

R Jeyapaul

Professor of Production Engineering, National Institute of Technology, Tiruchirappalli , India

	All	Since 2016
Citations	1196	703
h-index	14	13
i10-index	22	18

Design of Experiments Taguchi Methodology Quality Engineering

TITLE	CITED BY	YEAR
An empirical investigation on association between human factors, ergonomics and lean manufacturing T Sakthi Nagaraj, R Jeyapaul Production Planning & Control, 1-15		2020
Analysing organisational competitiveness through sustainable manufacturing using a hierarchical approach K Sivakumar, R Jeyapaul, KEK Vimal International Journal of Process Management and Benchmarking 10 (4), 550-577		2020
Analysis of parameter selection for solar radiation prediction and global solar radiation prediction model using polynomial regression P Marimuthu, P Chinnamuthu, R Jeyapaul International Journal of Mathematics in Operational Research 16 (4), 469-479		2020
The mean flow time in open shop scheduling AH LaI, KR Vishnu, AN Haq, R Jeyapaul Journal of Advances in Management Research		2019
Integration of human factors and ergonomics into lean implementation: ergonomic-value stream map approach in the textile industry T Sakthi Nagaraj, R Jeyapaul, KEK Vimal, K Mathiyazhagan Production Planning & Control 30 (15), 1265-1282	8	2019
Evaluation of ergonomic working conditions among standing sewing machine operators in Sri Lanka TS Nagaraj, R Jeyapaul, K Mathiyazhagan International Journal of Industrial Ergonomics 70, 70-83	13	2019
A DEMATEL approach for evaluating barriers for sustainable end-of-life practices K Sivakumar, R Jeyapaul, KEK Vimal, P Ravi Journal Of Manufacturing Technology Management	16	2018
Preparation of aluminium calcium oxide composite material using stir casting method and testing of its mechanical properties S Mahendran, R Jeyapaul COMPTES RENDUS DE L ACADEMIE BULGARE DES SCIENCES 71 (10), 1388-1393	2	2018
Analysis of lean manufacturing in an automobile industry-a case study S Mahendran, A Senthilkumar, R Jeyapaul International Journal of Enterprise Network Management 9 (2), 129-142	2	2018

TITLE	CITED BY	YEAR
Ergonomic Study on Work Postures of Sewing Machine Operators in Government Industry: A Case in Lean Environment Garment Industry TS Nagaraj, R Jeyapaul Ergonomic Design of Products and Worksystems-21st Century Perspectives of	2	2018
Comparative analysis of delamination factor prediction using RSM and ANN during endmilling of GFRP composites MP Jenarthanan, R Jeyapaul, S Ramesh Kumar Australian Journal of Mechanical Engineering 15 (2), 111-124	2	2017
An ant colony optimization—based approach for a single-product flow-line reconfigurable manufacturing systems M Maniraj, V Pakkirisamy, R Jeyapaul Proceedings of the Institution of Mechanical Engineers, Part B: Journal of	23	2017
Modelling of an artificial neural network for electrical discharge machining of hopressed zirconium diboride-silicon carbide composites S Sivasankar, R Jeyapaul Transactions of FAMENA 40 (3), 67-80	ot 4	2016
Experimental investigation and analysis of factors influencing delamination and surface roughness of hybrid GFRP laminates using Taguchi technique MP Jenarthanan, AL Prakash, R Jeyapaul Pigment & Resin Technology	3	2016
Optimization of EDM process parameters in machining Si3N4–TiN conductive ceramic composites to improve form and orientation tolerances L Selvarajan, CS Narayanan, R Jeyapaul, M Manohar Measurement 92, 114-129	37	2016
Mathematical modeling of delamination factor on end milling of hybrid GFRP composites through RSM MP Jenarthanan, AL Prakash, R Jeyapaul Pigment & Resin Technology	1	2016
Experimental investigation of machinability characteristics in Al-TiB2 metal matrix composite (MMC) based on the Taguchi method with fuzzy logics MP Jenarthanan, AR Prakash, R Jeyapaul Multidiscipline Modeling in Materials and Structures	2	2016
Experimental investigation and analysis of machinability behaviour of hybrid GFRP composites during end milling MP Jenarthanan, AL Prakash, R Jeyapaul Pigment & Resin Technology		2016
Modelling of machining force in end milling of GFRP composites using MRA and ANN MP Jenarthanan, S Ramesh Kumar, R Jeyapaul Australian Journal of Mechanical Engineering 14 (2), 104-114	9	2016

TITLE	CITED BY	YEAR
Optimization of EDM Parameters on Machining Si ₃ N ₄ –TiN Composite for Improving Circularity, Cylindricity, and Perpendicularity L Selvarajan, CS Narayanan, R JeyaPaul Materials and Manufacturing Processes 31 (4), 405-412	38	2016
Comparative analysis of surface roughness prediction using DOE and ANN techniques during endmilling of glass fibre reinforced polymer (GFRP) composites MP Jenarthanan, AA Subramanian, R Jeyapaul Pigment & Resin Technology	2	2016
CHARACTERIZATION OF ZrB ₂ -SiC COMPOSITES WITH AN ANALYTICAL STUDY ON MATERIAL REMOVAL RATE AND TOOL WEAR RATE DURING S Sivasankar, R Jeyapaul Transactions of the Canadian Society for Mechanical Engineering 40 (3), 331-349	2	2016
Lean Manufacturing in a Manufacturing Industry through Value Stream Mapping and Simulation Study S Mahendran, AS Kumar, R Jeyapaul Int J AdvEngg Tech/Vol. VII/Issue I/JanMarch 554, 558	4	2016
Optimization of EDM Hole Drilling Parameters in Machining of MoSi ₂ -SiC Intermetallic/Composites for Improving Geometrical Tolerances L Selvarajan, C Sathiya Narayanan, R Jeyapaul Journal of Advanced Manufacturing Systems 14 (04), 259-272	14	2015
Modeling and analysis of process parameters on metal removal rate (MRR) in machining of aluminium titanium diboride (Al-TiB2) composite MP Jenarthanan, AR Prakash, R Jeyapaul Multidiscipline Modeling in Materials and Structures	2	2015
Optimization of process parameters to improve form and orientation tolerances in EDM of MoSi2-SiC composites L Selvarajan, C Sathiya Narayanan, R Jeyapaul Materials and Manufacturing Processes 30 (8), 954-960	22	2015
Analysis and optimisation of machinability behaviour of CFRP composites using fuzzy logic MP Jenarthanan, R Jeyapaul Pigment & Resin Technology	2	2015
Application of experimental design and analysis of mathematical models for turning Inconel 718 using coated carbide tools M Manohar, T Selvaraj, D Sivakumar, R Jeyapaul, J Jomy Experimental Techniques 38 (6), 61-71	8	2014
Multi objective optimization in turning of EN25 steel using Taguchi based utility concept coupled with principal component analysis B Singarvel, T Selvaraj, R Jeyapaul Procedia Engineering 97, 158-165	23	2014

TITLE	CITED BY	YEAR
Multi-objective optimization on Electric Discharge Machining using by Grey Relational analysis L Selvarajan, C Sathiya Narayanan, R Jeyapaul Applied Mechanics and Materials 592, 550-554		2014
Machinability study of carbon fibre reinforced polymer (CFRP) composites using design of experiment technique MP Jenarthanan, R Jeyapaul Pigment & Resin Technology	18	2014
Optimization of Machining Characteristics in EDM of Si3N4-TiN Composites by Taguchi Grey Relational Analysis L Selvarajan, C Sathiya Narayanan, R Jeyapaul Applied Mechanics and Materials 592, 600-604	y 1	2014
Evaluation of machinability index on milling of GFRP composites with different fibre orientations using solid carbide end mill with modified helix angles MP Jenarthanan, R Jeyapaul Int. J. Eng. Sci. Technol 6 (4), 1-10	14	2014
Machinability Study of carbon fibre reinforced polymer (CFRP) composites Using Design of Experiment Technique MPJP Mugundhu, R Jeyapaul Pigment & Resin Technology 43 (1), 5-5		2013
Analysis of factors influencing delamination in milling process of glass fibre reinforced plastic (GFRP) composite materials J Mugundhu, R Jeyapaul, N Neeli Multidiscipline Modeling in Materials and Structures	12	2013
EVALUATION OF MILLING CHARACTERSTICS OF RESIN HYBRID GFRP LAMINATES USING TAGUCHI APPROACH JP Mugundhu, R Jeyapaul Pigment & Resin Technology 42 (5), 2-2		2013
Evaluation of milling characteristics of resin hybrid GFRP laminates using Taguchi approach MP Jenarthanan, R Jeyapaul Pigment & Resin Technology	1	2013
Optimization of process parameters in electro chemical machining (ECM) usin DFA-fuzzy set theory-TOPSIS for titanium alloy M Santhi, R Ravikumar, R Jeyapaul Multidiscipline Modeling in Materials and Structures	g 12	2013
Performance study of tool materials and optimisation of pulse duration on EDN of zirconium di boride S Sivasankar, R Jeyapaul, PK Kunhahamed International Journal of Machining and Machinability of Materials 14 (2	1 4	2013

TITLE	CITED BY	YEAR
Performance study of tool Materials and optimization of Process parameters during EDM on ZrB2-SiC composite through Particle swarm optimization Algorithm S Sivasankar, R Jeyapaul International Journal of Engineering Science and Technology 5 (1), 133-159	4	2013
Optimisation of machining parameters on milling of GFRP composites by desirability function analysis using Taguchi method MP Jenarthanan, R Jeyapaul International journal of Engineering, science and Technology 5 (4), 22-36	43	2013
Performance study of various tool materials for electrical discharge machining of hot pressed zrb2 S Sivasankar, R Jeyapaul, VVB Prasad Multidiscipline Modeling in Materials and Structures	6	2012
Modelling and analysis of factors influencing surface roughness and delamination of milling of GFRP laminates using RSM MP Jenarthanan, R Jeyapaul, N Naresh Multidiscipline Modeling in Materials and Structures	12	2012
Procedural study for roughness, roundness and waviness measurement of EDM drilled holes using image processing technology S Sivasankar, R Jeyapaul, S Kolappan, NM Shaahid Comput Model Inf Process 16, 49-63	10	2012
Application of grey entropy and regression analysis for modelling and prediction on tool materials performance during EDM of hot pressed ZrB2 at different duty cycles S Sivasankar, R Jeyapaul Procedia engineering 38, 3977-3991	15	2012
Multi response optimisation of turning operation parameters on Al-Cu/TiB $_2$ insitu metal matrix composites using desirability function P Senthil, T Selvaraj, G Kannan, R Jeyapaul International journal of manufacturing technology and management 25 (1-3), 1-18	6	2012
Optimization and modeling of turning process for aluminium-silicon carbide composite using artificial neural network models R Jeyapaul, S Sivasankar 2011 IEEE International Conference on Industrial Engineering and Engineering	5	2011
Optimizing the weld bead characteristics of super austenitic stainless steel (904L) through grey-based Taguchi method P Sathiya, S Aravindan, R Jeyapaul, PM Ajith, AN Haq Multidiscipline Modeling in Materials and Structures	11	2010
Optimisation of genetic algorithm parameters in flow shop scheduling using grey relational analysis BSH Khan, K Govindan, R Jeyapaul International Journal of Advanced Operations Management 2 (1-2), 25-45	5	2010

TITLE	CITED BY	YEAR
Modelling of wrinkling in deep drawing of different grades of annealed commercially pure aluminium sheets when drawn through a conical die using artificial neural network S Sivasankaran, R Narayanasamy, R Jeyapaul, C Loganathan Materials & Design 30 (8), 3193-3205	34	2009
Analysing the performance of supply chain designs AS Kumar, R Jeyapaul, AN Haq International Journal of Business Performance Management 11 (1-2), 72-95	1	2009
Development of multi-objective optimization models for electrochemical machining process P Asokan, RR Kumar, R Jeyapaul, M Santhi The International Journal of Advanced Manufacturing Technology 39 (1-2), 55-63	139	2008
Multi response optimization of machining parameters of drilling Al/SiC metal matrix composite using grey relational analysis in the Taguchi method AN Haq, P Marimuthu, R Jeyapaul The International Journal of Advanced Manufacturing Technology 37 (3-4), 250-255	305	2008
Simultaneous optimization of multi-response problems in the Taguchi method using genetic algorithm R Jeyapaul, P Shahabudeen, K Krishnaiah The International Journal of Advanced Manufacturing Technology 30 (9-10	76	2006
Quality management research by considering multi-response problems in the Taguchi method—a review R Jeyapaul, P Shahabudeen, K Krishnaiah The International Journal of Advanced Manufacturing Technology 26 (11-12	221	2005

Process Parameters Optimization of Electrical Discharge Wire Cutting on AA6082/Fly Ash/Al 2 O 3 Hybrid MMC Using Taguchi Method Coupled with Hybrid Approach

KA Babu, R Jeyapaul

Journal of The Institution of Engineers (India): Series C, 1-14

SciVerse ScienceDirect Procedia Engineering

S Sivasankar, R Jeyapaul

Taguchi Analysis of surface roughness and delamination associated with solid carbide end mills with different helix angles in milling of GFRP composites J MP, R Jeyapaul

Genetic algorithm approach for minimizing capital cost in reconfigurable manufacturing systems

M Maniraj, V Pakkirisamy, R Jeyapaul