

Jing Liu

List of Publications by Year in descending order

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74
papers

2,000
citations

236833

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h-index

254106

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76
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docs citations

76
times ranked

794
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic modeling for rigid rotor bearing systems with a localized defect considering additional deformations at the sharp edges. <i>Journal of Sound and Vibration</i> , 2017, 398, 84-102.	2.1	192
2	Vibration analysis of ball bearings with a localized defect applying piecewise response function. <i>Mechanism and Machine Theory</i> , 2012, 56, 156-169.	2.7	175
3	A dynamic modelling method of a rotor-roller bearing-housing system with a localized fault including the additional excitation zone. <i>Journal of Sound and Vibration</i> , 2020, 469, 115144.	2.1	137
4	A statistical feature investigation of the spalling propagation assessment for a ball bearing. <i>Mechanism and Machine Theory</i> , 2019, 131, 336-350.	2.7	120
5	Overview of dynamic modelling and analysis of rolling element bearings with localized and distributed faults. <i>Nonlinear Dynamics</i> , 2018, 93, 1765-1798.	2.7	112
6	An improved analytical model for a lubricated roller bearing including a localized defect with different edge shapes. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 3894-3907.	1.5	98
7	An analytical calculation method of the load distribution and stiffness of an angular contact ball bearing. <i>Mechanism and Machine Theory</i> , 2019, 142, 103597.	2.7	98
8	A New Model for the Relationship Between Vibration Characteristics Caused by the Time-Varying Contact Stiffness of a Deep Groove Ball Bearing and Defect Sizes. <i>Journal of Tribology</i> , 2015, 137, .	1.0	78
9	A new dynamic model for vibration analysis of a ball bearing due to a localized surface defect considering edge topographies. <i>Nonlinear Dynamics</i> , 2015, 79, 1329-1351.	2.7	58
10	A simulation investigation of lubricating characteristics for a cylindrical roller bearing of a high-power gearbox. <i>Tribology International</i> , 2022, 167, 107373.	3.0	54
11	An analytical model to predict vibrations of a cylindrical roller bearing with a localized surface defect. <i>Nonlinear Dynamics</i> , 2017, 89, 2085-2102.	2.7	52
12	Drive axle housing failure analysis of a mining dump truck based on the load spectrum. <i>Engineering Failure Analysis</i> , 2011, 18, 1049-1057.	1.8	49
13	An innovative dynamic model for vibration analysis of a flexible roller bearing. <i>Mechanism and Machine Theory</i> , 2019, 135, 27-39.	2.7	44
14	Dynamic modeling and simulation of a flexible-rotor ball bearing system. <i>JVC/Journal of Vibration and Control</i> , 2022, 28, 3495-3509.	1.5	44
15	A dynamic model of a cantilever beam with a closed, embedded horizontal crack including local flexibilities at crack tips. <i>Journal of Sound and Vibration</i> , 2016, 382, 274-290.	2.1	39
16	Vibration modelling of nonuniform surface waviness in a lubricated roller bearing. <i>JVC/Journal of Vibration and Control</i> , 2017, 23, 1115-1132.	1.5	38
17	A new method to model a localized surface defect in a cylindrical roller-bearing dynamic simulation. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2014, 228, 140-159.	1.0	36
18	A theoretical study on vibrations of a ball bearing caused by a dent on the races. <i>Engineering Failure Analysis</i> , 2018, 83, 220-229.	1.8	34

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19	An investigation for the friction torque of a needle roller bearing with the roundness error. <i>Mechanism and Machine Theory</i> , 2018, 121, 259-272.	2.7	34
20	Vibration analysis of a planetary gear with the flexible ring and planet bearing fault. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 165, 108100.	2.5	34
21	Vibration transmission and energy dissipation through the gear-shaft-bearing-housing system subjected to impulse force on gear. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 102, 64-79.	2.5	32
22	A time-varying friction moment calculation method of an angular contact ball bearing with the waviness error. <i>Mechanism and Machine Theory</i> , 2020, 148, 103799.	2.7	31
23	Dynamic simulation of a planet roller bearing considering the cage bridge crack. <i>Engineering Failure Analysis</i> , 2022, 131, 105849.	1.8	31
24	An analytical method for dynamic analysis of a ball bearing with offset and bias local defects in the outer race. <i>Journal of Sound and Vibration</i> , 2019, 461, 114919.	2.1	28
25	The effect of a localized fault in the planet bearing on vibrations of a planetary gear set. <i>Journal of Strain Analysis for Engineering Design</i> , 2018, 53, 313-323.	1.0	27
26	The effects of the shape of localized defect in ball bearings on the vibration waveform. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 2013, 227, 261-274.	0.5	26
27	A simulation analysis for lubricating characteristics of an oil-jet lubricated ball bearing. <i>Simulation Modelling Practice and Theory</i> , 2021, 113, 102371.	2.2	19
28	A comparative study of surface waviness models for predicting vibrations of a ball bearing. <i>Science China Technological Sciences</i> , 2017, 60, 1841-1852.	2.0	18
29	Vibration characteristics of a high-speed flexible angular contact ball bearing with the manufacturing error. <i>Mechanism and Machine Theory</i> , 2021, 162, 104335.	2.7	17
30	Unsaturated Polyester Resin Nanocomposites Containing ZnO Modified with Oleic Acid Activated by N,N'-Carbonyldiimidazole. <i>Polymers</i> , 2018, 10, 362.	2.0	15
31	Influence of support stiffness on vibrations of a planet gear system considering ring with flexible support. <i>Journal of Central South University</i> , 2020, 27, 2280-2290.	1.2	14
32	Impulse vibration transmissibility characteristics in the presence of localized surface defects in deep groove ball bearing systems. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 2014, 228, 62-81.	0.5	13
33	Vibration analysis of a single row angular contact ball bearing with the coupling errors including the surface roundness and waviness. <i>Science China Technological Sciences</i> , 2020, 63, 943-952.	2.0	13
34	The influence of the raceway thickness on the dynamic performances of a roller bearing. <i>Journal of Strain Analysis for Engineering Design</i> , 2017, 52, 528-536.	1.0	11
35	A numerical investigation of the plastic deformation at the spall edge for a roller bearing. <i>Engineering Failure Analysis</i> , 2017, 80, 263-271.	1.8	11
36	An investigation of a detection method for a subsurface crack in the outer race of a cylindrical roller bearing. <i>Eksploracja I Niezawodnosc</i> , 2017, 19, 211-219.	1.1	11

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37	An Analytical Dynamic Model of a Hollow Cylindrical Roller Bearing. <i>Journal of Tribology</i> , 2018, 140, .	1.0	10
38	Effect of the radial support stiffness of the ring gear on the vibrations for a planetary gear system. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2020, 39, 1024-1038.	1.3	10
39	Dynamic modelling of combination imperfections of a cylindrical roller bearing. <i>Engineering Failure Analysis</i> , 2022, 135, 106102.	1.8	10
40	Dynamic modelling of a rotor-bearing-housing system including a localized fault. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 2018, 232, 385-397.	0.5	9
41	Influence of the roller profile modification of planet bearing on the vibrations of a planetary gear system. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 180, 109612.	2.5	8
42	Vibration Modeling of Lubricated Rolling Element Bearing Considering Skidding in Loaded Zone. <i>Journal of Failure Analysis and Prevention</i> , 2014, 14, 809-817.	0.5	7
43	A theoretical study for the influence of the combined defect on radial vibrations of a ball bearing. <i>Industrial Lubrication and Tribology</i> , 2018, 70, 339-346.	0.6	7
44	A comprehensive comparative investigation of frictional force models for dynamics of rotor-bearing systems. <i>Journal of Central South University</i> , 2020, 27, 1770-1779.	1.2	7
45	Vibration analysis of a flexible gearbox system considering a local fault in the outer ring of the supported ball bearing. <i>JVC/Journal of Vibration and Control</i> , 2021, 27, 1063-1076.	1.5	7
46	Dynamic Analysis of an Autonomous Underwater Glider with Single- and Two-Stage Vibration Isolators. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 162.	1.2	7
47	Vibration analysis of the axle bearings considering the combined errors for a high-speed train. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 2020, 234, 481-497.	0.5	6
48	Vibration Characteristics of a Ball Bearing Considering Point Lubrication and Nonuniform Surface Waviness. , 2018, 23, 355-361.		6
49	Four-beam model for vibration analysis of a cantilever beam with an embedded horizontal crack. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2016, 29, 163-179.	1.9	5
50	Dynamic simulation for a tapered roller bearing considering a localized surface fault on the rib of the inner race. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 2017, 231, 670-683.	0.5	5
51	A multi-body dynamic study of vibration of a planetary gear train with the planetary bearing fault. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 2019, 233, 677-695.	0.5	5
52	Investigation for Vibrations of Tapered Roller Bearing Considering the Surface Waviness on the Rib of the Inner Race. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2018, 54, 26.	0.7	5
53	An Extended EEMD Method for Localized Faults Detection of a Planetary Gearbox. <i>Journal of Testing and Evaluation</i> , 2019, 47, 758-774.	0.4	5
54	The effect of light on the cellular stoichiometry of <i>Chlorella</i> sp. in different growth phases: implications of nutrient drawdown in batch experiments. <i>Journal of Applied Phycology</i> , 2017, 29, 123-131.	1.5	4

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55	Effect of the bearing clearance on vibrations of a double-row planetary gear system. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2020, 234, 347-357.	0.5	4
56	A numerical study of the contact and vibration characteristics of a roller bearing with a surface crack. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2020, 234, 549-563.	0.7	4
57	Dynamic Modeling on Localized Defect of Cylindrical Roller Bearing Based on Non-Hertz Line Contact Characteristics. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2014, 50, 91.	0.7	4
58	Vibration characteristics of a roller bearing with the waviness error. , 2019, , .		3
59	The Effect of Waviness Error on the Power Loss of the Planet Bearing. Journal of Failure Analysis and Prevention, 2020, 20, 1711-1718.	0.5	3
60	An optimization design method for a body mounting system of a heavy vehicle. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2019, 233, 1352-1362.	0.7	2
61	Influence of the local defect distribution on vibration characteristics of ball bearings. Eksploatacja I Niezawodnosc, 2019, 21, 485-492.	1.1	2
62	A vibration model of a rotor system with the sinusoidal waviness by using the non-Hertzian solution. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2022, 236, 151-167.	0.5	2
63	Dynamics of a planetary needle roller bearing considering the waviness. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2022, 236, 308-321.	0.5	2
64	Synthesis of patterns for monopulse antennas with steering invariant constant beamwidth by genetic algorithm. , 2016, , .		1
65	Fault Diagnosis for Centre Wear Fault of Roll Grinder Based on a Resonance Demodulation Scheme. Journal of Physics: Conference Series, 2017, 842, 012057.	0.3	1
66	Vibration Analysis of a Roller Bearing With a Bump Defect. , 2018, , .		1
67	A comparison investigation of the contact models for contact and vibration features of cylindrical roller bearings. Engineering Computations, 2019, 36, 1656-1675.	0.7	1
68	Effects of spall edge profiles on the edge plastic deformation for a roller bearing. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2019, 233, 850-861.	0.7	1
69	A lubricant flow distribution characteristic analysis of a wind power gearbox. Tribology International, 2021, 154, 106684.	3.0	1
70	An Intelligent Detection System Development for Local Faults in a Ball Bearing. , 2019, 24, 365-372.		1
71	A Numerical Study on Vibrations of a Roller Bearing With a Surface Crack in the Races. , 2017, , .		0
72	A stiffness optimization method for a shaft-bearing-pedestal system based on the dynamics. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2021, 235, 235-245.	0.5	0

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73	Influence of a local defect on the cage vibrations for a ball bearing. IOP Conference Series: Materials Science and Engineering, 2021, 1043, 042003.	0.3	0
74	A Method for Predicting the Influences of Bearing Support Stiffness and Position on the Vibrations of a Flexible Rotor System. , 2021, 26, 287-295.		0