

Research paper Publications from 2019 to 2021

Name of faculty & Co authors	Paper Title	Journal	ISSN
P. A. Abdul Samad, P. R. Shalij, A. Ramesh and A. K. Mubarak	Computational Fluid Dynamics Simulation on Particulate Distribution in Gyro Casting for the Manufacture of Al/SiC Particulate Metal Matrix Composite	Journal of Applied Fluid Mechanics, Vol. 12, No. 5, pp. 1585/1597, 2019. Doi:10.29252/jafm.12.05.29637	1735-3572
P. A. Abdul Samad, P. R. Shalij	Experimental investigation and CFD simulation of power consumption for mixing in Gyro Shaker	International Journal of Computational Science and Engineering, Vol.21 (2), 2020, DOI:10.1504 / IJCE.2020.105723	2249-4251
Mohammed Said, Manmohan, P.A. Abdul Samad	Determination of Powder/Liquid Mixing Time in A Gyro/Shaker By Experimentally and CFD Method	International Journal of Engineering Research in Mechanical and Civil Engineering, Vol. 2, No. 8, pp. 61/67, 2017	2456-1290
Nandu V N, AR Soman	Consequence Assessment of Anhydrous Ammonia Release Using CFD/Probit analysis	Process Safety Progress (Wiley), Doi: 10.1002/ prs. 11970, 2018	1547-5913

Anand N, Ramachandran KK , Bijulal D	Mechanical, Microstructural and Tribological Characterization of Vacuum Stir Cast Mg/4Zn / Si3N4 Magnesium Matrix Nanocomposite	Materials Today, DOI: https://doi.org/10.1016/j.matpr.2020.03.053 (Elsevier/ 2020)	2214-7853
Priyanka C P, Abhijith N V, Sudeep U, Ramachandran K K	Crystallinity and Wettability Induced Osteogenic Behaviors of Commercially Pure Ti and Ti/6Al/4V Alloy Implant Surfaces Having Multiscale Surface Topography	Materials Today, DOI: https://doi.org/10.1016/j.matpr.2020 (Elsevier/2020)	1369-7021
SS Kumar, N Murugan, KK Ramachandran	Effect of tool tilt angle on weld joint properties of friction stir welded AISI 316L stainless steel sheets	Measurement, 150, pp1070- 83, (Elsevier / 2020), DOI: https://doi.org/10.1016/j.measurement.2019.107083	0263-2241
KK Ramachandran , N Murugan	Influence of Axial Force on Tensile Strength and Microstructural Characteristics of Friction Stir Buttwelded Aluminum Alloy/Steel Joints	Strength of Materials 51 (2), pp300/316, (Springer/2019) https://doi.org/10.1007/s11223-019-00076-7	0039-2316
SS Kumar, N Murugan, KK Ramachandran	Friction Stir Welding of AISI 316L Stainless Steel in a 3.5 NaCl Aqueous Solution: Metallurgical and Mechanical Characterization	Materials Performance and Characterization, 8 (4), pp676/689, ASTM / 2019, DOI: https://doi.org/10.1520/MPC20180116	2379-1365
SS Kumar, N Murugan, KK Ramachandran	Effect of friction stir welding on mechanical and microstructural properties of AISI 316L stainless steel butt joints	Welding in the World, 63 (1), pp137/150, (Springer / 2019) DOI: 10.1007/s40194-018-0621-7	00432288
SS Kumar, N Murugan, KK Ramachandran	Identifying the optimal FSW process parameters for maximizing the tensile strength of friction stir welded AISI 316L butt joints	Measurement, 137, pp257/271, (Elsevier / 2019) DOI: 10.1016/j.measurement.2019.01.023	0263-2241
SS Kumar, N Murugan, KK Ramachandran	Microstructure and mechanical properties of friction stir welded AISI 316L austenitic stainless steel joints	Journal of Materials Processing Technology, 254, pp79/90, (Elsevier / 2018), DOI: https://doi.org/10.1016/j.jmatprotec.2017.11.015	0924-0136

PV Shaheer, A Sadique, KK Ramachandran	Characterization and Taguchi based modeling and analysis of dissimilar TIG welded AISI 316L austenitic stainless steel/HSLA steel joints	Emerging Trends in Engineering, Science and Technology for Society, Energy and Environment, 371/75, (CRC Press / 2018)	ISBN 9780367733896
Mohammed said u y, C.M Manmohan, P.A. Abdul Samad.	Determination of Powder/Liquid Mixing Time in A Gyro/Shaker By Experimentally and CFD Method	International Journal of Engineering Research in Mechanical and Civil Engineering/Vol 2, Issue 8/pp 61/67/ 2017	2456-1290
Manmohan. C. M, Dr. Shalij P R	Influence of lean on quality management performance in small and medium enterprises.	International Journal of Mechanical and Production Engineering Research and Development/ Vol. 9, 68–74/ 2019.	22498001, 22496890
Manmohan. C. M, Dr. Shalij P R	A Literature Review on the Effect of Lean and Sustainability on Quality Management Systems for SMEs.	International Journal of Science and Research/ Volume 9/ Issue 2/pp 1618/1623 2020. DOI: 10.21275/ SR20224172131	3219-7064
Sunil A S and Tide P. S.	An Investigation on Suppression of Vortex Instabilities for Flow Past a Bluff Body Using a Passive Device	International Review of Mechanical Engineering, (2017) Vol. 11 (2), pp. 132 – 137. DOI: https://doi.org/10.15866/ir-eme.v11i2.10833	1970-8734
Sunil A S and Tide P. S.	An Investigation on the Suppression of Vortex Induced Vibration of a Cylinder Using Compound Method with Oscillating Splitter Plate	International Journal of Advanced Research in Dynamical and Control Systems, (2019) Vol. 11 (07), pp. 562/569.	1943023X
Sunil A S and Tide P. S.	An Investigation on Reduction of Vortex Induced Loads on Marine Risers	International Journal of Emerging Technologies and Innovative Research (2019) Vol. 10, pp. 25/33	2349-5162
Sunil A S and Tide P. S.	Numerical Investigations on Suppression of Aeolian Vibrations on a Tall Chimney using Helical Strakes	International Journal on Engineering Applications. (2019) Vol.7(5), pp.152/159. DOI: https://doi.org/10.15866/ir-ea.v7i5.17764	2281-2881
M S Arun, UdayChakkingal	Workability Limits of Magnesium Alloy AZ31B Subjected to Equal Channel Angular Pressing	Journal of Materials Engineering and Performance/ volume 27/pages1352–1360/ 2018 DOI: 10.1007 /s11665-018-3229-6	1059-9495

M S Arun, UdayChakkingal	A constitutive model to describe high temperature flow behavior of AZ31B magnesium alloy processed by equal/channel angular pressing	Materials Science and Engineering: A/ Volume 754/ Pages 659/673/ 2019 https://doi.org/10.1016/j.msea.2019.03.106	0921-5093
Sagar M Narayanan and Pradeep M Kamath	Numerical study of thermal enhancement in a stackedmicrochannel heat sink with different flow arrangement	International Journal of Management, Technology And Engineering, 8 (XI), pp 83/89,2018	2348-4039
Jayadevan P C, Siddharth R and P M Kamath	Modeling Frictional Characteristics of Water Flowing Through Microchannel	Journal of Applied Fluid Mechanics 12(1), p 243/ 255, 2019. DOI: 10.29252/jafm.75.253.289 13	1735-3572
Sagar M Narayanan and Pradeep M Kamath	Influence of a copper based stacked circular microchannel heat sink in the thermal enhancement of electronic cooling	Advancement in Mechanical Engineering and Technology, 2(2), pp 14/26,2019.	1687-8140
Sagar M Narayanan and Pradeep M Kamath	Application of a Double Layer CircularMicrochannel Heat Sink in Electronic Industry	International Journal of Innovative Technology and Exploring Engineering (IJITEE), 8(12), pp 1153/1158, 2019, DOI: 10.35940/ijitee.L3890.1081219	2278-3075
Sajan, M. P. , Shalij, P. R., Ramesh, A and Biju Augustine, P.	Lean manufacturing practices in Indian manufacturing SMEs and their effect on sustainability performance	Journal of Manufacturing Technology Management /Vol. 28 Issue: 6, pp.772/793 /2017, DOI: 10.1108 /JMTM-12-2016-0188	1741-038X
Sajan, M. P and Shalij, P. R	The Relationship between lean operations and sustainability among the different production systems in small and medium enterprises (SMEs)	International Journal of Engineering Technology, Management and Applied Science, July 2017, Volume 5, Issue 7, pp. 239-243	2349-4476
Muktha Rose Gimmy and Sajan M P	Feasibility study for preparedness of organization in lean green six sigma initiative	American International Journal ofResearch in Science, Technology, Engineering&Mathematicsppp 351/356 ISSN	2328-3580
Aashly and Sajan. M.P	Flood Preparedness For Better Response Logistic Perspective	American International Journal ofResearch in Science, Technology, Engineering& Mathematics. pp 351/356 ISSN (Print): 2328/3491, ISSN (Online): 2328/3580	2328-3580

Nithin Chandran, Dr. Lalu PP	Development of a 4/Axis Articulate Robot With Vision Based Part Identification System for Pick and Place Operation	International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE) Vol 2, Issue 8, 2017	2456-1290
Lalu P P	SO/Net: Joint Semantic Segmentation and Obstacle Detection Using Deep Fusion of Monocular Camera and Rada	Pacific/Rim Symposium on Image and Video Technology Sydney, Australia, 18/22 November 2019 pp 138/148, DOI: 10.1007/ 978-3-030-39770-8_11	
Sunil Jerome, G Venkataratnam	Performance of a Linde/Hampson refrigerator operating from –120 °C to –60 °C with optimised R14/hydrocarbon mixtures exhibiting vapour/liquid/liquid equilibria	Heat and Mass Transfer,55,2019 https://doi.org/10.1007/s00231/019/02801/z	0947-7411
Abhilash V S, Sajith C Subramanian, Rahul K R	Experimental investigation on Mechanical properties, wear characteristics and micro structure of A356/B4C/MoS2 composite	International conference on Advanements in Mechanical Engineering (ICAME/2019)	
Raj, Akash, C P, Priyanka, K K, Ramachandran, U, Sudeep	Characterization of Ti biomedical implant surfaces modified by physical vapour deposition coating	SSRN – Elsevier DOI: http://dx.doi.org/10.2139/ssrn.4042645	1556-5068
K, Subrahmanian, K K, Ramachandran, V R, Rajeev, V B, Renjith	Effect of Tool Axis Offset on the Characteristics of Friction Stir Welded Dissimilar Aluminium Alloys AA5083 and AA7050, SSRN,	SSRN – Elsevier DOI: http://dx.doi.org/10.2139/ssrn.4042676	1556-5068
M D Bindu, P S Tide, A B Bhasi, K K Ramachandran	Modeling and parametric optimization of friction stir welding of aluminium alloy AA7068-T6 using response surface methodology and desirability function analysis,	Bulletin of the Polish Academy of Sciences: Technical Sciences DOI:10.24425/bpasts.2021.137936	2300-1917
C. M. Manmohan Dr. P. R. Shalij	Optimal Prediction of Manufacturing Parameters for Integration of Lean and Sustainability with QMS in SMES	Arabian Journal for Science and Engineering (SCI)	doi.org/10.1007/s13369-022-06749-x

Bijesh R	Modified stoichiometric equilibrium model for sewage sludge gasification and its validation based on experiments in a downdraft gasifier	Biomass Conversion and Bio refinery	ISSN 2190-6823
Mubarak A.K., Tide P. S.	Experimental and Computational Exploration of Underexpanded Jets from Conical, Bell and Double Parabolic Nozzles	International Review of Mechanical Engineering	ISSN 1970-8734
Mubarak A.K., Tide P. S.	Design of a double parabolic supersonic nozzle and performance evaluation by experimental and numerical methods	Aircraft Engineering and Aerospace Technology	ISSN 0002-2667
P. A. Abdul Samad, P. R. Shalij, A. Ramesh, A. K. Mubarak	Computational fluid dynamics simulation on particulate distribution in gyro casting for the manufacture of Al/SiC particulate metal matrix composite	Journal of Applied Fluid Mechanics	ISSN 1735-3645