

Xiaopeng Li

List of Publications by Year in descending order

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49
papers

505
citations

759233

12
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50
all docs

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docs citations

50
times ranked

177
citing authors

#	ARTICLE	IF	CITATIONS
1	A normal contact stiffness fractal prediction model of dry-friction rough surface and experimental verification. <i>European Journal of Mechanics, A/Solids</i> , 2017, 66, 94-102.	3.7	77
2	Nonlinear response analysis of gear-shaft-bearing system considering tooth contact temperature and random excitations. <i>Applied Mathematical Modelling</i> , 2019, 68, 113-136.	4.2	54
3	Dynamic modeling and fuzzy compensation sliding mode control for flexible manipulator servo system. <i>Applied Mathematical Modelling</i> , 2022, 107, 530-556.	4.2	35
4	Resonant Suppression Method Based on PI control for Serial Manipulator Servo Drive System. <i>Science Progress</i> , 2020, 103, 36850420950130.	1.9	24
5	Control Method of Flexible Manipulator Servo System Based on a Combination of RBF Neural Network and Pole Placement Strategy. <i>Mathematics</i> , 2021, 9, 896.	2.2	22
6	A loading fractal prediction model developed for dry-friction rough joint surfaces considering elastic-plastic contact. <i>Acta Mechanica</i> , 2018, 229, 2149-2162.	2.1	21
7	Dynamic modeling and control for dual-flexible servo system considering two-dimensional deformation based on neural network compensation. <i>Mechanism and Machine Theory</i> , 2022, 175, 104954.	4.5	21
8	Influence of contact stiffness of joint surfaces on oscillation system based on the fractal theory. <i>Archive of Applied Mechanics</i> , 2018, 88, 525-541.	2.2	20
9	Fractal Prediction Model for Tangential Contact Damping of Joint Surface Considering Friction Factors and Its Simulation. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2012, 48, 46.	0.5	18
10	A variable positive-negative stiffness joint with low frequency vibration isolation performance. Measurement: <i>Journal of the International Measurement Confederation</i> , 2021, 185, 110046.	5.0	15
11	Vibration Suppression Method Based on PI Fuzzy Controller Containing Disturbance Observe for Dual-flexible Manipulator with an Axially Translating Arm. <i>International Journal of Control, Automation and Systems</i> , 2022, 20, 1682-1694.	2.7	15
12	Speed control method for dual-flexible manipulator with a telescopic arm considering bearing friction based on adaptive PI controller with DOB. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 4741-4756.	6.4	14
13	Dynamic characteristics analysis of planetary gear system with internal and external excitation under turbulent wind load. <i>Science Progress</i> , 2021, 104, 003685042110356.	1.9	12
14	Three-dimensional fractal model of normal contact damping of dry-friction rough surface. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401769269.	1.6	11
15	Dynamic performance analysis of the variable stiffness actuator considering gap and friction characteristics based on two-inertia-system. <i>Mechanism and Machine Theory</i> , 2022, 168, 104584.	4.5	11
16	The fractal leakage model of contact mechanical seals considering wear and thermal deformation. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	1.6	10
17	Contact mechanics of elastic-plastic fractal surfaces and static friction analysis of asperity scale. <i>Engineering Computations</i> , 2021, 38, 131-150.	1.4	8
18	Dynamic Characteristics Analysis of ISD Suspension System under Different Working Conditions. <i>Mathematics</i> , 2021, 9, 1345.	2.2	8

#	ARTICLE	IF	CITATIONS
19	Influence of Fractal Backlash on Dynamic Behavior of Gear-bearing System. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2018, 54, 153.	0.5	8
20	Dynamic Modeling and Vibration Characteristics Analysis of Deep-Groove Ball Bearing, Considering Sliding Effect. Mathematics, 2021, 9, 2408.	2.2	7
21	The Influence of Tooth Surface Wear on Dynamic Characteristics of Gear-Bearing System Based on Fractal Theory. Journal of Computational and Nonlinear Dynamics, 2020, 15, .	1.2	7
22	Theoretical and Experimental Investigation on the 3D Surface Roughness of Material Extrusion Additive Manufacturing Products. Polymers, 2022, 14, 293.	4.5	6
23	The climbing performance analysis of a robot for power line inspection with retractable double serial manipulators. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , 095440622110549.	2.1	6
24	Speed control strategy of dual flexible servo system considering time-varying parameters for flexible manipulator with an axially translating arm. Asian Journal of Control, 2023, 25, 961-975.	3.0	6
25	Analytical investigation on dynamic characteristics of cylindrical roller bearing-pedestal system under different working conditions. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, .	1.6	6
26	Fractal Prediction Model for Normal Contact Damping of Joint Surfaces considering Friction Factors and Its Simulation. Advances in Mechanical Engineering, 2014, 6, 378518.	1.6	5
27	Analysis of thermoelastic damping in bilayered rectangular microplate resonators with three-dimensional heat conduction. Journal of Mechanical Science and Technology, 2019, 33, 1769-1784.	1.5	5
28	Identification of mechanical parameters of fiber-reinforced composites by frequency response function approximation method. Science Progress, 2020, 103, 003685041987803.	1.9	5
29	Analysis of Contact Mechanical Characteristics of Flexible Parts in Harmonic Gear Reducer. Shock and Vibration, 2021, 2021, 1-17.	0.6	5
30	Power Transmission Line Inspection Robot Inverse Kinematics Modeling and Evaluation of Dexterity. , 2020, , .		4
31	Nonlinear behavior of disk spring with complex contact state. Science Progress, 2021, 104, 003685042110523.	1.9	4
32	Dynamic modeling and damping performance improvement of two stage ISD suspension system. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2022, 236, 2259-2271.	1.9	4
33	A new low-energy nonlinear variable stiffness actuator for the knee joint. Mechanics Based Design of Structures and Machines, 2023, 51, 6041-6055.	4.7	4
34	Evaluation of Estimation Models for Multiaxial Fatigue Life. Steel Research International, 2013, 84, 1325-1332.	1.8	3
35	The finite element analysis of elastic-plastic contact of single asperity with different materials. , 2021, , .		3
36	Control Method for Flexible Joints in Manipulator Based on BP Neural Network Tuning PI Controller. Mathematics, 2021, 9, 3146.	2.2	3

#	ARTICLE	IF	CITATIONS
37	Modeling and Fatigue Characteristic Analysis of the Gear Flexspline of a Harmonic Reducer. Mathematics, 2022, 10, 868.	2.2	3
38	Dynamic analysis on and optimized design of the BED structure of CNC machine. , 2011, , .		2
39	Theory and experimental research on static stiffness of linear rolling guide. , 2012, , .		2
40	Study of thermoelastic damping in fully clamped bilayered rectangular microplate resonators based on three-dimensional heat conduction. Transactions of the Canadian Society for Mechanical Engineering, 2020, 44, 10-22.	0.8	2
41	Static behavior analysis of disc spring considering variable static friction coefficient. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , 095440622098555.	2.1	2
42	Dynamic Characteristics Analysis of Gear-Bearing System Considering Dynamic Wear with Flash Temperature. Mathematics, 2021, 9, 2739.	2.2	2
43	Review of the research method on dynamic characteristics of machine joint surfaces. , 2012, , .		1
44	Dynamic characteristics of cylindersâ€™ joint surfaces considering friction and elasticâ€™plastic deformation based on fractal theory. Australian Journal of Mechanical Engineering, 2017, 15, 11-18.	2.1	1
45	Dynamic Modeling and Control of Inspection Robot Joint Drive System. , 2020, , .		1
46	Analysis of thermoelastic damping in trilayered composite microplates based on three-dimensional heat conduction. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	1.6	1
47	Control software design of positron emission tomography based on real-time Linux. , 2008, , .		0
48	Study on Generalized Evaluation of Product Quality Based on Integrated Neural Networks. , 2011, , .		0
49	Research on Vibration Suppression of Joint Servo System for Power Line Inspection Robot Based on Fuzzy Adaptive Control Strategy. , 2020, , .		0