



R&D Data 2022-23

Publications (Journal): Academic Year 2022-23 (1 July to 30 June)

Sr. No.	Name Authors	Title of paper	Name of Journal	National/ International	ISSN No.	Vol/Issue No.	Page No.	Date/ Year	Indexing	Impact factor
1.	Dr J D Patil	Oscillating flow heat transfer: a comprehensive review https://doi.org/10.1080/15567036.2022.2113932	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	International	Print ISSN: 1556-7036 Online ISSN: 1556-7230	Vol. 44 (3)	7598-7619	Aug 2022	SCI	2.902
2.	Ramshiromani Verma, Anand A Ramgude & Sanjay M Gaikwad	Aerodynamic Performance Enhancement Of Wind Turbine Blade Using Cavity	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	International	ISSN (P): 2249-6890; ISSN (E): 2249-8001	Vol. 12, Issue 4, Aug 2022	1-8	Aug 16, 2022	Index Copernicus	(JCC): 10.2746
3.	Swadesh Suman and Sanjay M Gaikwad	Numerical Analysis and Parametric Optimization of a Static Wavy Flag for Heat Transfer Enhancement	Global Journal of Researches in Engineering: A Mechanical and Mechanics Engineering.	International	.ISBN/ISSN No : 2249-4596	Vol. 22, Issue 2, Aug 2022	8-20	Aug 30, 2022	-	-
4.	R B Gurav	Investigations on tube in tube metal foam heat exchanger	Materials Today: Proceedings	International	Online ISSN: 2214-7853	Vol. 72 Part 3	951-957	Jan 2023	Scopus	-



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5.	Sanjay M Gaikwad	Implementing Combinative Distance Base Assessment (CODAS) for Selection of Natural Fibre for Long Lasting Composites	Materials Science Forum	International	ISSN: 1662- 9752	Vol. 1081	41-48	March 2023	-	0.48
6.	Dr R B Gurav Dr Pritee Purohit	Computational and analytical study on CPU heat sink cooling by single and double stack air- foil micro pin fins	Materials Today: Proceedings	International	Online ISSN: 2214- 7853	-	-	March 2023	Scopus	3.2
7.	Dr J D Patil Dr U V Awasarmol	Experimental investigation of rectangular mini channel array as an effective tool for energy efficient cooling of electronic gadgets	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	International	Print ISSN: 1556- 7036 Online ISSN: 1556- 7230	Vol. 45 (1)	3154- 3169	March 2023	SCI	2.902
8.	Dr Pritee Purohit Dr R B Gurav	Hot corrosion behavior of intermixed layered LTA/YSZ Thermal Barrier Coatings	Materials Today: Proceedings	International	Online ISSN: 2214- 7853	-	-	-	Scopus	3.2



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9.	Dr Laxmikant D. Jathar Dr U V Awasarmol	Comprehensive review of environmental factors influencing the performance of photovoltaic panels: Concern over emissions at various phases throughout the lifecycle	Environmental Pollution	International	Print ISSN: 0269-7491 Online ISSN: 1873-6424	Vol. 327	-	Jun 2023	SCI	9.988
10.	P V Dorlikar	Synthesis of new suspension mechanisms for two-wheeler vehicles	Materials Today: Proceedings	International	Online ISSN: 2214-7853	Vol. 77 Part 3	711-716	2023	Scopus	3.2
11.	Dr R B Gurav Dr Pritee Purohit	Ungraded Tire Performance Analysis for Indian Road Conditions https://doi.org/10.1016/j.matpr.2023.04.636	Materials Today: Proceedings	International	Online ISSN: 2214-7853	Vol. 90 Part 1	61-66	2023	Scopus	3.2



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Publications (Conference): Academic Year 2022-23 (1 July to 30 June)

Sr. No.	Name Authors	Title of paper	Name of Conference	Local level/State Level/National/International	Page No.	Date/Year of Conference	Presented (Yes/No)
1.	Pritee Purohit R B Gurav	Hot Corrosion Performance of Plasma Sprayed Coatings	4th International conference on Contemporary advances in Mechanical Engineering (ICCAME-2022)	International	-	15-16 Sept 2022	Yes
2.	R B Gurav Pritee Purohit	Ungraded Tire Performance Analysis for Indian Road Conditions	Third International Conference on Future Technologies in Manufacturing Automation Design and Energy (ICoFT MADE 2022)	International	-	14-16 Dec 2022	No



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Sr. No.	Name Authors	Title of paper	Name of Conference	Local level/State Level/National/International	Page No.	Date/Year of Conference	Presented (Yes/No)
3.	Sanjay M Gaikwad	Implementing Combinative distance base assessment (CODAS) for selection of natural fibre for long lasting composites	Modern Materials for Engineering and Research (ICMMER 2022) Tiruchengode, Tamil Nadu, India	International	-	29-30 Sept 2022	Yes
4.	Pritee Purohit R B Gurav	Improving crash-worthiness & occupant safety of bus seat structures in frontal crashes as per AIS023 using Finite Element Analysis	Third International Conference on Intelligent Robotics, Mechatronics and Automation Systems IRMAS 2023	International	65	4-5 May 2023	Yes



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5.	R B Gurav Pritee Purohit	Computational Study on Forced Convection Heat Transfer in Pin Fin Heat Sink (PFHS) with Inclined Wings	Third International Conference on Intelligent Robotics, Mechatronics and Automation Systems IRMAS 2023	International	45	4-5 May 2023	Yes
6.	Pritee Purohit	Performance evaluation of adjustable stroke piston pump with varying fulcrum position	Third International Conference on Intelligent Robotics, Mechatronics and Automation Systems IRMAS 2023	International	44	4-5 May 2023	-



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7.	Pritee Purohit	Kinematic design of Adaptive Control Adjustable Stroke Piston Pump for Automated Lubrication System	5th International e-Conference on Souvenir Frontiers in Materials Engineering & Nano Technology [ICF-MET-2023]	International	39	5-6 May 2023	-



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Book Article/ Chapter published: Academic Year 2022-23 (1 July to 30 June)

Sr. No.	Name Authors	Book Chapter Title	Book Title	ISBN/ISSN	National/ International	Page No.	Publisher Details	Date/Year
1.	Sanjay M Gaikwad	Investigation of Heat Transfer and Fluid Flow Characteristics in Straight and Divergent Way Minichannels With Water as Working Medium.	Bhattacharyya, S., Verma, S., Harikrishnan, A.R. (eds) Fluid Mechanics and Fluid Power (Vol. 3). FMFP 2021. Lecture Notes in Mechanical Engineering https://doi.org/10.1007/978-981-19-6270-7_23	ISBN978-981-19-6270-7 Print ISBN978-981-19-6269-1	International	1-6	Springer, Singapore	18 April 2023



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Sr. No.	Name of Authors	Title	ISBN	Local/ National/ International	Publisher Details	Date/Year
1.	RB Patil	CAD / CAM	978-93-90694-44-0	National	TechKnowledge Publications, Pune, Maharashtra	2022
2.	RB Patil	Solid Modeling and Drafting	978-93-89889-80-2	National	TechKnowledge Publications, Pune, Maharashtra	2022
3.	Dr Laxmikant Jathar	Energy Engineering	978-93-5585-313-4	National	Technical Publication, Pune	2022
4.	Dr Laxmikant Jathar	Engineering Thermodynamics	978-93-332-2201-3	National	Technical Publication, Pune	2022