MANJARA CHARITABLE TRUST

RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI

DEPARTMENT OF MECHANICAL ENGINEERING

FACULTY PUBLICATIONS IN JOURNALS

ACADEMIC YEAR 2021-2022

Sr. No.	Title of paper	Name of Author/s	Name of Journal	ISSN No.	DOI	Google Citations	Scopus Citations
1	Finite Element Analysis of Different Architectures for Bone Scaffold	Sanjay Bokade,	World Academy of Science, Engineering and Technology International Journal of Biomedical and Biological Engineering Vol:16, No:5, 2022	--	--	--	--
2	Ranking of critical risk factors in the Indian automotive supply chain using TOPSIS with entropy weighted criterions	Dr. S. U. Bokade	Technology Innovation in Mechanical Engineering, Lecture Notes in Mechanical Engineering, Springer Nature Singapore (Scopus, UGC)	2195-4364 (978-981-16-7909-4)	https://doi.org/10.1007/978-981-16-7909-4_46	1	2
3	Identification and Ranking of Supply Chain Risks Using Fuzzy TOPSIS: A Case Study of Indian Automotive Manufacturing	Dr. S. U. Bokade	Advances in Mechanical Engineering and Technology: Proceedings of 6th International Conference on Advanced Production and Industrial Engineering (ICAPIE)-2021, Lecture Notes in Mechanical Engineering. Springer, Singapore. (Scopus)	2195-4364 (978-981-16-9613-8)	https://doi.org/10.1007/978-981-16-	--	--
4	Criticality prioritisation of risk factors in the Indian manufacturing industries using TOPSIS	Dr. S. U. Bokade	International Journal of Business Continuity and Risk Management Inderscience Publishers (IEL)	1758-2172	https://doi.org/10.1504/IJBCRM.2022.125292	--	--
5	Integrated entropy-VIKOR approach for ranking risks in indian automotive manufacturing industries	Dr. S. U. Bokade	Materials Today: Proceedings, Elsevier (Scopus, INSPEC)	2214-7853	https://doi.org/10.1016/j.matpr.2021.11.010	3	3
6	Prioritization of roadblocks to adoption of industry 4.0 technologies in manufacturing industries using VIKOR	Dr. S. U. Bokade	Materials Today: Proceedings, Elsevier (Scopus, INSPEC)	2214-7853	https://doi.org/10.1016/j.matpr.2021.09.448	10	9
7	Experimental investigation on single cylinder four stroke VCR tri-charged diesel engine	Dr. Rajesh Kale	Materials Today: Proceedings (Scopus, INSPEC)	2214-7853 (Scopus, Inspec)	10.1016/j.matpr.2021.11.573	--	--

8	Performance prediction of single cylinder four stroke Tri-charged diesel engine using Taguchi approach,	Dr. Rajesh Kale	Materials Today: Proceedings (Scopus, INSPEC)	2214-7853	10.1016/j.matpr.2021.12.185	--	--
9	Experimental investigation on single cylinder four stroke tri-charged diesel engine using pyrolysis oil at different proportions	Dr. Rajesh Kale	Materials Today: Proceedings (Scopus, INSPEC)	2214-7853	https://doi.org/10.1016/j.matpr.2021.10.078	2	--
10	Performance investigation and comparison of single cylinder four stroke diesel engines with super, turbo, and tri-charger	Dr. Rajesh Kale	Journal of Algebraic Statistics (Emerging Sources Citation (WoS))	1309-3452	https://publishoa.com/index.php/journal/article/view/1340	--	--
11	Parameters Affecting Design of Wind Turbine Blade—A Review	Dr. Rajesh Kale	Technology Innovation in Mechanical Engineering. Lecture Notes in Mechanical Engineering. Springer, Singapore. (Scopus, UGC)	10.1007 (978-981-16-7909-4_28)	https://doi.org/10.1007/978-981-16-7909-4_28	2	--
12	Effect of Tri-Charged Boosting on Single Cylinder Four Stroke Diesel Engine at Different Compassion Ratio	Dr. Rajesh Kale	Nat. Volatiles & Essent. Oils (Scopus)	3222-3239	https://www.nveo.org/index.php/journal/article/view/720/651	--	--
13	Parametric effect and taguchi optimization of cryogenic treatment of strenx steel	Prof. Amol Mangrulkar	Materials Today: Proceedings, Elsevier (Scopus, INSPEC)	2214-7853	10.1016/j.matpr.2022.04.017	--	--
14	Experimental investigations on mechanical properties of AZ31/eggshell particle-based magnesium composites	Prof. Amol Mangrulkar	Advances in Materials Science and Engineering (Scopus, INSPEC)	1687-8442	10.1155/5928	5	5
15	Assessment of Bioprocess Development-Based Modeling and Simulation in a Sustainable Environment	Prof. Amol Mangrulkar	International Journal of Photoenergy (Science Citation Index Expanded, Scopus, INSPEC,Web of Science)	1687-529X	10.1155/3837	--	--
16	Automated skull damage detection from assembled skull model using computer vision and machine learning	Prof. Amol Mangrulkar	International Journal of Information Technology (Scopus, INSPEC, UGC care)	2511-2104	10.1007/s41870-021-00752-5	12	10

17	Evaluation of mechanical properties of sisal and bamboo fibres reinforced with polymer matrix composites prepared by compression moulding process	Prof. Amol Mangrulkar	Advances in Materials Science and Engineering (Scopus, INSPEC)	1687-8442	10.1155/5928	5	6
18	Optimal Design and Analysis of Impact Energy of Automobile on Environment	Prof. Amol Mangrulkar	Design Engineering	--	--	--	--
19	Influence of B4C on mechanical properties of magnesium matrix composites	Prof. Amol Mangrulkar	Materials Today: Proceedings (Scopus, INSPEC)	2214-7853 (Scopus, Inspec)	10.1016/j.matpr.2021.12.135	7	6
20	Implementation of a Six Sigma strategy for process improvement in the wiper motor manufacturing industry	Dr. Prathamesh R. Potdar	Int. J. Six Sigma and Competitive Advantage (Scopus) (Vol. 13, Nos. 1/2/3, 2021)	1479-2494	10.1504/IJSSCA.2021.120219	4	3
21	Design of experiments and Monte Carlo simulation-based prediction model for productivity improvement in printing industry	Dr. Prathamesh R. Potdar	International Journal of Productivity and Quality Management (Scopus, Inspec) (2022 Vol.35 No.1, pp.78 – 116)	1746-6474	10.1504/IJPQM.2022.10036120	1	--
22	Product development using Design for Six Sigma approach: case study in switchgear industry	Dr. Prathamesh R. Potdar	International Journal of System Assurance Engineering and Management (Emerging Sources Citation Index, INSPEC, UGC-CARE)	0975-6809	10.1007/s13198-020-01031-w	4	3
					Citations	**56**	**47**

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RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI

DEPARTMENT OF MECHANICAL ENGINEERING

FACULTY PUBLICATIONS IN CONFERENCES

ACADEMIC YEAR 2021-2022

Sr. No.	Title of paper	Name of Author/s	Name of Conference	DOI	Google Citations	Scopus Citations
1	Regeneration of Natural Bone and its Dynamic Analysis	Dr. S. U. Bokade	International Conference on Embracing Industry 4.0 Technologies for Sustainable Growth (ICEI 4.0), 21-23 April, 2022, organized by Rajiv Gandhi Institute of Technology	--	--	--
2	Investigation On Variable Nozzle Tri charged Single Cylinder Four Stroke Diesel Engine For Sustainable Development Of An Automobile Industries	Dr. Rajesh Kale	International Conference on Embracing Industry 4.0 Technologies for Sustainable Growth (ICEI 4.0), 21-23 April, 2022, organized by Rajiv Gandhi Institute of Technology	--	--	--
3	Design Of Smart Pest Killer For Agricultural Purpose	Dr. Prathamesh R. Potdar	International Conference on Embracing Industry 4.0 Technologies for Sustainable Growth (ICEI 4.0), 21-23 April, 2022, organized by Rajiv Gandhi Institute of Technology	--	--	--
4	A Way Forward For Product Development: A Perspective Of Reliability Analysis	Dr. Prathamesh R. Potdar	International Conference on Embracing Industry 4.0 Technologies for Sustainable Growth (ICEI 4.0), 21-23 April, 2022, organized by Rajiv Gandhi Institute of Technology	--	--	--
5	IOT Based Smart Parking System	Prof. Prasad Kawade	International Conference on Embracing Industry 4.0 Technologies for Sustainable Growth (ICEI 4.0), 21-23 April, 2022, organized by Rajiv Gandhi Institute of Technology	--	--	--
6	Modeling and Analysis of Origami Impact Absorbers	Dr. Rajesh Kale	International Conference on Embracing Industry 4.0 Technologies for Sustainable Growth (ICEI 4.0), 21-23 April, 2022, organized by Rajiv Gandhi Institute of Technology	--	--	--
7	Temperature Variation and Fluid Flow Characteristics over Pin Fin: A Review	Prof. Mukund R. Valse, & Dr. S. U. Bokade	International Conference on Embracing Industry 4.0 Technologies for Sustainable Growth (ICEI 4.0), 21-23 April, 2022, organized by Rajiv Gandhi Institute of Technology	--	--	--
8	Evaluation of Barriers to Implementation of Industry 4.0 Enabling Technologies in Indian Manufacturing Organization	Prof. Ashwini Gotmare, & Dr. S. U. Bokade	International Conference on Embracing Industry 4.0 Technologies for Sustainable Growth (ICEI 4.0), 21-23 April, 2022, organized by Rajiv Gandhi Institute of Technology	--	--	--

9	Different Cooling / Lubrication Techniques Used In Machining Processes A Review	Prof. Prasad Kawade & Dr. S. U. Bokade	International Conference on Embracing Industry 4.0 Technologies for Sustainable Growth (ICEI 4.0), 21-23 April, 2022, organized by Rajiv Gandhi Institute of Technology	--	--	--
10	Comparative Study Of Risks' Severity Ranking In Indian Automobile Manufacturing Supply Chain Using PROMETHEE, VIKOR and TOPSIS	Dr. S. U. Bokade	International Conference on Embracing Industry 4.0 Technologies for Sustainable Growth (ICEI 4.0), 21-23 April, 2022, organized by Rajiv Gandhi Institute of Technology	--	--	--
11	Experimental investigation and CFD analysis of Thermal Assessment of Different Diameter Evacuated Tube Based Domestic Solar Water Heater	Dr. Rajesh Kale	International Conference on Embracing Industry 4.0 Technologies for Sustainable Growth (ICEI 4.0), 21-23 April, 2022, organized by Rajiv Gandhi Institute of Technology	--	--	--
12	Numerical Investigation of perforated Fins for Enhancement of Heat Transfer	Dr. Rajesh Kale	International Conference on Embracing Industry 4.0 Technologies for Sustainable Growth (ICEI 4.0), 21-23 April, 2022, organized by Rajiv Gandhi Institute of Technology	--	--	--
13	Comparative Study and Analysis of HVAC Systems Using Solid and Liquid Desiccant Dehumidification Technology	Dr. Rajesh Kale	Proceedings of Fourth International Conference on Inventive Material Science Applications. Advances in Sustainability Science and Technology. Springer, Singapore.	https://doi.org/10.1007/978-981-16-4321-7_14 (2662-6837) (978-981-16-4320-0)	1	--
14	Design and CFD simulation of triple swirler in jet engine	Dr. Rajesh Kale	AIP Conference Proceedings 6 January 2022; 2421 (1): 060006 (The Conference Proceedings Citation Index, Scopus, Inspec)	10.1063/5.0078094	1	1
				Citations	**2**	**1**

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DEPARTMENT OF MECHANICAL ENGINEERING

FACULTY PUBLICATIONS IN BOOKS/ BOOK CHAPTERS

ACADEMIC YEAR 2021-2022

Sr. No.	Title of Book/ Book Chapter	Name of Author/s	Name of Conference	ISBN	DOI	Google Citations	Scopus Citations
1	Aids of Machine Learning for Additively Manufactured Bone Scaffold (Book Chapter)	Dr. S. U. Bokade	Emerging Technologies for Healthcare: Internet of Things and Deep Learning Models (John Wiley & Sons, Inc.)	9781119792345	https://doi.org/10.1002/9781119792345.ch15	--	--

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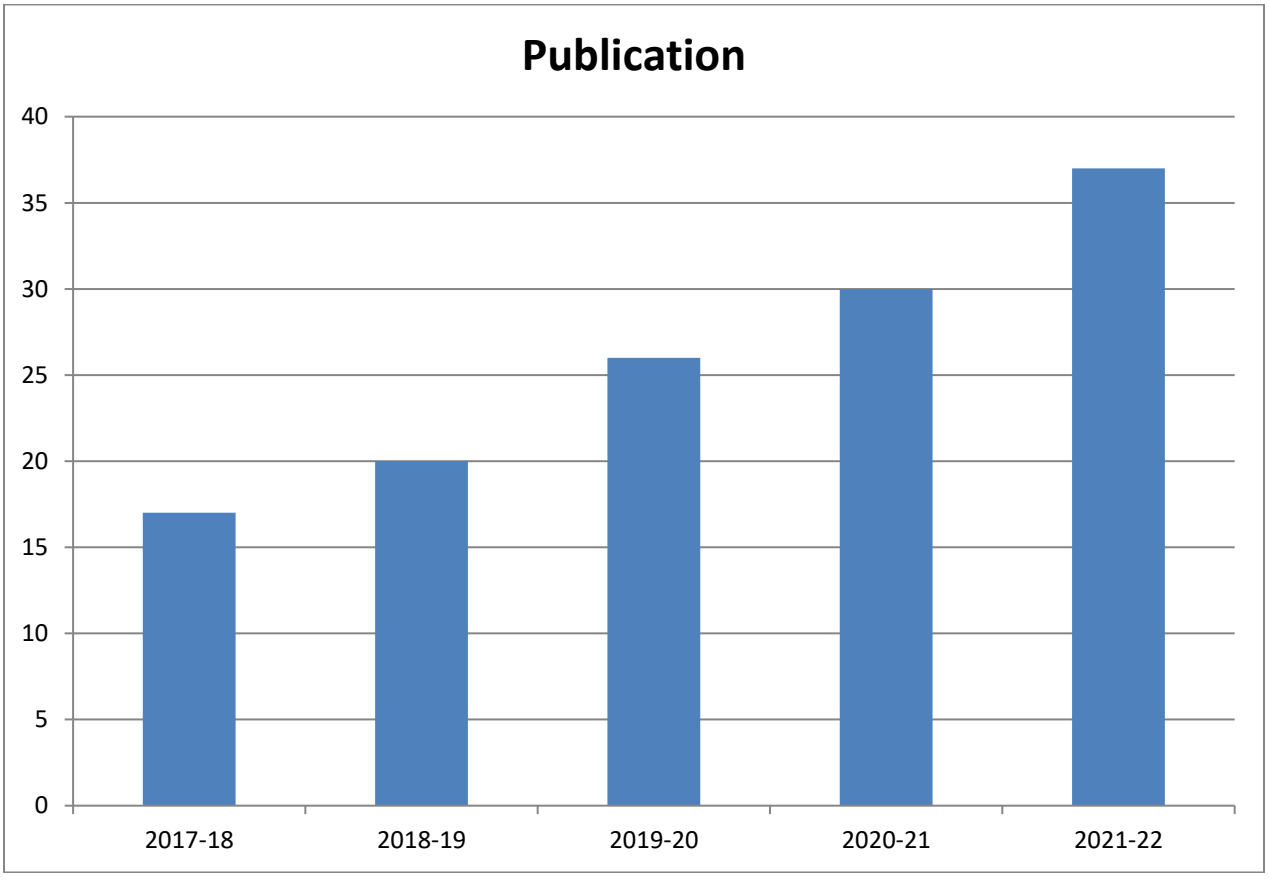
RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI

DEPARTMENT OF MECHANICAL ENGINEERING

Summary Sheet

Faculty Publications

Academic Year	2017-18	2018-19	2019-20	2020-21	2021-22
Number of Publications (Journal + Conference)	15	20	26	25	36
Patent	2	-	-	5	-
Book/ Book Chapter	-	-	-	-	1
Total	**17**	**20**	**26**	**30**	**37**



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DEPARTMENT OF MECHANICAL ENGINEERING

Summary Sheet

Peer Reviewed Papers
Academic year 2021-2022

Year/ Indexing	Scopus	SCI	UGC Approved	WoS (ESCI, Conference Proceedings Citation Index)	Cross-ref	Inspec	Other Peer Reviewed	TOTAL
2021-2022	**19**	**1**	**6**	**3**	**-**	**14**	**15**	**58**
2020-2021	5	-	3	2	-	1	15	26
2019-2020	12	-	3	-	-	-	7	22
2018-2019	1	-	4	1	3	-	9	18
2017-2018	1	-	2	1	1	-	13	18
TOTAL	38	1	18	7	4	15	59	

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DEPARTMENT OF MECHANICAL ENGINEERING

Index Summary

Academic year 2021-2022

Indexing	Paper Sr. No.		TOTAL
	Journal	Conference	
SCI	15	--	1
Scopus	2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21	14	19
Inspec	5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 22	14	14
WoS (ESCI, Conference Proceedings Citation Index)	10, 22	14	3
UGC Approved	2, 3, 11, 15, 16, 22	--	6
Other peer-reviewed	1-22	1-14	36

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Academic year 2021-2022