

# Jing Liu

## List of Publications by Year in descending order

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74  
papers

2,000  
citations

236833

25  
h-index

254106

43  
g-index

76  
all docs

76  
docs citations

76  
times ranked

794  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic modeling and simulation of a flexible-rotor ball bearing system. JVC/Journal of Vibration and Control, 2022, 28, 3495-3509.	1.5	44
2	Dynamic simulation of a planet roller bearing considering the cage bridge crack. Engineering Failure Analysis, 2022, 131, 105849.	1.8	31
3	A simulation investigation of lubricating characteristics for a cylindrical roller bearing of a high-power gearbox. Tribology International, 2022, 167, 107373.	3.0	54
4	Dynamic Analysis of an Autonomous Underwater Glider with Single- and Two-Stage Vibration Isolators. Journal of Marine Science and Engineering, 2022, 10, 162.	1.2	7
5	Dynamic modelling of combination imperfections of a cylindrical roller bearing. Engineering Failure Analysis, 2022, 135, 106102.	1.8	10
6	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
7	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
8	Vibration analysis of a flexible gearbox system considering a local fault in the outer ring of the supported ball bearing. JVC/Journal of Vibration and Control, 2021, 27, 1063-1076.	1.5	7
9	A lubricant flow distribution characteristic analysis of a wind power gearbox. Tribology International, 2021, 154, 106684.	3.0	1
10	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
11	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
12	Vibration characteristics of a high-speed flexible angular contact ball bearing with the manufacturing error. Mechanism and Machine Theory, 2021, 162, 104335.	2.7	17
13	Influence of the roller profile modification of planet bearing on the vibrations of a planetary gear system. Measurement: Journal of the International Measurement Confederation, 2021, 180, 109612.	2.5	8
14	A simulation analysis for lubricating characteristics of an oil-jet lubricated ball bearing. Simulation Modelling Practice and Theory, 2021, 113, 102371.	2.2	19
15	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
16	Effect of the radial support stiffness of the ring gear on the vibrations for a planetary gear system. Journal of Low Frequency Noise Vibration and Active Control, 2020, 39, 1024-1038.	1.3	10
17	A dynamic modelling method of a rotor-roller bearing-housing system with a localized fault including the additional excitation zone. Journal of Sound and Vibration, 2020, 469, 115144.	2.1	137
18	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

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19	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
20	The Effect of Waviness Error on the Power Loss of the Planet Bearing. <i>Journal of Failure Analysis and Prevention</i> , 2020, 20, 1711-1718.	0.5	3
21	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
22	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
23	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
24	A numerical study of the contact and vibration characteristics of a roller bearing with a surface crack. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2020, 234, 549-563.	0.7	4
25	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
26	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
27	A comparison investigation of the contact models for contact and vibration features of cylindrical roller bearings. <i>Engineering Computations</i> , 2019, 36, 1656-1675.	0.7	1
28	Vibration characteristics of a roller bearing with the waviness error. , 2019, , .		3
29	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
30	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
31	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
32	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
33	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
34	An optimization design method for a body mounting system of a heavy vehicle. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2019, 233, 1352-1362.	0.7	2
35	Effects of spall edge profiles on the edge plastic deformation for a roller bearing. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2019, 233, 850-861.	0.7	1
36	Influence of the local defect distribution on vibration characteristics of ball bearings. <i>Eksplotacja I Niezawodnosc</i> , 2019, 21, 485-492.	1.1	2

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37	An Extended EEMD Method for Localized Faults Detection of a Planetary Gearbox. Journal of Testing and Evaluation, 2019, 47, 758-774.	0.4	5
38	An Intelligent Detection System Development for Local Faults in a Ball Bearing. , 2019, 24, 365-372.		1
39	The effect of a localized fault in the planet bearing on vibrations of a planetary gear set. Journal of Strain Analysis for Engineering Design, 2018, 53, 313-323.	1.0	27
40	A theoretical study for the influence of the combined defect on radial vibrations of a ball bearing. Industrial Lubrication and Tribology, 2018, 70, 339-346.	0.6	7
41	An improved analytical model for a lubricated roller bearing including a localized defect with different edge shapes. JVC/Journal of Vibration and Control, 2018, 24, 3894-3907.	1.5	98
42	Dynamic modelling of a rotor-bearing-housing system including a localized fault. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2018, 232, 385-397.	0.5	9
43	A theoretical study on vibrations of a ball bearing caused by a dent on the races. Engineering Failure Analysis, 2018, 83, 220-229.	1.8	34
44	An investigation for the friction torque of a needle roller bearing with the roundness error. Mechanism and Machine Theory, 2018, 121, 259-272.	2.7	34
45	Vibration Analysis of a Roller Bearing With a Bump Defect. , 2018, , .		1
46	An Analytical Dynamic Model of a Hollow Cylindrical Roller Bearing. Journal of Tribology, 2018, 140, .	1.0	10
47	Unsaturated Polyester Resin Nanocomposites Containing ZnO Modified with Oleic Acid Activated by N,Nâ€²-Carbonyldiimidazole. Polymers, 2018, 10, 362.	2.0	15
48	Overview of dynamic modelling and analysis of rolling element bearings with localized and distributed faults. Nonlinear Dynamics, 2018, 93, 1765-1798.	2.7	112
49	Investigation for Vibrations of Tapered Roller Bearing Considering the Surface Waviness on the Rib of the Inner Race. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2018, 54, 26.	0.7	5
50	Vibration Characteristics of a Ball Bearing Considering Point Lubrication and Nonuniform Surface Waviness. , 2018, 23, 355-361.		6
51	Vibration modelling of nonuniform surface waviness in a lubricated roller bearing. JVC/Journal of Vibration and Control, 2017, 23, 1115-1132.	1.5	38
52	Vibration transmission and energy dissipation through the gear-shaft-bearing-housing system subjected to impulse force on gear. Measurement: Journal of the International Measurement Confederation, 2017, 102, 64-79.	2.5	32
53	Dynamic simulation for a tapered roller bearing considering a localized surface fault on the rib of the inner race. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2017, 231, 670-683.	0.5	5
54	An analytical model to predict vibrations of a cylindrical roller bearing with a localized surface defect. Nonlinear Dynamics, 2017, 89, 2085-2102.	2.7	52

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55	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
56	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
57	A Numerical Study on Vibrations of a Roller Bearing With a Surface Crack in the Races. , 2017, , .		0
58	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
59	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
60	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
61	Fault Diagnosis for Centre Wear Fault of Roll Grinder Based on a Resonance Demodulation Scheme. <i>Journal of Physics: Conference Series</i> , 2017, 842, 012057.	0.3	1
62	An investigation of a detection method for a subsurface crack in the outer race of a cylindrical roller bearing. <i>Eksplotacja I Niezawodnosc</i> , 2017, 19, 211-219.	1.1	11
63	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
64	Synthesis of patterns for monopulse antennas with steering invariant constant beamwidth by genetic algorithm. , 2016, , .		1
65	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
66	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
67	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
68	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
69	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
70	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
71	Dynamic Modeling on Localized Defect of Cylindrical Roller Bearing Based on Non-Hertz Line Contact Characteristics. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2014, 50, 91.	0.7	4
72	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

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73	Vibration analysis of ball bearings with a localized defect applying piecewise response function. Mechanism and Machine Theory, 2012, 56, 156-169.	2.7	175
74	Drive axle housing failure analysis of a mining dump truck based on the load spectrum. Engineering Failure Analysis, 2011, 18, 1049-1057.	1.8	49