

SN	Title of paper		Department of the Teacher	Name of Journal	Year of publication	ISSN number	Link to website of the Journal	Link to article/paper /abstract of the article	Is it listed in UGC Care list / Scopus / Web of Science /other, mention
1	Comparative finite element analysis of ISO standard bolt using ABS and PLA material	Shashank Pandey, Shrikant Vidya, P. Suresh	Department of Mechanical Engineering	Materials Today: Proceedings	2022-23	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://doi.org/10.1016/j.matpr.2022.09.063	Scopus
2	Evaluation of Material Removal Rate for Different Cavity Geometries produced by Die-sinking Electrical Discharge Machining	Shrikant Vidya, Reeta Wattal, P Venkateswara Rao	Department of Mechanical Engineering	Materials Today: Proceedings	2022-23	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://doi.org/10.1016/j.matpr.2022.09.183	Scopus
3	Experimental investigations of epoxy/boron nitride nanotubes composites prepared by centrifugal mixing and oven curing	Brahma Nand Agrawal, Pawan Kumar Singh Nain, SanskarRana, Pritish Nandan	Department of Mechanical Engineering	Materials Today: Proceedings	2022-23	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://doi.org/10.1016/j.matpr.2022.11.252	Scopus
4	Investigation of solid particle erosion behavior of Al-Al ₂ O ₃ and Al-ZrO ₂ metal matrix composites fabricated through powder metallurgy technique	Manvendra Yadav , L.A. Kumaraswamidhas , Sudhir Kumar Singh	Department of Mechanical Engineering	Tribology International	2022-23	0301-679X	https://www.sciencedirect.com/journal/tribology-international	https://www.sciencedirect.com/science/article/abs/pii/S0301679X22002092	Web of Science
5	Phase Change Materials for Solar Energy Applications	Wazeer, A., Das, A. & Vidya, S.	Department of Mechanical Engineering	Trans Indian Inst Met	2022-23	0975-1645	https://link.springer.com/article/10.1007/s12666-022-02864-3#citeas	https://doi.org/10.1007/s12666-022-02864-3	Web of Science
6	Co-production of gamma amino butyric acid (GABA) and lactic acid using Lactobacillus plantarum LP-9 from agro-residues	Pushpendra Sharma, Abha Sharma, Jyoti Singh, Neera Singh, Surender Singh, Govind SinghTomar, Pawan Kumar Singh Nain, Sunil Kumar	Department of Mechanical Engineering	Environmental Technology & Innovation, Volume 23, August 2021, 101650	2021-22	2352-1864	https://www.sciencedirect.com/journal/environmental-technology-and-innovation	https://doi.org/10.1016/j.eti.2021.101650	Scopus, Web of Science
7	Potent γ-amino butyric acid producing psychobiotic Lactococcus lactis LP-68 from non-rhizospheric soil of Syzygium cumini (Black plum)	Pushpendra Sharma, Neera Singh, Surender Singh, Sunil Kumar Khare, Pawan Kumar Singh Nain, Lata Nain	Department of Mechanical Engineering	Arch Microbiol 204, 82 (2022). https://doi.org/10.1007/s00203-021-02629-4	2021-22	0302-8933	https://www.springer.com/journal/203	https://doi.org/10.1007/s00203-021-02629-4	Scopus, Web of Science
8	Maximisation of energy and exergy efficiencies for a sustainable thermoelectric cooling system by applying genetic algorithm	Jitendra Mohan Giri, Pawan Kumar Singh Nain	Department of Mechanical Engineering	International Journal of Exergy, Vol. 37, No. 1, Inderscience Publishers	2021-22	1742-8300	https://www.inderscienceonline.com/journal/ijex	https://www.inderscienceonline.com/doi/abs/10.1504/IJEX.2022.120108	Scopus, Web of Science
9	Comparative stress analysis of round shaft with shoulder fillet using finite element and analytical method	Aditya Pratap Singh, Shrikant Vidya, P. Suresh, Amresh Kumar, K. S. Srikanth	Department of Mechanical Engineering	Materials Today: Proceedings	2021-22	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://doi.org/10.1016/j.matpr.2022.02.168	Scopus
10	Finite element analysis of vehicle composite propeller shaft	Utkarsh Singh, Pramod Kumar Yadav, ShrikantVidya, K.S. Srikanth	Department of Mechanical Engineering	Materials Today: Proceedings	2021-22	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://doi.org/10.1016/j.matpr.2022.01.228	Scopus
11	Experimental Investigation on Machinability and Geometric Tolerance in Die-Sinking EDM of Microholes and Channels	Shrikant Vidya, Reeta Wattal, P Venkateswara Rao	Department of Mechanical Engineering	MAPAN, Springer	2021-22	0974-9853	https://www.springer.com/journal/12647	https://doi.org/10.1007/s12647-022-00532-x	Scopus, Web of Science
12	Engine performance analysis for diesel engine using hydrogen as an alternative fuel	Aditya Johari, Subhash Singh, Shrikant Vidya	Department of Mechanical Engineering	Materials Today: Proceedings	2021-22	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://doi.org/10.1016/j.matpr.2022.01.180	Scopus

13	Comparative design and analysis of ISO standard bolt using polylactic acid (PLA) and alloy steel	Shashank Pandey, Shrikant Vidya, P. Suresh	Department of Mechanical Engineering	Materials Today: Proceedings	2021-22	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://doi.org/10.1016/j.matpr.2021.12.463	Scopus
14	Solar-Powered Reverse Osmosis Desalination	Akhil Shukla, Shubham Agarwal, Kuldeep Narwat	Department of Mechanical Engineering	Journal of Physics: Conference Series, Volume 2178, International Symposium on Fluids and Thermal Engineering / ELITE	2021-22	1742-6596	https://iopscience.iop.org/journal/1742-6596	https://doi.org/10.1088/1742-6596/2178/1/012018	Scopus, Web of Science
15	Software based analysis of angularity error for polygonal micro-cavities produced by die-sinking EDM	Shrikant Vidya, Reeta Wattal, P Venkateswara Rao	Department of Mechanical Engineering	Materials Today: Proceedings	2021-22	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://doi.org/10.1016/j.matpr.2022.02.355	Scopus
16	Geometric/microstructural imperfection sensitivity in the vibration characteristics of geometrically non-uniform functionally graded plates with mixed boundary conditions	Ankit Gupta, Vijay Krishna, Venkat Boddu, Pavan Vemulapalli, Narendra Unnava, Brahma Nand Agrawal	Department of Mechanical Engineering	MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES	2020-21	1539-7742	https://doi.org/10.1080/15397734.2021.1886947	https://doi.org/10.1080/15397734.2021.1886947	Web of Science
17	Design and Development of All-Terrain Vehicle Roll Cage	K K Dubey, B Pathak, B K Singh, P Rathore, S R S Yadav	Department of Mechanical Engineering	IOP Conference Series: Materials Science and Engineering	2020-21	1757-8981	https://iopscience.iop.org/article/10.1088/1757-899X/1149/1/012021	https://iopscience.iop.org/article/10.1088/1757-899X/1149/1/012021	Web of Science
18	Heat Transfer Analysis of Recuperator for Waste Heat Recovery Purpose Using LMTD & NTU Method	Agraj Pandey, Kaushalendra Kumar Dubey	Department of Mechanical Engineering	IOP Conference Series: Materials Science and Engineering	2020-21	1757-8981	https://iopscience.iop.org/article/10.1088/1757-899X/1149/1/012022	https://iopscience.iop.org/article/10.1088/1757-899X/1149/1/012022	Web of Science
19	Mechanical strength study of Off-Road vehicle chassis body materials	Kaushalendra Kumar Dubey, Bhaskar Pathak, Bhuvan Kumar Singh, Pranav Rathore, Shourya Raghav Singh Yadav	Department of Mechanical Engineering	Materials Today: Proceedings	2020-21	2214-7853	https://doi.org/10.1016/j.matpr.2021.04.147	https://doi.org/10.1016/j.matpr.2021.04.147	Scopus
20	Solar integrated combined cooling-power generation systems for waste heat recovery using different energy efficient materials	Kaushalendra Kumar Dubey , R.S. Mishra	Department of Mechanical Engineering	International Journal of Digital Signals and Smart Systems	2020-21	2398-0311	https://www.inderscienceonline.com/doi/abs/10.1504/IJDSS.2021.114556	https://www.inderscienceonline.com/doi/abs/10.1504/IJDSS.2021.114556	Scopus
21	Thermo-statistical study of sustainable refrigeration system for stack flow heat recovery of combined gas turbine-steam turbine power generation	Kaushalendra Kumar Dubey, R. S. Mishra	Department of Mechanical Engineering	Materials Today: Proceedigs	2020-21	2214-7853	https://doi.org/10.1016/j.matpr.2020.11.211	https://doi.org/10.1016/j.matpr.2020.11.211	Scopus
22	A Review on Research Aspects and Trends in Solar-Wind Hybrid Power Generation System	Atul kumar Singh, Abhishek Gupta, Shrikant Vidya, Altaf Hasan Tarique	Department of Mechanical Engineering	Turkish Online Journal of Qualitative Inquiry, Volume12, Issue 6, Pages 435-442, https://www.tojqi.net/index	2020-21	1309-6591	https://www.tojqi.net/index.php/journal/article/view/1175	https://www.tojqi.net/index.php/journal/article/view/1175	Scopus
23	Low Cost Mountain Road Network Maintenance Impact and Infrastructure	Krishna Agrawal, Nafees Ahmad, Shrikant Vidya, Faisal Shameem	Department of Mechanical Engineering	Turkish Online Journal of Qualitative Inquiry, Volume12, Issue 6, Pages 443-451, https://www.tojqi.net/index	2020-21	1309-6591	https://www.tojqi.net/index.php/journal/article/view/1176	https://www.tojqi.net/index.php/journal/article/view/1176	Scopus
24	Pyroelectric energy harvesting using automobile exhaust emission	Adil Wazeer, K. S. Srikanth, P. Mathiyalagan, Shrikant Vidya	Department of Mechanical Engineering	Materials Today: Proceedings, 2021, Elsevier, https://doi.org/10.1016/j.matpr.2021.01.844	2020-21	2214-7853	https://doi.org/10.1016/j.matpr.2021.01.844	https://doi.org/10.1016/j.matpr.2021.01.844	Scopus
25	Aerodynamics Characteristics of Compound Delta Wing at Sea Level	Gaurav Gupta, Pranav Tiwari, Bhanu Pratap Vatsa, Aashish Anand Sahay, K S Srikanth, Shrikant Vidya	Department of Mechanical Engineering	IOP Conf. Ser.: Mater. Sci. Eng. 1149 012027	2020-21	1757-8981	https://iopscience.iop.org/article/10.1088/1757-899X/1149/1/012027/meta	https://iopscience.iop.org/article/10.1088/1757-899X/1149/1/012027/meta	Web of Science

26	Investigation of machining performance in die-sinking electrical discharge machining of pentagonal micro-cavities using cylindrical electrode	Shrikant Vidya, Reeta Wattal, P Venkateswara Rao	Department of Mechanical Engineering	J Braz. Soc. Mech. Sci. Eng. 43, 288 (2021), Springer, Vol. 43, Iss. 6, pp. 1-9, https://doi.org/10.1007/s40430-021-02012-6	2020-21	1806-3691	https://doi.org/10.1007/s40430-021-03012-6	https://doi.org/10.1007/s40430-021-03012-6	Scopus, Web of Science
27	A review on research aspects and trends in rapid prototyping and tooling assisted investment casting	Ujjwal Purwar, Mohammad Aqib Javed, Shrikant Vidya	Department of Mechanical Engineering	Materials Today: Proceedings, 2021, Elsevier, Volume 46, Part 15, 2021, Pages 6704-6707 https://doi.org/10.1016/j.matpr.2021.04.172	2020-21	2214-7853	https://doi.org/10.1016/j.matpr.2021.04.172	https://doi.org/10.1016/j.matpr.2021.04.172	Scopus
28	Development and characterization of aluminium silicon carbide composite materials with improved properties	Lavepreet Singh, Sandeep Kumar, Shivam Raj, Shivam, Piyush Badhani	Department of Mechanical Engineering	Materials Today: Proceedings	2020-21	2214-7853	https://doi.org/10.1016/j.matpr.2021.04.220	https://doi.org/10.1016/j.matpr.2021.04.220	Scopus
29	Aluminium Metal Matrix Composites: Manufacturing and Applications	Lavepreet Singh, Sandeep Kumar, Shivam Raj, Shivam, Piyush Badhani	Department of Mechanical Engineering	IOP Conference Series: Materials Science and Engineering	2020-21	1757-8981	https://iopscience.iop.org/article/10.1088/1757-899X/1149/1/012025/meta	https://iopscience.iop.org/article/10.1088/1757-899X/1149/1/012025/meta	Web of Science
30	Designing and Simulating a Battery Pack with Higher Heat Dissipation Rate and Fast Charging Rate	Umesh Mishra, Rohit Gupta, Sanjeev Kumar, Manoj Kumar	Department of Mechanical Engineering	International Journal of Industrial Engineering and Design	2020-21	10.37628/IJIED	https://mechanical.journalspub.info/index.php?journal=IJIED&page=article&op=view&path%5B%5D=1269	https://mechanical.journalspub.info/index.php?journal=IJIED&page=article&op=view&path%5B%5D=1269	Others
31	Development and Performance analysis of Hybrid Based Polymer Composite	Kamlesh Kumar Jha, Harsh singh, Manoj Kumar Shukla	Department of Mechanical Engineering	IOP Conference Series: Materials Science and Engineering	2020-21	1757-8981	https://doi.org/10.1088/1757-899X/1149/1/012016	https://doi.org/10.1088/1757-899X/1149/1/012016	Web of Science
32	Computational Fluid Dynamic Study of Blockage in Artery With and Without Bypass	Affan Ahmed Ansari, Faisal Shameem	Department of Mechanical Engineering	IOP Conference Series: Materials Science and Engineering	2020-21	1757-899X	http://dx.doi.org/10.1088/1757-899X/1149/1/012019	http://dx.doi.org/10.1088/1757-899X/1149/1/012019	Web of Science
33	A review on bioenergy and biofuel production	Anna Raj Singh Sudhir Kumar Singh, Siddharth Jain	Department of Mechanical Engineering	Materials Today: Proceedings	2020-21	2214-7853	https://www.sciencedirect.com/science/article/pii/S2214785321022410	https://www.sciencedirect.com/science/article/pii/S2214785321022410	Scopus