

## **SUMMARY OF PUBLICATIONS (FH22)**

Sr.no.	Type of Publication	No. of Publications
1.	Journal Publications	06
2.	Conference Publications	09

## PAPERS PUBLISHED IN JOURNALS

**FH22**

Sr. No.	Name of Faculty Member	Details of Papers Published	Date	DOI	Indexing Category
1.	S.M. Khot	Amey Marathe, S. M. Khot and J. Nagler, "Development of Low-Cost Optimal Magneto-rheological Damper for Automotive Application", Journal of Vibration Engineering & Technologies, Vol. 10, 2523-3939, 2022	11 April 2022	<a href="https://doi.org/10.1007/s42417-022-00486-z">https://doi.org/10.1007/s42417-022-00486-z</a>	Scopus
2.	Sanjay Rukhande	Sanjay W Rukhande and Nikhil Kundar, "Tribological investigation of HVOF sprayed Ni-based coatings on SS 316L in water-cooled nuclear reactor", Materials Today: Proceedings, published online 24 February 2022	24 Feb 2022	<a href="https://doi.org/10.1016/j.matpr.2022.02.210">https://doi.org/10.1016/j.matpr.2022.02.210</a>	Scopus
3.	Sanjay Rukhande	Sanjay W Rukhande, W. S. Rathod, and Digvijay Bhosale, "Ni-based coating protection of 316L stainless steel at dry, elevated temperature and wet sliding condition", Materials Today: Proceedings, Elsevier, March 2022.	9 March 2022	<a href="https://doi.org/10.1016/j.matpr.2022.02.584">https://doi.org/10.1016/j.matpr.2022.02.584</a>	Scopus
4.	Sanjay Rukhande	Sanjay W Rukhande, Swaraj Gujar and Rathod, W.S. "Sliding Wear Investigation of Ni-Based Coating and SS 316L for Hydraulic Fracturing Tools in Water-Diesel Condition", Journal of Failure Analysis and Prevention, Springer Nature, 25 February 2022.	22 March 2022	<a href="https://doi.org/10.1007/s11668-022-01370-4">https://doi.org/10.1007/s11668-022-01370-4</a>	Scopus
5.	Prasad Bari	Bari P., and Karande P., "Ranking of sequencing rules in a job shop scheduling problem with preference selection index approach", Journal of Decision Analytics and Intelligent Computing, vol. 2, Issue 1, pp. 12-25, 2022	28 April 2022	<a href="https://doi.org/10.31181/jdaic10028042022b">https://doi.org/10.31181/jdaic10028042022b</a>	CROSSREF / ROAD
6.	Praseed Kumar	Jovan Menezes, Shubhankar Das, Bhavik Panchal, Nitesh P Yelve, Praseed Kumar, "Mapping, Trajectory, Planning and Navigation for Hexapod Robots using ROS", Lecture Notes in Mechanical Engineering, Vol.2, pp 851-867, 2022	15 May 2022	<a href="https://doi.org/10.1007/978-981-16-2794-1_76">https://doi.org/10.1007/978-981-16-2794-1_76</a>	Book Chapter (Springer) Scopus

## PAPERS PUBLISHED IN CONFERENCES

### FH22

Sr. No.	Name of Faculty Member	Details of Papers Published	Date	Indexing Category
1.	Nilaj Deshmukh	N. N. Deshmukh, A. Ansari, A. Phalak, and J. D. 'M C. A. Mathew, "Effect of helmholtz resonator shape on suppression of thermo-acoustic instability," IOP Conf. Ser. Mater. Sci. Eng., vol. 1259, no. 1, p. 012002, Oct. 2022, doi: 10.1088/1757-899X/1259/1/012002.	27-28 May 2022	Web of Science
2.	Kshirsagar Nanaji	Konduru S Harish Raju, Kshirsagar Nanaji, Praseed Kumar, " Residual stress predictions in welded plates using artificial neural network and experimental validations" in Proc. International Conference on Applied Mechanics, Machine Learning and Advanced Computation, AMMLAC 2022, Mar. 16-17, 2022.	16-17 March 2022	Scopus
3.	Pallavi Khaire	Pallavi Khaire, Vikas Phalle,"Condition Monitoring of Rolling Element Bearing Having Defect at Outer race Using Machine Learning", in Pceedings, 76th Annual Meeting & Exhibition Walt Disney World Swan and Dolphin Resort, Society of Tribologists and Lubrication Engineers (STLE), Orlando, Florida (USA) May 15-19, 2022	15-19 May 2022	Scopus
4.	Pallavi Khaire	Pallavi Khaire, V. M. Phalle 2022. "Condition Monitoring of Ball Bearing Having Defect at Inner Race Using Vibration Analysis and Machine Learning," SAMPE Conference Proceedings. Charlotte, NC, May 23-26, 2022. Society for the Advancement of Material and Process Engineering – North America. pp.1407-1421	23-26 May 2022	Scopus
5.	Praseed Kumar	Konduru S Harish Raju, Nanaji Kshirsagar and Praseed Kumar, "Residual Stress Predictions in Welded Plates Using Artificial Neural Network and Experimental Validations", in Proc. International conference on Applied Mechanics, Machine Learning and Advanced Computation –AMMLAC-2022, Raipur, India, March 16-17,2022.	16-17 March 2022	Scopus
6.	Deepak Devasagayam	Deepak Devasagayam, Badal Kudachi, Jose Chiramel, Vishwas Kalamkar, Chelcy Rebello, and Daison Thomas, "Analysis of Thermal Battery Management Systems for Lithium-Ion Battery Cell" in Proc. 20th ISME Conference on Advances in Mechanical Engineering, Indian Institute of Technology, Ropar, Rupnagar, Punjab-140001, India. May 19-21, 2022, pp. 458-463	19 - 21 May 2022	Scopus
7.	Badal Kudachi	Deepak Devasagayam, Badal Kudachi, Jose Chiramel, Vishwas Kalamkar, Chelcy Rebello, and Daison Thomas, "Analysis of Thermal Battery Management Systems for Lithium-Ion Battery Cell" in Proc. 20th ISME Conference on Advances in Mechanical Engineering, Indian Institute of Technology, Ropar, Rupnagar, Punjab-140001, India. May 19-21, 2022, pp. 458-463	19 -21 May 2022	Scopus

8.	Afzal Ansari	N. N. Deshmukh, A. Ansari, A. Phalak, and J. D. 'M C. A. Mathew, "Effect of helmholtz resonator shape on suppression of thermo-acoustic instability," IOP Conf. Ser. Mater. Sci. Eng., vol. 1259, no. 1, p. 012002, Oct. 2022, doi: 10.1088/1757-899X/1259/1/012002.	27-28 May 2022	Web of Science
9.	Sainath A. Waghmare	S. A. Waghmare, "Graphical Approach for Image Improvement on Cylindrical Receiver by Center-Oriented Aiming Strategy of Heliostat", in Proceeding of 1st International Conference in Fluid, Thermal and Energy Systems, NIT Calicut, Kerala, June 2022.	9-11 June 2022	Scopus

## **SUMMARY OF PUBLICATIONS (SH21)**

Sr.no.	Type of Publication	No. of Publications
1.	Journal Publications	06
2.	Conference Publications	10

## PAPERS PUBLISHED IN JOURNALS

### SH21

Sr. No.	Name of Faculty Member	Details of Papers Published	Date	DOI	Category
1.	Nilaj Deshmukh	Deshmukh NN, Ansari A, Kumar P, George AV, Thomas FJ, George MS., "Effect of position of radial air injection plane on control of thermo-acoustic instability using active closed-loop method", Journal of Vibration and Control, vol. 0, no. 0, pp 1-9, 2021. doi:10.1177/10775463211050175	14 Oct 2021	10.1177/10775463211050175	SCI/ Scopus/ Web of Science
2.	Aqleem Siddiqui	P. Kumar, A. Siddiqui, A. Ghadi, D. Tony, S. Rhenius and S. Rane, "Damage Detection in beams using Vibration analysis and Artificial Neural Network," 2021 4th Biennial International Conference on Nascent Technologies in Engineering (ICNTE), 2021, pp. 1-5, doi: 10.1109/ICNTE51185.2021.9487658.	30 July 2021	10.1109/ICNTE51185.2021.9487658	IEEE Xplore
3.	Sanjay Rukhande	Ganesh P. Bile, Sanjay W Rukhande and Walmik S. rathod. "Investigation of friction and sliding wear for journal bearing using Taguchi optimization", IEEE Explorer, 2021	30 July 2021	10.1109/ICNTE51185.2021.9487703	IEEE Xplore
4.	Praseed Kumar	Deshmukh NN, Ansari A, Kumar P, George AV, Thomas FJ, George MS., "Effect of position of radial air injection plane on control of thermo-acoustic instability using active closed-loop method", Journal of Vibration and Control, vol. 0, no. 0, pp 1-9, 2021. doi:10.1177/10775463211050175	14 Oct 2021	10.1177/10775463211050175	SCI/ Scopus
5.	Praseed Kumar	P. Kumar, A. Siddiqui, A. Ghadi, D. Tony, S. Rhenius and S. Rane, "Damage Detection in beams using Vibration analysis and Artificial Neural Network," 2021 4th Biennial International Conference on Nascent Technologies in Engineering (ICNTE), 2021, pp. 1-5, doi: 10.1109/ICNTE51185.2021.9487658.	30 July 2021	10.1109/ICNTE51185.2021.9487658	IEEE Xplore
6.	Afzal Ansari	Deshmukh NN, Ansari A, Kumar P, George AV, Thomas FJ, George MS., "Effect of position of radial air injection plane on control of thermo-acoustic instability using active closed-loop method", Journal of Vibration and Control, vol. 0, no. 0, pp 1-9, 2021. doi:10.1177/10775463211050175	14 Oct 2021	10.1177/10775463211050175	SCI/ Scopus

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1.	Sanjay Rukhande	Sanjay W Rukhande, Walmik S Rathod, Digvijay G Bhosale, "Ni-based coating protection of 316L stainless steel at dry, elevated temperature and wet sliding condition", in 9th International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering, IIT, Ropar, India, December 9-11, 2021	09-11 Dec 2021	Scopus
2.	Sanjay Rukhande	Sanjay Rukhande, Swaraj Gujar, "The surface properties enhancement using coating: A Review", in 9th International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering, IIT, Ropar, India, December 9-11, 2021.	09-11 Dec 2021	Scopus
3.	Sanjay Rukhande	Sanjay W Rukhande, Nikhil Kunder "Tribological investigation of Nickel based coatings in water-cooled reactor", in 9th International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering, IIT, Ropar, December 9-11, 2021.	09-11 Dec 2021	Scopus
4.	Nilesh Varkute	Nilesh Varkute, Badal Kudachi, Bipin Mashilkar, Priyan Kamble, Anmol Rane, Aishwarya Harad, Glen Rebello, "Experimental and Numerical Investigation of Latent Heat Based Energy Storage System Using Nano Enhanced Phase Change Material", in Proc. 2nd International Congress on Advances in Mechanical and Systems Engineering (CAMSE-2021) Conference, NIT Jalandhar, July 17-19, 2021	17-19 July 2021	Web of Science
5.	Nilesh Varkute	Nilesh Varkute, Badal Kudachi, Shardul Kachare, Chintan Mange, Jigar Gandhi, Harish Menon, "Thermal Analysis of Earth Tube Heat Exchanger Using Experimental Setup and Simulation", in Proc. 2nd International Congress on Advances in Mechanical and Systems Engineering (CAMSE-2021), NIT Jalandhar, Punjab, INDIA, July 17-19, 2021	17-19 July 2021	Scopus
6.	Bipin Mashilkar	Nilesh Varkute, Badal Kudachi, Bipin Mashilkar, Priyan Kamble, Anmol Rane, Aishwarya Harad, Glen Rebello, "Experimental and Numerical Investigation of Latent Heat Based Energy Storage System Using Nano Enhanced Phase Change Material", in Proc. 2nd International Congress on Advances in Mechanical and Systems Engineering (CAMSE-2021) Conference, NIT Jalandhar, July 17-19, 2021	17-19 July 2021	Scopus
7.	Suvarna Rode	Suvarna Rode, Sunny Sarraf, Shreya Hamine, Kevin Coutinho, Abhishek Gupta, Pranay Gaikwad, "Design and Simulation of a System for Variable Bead Size Deposition in FDM", in Proc. Virtual International Conference on Product Design, Development, and Deployment (PD3 - 2021) 11th & 12th September 2021	11-12 Sept 2021	Scopus

8.	Badal Kudachi	Nilesh Varkute, Badal Kudachi, Bipin Mashilkar, Priyan Kamble, Anmol Rane, Aishwarya Harad, Glen Rebello, "Experimental and Numerical Investigation of Latent Heat Based Energy Storage System Using Nano Enhanced Phase Change Material", in Proc. 2nd International Congress on Advances in Mechanical and Systems Engineering (CAMSE-2021) Conference, NIT Jalandhar, July 17-19, 2021	17-19 July 2021	Scopus
9.	Badal Kudachi	Nilesh Varkute, Badal Kudachi, Shardul Kachare, Chintan Mange, Jigar Gandhi, Harish Menon, "Thermal Analysis of Earth Tube Heat Exchanger Using Experimental Setup and Simulation", in Proc. 2nd International Congress on Advances in Mechanical and Systems Engineering (CAMSE-2021), NIT Jalandhar, Punjab, INDIA, July 17-19, 2021	17-19 July 2021	Scopus
10.	Sainath A. Waghmare	S. A.Waghmare, "Ray Tracing based Target Shifting Strategy for Heliostat Field to Improve Solar Flux Distribution inside 1MW Cavity Receiver", Proceeding of International Conference on Energy Sciences (ICES-2021), M. G. University, Kerala, Dec. 2021.	10-12 Dec 2021	Scopus