF PUBLICATION	JOURNAL NAME	YEAR OF PUBLICATION	VOLUME NO	ISSUE NO	PAGE NO	ISSN
1..	M. Jayaraman	International	Finite Element Analysis of Reinforced concrete Beam Retrofitted With Different Fiber Composites	Middle East Journals of Scientific Research	2014	22	7	948-953	1990-9233
2.	M. Jayaraman	International	Studies On The Various Design And Manufacturing Parameters Of Roller Shafts For Sugar Cane Mills Using FEA Technique	Applied Engineering Research	2015	10	2	3807-3825	0973-4562
3.	M. Jayaraman	International	Mechanical behaviour of sugarcane bagasse and banana fibres reinforced composite	Applied mechanics and materials	2015	766-767	5	104-109	1660-9336
4.	M. Jayaraman	International	Evalvuation of mechanical properties of alluminium alloy 7075 reinforced hybrid composite	Applied mechanics and materials	2015	766-767	2	246-251	1660-9336
5.	M. Jayaraman	International	Experimental study on the mechanical prperities of natural fibres reinforced hybrid composite	Applied Engineering Research	2015	10	5	12009-12019	0973-4562

6.	Mr.M.Gokul	International	Comparative Studies on Heat Transfer And Fluid Flow In Cored Brick And Pebble Bed Heaters	International Journal of Research in Engineering and Technology	2015	4	1	424-433	2321-7308
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