



Department of Mechanical Engineering

List of Publications (Journal / Conference/ Proceedings / Book Chapters etc ...)

Sr. No	Details	Type (Journal / Conference/ Proceedings / Book Chapters)
A. Y. 2025-26		
1	Khizar Ahmed Pathan, Newaz Md Ashif, Abdul Aabid, Mohd. Azan Mohammad Sapardi, S. M. Afzal Hoq, Sher Afghan Khan, "Passive Control of Base Drag with D-Shaped Rib in a Suddenly Expanded Flow" ,2289-7879, 2025, https://doi.org/10.37934/arfmts.133.2.437	Journal
2	Khizar Ahmed Pathan, Ambareen Khan, Fharukh Ahmed Ghasi Mahaboobali, Nur Husnina Muhamad Zuraidi, Sher Afghan Khan, Mohd. Azan Mohammad Sapardi, Javed Shoukat Shaikh, "Effect of Quarter Circle Ribs Radius and Its Location in a Suddenly Expanded Flow at Sonic Mach Number", 2180-1363 2025, https://doi.org/10.37934/cfdl.18.1.87147	Journal
3	Nik Deanna Asheera Nik Hishamuddin ¹ , Mir Sohail Ali ² , Ambareen Khan ³ , Sher Afghan Khan ^{1,*} , Khizar Ahmed Pathan ⁴ , Ramchandra P. Chopade ⁴ , Control of Base Flows using Cavities at Supersonic Mach Number, 2180-1363, https://doi.org/10.37934/cfdl.18.2.103123	Journal
4	Shrikant Thorat, Deepakkumar H Patil, Mudigonda Sadaiah, Vikas Sargade, "Investigation on surface topography in photochemical machining of Co-Cr L605 alloy using a new etchant for cell growth, 2950-4252, https://doi.org/10.1016/j.pes.2025.100098	Journal
5	Bajirao Subhash Shirole, M.V.D.N.S.Madhavi, Babasaheb D Shinde, Deepakkumar H Patil, Avinash N. Khadtare, R. D. Sathiya, AI-Driven Optimization And Strategic Use Of Phase Change Materials For Smart Thermal Regulation, 2229-7359, 2025, https://doi.org/10.64252/3gqpeg91	Journal



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6	Bajirao Subhash Shirole, M.V.D.N.S.Madhavi, Babasaheb D Shinde, Deepakkumar H Patil, Avinash N. Khadtare, R. D. Sathiyam, AI In Educational Marketing: Customizing Learning Experiences To Attract And Retain Students, 2229-7360, 2025, https://doi.org/10.64252/vtkh5f61	Journal
7	Arka Ghosh, Nityananda Sahoo, Pankaj Shrivastava, Ankush Khansole Enhanced tribo-mechanical performance of MWCNT-hBN hybrid reinforced Al nanocomposites, 1872-5805, 2025, DOI: 10.1016/S1872-5805(26)61063-3	Journal
8	Dr. Rajendra Himmatrao Shinde, R. Kalidasan, Chandrashekhar B BanadAssistant, Signal Processing Techniques For Structural Health Monitoring In Civil And Mechanical Engineering Applications, 2457-0370, 2026, https://doi.org/10.29284/hbt06539	Journal



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Approved by AICTE New Delhi, DTE (Govt. of Maharashtra) and affiliated to Dr. BATU, Lonere (Raigad). **DTE Code: 2533**

3	Babasaheb Shinde & Raju Pawade (2024) Sustainable Processing of Insulating Yttria Stabilized Zirconia Ceramic using Wire Electrical Discharge Machining in Distilled Water, <i>International Journal of Precision Engineering and Manufacturing</i> , 25, 1139-1152. DOI: https://doi.org/10.1007/s12541-024-00973-1	Journal
4	Khizar Ahmed Pathan, Fiqri, M. I., and Sher Afghan Khan. "Control of Suddenly Expanded Flow with Cavity at Sonic Mach Number." In <i>Advances in Heat Transfer and Fluid Dynamics</i> , edited by Mohammad Altamush Siddiqui, Nadeem Hasan, and Andallib Tariq, 3–15. Singapore: Springer, 2024. https://doi.org/10.1007/978-981-99-7213-5_1 .	Book Chapters
5	Khizar Ahmed Pathan, Aqilah, Nur, and Sher Afghan Khan. "Passive Control of Base Flow at Supersonic Mach Number for Area Ratio 4." In <i>Advances in Heat Transfer and Fluid Dynamics</i> , edited by Mohammad Altamush Siddiqui, Nadeem Hasan, and Andallib Tariq, 37–50. Singapore: Springer, 2024. https://doi.org/10.1007/978-981-99-7213-5_4 .	Book Chapters
6	Khizar Ahmed Pathan, Jain, Yogesh Kumar, Vijay Kurkute, Sagar Mane Deshmukh, Ajaj Rashid Attar, and Sher Afghan Khan. "The Influence of Plate Fin Heat Sink Orientation under Natural Convection on Thermal Performance: An Experimental and Numerical Study." <i>Journal of Advanced Research in Fluid Mechanics and Thermal Sciences</i> 114, no. 2 (March 2024): 118-129. https://doi.org/10.37934/arfmts.114.2.118129 .	Journal
7	Surase, R.S., Konijeti, R. and Chopade, R.P. (2024) Thermally efficient gas turbine with pressure drop-based automated filter cleaning and optimized fuel control system, <i>Appl. Therm. Eng.</i> , 242:122385. https://doi.org/10.1016/j.applthermaleng.2024.122385 .	Journal
8	Surase, R. S., Konijeti, R., & Chopade, R. P. (2024). Thermal performance analysis of gas turbine power plant using soft computing techniques: a review. <i>Engineering Applications of Computational Fluid Mechanics</i> , 18(1). https://doi.org/10.1080/19942060.2024.2374317	Journal



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9	Surase, R.S., Revathi, D., Ramtekkar, P., Goankar, G.V. Renewable Energy Systems, Aasan Publications, ISBN No. 9788196678272	Book
	A. Y. 2022-23	
1	Babasaheb Shinde & Raju Pawade (2022) Study on analysis of kerf width variation in WEDM of insulating zirconia, Materials and Manufacturing Processes (Taylor & Francis), 36:9, 1010-1018. DOI: 10.1080/10426914.2020.1854468	Journal
	A.Y. 2020-21	
1	Pawade Raju & Shinde Babasaheb (2021) Study on analysis of plasma resistance variation in WEDM of insulating zirconia, Materials and Manufacturing Processes (Taylor & Francis), 36:1, 59-72. DOI: 10.1080/10426914.2020.1813898	Journal
	A.Y. 2017-18	
1	Patil, Deepakkumar Himmatrao, and Sadaiah Mudigonda. "Investigation on effect of grain orientation in photochemical machining of Monel 400." Materials and Manufacturing Processes 32.16 (2017): 1831-1837.	Journal
2	Patil, Deepakkumar H., et al. "Comparative study of FeCl ₃ and CuCl ₂ on geometrical features using photochemical machining of monel 400." <i>Procedia CIRP</i> 68 (2018): 144-149.	Conference
	A.Y. 2016-17	
1	Patil, Deepakkumar H., and Sadaiah Mudigonda. "The effect of the rolling direction, temperature, and etching time on the photochemical machining of monel 400 microchannels." <i>Advances in Materials Science and Engineering</i> 2016.1 (2016): 6751305.	Journal
2	Patil, Deepakkumar H., and Sadaiah Mudigonda. "The effect of the rolling direction, temperature, and etching time on the photochemical machining of monel 400 microchannels." <i>Advances in Materials Science and Engineering</i> 2016.1 (2016): 6751305.	Journal



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3	Thorat, Shrikant, et al. "Some Investigations on Photochemical Machining of Cobalt-Chromium L605 Alloy." <i>Proceedings of 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016)</i> . 2016.	Conference
4	Patil, Deepakkumar, et al. "Chemical Machining of Monel." International Conference on Communication and Signal Processing 2016 (ICCASP 2016). Atlantis Press, 2016.	Conference
5	Influences of Alloying Elements on the Tribological Properties of Aluminum Zinc Alloy Composite by Dhananjay P.Narmala, Sahil Naghate, Sagar Hiswankar. JSRD - International Journal for Scientific Research & Development, Volume 4, Year 2016, Pages 5-8	Journal
	A.Y. 2015-16	
1	Effect of Silicon Carbide Content on Tribological Properties of Aluminium Zinc Alloy Composite at Elevated Temperature by Dhananjay P. Narmala, Dr.S.B.Chikathankar International Journal of Scientific Engineering and Applied Science (IJSEAS) - Volume-1, Issue-4, July 2015 ISSN: 2395-3470	Journal