## Hemantha Kumar

List of Publications by Year in descending order

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471509 526287 63 966 17 27 citations h-index g-index papers 64 64 64 577 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Design and development of MR damper for two wheeler application and Kwok model parameters tuning for designed damper. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2022, 236, 1595-1606.	1.9	9
2	Classification of gear faults in internal combustion (IC) engine gearbox using discrete wavelet transform features and K star algorithm. Engineering Science and Technology, an International Journal, 2022, 30, 101048.	3.2	14
3	Fault diagnosis of antifriction bearing in internal combustion engine gearbox using data mining techniques. International Journal of Systems Assurance Engineering and Management, 2022, 13, 1121-1134.	2.4	2
4	Performance Evaluation of Magneto-Rheological Damper Through Characterization Testing, Modeling and its Implementation in Quarter Car. Journal of Vibration Engineering and Technologies, 2022, 10, 967-983.	2.2	3
5	Design, characterization and control of MR damper for two-wheeler applications. Materials Today: Proceedings, 2022, 62, 2056-2063.	1.8	1
6	Influence of temperature on magnetorheological fluid properties and damping performance. Smart Materials and Structures, 2022, 31, 055018.	3.5	11
7	Effect of temperature on sedimentation stability and flow characteristics of magnetorheological fluids with damper as the performance analyser. Journal of Magnetism and Magnetic Materials, 2022, 555, 169342.	2.3	12
8	Dynamic Analysis of a Quarter Car Model with Semi-Active Seat Suspension Using a Novel Model for Magneto-Rheological (MR) Damper. Journal of Vibration Engineering and Technologies, 2021, 9, 161-176.	2.2	23
9	Effect of magnetic permeability, shearing length, and shear gap on magnetic flux density of the magnetorheological damper through finite element analysis. Materials Today: Proceedings, 2021, 39, 1613-1619.	1.8	3
10	Design of bypass rotary vane magnetorheological damper for prosthetic knee application. Journal of Intelligent Material Systems and Structures, 2021, 32, 931-942.	2.5	16
11	Fault diagnosis of internal combustion engine gearbox using vibration signals based on signal processing techniques. Journal of Quality in Maintenance Engineering, 2021, 27, 385-412.	1.7	6
12	Dynamic behavior of sandwich beams with different compositions of magnetorheological fluid core. International Journal of Smart and Nano Materials, 2021, 12, 88-106.	4.2	6
13	Performance Evaluation of a Single Sensor Control Scheme Using a Twin-Tube MR Damper Based Semi-active Suspension. Journal of Vibration Engineering and Technologies, 2021, 9, 1193-1210.	2.2	5
14	Free vibration analysis and selection of composite for high strength and stiffness using multi-attribute decision making. International Journal of Materials Research, 2021, 112, 189-197.	0.3	3
15	Influence of different fumed silica as thixotropic additive on carbonyl particles magnetorheological fluids for sedimentation effects. Journal of Magnetism and Magnetic Materials, 2021, 529, 167910.	2.3	24
16	Gearbox fault diagnosis based on Multi-Scale deep residual learning and stacked LSTM model. Measurement: Journal of the International Measurement Confederation, 2021, 186, 110099.	5.0	51
17	Selection of optimal composition of MR fluid for a brake designed using MOGA optimization coupled with magnetic FEA analysis. Journal of Intelligent Material Systems and Structures, 2021, 32, 1831-1854.	2.5	9
18	Optimal Design of Rotary Magneto-Rheological Drum Brake for Transfemoral Prosthesis. Lecture Notes in Mechanical Engineering, 2021, , 465-474.	0.4	2

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19	Semi-active vibration control of SiC-reinforced Al6082 metal matrix composite sandwich beam with magnetorheological fluid core. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2020, 234, 408-424.	1.1	9
20	Application of vibration analysis and data mining techniques for bearing fault diagnosis in two stroke IC engine gearbox. AIP Conference Proceedings, 2020, , .	0.4	3
21	The effect of inclination angle of shock absorber on ride comfort and road holding of two-wheeled vehicle. AIP Conference Proceedings, 2020, , .	0.4	1
22	Rheological characterization of tragacanth gum coated carbonyl particles based magnetorheological fluid. AIP Conference Proceedings, 2020, , .	0.4	0
23	Experimental investigation and mathematical modeling of automotive passive damper for SUV suspension system. AIP Conference Proceedings, 2020, , .	0.4	O
24	Experimental investigation of frequency and damping characteristics of magneto-rheological fluid core sandwich beams. AIP Conference Proceedings, 2020, , .	0.4	1
25	Semi-active control of a swing phase dynamic model of transfemoral prosthetic device based on inverse dynamic model. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	3
26	Synthesis of magnetorheological fluid and its application in a twin-tube valve mode automotive damper. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2020, 234, 1001-1016.	1.1	10
27	Characterization of magnetorheological brake utilizing synthesized and commercial fluids. Materials Today: Proceedings, 2020, 46, 9419-9419.	1.8	14
28	Investigation of sedimentation, rheological, and damping force characteristics of carbonyl iron magnetorheological fluid with/without additives. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	11
29	Semi-active vibration control of MRF core PMC cantilever sandwich beams: Experimental study. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2020, 234, 574-585.	1.1	5
30	Comparative Study on Tool Fault Diagnosis Methods Using Vibration Signals and Cutting Force Signals by Machine Learning Technique. SDHM Structural Durability and Health Monitoring, 2020, 14, 127-145.	1.1	17
31	Influence of Tool Probe Offset and Traverse Speed on Microstructure and Mechanical Properties of Friction Stir Weld Dissimilar Joints of AA2024-T351 and AA7075-T651. Lecture Notes on Multidisciplinary Industrial Engineering, 2020, , 555-567.	0.6	O
32	Optimal design of inverted rotary MR brake with waveform boundary using a novel combined magnetostatic approach. Smart Materials and Structures, 2020, 29, 105014.	3 <b>.</b> 5	4
33	Evaluation of a commercial MR damper for application in semi-active suspension. SN Applied Sciences, 2019, 1, 1.	2.9	20
34	Design and experimental characterization of a twin-tube MR damper for a passenger van. Journal of the Brazilian Society of Mechanical Sciences and Engineering, $2019,41,1$ .	1.6	26
35	Fault diagnosis of single-point cutting tool using vibration signal by rotation forest algorithm. SN Applied Sciences, 2019, $1,1.$	2.9	5
36	Investigation of magnetorheological brake with rotor of combined magnetic and non-magnetic materials. SN Applied Sciences, 2019, 1, 1.	2.9	5

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37	Determination of optimal magnetorheological fluid particle loading and size for shear mode monotube damper. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	26
38	Experimental investigation on effects of varying volume fractions of SiC nanoparticle reinforcement on microstructure and mechanical properties in friction-stir-welded dissimilar joints of AA2024-T351 and AA7075-T651. Journal of Materials Research, 2019, 34, 1229-1247.	2.6	23
39	Influence of additives on the synthesis of carbonyl iron suspension on rheological and sedimentation properties of magnetorheological (MR) fluids. Materials Research Express, 2019, 6, 086105.	1.6	25
40	Dynamic analysis and optimization of SiC reinforced Al6082 and Al7075 MMCs. Materials Research Express, 2019, 6, 056528.	1.6	13
41	Design of twin-rod flow mode magneto rheological damper for prosthetic knee application. AIP Conference Proceedings, 2019, , .	0.4	4
42	Multi objective optimization of quarter car parameters for better ride comfort and road holding. AIP Conference Proceedings, $2019, \ldots$	0.4	2
43	Investigation of static and dynamic properties of cenosphere reinforced polymer matrix composite beams. AIP Conference Proceedings, 2019, , .	0.4	0
44	Performance analysis of a semi-active suspension system using coupled CFD-FEA based non-parametric modeling of low capacity shear mode monotube MR damper. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 1214-1231.	1.9	16
45	An approach for characterizing twin-tube shear-mode magnetorheological damper through coupled FE and CFD analysis. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	30
46	Effect of tool rotation speed on microstructure and tensile properties of FSW joints of 2024-T351 and 7075-T651 reinforced with SiC nano particle: The role of FSW single pass. AIP Conference Proceedings, 2018, , .	0.4	5
47	Fault Diagnosis of Face Milling Tool using Decision Tree and Sound Signal. Materials Today: Proceedings, 2018, 5, 12035-12044.	1.8	33
48	Vertical dynamic analysis of a quarter car suspension system with MR damper. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 41-51.	1.6	30
49	Optimization of Magneto-Rheological Damper for Maximizing Magnetic Flux Density in the Fluid Flow Gap Through FEA and GA Approaches. Journal of the Institution of Engineers (India): Series C, 2017, 98, 533-539.	1.2	20
50	Optimisation of monotube magnetorheological damper under shear mode. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 2225-2240.	1.6	33
51	Face milling tool condition monitoring using sound signal. International Journal of Systems Assurance Engineering and Management, 2017, 8, 1643-1653.	2.4	31
52	Engine gearbox fault diagnosis using empirical mode decomposition method and Na $\tilde{A}$ -ve Bayes algorithm. Sadhana - Academy Proceedings in Engineering Sciences, 2017, 42, 1143-1153.	1.3	21
53	Evaluation of optimal parameters of MR fluids for damper application using particle swarm and response surface optimisation. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 3683-3694.	1.6	26
54	Design and development of magneto-rheological brake for optimum casing thickness. , 2017, , .		1

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55	A Bottom-Up Optimization Approach for Friction Stir Welding Parameters of Dissimilar AA2024-T351 and AA7075-T651 Alloys. Journal of Materials Engineering and Performance, 2017, 26, 3347-3367.	2.5	16
56	Condition monitoring of face milling tool using K-star algorithm and histogram features of vibration signal. Engineering Science and Technology, an International Journal, 2016, 19, 1543-1551.	3.2	56
57	Fault Diagnosis of Welded Joints through Vibration Signals Using Naà ve Bayes Algorithm. , 2014, 5, 1922-1928.		8
58	Fault diagnosis of bearings through vibration signal using Bayes classifiers. International Journal of Computer Aided Engineering and Technology, 2014, 6, 14.	0.2	19
59	Fault Diagnosis of Single Point Cutting Tool through Vibration Signal Using Decision Tree Algorithm. , 2014, 5, 1434-1441.		32
60	Gear Fault Detection Using Vibration Analysis and Continuous Wavelet Transform., 2014, 5, 1846-1852.		30
61	Exploiting sound signals for fault diagnosis of bearings using decision tree. Measurement: Journal of the International Measurement Confederation, 2013, 46, 1250-1256.	5.0	122
62	Analysis of MR Damper Based on Finite Element Approach. Applied Mechanics and Materials, 0, 592-594, 2006-2010.	0.2	6
63	Impact of increased particle concentration on magnetorheological fluid properties and their damping performance. Korea Australia Rheology Journal, 0, , .	1.7	1