

## SCHOOL OF MECHANICAL ENGINEERING

Title of paper	Name of the author/s	Name of journal	Year of publication	ISSN number	Link to the notification in UGC enlistment of the Journal
Design and Fabrication of Solar Powered Wheelchair	Yogesh Metkari, Rishabh Raj, Hrshikesh Jathar, Sneha Athawale, N.B.Totla	Materials Today: Proceedings	April 2023	2214-7853	<a href="https://www.scopus.com/sourceid/24769">https://www.scopus.com/so urceid/24769</a>
Optimization of jet impingement heat transfer: A review on advanced techniques and parameters	Surendra D. Barewar a, Mahesh Joshi a, Pravin O. Sharma b, Pritam S. Kalos a, Balaji Bakthavatchalam c, Sandesh S. Chougule d e, Khairul Habib f, Sandip K. Saha	Thermal Science and Engineering Progress,	March 2023	2451-9049	<a href="https://www.scopus.com/sourceid/21100842663">https://www.scopus.com/so urceid/21100842663</a>
Selection of two-wheelers using analytical hierarchy process	Kamble A. G.	Materials Today: Proceedings	March 2023	2214-7853	<a href="https://www.scopus.com/sourceid/24769">https://www.scopus.com/so urceid/24769</a>
CFD simulation of in cylinder combustion of multi-cylinder diesel engine	N.B. Totla , Y.J. Bhalerao	Materials Today: Proceedings	March 2023	2214-7853	<a href="https://www.scopus.com/sourceid/24769">https://www.scopus.com/so urceid/24769</a>
Optimization of jet impingement heat transfer: A review on advanced techniques and parameters	Surendra D. Barewar a, Mahesh Joshi a, Pravin O. Sharma b, Pritam S. Kalos a, Balaji Bakthavatchalam c, Sandesh S. Chougule d e, Khairul Habib f, Sandip K. Saha	Thermal Science and Engineering Progress,	February 2023	2451-9049	<a href="https://www.scopus.com/sourceid/21100842663">https://www.scopus.com/so urceid/21100842663</a>

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Analyzing the Design Parameters and Their Influence on the Tensile Strength of Composite Layers using Taguchi Technique	Prafulla Hatte	Materials Today Proceedings	January 2023	2214-7853	<a href="https://www.scopus.com/sourceid/24769">https://www.scopus.com/sourceid/24769</a>
IOT Based Indoor Hydroponic Farming	Mangesh Chavan, Yash Toshniwal , Prathamesh Sadakal , Ashutosh Gandhewar , Nilesh Balkishanji Totala	GRADIVA REVIEW JOURNAL	December 2022	0363-8057	10.37897.GRJ.2022.V8I12.22.50571
Understanding engineering students' perceptions of their curiosity, diligence, and perseverance and assessing its impact on their creativity	Saurbh Deo. Abhijit Malge	CERN IdeaSquare Journal of Experimental Innovation	November 2022	2413-9505	<a href="https://www.scopus.com/sourceid/21100983359">https://www.scopus.com/sourceid/21100983359</a>
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Selection of engine oil using multi-attribute decision-making methods	Akash Salunke*, Ajit Lokhande, Akash Neharkar, Rupesh Satpute and Avinash Kamble	Int. J. Industrial and Systems Engineering	October 2022	1748-5045	<a href="https://www.scopus.com/sourceid/5800179616">https://www.scopus.com/sourceid/5800179616</a>
Pyrolysis of marine waste to pyrolytic oil and its application in compression ignition engine	Rohit Kumar Singh, Ajinkya Mukund Pannase, Mahesh Prakash Joshi,	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 44:3,	July 2022	1556-7036	<a href="https://www.scopus.com/sourceid/4500151514">https://www.scopus.com/sourceid/4500151514</a>
Application of multi-attribute decision-making methods for the selection of conveyor.	Fulzele, S.B., Khatke, S.B., Kadam, S.J. , Avinash Kamble	Soft Computing	July 2022	1432-7643	<a href="https://www.scopus.com/sourceid/28554">https://www.scopus.com/sourceid/28554</a>

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Multi-response and multi-criteria decision-making optimization of transesterification reaction for biodiesel production based on critic weight determination method ..	S. Balamurugan, D. E&TCnivasan, Pritam S. Kalos,	Proc IMechE Part E:J Process Mechanical Engineering 1–1	June 2022	0954-4089	<a href="https://www.scopus.com/sourceid/20408">https://www.scopus.com/sourceid/20408</a>
Artificial neural network modeling and optimization of thermophysical behavior of MXene Ionanofluids for hybrid solar photovoltaic and thermal systems	Nagoor Basha Shaik , Muddasser Inayat , Watit Benjapolakul , Balaji Bakthavatchalam , Surendra D. Barewar , Widhyakorn Asdornwised , Surachai Chaitusaney	Thermal Science and Engineering Progress	June 2022	2451-9049	<a href="https://www.scopus.com/sourceid/21100842663">https://www.scopus.com/sourceid/21100842663</a>
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Enhancement technique of heat transfer using inserted twisted tape	Prashant R NAWALE1, Atharva A Mule, Sudesh B Powar, Pramod P Kothmire	Journal of Thermal Engineering	2022		DOI:10.18186/thermal.1025902

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Classification of Damages in Composite Material using Multi-support Vector Machine	B Rajiv ,Pritam Kalos , Prakash Pantawane ,Vikas Chougule, Vishwanath Chavan1	Journal of the Institution of India Ser. C (2022)	2022		DOI: 10.1007/s40032-022- 00811-1
Selection of Blends of Ethanol with Petrol for SI Engine Using TOPSIS and VIKOR methods	Avinash Kamble, Vishal Bhosale, Vishal Naranje	International Symposium on Fluids and Thermal Engineering 2021. Journal of Physics: Conference Series 2178 (2022) 012037 (IOP Publishing)	2022	ISSN: 1742- 6596	doi:10.1088/1742- 6596/2178/1/012037
Selection of raw material supplier for cold-rolled mild steel 5 manufacturing industry	Avinash G. Kamble,, Pritam S. Kalos , K. Mahapatra, and Vishal A. Bhosale	Int. J. Simul. Multidisci. Des. Optim. Vol, No (2022)	2022	eISSN : 1779-6288	DOI: 10.1051/smdo/2022004
Steel Surface Defect Detection Using VGG Deep Learning Models	Harshal Piwala, Mayur Dhokale, Raihan Biswas, Sumedha Raut, and Abhijeet Malge,	International Journal of Mechanical Engineering, , 2022	2022	ISSN: 0974- 5823	<a href="https://kalaharijournals.com/resources/22_MARCH%20IS_SUE.pdf">https://kalaharijournals.com/ resources/22_MARCH%20IS SUE.pdf</a>
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A novel approach of centrifugal fluidized chamber to remove diesel engine particulate matter emission	Shamkuwar, S., Malkhede, D., Chopra, N., Dange, P., Chandratre, N., Damle, R	International Journal of Ambient Energy,43(1),259-267,	2022	ISSN: 0143-0750	DOI: 10.1080/01430750.2019.1636879
Prediction of ethanol-gasoline blend fuelled spark ignition engine performance using dimensional analysis	Prafulla Hatte & Yogesh Bhalerao	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects(2021)	2021		DOI: 10.1080/15567036.2021.1955044
Sustainable Electrical Discharge Machining of Nimonic C263 Superalloy	Shastri, R.K., Mohanty, C.P	Arabian Journal for Science and Engineering,	2021	ISSN : 2193567X	DOI: 10.1007/s13369-020-05211-0
Optimization of Various Thermodynamic Parameters for Minimum Temperature Gradient Along Cylinder Liner	N B Totla, C L Prabhune, N K Sane	International Journal of Ambient Energy	2021	e-ISSN: 2395-0056	<a href="https://doi.org/10.1080/01430750.2021.1914725">https://doi.org/10.1080/01430750.2021.1914725</a>
Investigation on effects of parameters of GMAW process on bead geometry, hardness and microstructure of AISI 410 steel weldments	Kamble A. G. & Rao R. V.	Advances in Materials and Processing Technologies	2021	ISSN: 0975-1017 (Online); 0971-4588 (Print)	DOI: 10.1080/2374068X.2021.1912537
Wind tunnel and numerical study of multi-storey vertical axis wind turbines with different configurations	Malge, A.M., Pawar, P.M.	Journal of Engineering, Design and Technology,	2021	ISSN : 1726-0531	DOI: 10.1108/JEDT-09-2020-0360

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Analyzing the Interrelationship among Supply Chain Knowledge Flow Barriers: A DEISMI approach	Bhosale, V. A. and Kant, R	Journal of Information and Knowledge Management,	2021	ISSN : 1793-6926	<a href="https://doi.org/10.1142/S0219649220500288">https://doi.org/10.1142/S0219649220500288</a>
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Prediction of ethanol-gasoline blend fuelled spark ignition engine performance using dimensional analysis	Prafulla Hatte & Yogesh Bhalerao,	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	2021	ISSN: 15567230 15567036	DOI: 10.1080/15567036.2021.1955044
Combustion analysis of a compression-ignition engine fuelled with an algae biofuel blend and diethylether as an additive by using an artificial neural network	Joshi, M.P., Thipse, S.S.	Biofuels	2021	ISSN: 1759-7269	DOI: 10.1080/17597269.2018.1489675
Multi-objective optimization of carbon/glass hybrid composites with newly developed resin (NDR) using gray relational analysis	Dnyandev Patil, S., Bhalerao, Y.J.	Multidiscipline Modeling in Materials and Structures,	2020	ISSN : 1573-6105	DOI: 10.1108/MMMS-08-2019-0141
Decomposition of polyamide via slow pyrolysis: Effect of heating rate and operating temperature on product yield and composition	Pannase, A.M., Singh, R.K., Ruj, B., Gupta, P.	Journal of Analytical and Applied Pyrolysis,	2020	ISSN : 0165-2370	DOI: 10.1016/j.jaap.2020.104886
Intelligent systems for volumetric feature recognition from CAD mesh models	Hase, V J, Bhalerao, Y. J, Verma, S. & Patil, G. J.	International Journal of Intelligent Enterprise. 24 Jan 2020, 7, 1/2/3, p. 267-278 12 p.	2020	ISBN: 978-3-030-19562-5	doi/abs/10.1504/IJIE.2020.104661
Application of NSGA-II for optimisation of cylindrical plunge grinding process parameters	Patil, S. S. & Bhalerao, Y. J	International Journal of Abrasive Technology. 9, 4. Jan 2020	2020		<a href="https://dx.doi.org/10.1504/IJAT.2019.10028326">https://dx.doi.org/10.1504/IJAT.2019.10028326</a>

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Experimental Investigation, Optimization and Modelling of Carbon Fibre Graphite/Epoxy Laminates with the Help of Abrasive Water Jet Machine	Abhimayu Chandgude ,Dr.Shivprakash	International Journal of Mechanical and Production Engineering Research and Development (Vol. 10, Issue 2, Apr 2020, 633–642	2020	ISSN: 249–8001	10.24247/ijmperdfeb2018153
A novel approach for enhancing thermal performance of battery modules based on finite element modeling and predictive modeling mechanism	Garg A., Ruhatiya C., Cui X., Peng X., Bhalerao Y., Gao L.	Nutrition Today	2020	ISSN 2381-6872	DOI: 10.1115/1.4045194
Experimental studies on the performance and analysis of an electrostatic coalescer under different electrostatic boundary conditions	Kothmire, P.P., Bhalerao, Y.J., Naik, V.M., Thaokar, R.M., Juvekar, V.A.	Chemical Engineering Research and Design	2020	ISSN : 0263-8762	DOI: 10.1016/j.cherd.2019.12.012
Optimization of design variables for carbon/glass hybrid composites laminates using the Taguchi Technique	Patil, S.D., Bhalerao, Y.J., Takale, A.	World Journal of Engineering,	2020	ISSN 1708-5284	DOI: 10.1108/WJE-10-2019-0290
Optimization of dynamic properties of hybrid composite shaft with newly developed resin (NDR) using grey relational analysis	Patil, S.D, Bhalerao, Y.J	International Journal of Structural Integrity,	2019	ISSN : 1757-9864	DOI: 10.1108/IJSI-07-2019-0073
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Influence of ethanol-gasoline fuel fractions on variable compression ratio engine	Hatte, P., Bhalerao, Y.	International Journal of Recent Technology and Engineering	2019	ISSN: 2277-3878	DOI:10.35940/ijrte.C4792.098319
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Cfd simulation of in cylinder gases of multi-cylinder diesel engine for estimation of liner temperature from gas side	Totla, N.B., Prabhune, C.L., Sane, N.K.	International Journal of Innovative Technology and Exploring Engineering	2019	ISSN: 2278-3075	H10140688S319/19©BEIESP
Heat transfer enhancement and flow physics behaviour of fluid in circular tube with insert	Deshmukh S. C; Deshmukh P. W; Hatte P. R	International Journal of Recent Technology and Engineering,, Vol-8 (3), 2019.	2019	ISSN 2277-3878	DOI:10.35940/ijrte.C4452.098319
An experimental and performance analysis of natural draft wire on tube condenser	Badwar S. R; Joshi M. P; Mandale S. B; Kujur A. S	International Journal of Recent Technology and Engineering,, Vol-8 (3), 2019	2019	ISSN 2277-3878	DOI:10.35940/ijrte.C5174.098319

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Study of Thermal Performance of an Innovative Curtain-Wall-Integrated Solar Heater with Nanofluid	Pankaj. P. Kulkarni , Mahesh. P. Joshi	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), , Vol. 10, Issue 3, Jun 2020, pp. 47-60.	2019	ISSN (P): 2249-6890; ISSN (E): 2249-8001	10.24247/ijmperdjun20205
Design of Multistage axial compressor and performance evaluation using numerical simulation	Cheke K. D., Kamble A. G	International Journal of Innovative Technology and Exploring Engineering. , Vol. 9(2), 2019, pp. 2320-2325	2019	ISSN: 2278-3075	DOI: 10.35940/ijitee.B7455.129219
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Combustion analysis of ci engine fuelled with algae biofuel blends	Joshi, M.P., Thipse, S.S	Journal of Thermal Engineering	2019	0000-0002-8284-4535	DOI:10.18186/thermal.654374
A novel approach of centrifugal fluidized chamber to remove diesel engine particulate matter emission	Shamkuwar, S., Malkhede, D., Chopra, N., Dange, P., Chandratre, N., Damle, R.	International Journal of Ambient Energy,	2019	ISSN: 0143-0750	DOI: 10.1080/01430750.2019.1636879
GA-based multi-objective optimization of active nonlinear quarter car suspension system—PID and fuzzy logic control	Nagarkar, M.P., Bhalerao, Y.J., Vikhe Patil, G.J., Zaware Patil, R.N	International Journal of Mechanical and Materials Engineering	2018	ISSN: 2198-2791	DOI: 10.1186/s40712-018-0096-8
An evaluation of algae biofuel as the next generation alternative fuel and its effects on engine characteristics: A review	Joshi, M.P., Thipse, S.S.	International Journal of Mechanical and Production Engineering Research and Development,	2018	ISSN(P): 2249-6890; ISSN(E): 2249-8001	DOI: 10.24247/ijmperdfeb201942
Integrated Taguchi-simulated annealing (SA) approach for analyzing wear behaviour of silicon nitride	Ghalme, S., Mankar, A., Bhalerao, Y.	Journal of Applied Research and Technology	2017	ISSN : 1665-6423	DOI: 10.1016/j.jart.2017.08.003
Wear performance optimization of silicon nitride (Si3N4)-hexagonal boron nitride (HBN) composite using genetic algorithm (GA)	Sachin, G., Ankush, M., Yogesh, B.	Recent Patents on Materials Science	2017	ISSN: 1874-4656	DOI: 10.2174/1874464810666170503125052