



VIGNAN'S

Foundation for Science, Technology & Research

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Department of Mechanical Engineering

Faculty Research Publications: 2018

S. No	Faculty name(s)	Title of paper	Name of journal	Page no's From - to	Issn no.	Year of Publication	Indexed in scopus / SCI / SCIE
1	K. Balamurugan, M. Uthayakumar, S. Gowthaman, R. Pandurangan	A study on the compressive residual stress due to water jet cavitation peening,	Engineering Failure Analysis	92(2018) 268-277		2018	SCI
2	Harprabhjot Singh, Gurvinder Pal Singh Sodhi, Malkeet Singh, Nagaraj M. Chelliah & Harpreet Singh,	Study: wear and super hydrophobic behaviour of PTFE-ceria composite,	Surface Engineering,		https://doi.org/10.1080/02670844.2018.1499176	2018	SCI

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3	Vijay K Singh, Chetan K Hirwani, Subrata K Panda, Trupti R Mahapatra and Kulmani Mehar	Numerical and experimental nonlinear dynamic response reduction of smart composite curved structure using collocation and non-collocation configuration	proceedings of the institution of mechanical engineers, part C: journal of mechanical engineering science		DOI: 10.1177/0954406218774362	2018	SCI
4	K. Rakesh Tej Kumar, M. Ramakrishna, G. Durga Sukumar	A review on PV cells and nanocomposite-coated PV systems	International journal of energy research		DOI: 10.1002/er.4002	2018	SCI
5	M. Rama Krishna, K. Rakesh Tej Kumar & G. Durga Sukumar	Antireflection nanocomposite coating on PV panel to improve power at maximum power point, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	journal of energy sources, part-A: Recovery, Utilization and environmental effects		https://doi.org/10.1080/15567036.2018.1496198	2018	SCI

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6	K Venkatarao and PBGSN Murthy	Modeling and optimization of tool vibration and surface roughness in boring of steel using RSM, ANN and SVM	Journal of Intelligent Manufacturing	29: 1533-1543		2018	SCI
7	M Balaji, K Venkata Rao, N Mohana Rao, BSN Murthy	Optimization of drilling parameters for drilling of TI-6Al-4V based on surface roughness, flank wear and drill vibration, Measurement	Measurements	114: 332-339		2018	SCI
8	K Venkata Rao	Evaluation of welding characteristics using three dimensional finite element simulation and experimentation for FSW of Aluminum 6061	Journal of the Brazilian Society of Mechanical Sciences and Engineering, 40:86	40:86		2018	SCI

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9	D Brahmeswara Rao, K Venkatarao), A Gopala Krishna	A hybrid approach to multi response optimization of micro milling process parameters using Taguchi method based graph theory and matrix approach (GTMA) and utility concept, Measurement	Measurements	114: 332-339		2018	SCI
10	K Venkata Rao	A Novel Approach for Minimization of Tool Vibration and Surface Roughness in Orthogonal Turn Milling of Silicon Bronze Alloy	Silicon		https://doi.org/10.1007/s12633-018-9953-6	2018	SCI

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11	Kiran Raj Bukkarapu, D. Siva Gangadhar, Y. Jyothi & Prasad Kanasani	Management, conversion, and utilization of waste plastic as a source of sustainable energy to run automotive: a review, ENERGY SOURCES, PART A: RECOVERY, UTILIZATION, AND ENVIRONMENTAL EFFECTS	journal of energy sources, part-A: Recovery, Utilization and environmental effects		https://doi.org/10.1080/15567036.2018.1486898	2018	SCI
12	Singh, Gurmeet, T. Ch Anil Kumar, and VN A. Naikan	Speed estimation of rotating machinery using generated harmonics.	computers and electrical engineering		https://doi.org/10.1016/j.compeleceng.2018.09.023	2018	SCI
13	P. Manoj Kumar, K. Balamurugan, S. Gowthaman, S. Mohammad Ghouse, K. V. Suryaharshith	Fractography Analysis and Modeling Studies on Friction Stir Welded AA6061/SiC Composite,	Journal of Advanced Microscopy Research	1-7		2018	SCOPUS

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14	C. Ratnam, N.M. Jasmin, V.V. Rao, K.Venkata Rao	A Comparative Experimental Study on Fault Diagnosis of Rolling Element Bearing using Acoustic Emission and Soft Computing Techniques, Tribology in Industry	Tribology in industry		DOI: 10.24874/ti.2018.40.03.15	2018	SCOPUS
15	Rama Krishna Alla, Raghavendra Swamy KN, Ritu Vyas, N. B. Prakash Tiruveedula, Alluri Murali Krishnam Raju,	Physical and Mechanical Properties of Heat activated Acrylic Denture Base Resin Materials	Research J. Pharm. and Tech.	11(6)		2018	SCOPUS
16	Vimalbau U, Ramakrishna M	Modeling with multilayer perceptron for detection of fuel adulteration using python programming,	journal of advanced research in dynamic al & control systems,	2123-2131		2018	SCOPUS

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17	B.J.M.Rao, K.V.N.S.Rao, G. Ranga Janardhana	Hydrodynamic studies of rice husk Saw dust and ground nut shell fuels In a fluidized bed	International Journal of Mechanical Engineering and Technology,	10(6)		2018	SCOPUS
18	V Sudheer Kumar, CH Nagaraju, K Venkatarao,	Modeling and charecterization of crack depth on rotor bearing using artificial neural networks	International Journal of Mechanical Engineering and Technology,	813–827		2018	SCOPUS
19	D Brahmeswara Rao, A Gopala Krishna, K Venkata Rao	Effect of process parameters on surface roughness and amplitude of vibration in micro milling of AISI 304 steel	, International Journal of Mechanical Engineering and Technology	9 (10): 520-528		2018	SCOPUS
20	D. Vinay Kumar, Farooq. Sk, Amarnatha Reddy and Vamsi Krishna	Effect of velocity ratio of impinging turbulent jets on heat transfer characterstics of heat sink,	International Journal of Mechanical Engineering and Technology (IJMET)	9 (8), 1093–1101		2018	SCOPUS

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21	. M. Uthaykumar, K Balamurugan, Adam Slota, Jerzy Zajac , J Pauloo Davim	Performance study of LaPO4-Y2O3 composite fabricated by Sol-Gel process using Abrasive waterjet machining.	Handbook of research on green engineering techniques for modern manufacturing		DOI: 10.4018/978-1-5225-5445-5.ch009	2018	SCOPUS
22	S.Gowthaman, K.Balamurugan, P.Manoj Kumar, S.K.Ahamad Ali, K.L.MohannN vijaya ram gopal	Electrical Discharge Machining studies on Monel- Super Alloy	Procedia Manufacturing 20	386–391		2018	SCOPUS
23	M Prudhvi Krishna, M Phani kireeti, M Rama Krishna, Y Jyothi, G Ravi Krishna Swami	Mechanical Properties of Fly Ash/ Sawdust Reinforced Epoxy Hybrid Composites	Materials Today: Proceedings 5	13025–13030		2018	SCOPUS
24	Vimal Babu. U, Naga Mani. M, Rama Krishna. M, Tejaswini. M	Data Preprocessing for Modelling the adulteration detection in Gasoline with BIS,	Materials Today: Proceedings 5	4637–4645		2018	SCOPUS

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25	T Naveen kumar, B Vikas, M Rama Krishna, Y Jyothi, Sk Imran	Development Of Composite Slabs Of Marble Powder Embedded Epoxy Resin,	Materials Today: Proceedings 5 13031–13035	13031–13035		2018	SCOPUS
26	C Subhash, M Rama Krishna, M Sai Raj, B Harsha Sai, S Rama Rao,	Development of Granite Powder Reinforced Epoxy Composites	Materials Today: Proceedings 5 (2018) 13010–13014	13010–13014		2018	SCOPUS
27	G Bujjibabu, V Chittaranjan Das, M Ramakrishna, K Nagarjuna	Mechanical And Water Absorption Behavior Of Natural Fibers Reinforced Polypropylene Hybrid Composites	Materials Today: Proceedings 5 (2018) 12249–12256	12249–12256		2018	SCOPUS
28	G Suresh, V Vasu, G Raghavendra,	Optimization of Input Parameters on Erosion Wear Rate of PTFE/HNT filled nanocomposites	Materials Today: Proceedings 5 (2018) 1462–1469	1462–1469		2018	SCOPUS

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29	S.Gowthaman, K.Balamurugan, P.Manoj Kumar, S.K.Ahamad Ali, K.L.Mohan Kumar, N.Vijaya Ram gopal,	Electrical Discharge Machining studies on Monel- Super Alloy	Procedia Manufacturing 20 (2018) 386–391	386–391		2018	SCOPUS