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Department Name : Mechanical Engineering

Number of research papers published per teacher in the Journals notified on WoS/Scopus/SCI/UGC CARE / peer reviewed etc list

Sr. No	Title of paper	Name of the author/s	Department of the teacher	Name of journal with Publisher Name	ISSN number	Volume and Page No.	Link to the recognition in UGC enlistment of the	
							DOI link	Link to article / paper / abstract of the article
Academic Year (2024-25)								
1	Analysis of Base Pressure Control with Ribs at Mach 1.2 using CFD Method	Khizar Ahmed Pathan , Ahmad 'Afy Ahmad Fakhruddin, Fharukh Ahmed Ghasi Mahboobali, Ambareen Khan, Mohammad Nishat Akhtar, Sher Afghan Khan	Mechanical Engineering	Journal: Journal of Advanced Research in Fluid Mechanics and Thermal Sciences Publisher: Semarak Ilmu Publishing, Malaysia.	2289-7879	Vol. 123, Issue 1, Page No. 108-143	https://semarakilmu.com.my/journals/index.php/fluid_mechanics_thermal_sciences/article/view/11538	SCOPUS (Q3)
2	Investigation on Water Erosion Behavior of Ti-based Metal Matrix Composite: Experimental Approach	Khizar Ahmed Pathan , Dipak Kale, Rachayya Arakerimath, Sher Afghan Khan	Mechanical Engineering	Journal: Journal of Advanced Research in Fluid Mechanics and Thermal Sciences Publisher: Semarak Ilmu Publishing, Malaysia.	2289-7879	Vol. 122, Issue 2, Page No. 71-82	https://doi.org/10.37934/arfm.122.2.7182	SCOPUS (Q3)
3	Modeling and Experimental Validation of NePCM-Nanofluid-Based PVT System	Khizar Ahmed Pathan , Fahim Rahim Sheikh, Suresh Pandurang Deshmukh, Purushottam Ardhapurkar, Sohel Khalil Shaikh, Sher Afghan Khan	Mechanical Engineering	Journal: Journal of Advanced Research in Fluid Mechanics and Thermal Sciences Publisher: Semarak Ilmu Publishing, Malaysia.	2289-7879	Vol. 122, Issue 1 Page No. 205-222	https://doi.org/10.37934/arfm.122.1.205222	SCOPUS (Q3)
4	Comparative Experimental Analysis and Performance Optimization of Single-Cylinder DI and HCCI Engine with Series Catalytic Converters	Khizar Ahmed Pathan , Pavan Bhaskar Chaudhari, Rachayya Arakerimath, Sher Afghan Khan	Mechanical Engineering	Journal: Journal of Advanced Research in Fluid Mechanics and Thermal Sciences Publisher: Semarak Ilmu Publishing, Malaysia.	2289-7879	Vol. 121, Issue 1 Page No. 173-187	https://doi.org/10.37934/arfm.121.1.173187	SCOPUS (Q3)
5	Numerical Simulation of Surface Pressure and Temperature Distribution Along a Cone at Supersonic Mach Numbers Using CFD	Khizar Ahmed Pathan , Javed Shoukat Shaikh, Sher Afghan Khan	Mechanical Engineering	Journal: Journal of Advanced Research in Numerical Heat Transfer Publisher: Semarak Ilmu Publishing, Malaysia.	2735-0142	Vol. 28, Issue 1 1-26	https://doi.org/10.37934/arfm.28.1.126	SCOPUS (Q1)

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							DOI link	Link to article / paper / abstract of the article
6	Comparative performance analysis of PVD-coated tools in orthogonal turning of duplex stainless steel	Deepakkumar Patil , Shirish Kadam, Hareesh Mahala, Divya Chavan, Abhijit Takle, and Mudigonda Sadaiah	Mechanical Engineering	Journal of Micromanufacturing (Publisher: SAGE)	2516-5992	45870	https://doi.org/10.1177/25165984241301532	Comparative performance analysis of PVD-coated tools in orthogonal turning of duplex stainless steel - Deepakkumar
7	Thermal performance analysis of gas turbine power plant using soft computing techniques: a review	Ravindra S. Surase , Ramakrishna Konijeti, Ramchandra P. Chopade	Mechanical Engineering	Journal: Engineering Applications of Computational Fluid Mechanics (Publisher: Taylor & Francis)	2005-4602	Vol. 18, 1, Page No. 2374317	https://doi.org/10.1080/19942060.2024.2374317	https://www.tandfonline.com/doi/full/10.1080/19942060.2024.2374317#d1e146
8	Investigation on surface topography in photochemical machining of Co-Cr L605 alloy using a new etchant for cell growth	Shrikant Thorat, Deepakkumar H. Patil , Mudigonda Sadaiah, Vikas Sargade	Mechanical Engineering	Progress in Engineering Science (Elsevier)	2950-4252	Vol. 2, Issue 3	https://doi.org/10.1016/j.pes.2025.100090	https://www.sciencedirect.com/science/article/abs/pii/S2950425225000428
9	Assessing Additive Manufacturing Techniques for Polymer and Metal Matrix Composites in Aerospace Applications	Ankush B. khansole , A S Harsha, A. Anu Kuttan	Mechanical Engineering	Journal: Transaction of Indian Institute of Metals. Publisher: Springer Nature	0972-2815			
10	Development analysis and mitigates during aluminium alloy to galvanized	Ankush Khansole , Rajendra Shinde	Mechanical Engineering	Goya Journal	0017-2715	Vol.18, Issue 3, Page 102-113	https://doi.org/10.5281/zenodo.14999933	
11	Efficient Gaussian Sugeno fuzzy vector with bidirectional lucidity network for gas turbine	Ravindra S. Surase , Ramakrishna Konijeti, Ramchandra P. Chopade	Mechanical Engineering	Journal: Current Science	-	Vol128, Issue 8, Page No 802-817	doi: 10.18520/cs/v128/i8/802-817	https://www.currentscience.ac.in/Volumes/128/08/0802.pdf
12	Efficient Polynomial PID controller and nonlinear autoregressive with Exogenous for increasing the Efficiency of Combined Gas Turbine (CGT) Plant	Ravindra S. Surase , Ramakrishna Konijeti, Ramchandra P. Chopade	Mechanical Engineering	Journal: Energy. Publisher: Pergamon	1873-6785	Volume 327	https://doi.org/10.1016/j.energy.2025.136334	https://www.sciencedirect.com/science/article/abs/pii/S0360544225019760
13	Evaluation of Stiffness Derivatives of a Wedge at Supersonic Speeds using Design of Experiment Methodology	Khizar Ahmed Pathan , Javed Shoukat Shaikh, Krishna Kumar, Sher Afgan Khan, Afreen Siddiqui	Mechanical Engineering	Journal: Journal of Advanced Research in Applied Mechanics Publisher: Semarak Ilmu Publishing, Malaysia.	2289-7895	Vol. 135, Issue 1, Page No. 180-192	https://doi.org/10.37934/aram.135.1.180192	https://semarakilmu.com.my/journals/index.php/appl_mech/article/view/10722

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14	Investigation of Stiffness Derivatives of a Wedge for Varying Wedge Angles and Pivot Positions at Hypersonic Mach Numbers	Khizar Ahmed Pathan , Javed Shoukat Shaikh, Krishna Kumar, Sher Afgan Khan, Afreen Siddiqui, Shalini Garg	Mechanical Engineering	Journal: Journal of Advanced Research in Applied Mechanics Publisher: Semarak Ilmu Publishing, Malaysia.	2289-7895	Vol. 135, Issue 1, Page No. 193-205	https://doi.org/10.37934/aram.135.1.1.93205	https://semarakilmu.com.my/journals/index.php/appl_mech/article/view/12637	SCOPUS
15	Control of Suddenly Expanded Flow using Quarter Rib for Area Ratio 4.84 at Mach 2	Khizar Ahmed Pathan , Zakir Ilaahi Chaudhary, Ambareen Khan, Sher Afgan Khan, Mohammad Nishat Akhtar	Mechanical Engineering	Journal: Journal of Advanced Research in Experimental Fluid Mechanics and Heat Transfer Publisher: Akademia Baru Publishing (M) Sdn Bhd, Malaysia.	2756-8202	Vol. 19, Issue 1, Page No. 1-29	https://doi.org/10.37934/arfmts.19.1.129	https://www.akademiabaru.com/submit/index.php/arfmt/article/view/6051	SCOPUS (Q3)
16	Numerical Modeling and Analysis of Damping Derivatives for a 2D Wedge at Hypersonic Mach Numbers and Variable Pivot Points	Khizar Ahmed Pathan , Javed Shoukat Shaikh, Shamitha Shetty, Narayan Govindrao Abuj, Krishna Kumar, Sher Afgan Khan, Anurag A. Nema	Mechanical Engineering	Journal: Journal of Advanced Research in Fluid Mechanics and Thermal Sciences Publisher: Semarak Ilmu Publishing, Malaysia.	2289-7879	Vol. 128, Issue 1, Page No. 92-107	https://doi.org/10.37934/arfmts.128.1.92107	https://semarakilmu.com.my/journals/index.php/fluid_mechanics/article/view/13713	SCOPUS (Q3)
17	Base Pressure Control using Quarter Circle Rib in a Suddenly Expanded Duct at Screech Prone Mach Number $M = 1.8$	Khizar Ahmed Pathan , Zakir Ilaahi Chaudhary, Ambareen Khan, Sher Afgan Khan, Mohammad Nishat Akhtar	Mechanical Engineering	Journal: CFD Letters Publisher: Semarak Ilmu Publishing, Malaysia.	2180-1363	Vol. 17, Issue 8, Page No. 60-95	https://doi.org/10.37934/cfdl.17.8.6095	https://semarakilmu.com.my/journals/index.php/CFD_Letters/article/view/13646	SCOPUS (Q3)
18	Passive Control of Base Flows and Impact of Quarter Rib Radius and Locations at Sonic Mach Number	Khizar Ahmed Pathan , Fharukh Ahmed Ghazi Mahabobali, Ambareen Khan, Mohammad Nishat Akhtar, Sher Afgan Khan	Mechanical Engineering	Journal: Journal of Advanced Research in Numerical Heat Transfer Publisher: Semarak Ilmu Publishing, Malaysia	2735-0142	Vol. 30, Issue 1, Page No. 47-81	https://doi.org/10.37934/arnt.30.1.4781	https://semarakilmu.com.my/journals/index.php/arnt/article/view/12978	SCOPUS (Q1)
19	Base Pressure Control using Quarter Rib at Mach 1.3: A Comprehensive CFD Analysis	Khizar Ahmed Pathan , Shamitha Shetty, Fharukh Ahmed Ghazi Mahabobali, Ambareen Khan, Mohammad Nishat Akhtar, Sher Afgan Khan	Mechanical Engineering	Journal: Journal of Advanced Research in Fluid Mechanics and Thermal Sciences Publisher: Semarak Ilmu Publishing, Malaysia	2289-7879	Vol. 127, Issue 2, Page No. 1-32	https://doi.org/10.37934/arfmts.127.2.132	https://semarakilmu.com.my/journals/index.php/fluid_mechanics/article/view/13547	SCOPUS (Q3)
20	Numerical Simulations of Base Pressure and Its Control in a Suddenly Expanded Duct at Mach 1.6 using Quarter Circular Ribs	Khizar Ahmed Pathan , Sayed Ahmed Imran Bellary, Ambareen Khan, Mohammad Nishat Akhtar, Dabir Shahab, Sher Afgan Khan	Mechanical Engineering	Journal: Journal of Advanced Research in Fluid Mechanics and Thermal Sciences Publisher: Semarak Ilmu Publishing, Malaysia	2289-7879	Vol. 127, Issue 2, Page No. 203-233.	https://doi.org/10.37934/arfmts.127.2.203233	https://semarakilmu.com.my/journals/index.php/fluid_mechanics/article/view/13567	SCOPUS (Q3)

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21	Estimation of the Damping Derivative in Pitch for a Wedge at Supersonic Mach Numbers using Design of Experiments	Khizar Ahmed Pathan , Javed Shoukat Shaikh, Krishna Kumar, Sher Afghan Khan, Kharadi Fayaz Husain, Siddiqui Aftreen	Mechanical Engineering	Journal: Journal of Advanced Research in Experimental Fluid Mechanics and Heat Transfer Publisher: Semarak Ilmu Publishing, Malaysia	2756-8202	Vol. 18, Issue 1, Page No. 106-117	https://doi.org/10.37934/arfmts.18.1.106117	https://www.akademikabaru.com/submit/index.php/arefmt/article/view/5691	SCOPUS (Q3)



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