Suraj Prakash Harsha

List of Publications by Citations

163 papers	2,974 citations	28 h-index	49 g-index
187 ext. papers	3,604 ext. citations	2.2 avg, IF	6.03 L-index

#	Paper	IF	Citations
163	Fault diagnosis of ball bearings using machine learning methods. *Expert Systems With Applications*, **2011**, 38, 1876-1886	7.8	242
162	Fault diagnosis of ball bearings using continuous wavelet transform. *Applied Soft Computing Journal*, **2011**, 11, 2300-2312	7.5	176
161	Fault diagnosis of rolling element bearing with intrinsic mode function of acoustic emission data using APF-KNN. *Expert Systems With Applications*, **2013**, 40, 4137-4145	7.8	169
160	Rolling element bearing fault diagnosis using wavelet transform. *Neurocomputing*, **2011**, 74, 1638-1645	5.4	159
159	Non-linear dynamic behaviors of rolling element bearings due to surface waviness. *Journal of Sound and Vibration*, **2004**, 272, 557-580	3.9	119
158	Vibration signature analysis of single walled carbon nanotube based nanomechanical sensors. *Physica E: Low-Dimensional Systems and Nanostructures*, **2010**, 42, 2115-2123	3	98
157	Stability analysis of a rotor bearing system due to surface waviness and number of balls. *International Journal of Mechanical Sciences*, **2004**, 46, 1057-1081	5.5	86
156	The effect of speed of balanced rotor on nonlinear vibrations associated with ball bearings. *International Journal of Mechanical Sciences*, **2003**, 45, 725-740	5.5	78
155	Nonlinear dynamic analysis of a high-speed rotor supported by rolling element bearings. *Journal of Sound and Vibration*, **2006**, 290, 65-100	3.9	77
154	Nonlinear dynamic response of a balanced rotor supported by rolling element bearings due to radial internal clearance effect. *Mechanism and Machine Theory*, **2006**, 41, 688-706	4	71
153	Effect of carbon nanotube orientation on the mechanical properties of nanocomposites. *Composites Part B: Engineering*, **2012**, 43, 2063-2071	10	57
152	Nonlinear dynamic analysis of an unbalanced rotor supported by roller bearing. *Chaos, Solitons and Fractals*, **2005**, 26, 47-66	9.3	57
151	Rolling element bearing fault diagnosis using autocorrelation and continuous wavelet transform. *JVC/Journal of Vibration and Control*, **2011**, 17, 2081-2094	2	55
150	Fault diagnosis of rolling element bearing using cyclic autocorrelation and wavelet transform. *Neurocomputing*, **2013**, 110, 9-17	5.4	54
149	Fault diagnosis of rolling element bearing by using multinomial logistic regression and wavelet packet transform. *Soft Computing*, **2014**, 18, 255-266	3.5	53
148	Vibration based performance prediction of ball bearings caused by localized defects. *Nonlinear Dynamics*, **2012**, 69, 847-875	5	52
147	Non-linear dynamic response of a balanced rotor supported on rolling element bearings. *Mechanical Systems and Signal Processing*, **2005**, 19, 551-578	7.8	52

146	Analysis of Nonlinear Phenomena in High Speed Ball Bearings due to Radial Clearance and Unbalanced Rotor Effects. *JVC/Journal of Vibration and Control*, **2010**, 16, 65-88	2	50
145	Analysis of mechanical properties of carbon nanotube reinforced polymer composites using multi-scale finite element modeling approach. *Composites Part B: Engineering*, **2016**, 95, 172-178	10	44
144	Zeptogram scale mass sensing using single walled carbon nanotube based biosensors. *Sensors and Actuators A: Physical*, **2011**, 168, 275-280	3.9	41
143	The effect of bearing cage run-out on the nonlinear dynamics of a rotating shaft. *Communications in Nonlinear Science and Numerical Simulation*, **2008**, 13, 822-838	3.7	41
142	Evaluation and prediction of blast induced ground vibration using support vector machine. *Mining Science and Technology*, **2010**, 20, 64-70		36
141	Vibration-based fault diagnosis of a rotor bearing system using artificial neural network and support vector machine. *International Journal of Modelling, Identification and Control*, **2012**, 15, 185	0.6	34
140	Nonlinear dynamic analysis of rolling element bearings due to cage run-out and number of balls. *Journal of Sound and Vibration*, **2006**, 289, 360-381	3.9	33
139	Analysis of Mechanical Properties of Carbon Nanotube Reinforced Polymer Composites Using Continuum Mechanics Approach **2014**, 6, 18-25		30
138	Processing and Optimization of Dissimilar Friction Stir Welding of AA 2219 and AA 7039 Alloys. *Journal of Materials Engineering and Performance*, **2015**, 24, 4809-4824	1.6	29
137	Fault diagnosis of a rotor bearing system using response surface method. *European Journal of Mechanics, A/Solids*, **2009**, 28, 841-857	3.7	28
136	Nonlinear Vibration Analysis of Sigmoid Functionally Graded Sandwich Plate with Ceramic-FGM-Metal Layers. *Journal of Vibration Engineering and Technologies*, **2020**, 8, 67-84	2	28
135	Measurement and bio-dynamic model development of seated human subjects exposed to low frequency vibration environment. *International Journal of Vehicle Noise and Vibration*, **2014**, 10, 1	0.1	27
134	Nonlinear Dynamic Response of a Rotor Bearing System Due to Surface Waviness. *Nonlinear Dynamics*, **2004**, 37, 91-114	5	27
133	Buckling analysis of FGM plates under uniform, linear and non-linear in-plane loading. *Journal of Mechanical Science and Technology*, **2019**, 33, 1761-1767	1.6	25
132	Nonlinear Vibration Signature Analysis of a High Speed Rotor Bearing System Due to Race Imperfection. *Journal of Computational and Nonlinear Dynamics*, **2012**, 7,	1.4	25
131	Nonlinear dynamic analysis of sandwich S-FGM plate resting on pasternak foundation under thermal environment. *European Journal of Mechanics, A/Solids*, **2019**, 76, 155-179	3.7	24
130	Effect of waviness on the mechanical properties of carbon nanotube based composites. *Physica E: Low-Dimensional Systems and Nanostructures*, **2011**, 43, 1453-1460	3	24
129	Exact Solution for Free Vibration and Buckling of Sandwich S-FGM Plates on Pasternak Elastic Foundation with Various Boundary Conditions. *International Journal of Structural Stability and Dynamics*, **2019**, 19, 1950028	1.9	24

128	Thermo-mechanical analysis of porous sandwich S-FGM plate for different boundary conditions using Galerkin Vlasov's method: A semi-analytical approach. *Thin-Walled Structures*, **2020**, 150, 106668	4.7	22
127	Fault Diagnosis of High Speed Rolling Element Bearings Due to Localized Defects Using Response Surface Method. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2011**, 133,	1.6	21
126	Structural Dynamic Analysis of Freight Railway Wagon Using Finite Element Method **2014**, 6, 1891-1898		20
125	Nonlinear dynamic analysis of high speed bearings due to combined localized defects. *JVC/Journal of Vibration and Control*, **2014**, 20, 2300-2313	2	20
124	Vibration characteristics of porous FGM plate with variable thickness resting on Pasternak's foundation. *European Journal of Mechanics, A/Solids*, **2021**, 85, 104124	3.7	20
123	Dynamic Analysis of a Clamped Wavy Single Walled Carbon Nanotube Based Nanomechanical Sensors. *Journal of Nanotechnology in Engineering and Medicine*, **2010**, 1,		19
122	An Experimental and FEM Modal Analysis of Cracked and Normal Steam Turbine Blade. *Materials Today: Proceedings*, **2015**, 2, 2056-2063	1.4	18
121	Analysis of porosity effect on free vibration and buckling responses for sandwich sigmoid function based functionally graded material plate resting on Pasternak foundation using Galerkin Vlasov method. *Journal of Sandwich Structures and Materials*, **2021**, 23, 1717-1760	2.1	18
120	A multiscale approach for estimating the chirality effects in carbon nanotube reinforced composites. *Physica E: Low-Dimensional Systems and Nanostructures*, **2012**, 45, 28-35	3	17
119	Vibration Response Analysis of Doubly Clamped Single Walled Wavy Carbon Nanotube Based Nanomechanical Sensors. *Journal of Nanotechnology in Engineering and Medicine*, **2010**, 1,		17
118	Effects of Preload and Number of Balls on Nonlinear Dynamic Behavior of Ball Bearing System. *International Journal of Nonlinear Sciences and Numerical Simulation*, **2003**, 4,	1.8	17
117	Vibration Response Analysis of Last Stage LP Turbine Blades for Variable Size of Crack in Root. *Procedia Technology*, **2016**, 23, 232-239		16
116	Analysis of elastic properties of carbon nanotube reinforced nanocomposites with pinhole defects. *Computational Materials Science*, **2011**, 50, 3245-3256	3.2	16
115	The effect of ball size variation on nonlinear vibrations associated with ball bearings. *Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics*, **2004**, 218, 191-210	0.9	16
114	Failure Evaluation of Ball Bearing for Prognostics. *Procedia Technology*, **2016**, 23, 179-186		16
113	CHAOTIC RESPONSE ANALYSIS OF SINGLE-WALLED CARBON NANOTUBE DUE TO SURFACE DEVIATIONS. *Nano*, **2012**, 07, 1250008	1.1	15
112	Vibration based modelling of acoustic emission of rolling element bearings. *Journal of Sound and Vibration*, **2020**, 468, 115117	3.9	15
111	MASS DETECTION USING SINGLE WALLED BORON NITRIDE NANOTUBE AS A NANOMECHANICAL RESONATOR. *Nano*, **2012**, 07, 1250029	1.1	14

110	A theoretical study of ionic liquid lubricated EHL line contacts considering surface texture. *Tribology International*, **2016**, 94, 39-51	4.9	13
109	Nonlinear vibration analysis of piezo-actuated flat thin membrane. *JVC/Journal of Vibration and Control*, **2015**, 21, 1162-1170	2	13
108	Vibrational characteristics of defective single walled BN nanotube based nanomechanical mass sensors: single atom vacancies and divacancies. *Sensors and Actuators A: Physical*, **2013**, 197, 111-121	3.9	13
107	Effect of chirality and atomic vacancies on dynamics of nanoresonators based on SWCNT. *Sensor Review*, **2011**, 31, 47-57	1.4	13
106	The effect of pinhole defect on vibrational characteristics of single walled carbon nanotube. *Physica E: Low-Dimensional Systems and Nanostructures*, **2011**, 43, 1040-1045	3	13
105	Modal analysis of functionally graded piezoelectric material plates. *Materials Today: Proceedings*, **2020**, 28, 1481-1486	1.4	11
104	Processing of RZ5-10wt%TiC in-situ magnesium matrix composite. *Journal of Magnesium and Alloys*, **2018**, 6, 100-105	8.8	11
103	Study of Effect of Unbalanced Forces for High Speed Rotor. *Procedia Engineering*, **2013**, 64, 593-602		11
102	AN EFFICIENT FINITE ELEMENT MODEL FOR ANALYSIS OF SINGLE WALLED BORON NITRIDE NANOTUBE-BASED RESONANT NANOMECHANICAL SENSORS. *Nano*, **2013**, 08, 1350011	1.1	11
101	Objective and subjective responses of seated subjects while reading Hindi newspaper under multi axis whole-body vibration. *International Journal of Industrial Ergonomics*, **2011**, 41, 625-633	2.9	11
100	Vibration response analysis of exponential functionally graded piezoelectric (EFGP) plate subjected to thermo-electro-mechanical load. *Composite Structures*, **2021**, 267, 113901	5.3	10
99	Effect of Carbon Nanotubes on CNT Reinforced FGM Nano Plate under Thermo Mechanical Loading. *Procedia Technology*, **2016**, 23, 130-137		9
98	Vibration Analysis of Single Walled Boron Nitride Nanotube Based Nanoresonators. *Journal of Nanotechnology in Engineering and Medicine*, **2012**, 3,		9
97	Vibration signature analysis of a high speed rotor supported on ball bearings due to localized defects. *JVC/Journal of Vibration and Control*, **2013**, 19, 1833-1853	2	9
96	Analysis of Crack Propagation in Fixed-Free Single-Walled Carbon Nanotube Under Tensile Loading Using XFEM. *Journal of Nanotechnology in Engineering and Medicine*, **2010**, 1,		9
95	Rolling Bearing Vibrations The Effects of Surface Waviness and Radial Internal Clearance. *International Journal for Computational Methods in Engineering Science and Mechanics*, **2006**, 7, 91-111	0.7	9
94	Finite element analysis of an inflatable torus considering air mass structural element. *Advances in Space Research*, **2014**, 53, 163-173	2.4	8
93	Evaluation of the Mechanical Properties of CNT Based Composites Using Hexagonal RVE. *Journal of Nanotechnology in Engineering and Medicine*, **2010**, 1,		7

92	Non-linear vibration signature analysis of a high-speed rotating shaft due to ball size variations and varying number of balls. *Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics*, **2009**, 223, 83-105	0.9	7
91	Nonlinear Dynamic Response of High Speed Ball Bearings Due to Surface Waviness and Unbalanced Rotor. *International Journal of Nonlinear Sciences and Numerical Simulation*, **2006**, 7,	1.8	7
90	Vibration response analysis of sigmoidal functionally graded piezoelectric (FGP) porous plate under thermo-electric environment. *Mechanics Based Design of Structures and Machines*,1-31	1.7	7
89	Statistical and frequency analysis of vibrations signals of roller bearings using empirical mode decomposition. *Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics*, **2019**, 233, 856-870	0.9	6
88	Effects of posture and vibration magnitude on seat to head transmissibility during exposure to fore-and-aft vibration. *Journal of Low Frequency Noise Vibration and Active Control*, **2019**, 38, 826-838	1.5	6
87	Nonlinear Dynamic Analysis of Single-Walled Carbon Nanotube Based Mass Sensor. *Journal of Nanotechnology in Engineering and Medicine*, **2011**, 2,		6
86	Dynamic analysis of fixed-free single-walled carbon nanotube-based bio-sensors because of various viruses. *IET Nanobiotechnology*, **2012**, 6, 115-21	2	6
85	Influence of mono-axis random vibration on reading activity. *Industrial Health*, **2010**, 48, 675-81	2.5	6
84	Non-linear dynamic response analysis of cylindrical roller bearings due to rotational speed. *Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics*, **2019**, 233, 379-390	0.9	6
83	Response analysis of hybrid functionally graded material plate subjected to thermo-electro-mechanical loading. *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*, **2021**, 235, 813-827	1.3	6
82	Buckling Failure Analysis of Defective Carbon Nanotubes Using Molecular Dynamics Simulation. *Journal of Failure Analysis and Prevention*, **2020**, 20, 868-881	0.9	5
81	Effect of wear parameters on dry abrasive wear of RZ5-TiC in situ composite. *Industrial Lubrication and Tribology*, **2018**, 70, 256-263	1.3	5
80	Tribological failure analysis of gear contacts of Exciter Sieve gear boxes. *Engineering Failure Analysis*, **2014**, 36, 75-91	3.2	5
79	Biosensing application of multiwall boron nitride nanotube-based nanoresonator for detecting various viruses. *IET Nanobiotechnology*, **2015**, 9, 259-63	2	5
78	Static Analysis of Functionally Graded Plate Using Nonlinear Classical Plate Theory with Von-Karman Strains. *International Journal of Applied Mechanics and Engineering*, **2018**, 23, 707-726	0.6	5
77	Vibration Analysis of High Speed Rolling Element Bearings due to Race Defects. *IUTAM Symposium on Cellular, Molecular and Tissue Mechanics*, **2011**, 349-359	0.3	5
76	Thermal buckling of porous symmetric and non-symmetric sandwich plate with homogenous core and S-FGM face sheets resting on Pasternak foundation. *International Journal of Mechanics and Materials in Design*, **2020**, 16, 707-731	2.5	5
75	Performance evaluation of bearing degradation based on stationary wavelet decomposition and extra trees regression. *World Journal of Engineering*, **2018**, 15, 646-658	1.8	5

74	Effect of dynamic misalignment on the vibration response, trajectory followed and defect-depth achieved by the rolling-elements in a double-row spherical rolling-element bearing. *Mechanism and Machine Theory*, **2021**, 162, 104366	4	5
73	Effect of an unbalanced rotor on dynamic characteristics of double-row self-aligning ball bearing. *European Journal of Mechanics, A/Solids*, **2020**, 82, 104006	3.7	4
72	Effects of vibration magnitude and posture on seat-to-head-transmissibility responses of seated occupants exposed to lateral vibration. *International Journal of Vehicle Noise and Vibration*, **2016**, 12, 42	0.1	4
71	Characterizing the strength and elasticity deviation in defective CNT reinforced composites. *Composites Communications*, **2016**, 2, 9-14	6.7	4
70	Optimizations of RZ5-TiC magnesium matrix composite wear parameters using Taguchi approach. *Industrial Lubrication and Tribology*, **2018**, 70, 907-914	1.3	4
69	Studies of Mechanical Properties of Multiwall Nanotube Based Polymer Composites. *Journal of Nanotechnology in Engineering and Medicine*, **2014**, 5,		4
68	Quantitative evaluation of distortion in sketching under mono and dual axes whole body vibration. *Industrial Health*, **2011**, 49, 410-20	2.5	4
67	Effect of Magnitudes and Directions (Mono-Axis and Multi-Axis) of Whole Body-Vibration Exposures and Subjects Postures on the Sketching Performance. *Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit*, **2011**, 225, 71-83	1.4	4
66	Influence of Dispersion and Alignment of Nanotubes on the Strength and Elasticity of Carbon Nanotubes Reinforced Composites. *Journal of Nanotechnology in Engineering and Medicine*, **2011**, 2,		4
65	Energy optimal trajectory planning of an underwater robot using a genetic algorithm. *Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering*, **2012**, 226, 1077-1087	1	4
64	A mechanics and signal processing based approach for estimating the size of spall in rolling element bearing. *European Journal of Mechanics, A/Solids*, **2021**, 85, 104125	3.7	4
63	Exact solution for free vibration analysis of linearly varying thickness FGM plate using Galerkin-Vlasov method. *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*, **2021**, 235, 880-897	1.3	4
62	A parametric investigation on the microelastohydrodynamic lubrication of power law fluid lubricated line contact. *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*, **2015**, 229, 1187-1205	1.4	3
61	Modal analysis of prestressed draft pad of freight wagons using finite element method. *Journal of Modern Transportation*, **2015**, 23, 43-49	3.7	3
60	Modelling and analysis of mechanical behaviour of carbon nanotube reinforced composites. *Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems*, **2011**, 225, 23-32		3
59	Chaos and Nonlinear Dynamic Analysis of High-Speed Rolling Element Bearings due to Varying Number of Rolling Elements. *International Journal of Nonlinear Sciences and Numerical Simulation*, **2009**, 10,	1.8	3
58	Effect of Pinhole Defects on the Elasticity of Carbon Nanotube Based Nanocomposites. *Journal of Nanotechnology in Engineering and Medicine*, **2011**, 2,		3
57	Analysis of Fracture in Carbon Nanotube Based Composites Using Extended Finite Element Method. *Journal of Computational and Theoretical Nanoscience*, **2012**, 9, 872-878	0.3	3

56	Quasi-periodic, Subharmonic and Chaotic Motions of a Rotor Bearing System. *International Journal of Nonlinear Sciences and Numerical Simulation*, **2003**, 4,	1.8	3
55	Static and vibration response analysis of sigmoid function-based functionally graded piezoelectric non-uniform porous plate. *Journal of Intelligent Material Systems and Structures*,1045389X2210774	2.3	3
54	Dynamic Analysis of Low-Pressure Steam Turbine Last Stage Fir-Tree Root Blade. *Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems*, **2021**, 4,	0.9	3
53	Effects of Inter-Subject Variability and Vibration Magnitude on Vibration Transmission to Head during Exposure to Whole-Body Vertical Vibration. *International Journal of Acoustics and Vibrations*, **2011**, 16,		3
52	Vibration response analysis of PZT-4/PZT-5H based functionally graded tapered plate subjected to electro-mechanical loading. *Mechanics Research Communications*, **2021**, 116, 103765	2.2	3
51	Nonlinear vibration signature analysis of a rotor supported ball bearings. *International Journal of Nonlinear Dynamics and Control*, **2017**, 1, 1	0.2	2
50	Static Analysis of Functionally Graded Plate Using Nonlinear Classical Plate Theory with von Karman Strains: A Complex Solution Analysis. *Lecture Notes in Mechanical Engineering*, **2019**, 1-20	0.4	2
49	An analytical framework for rectangular FGM tapered plate resting on the elastic foundation. *Materials Today: Proceedings*, **2020**, 28, 1719-1726	1.4	2
48	Vibration Analysis of an Inflatable Torus Based on Mode Shape. *AIAA Journal*, **2013**, 51, 1526-1532	2.1	2
47	Biodynamic modelling of seated human body under whole body vibration exposure using ANN. *International Journal of Vehicle Noise and Vibration*, **2017**, 13, 187	0.1	2
46	Effect of vertical track irregularities on the dynamics of freight railway wagon. *International Journal of Vehicle Noise and Vibration*, **2015**, 11, 133	0.1	2
45	Effect of Shoulder Surface Dimension and Geometries on FSW of AA7039. *Journal for Manufacturing Science and Production*, **2014**, 14, 183-194		2
44	The Effect of Pinhole Defect on Dynamic Characteristics of Single Walled Carbon Nanotube Based Mass Sensors. *Journal of Computational and Theoretical Nanoscience*, **2011**, 8, 776-782	0.3	2
43	Fault Diagnosis of Ball Bearings Using Soft Computing **2009**,		2
42	Vibration Response-Based Fault Diagnosis of Cylindrical Roller Bearing Using Response Surface Methodology. *Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems*, **2020**, 3,	0.9	2
41	Prognostic Analysis of High-Speed Cylindrical Roller Bearing Using Weibull Distribution and k-Nearest Neighbor. *Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems*, **2022**, 5,	0.9	2
40	Finite Element Analysis of CNT Reinforced Epoxy Composite Due to Thermo-mechanical Loading. *Procedia Technology*, **2016**, 23, 138-143		2
39	Free Vibration Analysis of Sandwich Plate with Honeycomb Core and FGM Face Sheets. *Lecture Notes in Mechanical Engineering*, **2021**, 905-917	0.4	2

38	Fault diagnosis of rolling element bearing using autonomous harmonic product spectrum method. *Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics*, **2021**, 235, 396-411	0.9	2
37	Effect of Varying Wt% of TiC on Mechanical and Wear Properties of RZ5-TiC In-Situ Composite. *International Journal of Manufacturing, Materials, and Mechanical Engineering*, **2018**, 8, 45-56	0.5	2
36	Modeling of wear process parameters of in-situ RZ5-10wt%TiC Composite using artificial neural network. *Materials Today: Proceedings*, **2018**, 5, 24124-24132	1.4	2
35	Raceway defect analysis of rolling element bearing for detecting slip and correlating the force on rolling element with peak acceleration due to impact. *Measurement: Journal of the International Measurement Confederation*, **2021**, 179, 109394	4.6	2
34	Vibration Response of Fir Tree Root Blades with the Variation in Fixing Condition on Blade Root Interfaces. *Lecture Notes in Mechanical Engineering*, **2021**, 881-887	0.4	2
33	Combination of envelope spectra and generative topographic mapping to diagnose bearing fault and evaluate degradation of bearing. *Noise and Vibration Worldwide*, **2019**, 50, 143-156	0.8	1
32	Interference in writing performance under whole-body vibration exposure together with subject posture. *International Journal of Vehicle Noise and Vibration*, **2016**, 12, 182	0.1	1
31	Assessment of bearing degradation by using intrinsic mode functions and k-medoids clustering. *Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics*, **2018**, 146441931877674	0.9	1
30	Dynamic Analysis of Single Walled Boron Nitride Nanotube Reinforced Composite Based Nanomechanical Resonator. *Journal of the Institution of Engineers (India): Series D*, **2014**, 95, 7-18	0.9	1
29	Prognosis of degradation progress of ball bearings using supervised machine learning. *Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics*, **2017**, 146441931773104	0.9	1
28	Controlling Damping Force during Aircraft Arrestment Using Self-energized Valve Mechanism. *Procedia Technology*, **2014**, 14, 20-27		1
27	The Dynamic Behaviour of Chiral, Fixed-Free, Single-Walled Carbon Nanotube-Based Nanomechanical Mass Sensors Due to Atomic Vacancies. *Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems*, **2009**, 223, 45-56		1
26	WRINKLING DYNAMICS OF MEMBRANE BASED ON USER DEFINED WRINKLE PATTERN. *International Journal of Computational Materials Science and Engineering*, **2012**, 01, 1250034	0.3	1
25	Nonlinear vibration response analysis of a double-row self-aligning ball bearing due to surface imperfections. *Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics*, **2020**, 234, 514-535	0.9	1
24	Nonlinear Dynamic Behavior of Balanced Rotor Bearing System Due to Various Localized Defects. *Lecture Notes in Mechanical Engineering*, **2014**, 345-357	0.4	1
23	Influence of Various Defect Parameters on the Vibration Characteristics of a Single-Walled Carbon Nanotube. *Journal of Failure Analysis and Prevention*, **2020**, 20, 1229-1236	0.9	1
22	Abrasive wear analysis of RZ5/TiC in-situ composites: a statistical approach. *Industrial Lubrication and Tribology*, **2019**, 71, 1029-1037	1.3	1
21	Subjective discomfort analysis of human body in semi-supine posture caused by vertical sinusoidal vibration. *Ergonomics*, **2021**, 64, 744-754	2.9	1

20	Effect of Thickness Stretching on Sandwich Plate with FGM Core and Piezoelectric Face Sheets. *Lecture Notes in Mechanical Engineering*, **2021**, 1091-1101	0.4	1
19	Prognostics Analysis of Rolling Bearing Based on Bi-Directional LSTM and Attention Mechanism. *Journal of Failure Analysis and Prevention*, **2022**, 22, 704-723	0.9	1
18	Degradation Pattern of High Speed Roller Bearings Using a Data-Driven Deep Learning Approach. *Journal of Signal Processing Systems*,1	1.4	1
17	Static, Buckling and Vibration Response Analysis of Three-Layered Functionally Graded Piezoelectric Plate under Thermo-Electric Mechanical Environment. *Journal of Vibration Engineering and Technologies*,1	2	1
16	Static and vibration analysis of functionally graded gears. *Mechanics Based Design of Structures and Machines*,1-19	1.7	1
15	Vibration response analysis of high-speed cylindrical roller bearings using response surface method. *Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics*, **2020**, 234, 379-392	0.9	0
14	SINGLE WALLED-BORON NITRIDE NANOTUBES BASED NANORESONATOR FOR SENSING OF ACETONE MOLECULES. *Nano*, **2014**, 09, 1450086	1.1	0
13	Vibration signature analysis of high speed unbalanced rotating shaft supported on ball bearings. *International Journal of Design Engineering*, **2009**, 2, 191	0.5	0
12	Rolling bearing prognostic analysis for domain adaptation under different operating conditions. *Engineering Failure Analysis*, **2022**, 139, 106414	3.2	0
11	Nonlinear Dynamic Response Analysis of Cylindrical Roller Bearings Due to Unbalance. *Lecture Notes in Mechanical Engineering*, **2019**, 815-824	0.4	
10	Multiscale Modeling Approach for Estimation of Pinhole Defects in Polymer Nanocomposites. *Nano* , **2015**, 10, 1550030	1.1	
9	Low-Cycle Fatigue Life Prediction of LP Steam Turbine Blade for Various Blade–Rotor Fixity Conditions. *Journal of Failure Analysis and Prevention*, **2021**, 21, 2256	0.9	
8	Biodynamic Responses of Human Body in Standing and Seated Position. *Lecture Notes in Mechanical Engineering*, **2019**, 287-300	0.4	
7	Effects of photostrictive actuator and active control of flexible membrane structure. *Smart Structures and Systems*, **2014**, 14, 71-83		
6	Nonlinear Dynamic Analysis of High Speed Unbalanced Rotor Supported on Deep Groove Ball Bearings Considering the Preload Effect. *Lecture Notes in Mechanical Engineering*, **2014**, 481-490	0.4	
5	Effect of Geometrical Parameters and Hexa-Vacancy Defects on Vibration Characteristics of Bridged Carbon Nanotube. *Journal of Failure Analysis and Prevention*, **2020**, 20, 1875-1883	0.9	
4	Analytical model of rolling element bearing for studying its wear modelled as change in its clearance. *Materials Today: Proceedings*, **2021**, 46, 10741-10746	1.4	
3	Effect of Foundation on Free Vibration of Tapered Functionally Graded Material Plate. *Lecture Notes in Mechanical Engineering*, **2021**, 889-904	0.4	

2	Crack Detection in Rolling Element Bearings Using the Wavelet Transform. *Lecture Notes in Mechanical Engineering*, **2021**, 213-222	0.4
1	Vibration Response of Steam Turbine Healthy and Cracked Blade under the Stress Stiffening and Spin Softening Effects. *Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics*,146441932210786	0.9