



**ARMY INSTITUTE OF TECHNOLOGY**  
Dighi Hills, Alandi Road, Pune 411015  
Department of Mechanical Engineering



**R&D Data 2021-22**

**Publications (Journal): Academic Year 2021-22 (1 July to 30 June)**

<b>Sr. No.</b>	<b>Name Authors</b>	<b>Title of paper</b>	<b>Name of Journal</b>	<b>National/ International</b>	<b>ISSN No.</b>	<b>Vol/Issue No.</b>	<b>Page No.</b>	<b>Date/ Year</b>	<b>Indexing</b>	<b>Impact factor</b>
1.	R B Gurav	Exhaust Heat Recovery System using Organic Rankine Cycle (ORC) Technology: A Comprehensive Investigation	International Journal of Mechanical Engineering	International	ISSN: 0974-5823	Vol. 6 (Special Issue, Nov.-Dec. 2021)	308-311	Dec. 2021	SCOPUS	1.35



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Sr. No.	Name Authors	Title of paper	Name of Conference	Local level/State Level/National/International	ISSN / ISBN	Page No.	Date/Year of Conference	Presented (Yes/No)
1.	Dr Pritee Purohit	Oxidation Kinetics of $Al_2O_3$ induces $LaTi_2Al_9O_{19}$ Thermal Barrier Coating	International conference on Material Science and Manufacturing Engineering (ICMSME-2021)	International	ISBN No: 978-81-941281-9-1	2	10-11 Dec 2021	Yes
2.	Prof R B Gurav	Experimental Analysis on Natural Convection in an Arc Shaped Cavity	International conference on Material Science and Manufacturing Engineering (ICMSME-2021)	International	ISBN No: 978-81-941281-9-1	7	10-11 Dec 2021	Yes



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Sr. No.	Name Authors	Title of paper	Name of Conference	Local level/State Level/National/International	ISSN / ISBN	Page No.	Date/Year of Conference	Presented (Yes/No)
3.	Sanjay Gaikwad	Numerical Investigation of Single Phase Heat Transfer and Fluid Flow Characteristics in Divergent Minichannels	26th National and 4th International ISHMT-ASTFE Heat and Mass Transfer Conference	26th National and 4th International	-	-	17 to 20 Dec 2021	Y
4.	Sanjay Gaikwad	Investigation of Heat Transfer and Fluid Flow Characteristics in Straight and Divergent Wavy Minichannels With Water as Working Medium	48th National Conference on Fluid Mechanics and Fluid Power (FMFP)	National	-	-	27 to 29 Dec 2021	Y



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**Book Article/ Chapter published: Academic Year 2021-22 (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.	Mohammad Irfan Ahmad & Pankaj Dorlikar	Design Study of an Electric Motorcycle Chassis Obtained using Topology Optimization	Bansal, R.C., Agarwal, A., Jadoun, V.K. (eds) Advances in Energy Technology. Lecture Notes in Electrical Engineering, vol 766. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-16-1476-7_32">https://doi.org/10.1007/978-981-16-1476-7_32</a>	1876-1119 1876-1100	International	339-349	Springer, Singapore	Jul 2021
2.	Gaikwad Pankaj Manik & Pankaj Dorlikar	Topology Structure Design of Fish-Based Propulsive Mechanisms	Kumar, R., Chauhan, V.S., Talha, M., Pathak, H. (eds) Machines, Mechanism and Robotics. Lecture Notes in Mechanical Engineering. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-16-0550-5_101">https://doi.org/10.1007/978-981-16-0550-5_101</a>	2195-4364 2195-4356	International	1055-1065	Springer, Singapore	Jul 2021
3.	Rohit Naryal & Pankaj Dorlikar	Crashworthiness of Bird Inspired Fuselage of Small UAV	Govindan, K., Kumar, H., Yadav, S. (eds) Advances in Mechanical and Materials Technology. Lecture Notes in Mechanical Engineering. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-16-2794-1_27">https://doi.org/10.1007/978-981-16-2794-1_27</a>	2195-4364 2195-4356	International	305-312	Springer, Singapore	Jan 2022



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4.	Dr Pritee Purohit	Oxidation and Tribology of Al <sub>2</sub> O <sub>3</sub> -Induced LaTi <sub>2</sub> Al <sub>9</sub> O <sub>19</sub> /YSZ Double Ceramic Layer Coatings: Tribo-Oxidation	Handbook of Research on Tribology in Coatings and Surface Treatment	ISBN13: 9781799896838	International	45-63	IGI Global, Hershey, Pennsylvania, USA	March 2022



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1.	RB Patil	CAD / CAM	978-93-90694-44-0	National	TechKnowledge Publications, Pune, Maharashtra	February 2021
2.	RB Patil	Solid Modeling and Drafting	978-93-89889-80-2	National	TechKnowledge Publications, Pune, Maharashtra	October 2020