

**MKSSS'S Cummins College of Engineering for Women, Pune**  
**Department of Mechanical Engineering**

**Academic Year of Publications: 2023-24 – Journal**

Sr. No.	Author [Faculty] Name	Paper Title with DOI Link	Name of Journal	Month Yr Volume, Issue No., & Page no.	ISSN No.	Indexing
1	Prashant Anerao, Atul Kulkarni, <b>Yashwant Munde</b> , <b>Avinash Shinde</b> , Oisik Das	Biochar reinforced PLA composite for fused deposition modelling (FDM): A parametric study on mechanical performance <a href="https://doi.org/10.1016/j.jcomc.2023.100406">https://doi.org/10.1016/j.jcomc.2023.100406</a>	Composites Part C: Open Access	vol. 12, 100406, Oct. 2023	2666-6820	ESCI/SCOPUS
2	<b>S.A.Kedar</b> , G.V.More, <b>D.S.Watvisave</b> , <b>H.M.Shinde</b>	A critical review on the various techniques for the thermal performance improvement of solar air heaters. DOI: 10.1080/15567036.2023.2264228	Energy Sources, Part A: Recovery, Utilization, and	Vol.45 , No.04 , 11819-11852	1556-7230	SCI
3	Ravikant K. Nanwatkar, <b>Deepak S. Watvisave</b>	Electrical and Thermal Investigations of a Hybrid Energy Storage System	Journal of Research Administration	Vol. 5 No. 2 (2023)	1539-1590	Scopus
4	Ravikant K. Nanwatkar, <b>Deepak S. Watvisave</b>	Modeling, Simulation and Experimental Investigations for Hybridization of Lithium-Ion Battery and Supercapacitor in Electric Vehicle Applications	<a href="#">Journal of Propulsion Technology</a>	<u>Vol. 44 No. 4 (2023)</u>	ISSN: 1001-4055	Scopus
5	<b>Prerna Mishra</b> , Nallan Chakravartula Santhi Srinivas and Vakil Singh	A comparative study of Ratcheting fatigue behavior of Modified 9Cr-1Mo steel and Inconel 617 alloy at homologous temperature of 0.42	Steel Research International	<u>Jan 2024, 2300281</u>	1611-3683	SCI
6	<b>Prerna Mishra</b> , N.C. Santhi Srinivas and Vakil Singh	Pre-ratcheted tensile properties of Nickel base alloy IN-617 at RT <a href="https://doi.org/10.1007/s12666-023-03200-z">https://doi.org/10.1007/s12666-023-03200-z</a>	Transaction of Indian Institute of Metals	12/1/2023, 1-9	0975-1645	SCI
7	Prashant Anerao, Atul Kulkarni, <b>Yashwant Munde</b>	A review on exploration of the mechanical characteristics of 3D-printed biocomposites fabricated by fused deposition modelling (FDM) <a href="https://doi.org/10.1108/RPJ-04-2023-0150">https://doi.org/10.1108/RPJ-04-2023-0150</a>	Rapid Prototyping Journal	Dec 2023	1355-2546	SCI
8	<b>Yashwant Munde</b> , Abhilasha Panigrahi, <b>Gautam Chandekar</b> , <b>Avinash Shinde</b> , Irulappasamy Siva	Identifying the Influence of Stacking Sequence on Mechanical and Vibration Properties of Bamboo/Glass-Epoxy Composites <a href="https://doi.org/10.1002/masy.202200170">https://doi.org/10.1002/masy.202200170</a>	Macromolecular Symposia	Dec 2023 Volume 412, Issue 1, Pages 2200170	1521-3900	SCOPUS
9	<b>Balasaheb Takle</b> , <b>Yashwant Munde</b> , <b>Avinash Shinde</b> , Vishal Deore, Siva Irulappasamy	Sliding Wear Behavior of Pineapple Leaf/Glass Fiber Reinforced Polyester Composites <a href="https://doi.org/10.1002/masy.202200161">https://doi.org/10.1002/masy.202200161</a>	Macromolecular Symposia	Dec 2023 Volume 412, Issue 1, Pages 2200161	1521-3900	SCOPUS
10	<b>Harish M. Shinde</b> , <b>Anand K. Bewoor</b> et al.	Engine oil quality deterioration estimation using an integrated sensory system doi: <a href="https://doi.org/10.1177/09544089221135629">https://doi.org/10.1177/09544089221135629</a>	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	Dec 2023 Volume 237, Issue 6, Pages 2257-2267	ISSN: 0954-4089 ; Online ISSN: 2041-3009	SCI
11	Vivek Gupta, <b>Prerna Mishra</b> , Durganshu Mishra & Pradyumna Ghosh	Analysis of Heat Flux Quenching of a SS-316L Rod Using Nanofluids <a href="https://doi.org/10.1080/01457632.2023.2301157">https://doi.org/10.1080/01457632.2023.2301157</a>	Heat Transfer Engineering	Feb 2024 page 1-11	1521-0537	SCI
12	<b>Y. Munde</b> , <b>A.S. Shinde</b> , I. Siva , P. Anerao	Assessment of physical and vibration damping characteristics of sisal/PLA biodegradable composite <a href="http://dx.doi.org/10.18149/MPM.5172023_9">http://dx.doi.org/10.18149/MPM.5172023_9</a>	Materials Physics and Mechanics.	October 2023;51(7): 107-116	1605-8119	Scopus
13	Ravikant Nanwatkar , <b>Deepak Watvisave</b> ,Aparna Bagde, Sonali Sable, Sachin Mutalikdesai	Investigations of Regenerative Braking and Vibration Energy Conservation for Efficient Charging of Lithium-Ion Battery and Supercapacitor Hybrid System in Electric Vehicle Applications	Journal of Electrical Systems	April 2024	20-2 (2024): 2198-2211	Scopus
14	Sonali Sabale, Deepak Watvisave, Ravikant Nanwatkar, Ajit Bhosale, Shridhar Kedar, Shekhar Chavan	Investigations of Mechanical Properties and Maximum Load Capacities under Abuse Testing of Lithium Ion Battery.	Journal of Electrical Systems	2024 February, 20, (2)	2467-2483	SCI
15	Pravin M Tipnis, Parag Chaware, Vinay G Vaidya	Guidelines for elevator design to mitigate the risk of spread of airborne diseases	Microbial Risk Analysis	4/1/2024 Vol 26	2352-3522	SCI

16	Shridhar A. Kedar, Deepak S. Watvisave, , Ajit A. Bhosale, Harish M. Shinde, Ganesh Vijay More	AI based Solar Thermal Energy Utilisation in India	International Journal of INTELLIGENT SYSTEMS AND APPLICATIONS IN ENGINEERING	2024, 12(18s), 166–172	ISSN: 2147-6799	Scopus
17	Mithul Naidu, Ajit Bhosale, Mahesh Gaikwad, Sachin Salunkhe, Robert Čep and Emad bouel Nasr	Tribological Investigations of Hemp Reinforced NAO Brake Friction Polymer Composites with Varying Percentage of Resin Loading	Frontiers in Materials	2024 February, 12	100289	SCI
18	Ravikant Nanwatkar, <b>Deepak Watvisave</b> ,, Aparna Bagde, Sonali Sabale, Sachin Mutalikdesai	Solar Energy Conservation Using Wireless Sensor Network-Based Street Light Monitoring for Charging Hybrid Electric Vehicles	International Journal of INTELLIGENT SYSTEMS AND APPLICATIONS IN ENGINEERING	April 2024 12(3)	1177–1186	Scopus
19	G. Murali, P. S. N. Masthan Vali, J. Jaya, <b>A. K. Bewoor</b>	Experimental studies on solar reusable can air heating system integrated with latent heat storage <a href="https://doi.org/10.1007/s10973-024-12978-z">https://doi.org/10.1007/s10973-024-12978-z</a>	Journal of Thermal Analysis and Calorimetry	March 2024	1588-2926	SCIE
20	Deepak Watvisave, Shridhar Kedar, Ajit Bhosale, Harish Shinde, Pravin Mane	A review on water consumption reducing technology, IoT and AI for household applications. doi: 10.32629/jai.v7i5.1557	Journal of Autonomous Intelligence	(2024) Volume 7 Issue 5	ISSN: 2630-5046	Scopus

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**Academic Year of Publications: 2023-24 – Book/Book Chapter**

Sr. No.	Faculty Author	Chapter title	Book title	Month Yr	Publisher	ISBN no.
1	Prerna Mishra	<a href="#">Ratcheting Fatigue Behaviour of Advanced Structural Materials</a>	Proceedings of the International Conference on Metallurgical Engineering and Centenary Celebration	October 2023	Springer	978-981-99-6862-6

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**Academic Year of Publications: 2023-24 – Conferences Paper**

Sr. No.	Author [Faculty] Name	Paper Title	Name of Conference	Volume, Issue No., (Month/Yr.) & Page no.	ISSN/ISBN No.	Indexing
1	Yashwant Munde, Avinash Shinde, Prashant Anerao, I Siva	Identifying the Effect of Stacking Sequence on Water Absorption, Mechanical and Fracture Properties of Flax/Glass Hybrid Composites <a href="https://doi.org/10.1007/978-981-99-5567-1_19">https://doi.org/10.1007/978-981-99-5567-1_19</a>	International Symposium on Lightweight and Sustainable Polymeric Materials	Oct 2023 pp 249–264	978-981-99-5567-1	Scopus
2	Abhijeet Pidge, Aniket Salve, Ashok Mache, Aparna Kulkarni, <b>Yashwant Munde</b>	Effect on Vibration Characteristics of Fiber Metal Laminates Reinforced with Jute/glass Fibers <a href="https://doi.org/10.1007/978-981-99-4758-4_11">https://doi.org/10.1007/978-981-99-4758-4_11</a>	Biennial International Conference on Future Learning Aspects of Mechanical Engineering, Advances in Engineering Materials, Lecture Notes in Mechanical Engineering	Oct 2023 pp 105-116	978-981-99-4758-4	Scopus
3	<b>AK Bewoor, HM Shinde, AA Bhosale, PP Patil</b>	Ergonomic analysis and improvement for ease of work of post engine testing activities by using RULA and REBA techniques	AIP Conference Proceedings	Volume 2800, Issue 1, Sept. 2023, <a href="https://doi.org/10.1063/5.0162857">https://doi.org/10.1063/5.0162857</a>	1551-7616	Scopus
4	<b>AK Bewoor, Nitin Patil, S Kaliappan, Pravin P Patil, Raja Raju, P Ramanathan, VA Kulkarni</b>	Sustainability assessment of tungsten inert gas welding process using grey relational analysis	AIP Conference Proceedings	Volume 2800, Issue 1, Sept. 2023, <a href="https://doi.org/10.1063/5.0162857">https://doi.org/10.1063/5.0162857</a>	1551-7616	Scopus
5	M Dhanvijay, VA Kulkarni, <b>NR Patil, AK Bewoor</b>	Development of PLC-based system for lift gate slam platform	AIP Conference Proceedings	Volume 2800, Issue 1, Sept. 2023, <a href="https://doi.org/10.1063/5.0162857">https://doi.org/10.1063/5.0162857</a>	1551-7616	Scopus

6	J Heeraman, LA Bewoor, <b>AK Bewoor</b> , S Kaliappan, PP Patil, S Socrates	Applications of firefly algorithm in hydrology	International Conference on Materials for Emerging Technologies-2021(ICMET-21)	Volume 2800, Issue 1, Sept. 2023, <a href="https://doi.org/10.1063/5.0162857">https://doi.org/10.1063/5.0162857</a>	1551-7616	Scopus
7	<b>Vishwanath Mali, Ajit Bhosale</b>	Effect of Foam Thickness on Two-Wheeler Seat in view of Seat Height Adjustment and Vibration Damping	16th International Conference Interdisciplinarity in Engineering (INTER-ENG 2023)	Mar 2024	2367-3370	Scopus
8	Poonam Bhore, Rujuta Agavekar, Himani Kadam, Mrunal Moha	An analysis of Flipped Classroom Model for the course 'Analysis and Synthesis of Mechanisms'	T4E International conference on Technology for Education	Nov 2023		Scopus
9	Mitali gore, Ajit Bhosale, Mithul Naidu	Impact of Organic Ingredients on the Frictional Performance of NAO Brake Pad	17th International Conference Interdisciplinarity in Engineering (INTER-ENG 2023)	Mar 2024	2367-3370	Scopus
10	Ketki Kshirsagar, Akanksha Kulkarni, Jui Karkhele, Divya Gajare, Nutan Deshmukh, <b>S.A.Kedar</b>	IoT Based Automation of the Prebuilt Solar Desalination System	8th International Conference on Information and Communication Technology for Competitive Strategies - ( ICTCS-2023)	5/11/2024 Volume 941 PP - 397-410		Scopus