

ZEAL EDUCATION SOCIETY'S
ZEAL COLLEGE OF ENGINEERING AND RESEARCH NARHE | PUNE -41 | INDIA
DEPARTMENT OF MECHANICAL ENGINEERING
Research Publications

Sr. No.	Name of Staff	Title of the paper	Name of Journal	Academic Year	SCI/Scopus/UGC
1	Dr. Kulkarni C.N.	Novel concept of utilizing geometrically taper receiver and solar cycloidal concentrator system for enhancing efficiency of solar concentrating system	Materials Today: Proceedings	2020-21	Scopus
2	Dr. Jagtap H. P.	Performance analysis and availability optimization to improve maintenance schedule for a turbine-generator system of a coal-fired thermal power plant using Particle Swarm Optimization	Reliability Engineering and System Safety	2020-21	SCI
3	Dr. Jagtap H. P.	RAM analysis and availability optimization of thermal power plant water circulation system using PSO	Energy Reports	2020-21	SCI
4	Dr. Jagtap H. P.	Reliability analysis using condition monitoring approach in thermal power plants	Reliability Management and Engineering: Challenges and Future Trends	2020-21	Scopus
5	Dr. Jagtap H. P.	Application of particle swarm optimization method for availability optimization of thermal power plant	Nature Inspired Optimization in Advanced Manufacturing Processes and Systems under series AI in Engineering CRC Press	2020-21	Scopus
6	Prof. Gadhave P. S.	Selection of phase change material for domestic water heating using multi criteria decision approach	Australian Journal of Mechanical Engineering	2020-21	Scopus

7	Prof. Gadhve P. S.	Comprehensive Review of Phase Change Material Based Latent Heat Thermal Energy Storage System	International Journal of Ambient Energy	2020-21	Scopus
8	Dr.Kulkarni C.N.	A comparative study and graphical analysis in designing and operation of Solar Thermal circular concentrator for enhancing efficiency of solar concentrating system	E3S Web of Conferences	2019-20	Scopus
9	Dr. Ritapure P. P.	Study of Mechanical properties and erosion wear behaviour of novel Al-25Zn alloy/SiC/Graphite hybrid composites	Materials Today: Proceedings	2019-20	Scopus
10	Dr. Jagtap H. P.	Failure analysis of induced draft fan used in a thermal power plant using coordinated condition monitoring approach: A case study	Engineering Failure Analysis	2019-20	SCI
11	Dr. Jagtap H. P.	Maintenance priority evaluation of turbine-generator components in a sub-critical coal-fired power Plant	Think India Journal	2019-20	UGC
12	Dr. Jagtap H. P.	Thermal power plant condenser fault diagnosis using coordinated condition monitoring approach	Instrumentation Mesure Métrologie	2019-20	Scopus
13	Dr. Jagtap H. P.	Markov-based performance evaluation and availability optimization of the boiler–furnace system in coal-fired thermal power plant using PSO	Energy Reports	2019-20	SCI
14	Dr. Jagtap H. P.	Traditional and non-traditional optimization techniques to enhance reliability in process industries	AI Techniques for Reliability Prediction for Electronic	2019-20	Book chapter

			Components (Book chapter)		
15	Dr. Jagtap H. P.	Markov probabilistic approach-based availability simulation modeling and performance evaluation of coal supply system of the thermal power plant, Reliability, Safety and Hazard Assessment for Risk-Based Technologies	Reliability, Safety and Hazard Assessment for Risk-Based Technologies, Lecture Notes in Mechanical Engineering (Springer Publications),	2019-20	Scopus
16	Prof. Magade P. B.	Experimental design, development and testing of novel aluminum mini wind turbine	Materials Today: Proceedings	2019-20	Scopus
17	Prof. Magade P. B.	A Review Paper on Vehicle Mounted Wind Turbine	Journal of Seybold Report	2019-20	Scopus
18	Dr. Bhamare Y. M.	Femtosecond transient absorption spectroscopy of laser-ablated graphite and reduced graphene oxide for optical switching behavior	Optical Materials: X	2019-20	Scopus
19	Prof. Adewar S. S.	Design Automation of Flange Coupling using NX 10.0	International Research Journal of Engineering and Technology (IRJET)	2019-20	IRJET
20	Prof. Chavan P. B.	Design of Two Wheeler Chassis	International Journal for Scientific Research & Development	2019-20	IJSRD
21	Prof. Kalyanshetti M. R.	Smart Parking System Based on Rules	International Journal of Recent Technology and Engineering (IJRTE)	2019-20	IJRTE
22	Prof. Gadekar T. D.	Tribological investigation on oil blended with Additive using Response surface methodology	E3S Web of Conferences	2019-20	Scopus
23	Prof. Bhoite K. L.	Vibrational analysis of carbon fiber steering wheel	International Journal of Advance Research, Ideas and Innovation in	2018-19	IJARIIIT

			Technology. (ISSN No.2454-132X)		
24	Prof. Karande A.	Review on solar desalination using Solar Steels.	International Association of Engineering and Management Education (IAEME)-Inprocess	2018-19	IAEME
	Prof. Kasar A. M	A review on Optimum Tool Geometry Design to minimise cutting force for turning of Hardened Steel	Journal of Emerging Technologies and Innovative Research (JETIR)	2018-19	JETIR
		Stress Analysis of Carbon Fiber Reinforced Composite Laminate with Different Centrally Located Cutouts	Materials Today Proceedings Elsevier, 16(2019), 592-597	2018-19	SCOPUS
25	Prof. Ritapure P.P.	SiC contents and pin temperature effect on tribological properties of Al25Zn/SiC composites	International Journal of Refractory Metals & Hard Materials 82 (2019) 234–244	2018-19	SCI/Scopus
		Study of mechanical and sliding wear behavior of Al-25Zn alloy/SiC/Graphite novel hybrid composites for plain bearing application	Tribology in industry 41(3) (2019)375-38	2018-19	Scopus
		Evaluation of mechanical and tribological properties of different Al25Zn based hybrid composite	Journal of Material Today: Proceeding 18 (7) (2019) 3900-3909	2018-19	Scopus
26	Prof. Magade P. B.	Structural analysis of novel micro wind turbine	International Journal of Advance Research, Ideas and Innovation in Technology. (ISSN No.2454-132X)	2018-19	IJARIIT
		Vibrational analysis of carbon fiber steering wheel	International Journal of Advance Research, Ideas and Innovation in Technology. (ISSN No.2454-132X)	2018-19	IJARIIT

		Solar powered seed sowing machine and spray pump	International Journal of Advance Research, Ideas and Innovation in Technology. (ISSN No.2454-132X)	2018-19	IJARIIT
		Manufacture and modification of 2000CMH ESP cell model for process improvement and efficiency.	International Journal of Scientific Research in Engineering & Management.(ISS N No. :-2590-1892)	2018-19	IJSREM
		A review paper on exhaust manifold”, International Journal of Advance Research, Ideas and Innovations in Technology	International Journal of Advance Research, Ideas and Innovation in Technology. (ISSN No.2454-132X)	2018-19	IJARIIT
		Development and Testing of Novel Small Wind Turbine (NSWT) Set	Springer International Publishing, ISBN 978-3-030-16848-3, 2018.	2018-19	UGC
		Experimentation on Design and Development of Mini Wind Turbine	International Journal of Innovative Technology and Exploring Engineering (IJITEE), (SCOPUS)	2018-19	Scopus
27	Dr. Patil A.M.	Numerical Analysis of Diesel Engine With Modified Inlet Valve	International Journal of Engineering and Advanced Technology	2018-19	Scopus
		Effect of Circular and Oval hole profile on Thermal Analysis of Disc Brake	Springer Proceedings	2018-19	Scopus
28	Prof. Tambe J.K.	Design, Analysis & Optimisation of roller in belt conveyor system	JETIR May 2019, Volume 6, Issue 5 (ISSN-2349-5162).	2018-19	JETIR
		Investigation of performance of worm and worm gear in power window gear box application	In process (IJITEE)	2018-20	Scopus

29	Prof. Chavan P.B	Development and Analysis of Quarter Car vibration Absorption System	JETIR May 2019, Volume 6, Issue 5 (ISSN-2349-5162).	2018-19	JETIR
		Vibrations reduction in a Vertical Axis Wind Turbine using Blade Design Modification and Maglev Principle.	IRJET Volume: 05 Issue: 03 May-2019	2018-19	IRJET
30	Prof. Petkar R. K.	Dye Sensitized Solar Cells Using Carbon Nanotubes and Natural Dye	Journal of Emerging Technologies and Innovative Research (JETIR)	2018-19	JETIR
		A Review on Stirling Engine Performance	Journal of Emerging Technologies and Innovative Research (JETIR)	2018-19	JETIR
31	Prof. Gadpayale U. K.	Dye Sensitized Solar Cells Using Carbon Nanotubes and Natural Dye	Journal of Emerging Technologies and Innovative Research (JETIR)	2018-19	JETIR
		Development of an algorithm for identification and confirmation of faults in thermal power plant using	Procedia Engineering, Procedia Engineering 181 (2017) 690 – 697	2017-18	Scopus
		Thermal Power Plant Condenser Fault Diagnosis Using Coordinated Condition Monitoring Approach	Instrumentation Mesure Métrologie Journal, Vol. 18, No. 3, June, 2019, pp. 223-235	2018-19	Scopus
		Failure analysis of induced draft fan used in a thermal power plant using coordinated condition monitoring	Engineering Failure Analysis journal, 20 February 2020, 104442	2018-19	SCI & Scopus
		Maintenance Priority Evaluation of Turbine-Generator Components In A Sub-Critical Coal-Fired Power Plant	THINK INDIA JOURNAL, ISSN: 0971-1260 Vol-22- Issue-16-August-2019	2018-19	UGC
				2018-19	Scopus

		Reliability analysis using condition monitoring approach in thermal power plants	Taylor & Francis book chapter in "Reliability Management and Engineering: Challenges and Future Trends" January 2020	2018-19	Scopus
32	Prof. Patil S.S.	Analysis of Automotive Door Weather-strip Seals	to5th Mechanical Engineering Post Graduate Students' Conference MECHPGCON2019,	2018-19	UGC
		Design and Development of Prototype of Mechanical System for Vertical Farming	to5th Mechanical Engineering Post Graduate Students' Conference MECHPGCON2019,	2018-19	UGC
33	Prof.Gadhave P S.	Selection of phase change material based on AHP and TOPSIS method	International Journal of Advance Research, Ideas and Innovations in Technology	2018-19	IJARIIT
		Selection of Phase Change Material Using Shenon Entropy and Vikor Method	International Research Journal of Engineering and Technology (IRJET)	2018-19	IRJET
34	Prof.Gandigude A.U.	Simulation of Rocket Cook-Stove Geometrical Aspect for its PerformanceImprovement	Elsevier, Materials Today: Proceedings	2018-19	Scopus
		Review of Rocket Cook-Stove Geometrical Aspects forits Performance Improvement	Elsevier, Materials Today: Proceedings	2018-19	Scopus
		· A Review On Digital Twin: A New Era For Smart Manufacturing Of Industrial Revolution 4.0	International Conference on Mechanical Engineering for Sustainable Development-2020	2018-19	UGC

		· A Review On Digital Twin: A New Era For Smart Manufacturing Of Industrial Revolution 4.0	International Conference on Mechanical Engineering for Sustainable Development-2020	2018-19	UGC
35	Prof.Mutali kdesai Sachin	EXPERIMENTAL INVESTIGATION OF AN ALUMINIUM THERMOSYPHON AT NORMAL OPERA	Journal of Thermal Engineering	2018-19	Scopus