

Cheng-Chi Wang

List of Publications by Year in descending order

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92
papers

1,086
citations

394421

19
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454955

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95
all docs

95
docs citations

95
times ranked

624
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of Micro-Machining Process for External Thread of Micro Round Tube. <i>Materials</i> , 2021, 14, 4327.	2.9	1
2	Identification and Machine Learning Prediction of Nonlinear Behavior in a Robotic Arm System. <i>Symmetry</i> , 2021, 13, 1445.	2.2	2
3	The Deep Drawing of a Flanged Square Hole in Thin Stainless Steel Sheet. <i>Metals</i> , 2021, 11, 1436.	2.3	3
4	Research on the nonlinear dynamic characteristics of opposed high-speed gas bearing systems. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2020, 39, 502-522.	2.9	4
5	Diagnosis of ball-bearing faults using support vector machine based on the artificial fish-swarm algorithm. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2020, 39, 954-967.	2.9	16
6	Bifurcation and Nonlinear Behavior Analysis of Dual-Directional Coupled Aerodynamic Bearing Systems. <i>Symmetry</i> , 2020, 12, 1521.	2.2	4
7	A High-Precision Random Forest-Based Maximum Lyapunov Exponent Prediction Model for Spherical Porous Gas Bearing Systems. <i>IEEE Access</i> , 2020, 8, 168079-168086.	4.2	2
8	Multi-hybrid Active Magnetic Bearing Design for Milling Spindle Applications. <i>Sensors and Materials</i> , 2020, 32, 375.	0.5	5
9	Optimization Analysis of Vibration for Grinder Spindle. <i>Sensors and Materials</i> , 2020, 32, 407.	0.5	1
10	Acoustic Signal Analysis by Teagerâ€™Huang Transform for Milling Chatter Recognition. <i>Sensors and Materials</i> , 2020, 32, 873.	0.5	2
11	Design and Development of Condition Monitoring System for Wind Turbines Based on Generator Output Voltages. <i>Sensors and Materials</i> , 2020, 32, 895.	0.5	0
12	Optimization of Lathe Cutting Parameters Using Taguchi Method and Grey Relational Analysis. <i>Sensors and Materials</i> , 2020, 32, 843.	0.5	1
13	Predicting spindle displacement caused by heat using the general regression neural network. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 104, 4665-4674.	3.0	8
14	Machine Tool Chatter Identification Based on Dynamic Errors of Different Self-Synchronized Chaotic Systems of Various Fractional Orders. <i>IEEE Access</i> , 2019, 7, 67278-67286.	4.2	15
15	Nonlinear behavior analysis and control of the atomic force microscope and circuit implementation. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2019, 38, 1576-1593.	2.9	4
16	A Study on the Application of Synchronized Chaotic Systems of Different Fractional Orders for Cutting Tool Wear Diagnosis and Identification. <i>IEEE Access</i> , 2019, 7, 15903-15911.	4.2	15
17	EFFECTS OF DIFFERENT LATERAL FEMORAL WALL THICKNESSES IN INTERTROCHANTERIC HIP FRACTURE TREATED WITH DYNAMIC HIP SCREW. <i>Journal of Mechanics in Medicine and Biology</i> , 2019, 19, 1940022.	0.7	1
18	Nonlinear analysis and simulation of active hybrid aerodynamic and aerostatic bearing system. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2019, 38, 1404-1421.	2.9	5

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19	Review of Computational Schemes in Inverse Heat Conduction Problems. Smart Science, 2018, 6, 94-103.	3.2	19
20	A Modified Polynomial Expansion Algorithm for Solving the Steady-State Allen-Cahn Equation for Heat Transfer in Thin Films. Applied Sciences (Switzerland), 2018, 8, 983.	2.5	6
21	Investigation of Milling Stability under Cutting Fluid Supply by Microphone Signal Analysis. Sensors and Materials, 2018, 30, 2419.	0.5	4
22	Analysis of Pull-in Characteristics of Double-clamped Nanobeam Incorporating Casimir and van der Waals Effects. Sensors and Materials, 2018, 30, 2627.	0.5	2
23	Control circuit design and chaos analysis in an ultrasonic machining system. Engineering Computations, 2017, 34, 2189-2211.	1.4	2
24	Non-periodic and chaotic response of three-multilobe air bearing system. Applied Mathematical Modelling, 2017, 47, 859-871.	4.2	9
25	Nonlinear dynamic analysis of bi-directional porous aero-thrust bearing systems. Advances in Mechanical Engineering, 2017, 9, 168781401773815.	1.6	6
26	Chaotic control and circuit implementation of the Atomic Force Microscope system. , 2017, , .		0
27	Chaotic Behaviour Investigation of a Front Opposed-Hemispherical Spiral-Grooved Air Bearing System. Shock and Vibration, 2017, 2017, 1-18.	0.6	0
28	PERFORMANCE ANALYSIS AND IMPROVEMENT DESIGN OF GOLF CLUBS. Transactions of the Canadian Society for Mechanical Engineering, 2016, 40, 667-675.	0.8	1
29	Real-Time Compensation for Thermal Errors of the Milling Machine. Applied Sciences (Switzerland), 2016, 6, 101.	2.5	24
30	Influence of bearing number on high speed air rotor bearing systems. , 2016, , .		0
31	Particle swarm optimization used with proportional-derivative control to analyze nonlinear behavior in the atomic force microscope. Advances in Mechanical Engineering, 2016, 8, 168781401666727.	1.6	5
32	Optimization design and application of composite ultrasonic extraction method for effective constituents of green tea. Advances in Mechanical Engineering, 2016, 8, 168781401562484.	1.6	0
33	Numerical computation and nonlinear dynamic analysis of ultrasonic cutting system. Computers and Electrical Engineering, 2016, 51, 270-283.	4.8	2
34	Theoretical and bifurcation analysis of a flexible rotor supported by gas-lubricated bearing system with porous bushing. Journal of Vibroengineering, 2016, 18, 1934-1940.	1.0	9
35	Fractional order Sprott chaos synchronisation-based real-time extension power quality detection method. IET Generation, Transmission and Distribution, 2015, 9, 2775-2781.	2.5	12
36	Chaotic and dynamic analysis of a flexible rotor supported by ultra short aero-lubricated bearing system. Journal of Applied Research and Technology, 2015, 13, 328-341.	0.9	4

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37	Effect of coffee reduction on constituent concentration in an energy-efficient process of ultrasonic extraction. <i>Thermal Science</i> , 2015, 19, 1373-1377.	1.1	1
38	Bifurcation and Nonlinear Dynamic Analysis of Externally Pressurized Double Air Films Bearing System. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-12.	1.1	1
39	Numerical investigation into nonlinear dynamic behavior of electrically-actuated clamped-clamped micro-beam with squeeze-film damping effect. <i>Applied Mathematical Modelling</i> , 2014, 38, 3269-3280.	4.2	15
40	Bifurcation and Chaotic Analysis of Aeroelastic Systems. <i>Journal of Computational and Nonlinear Dynamics</i> , 2014, 9, .	1.2	11
41	Flow and Stress Field Analysis of Different Fluids and Blades for Fermentation Process. <i>Advances in Mechanical Engineering</i> , 2014, 6, 623781.	1.6	0
42	Bifurcation and nonlinear dynamic analysis of noncircular aerodynamic journal bearing system. <i>Nonlinear Dynamics</i> , 2013, 72, 477-489.	5.2	15
43	Bifurcation and chaos analysis of atomic force microscope system. <i>Microsystem Technologies</i> , 2013, 19, 1795-1805.	2.0	6
44	Chaotic and Subharmonic Motion Analysis of Floating Ring Gas Bearing System by Hybrid Numerical Method. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-14.	1.1	3
45	Chaos Analysis and Synchronization Control of Coronary Artery Systems. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-11.	0.7	5
46	Application of hybrid microwave thermal extraction techniques for mulberry root bark. <i>Thermal Science</i> , 2013, 17, 1311-1315.	1.1	1
47	Analysis of Supercritical Carbon Dioxide Extraction for the Caffeine and Epigallocatechin-3-Gallate in Green Tea. <i>Journal of Biobased Materials and Bioenergy</i> , 2013, 7, 208-212.	0.3	1
48	Bifurcation Analysis of Bearing Number in Ultra Short Gas Bearing System. <i>Smart Science</i> , 2013, 1, 18-24.	3.2	6
49	Nonlinear Behavior of Thermal Lagging in Laser-Irradiated Layered Tissue. <i>Advances in Mechanical Engineering</i> , 2013, 5, 732575.	1.6	3
50	Bifurcation Analysis of Trailing Edge Angle for Aeroelastic System. , 2012, , .		1
51	Bifurcation and nonlinear dynamic analysis of united gas-lubricated bearing system. <i>Computers and Mathematics With Applications</i> , 2012, 64, 729-738.	2.7	18
52	Bifurcation and nonlinear dynamic analysis of heart blood vessel system. , 2012, , .		1
53	Nonlinear dynamic analysis and sliding mode control for gyroscope system. <i>Nonlinear Dynamics</i> , 2011, 66, 53-65.	5.2	44
54	Application of the differential transformation method to bifurcation and chaotic analysis of an AFM probe tip. <i>Computers and Mathematics With Applications</i> , 2011, 61, 1957-1962.	2.7	12

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55	Nonlinear analysis and control of the uncertain micro-electro-mechanical system by using a fuzzy sliding mode control design. Computers and Mathematics With Applications, 2011, 61, 1912-1916.	2.7	55
56	Application of hybrid method to the influence of bearing number on elliptic gas bearing system. , 2011, , .		0
57	Application of ultrasound thermal process on extracting flavor and caffeine of coffee. Thermal Science, 2011, 15, 69-74.	1.1	5
58	A numerical investigation into electroosmotic flow in microchannels with complex wavy surfaces. Thermal Science, 2011, 15, 87-94.	1.1	20
59	Application of lattice Boltzmann method and field synergy principle to the heat transfer analysis of channel flow with obstacles inside. Thermal Science, 2011, 15, 75-80.	1.1	1
60	Bifurcation Analysis of High Speed Spindle Air Bearings. JVC/Journal of Vibration and Control, 2011, 17, 103-114.	2.6	10
61	A novel optimized energy-saving extraction process on coffee. Thermal Science, 2011, 15, 53-59.	1.1	4
62	The heat and fluid flow analysis for water heater. Thermal Science, 2011, 15, 81-86.	1.1	1
63	Theoretical analysis of high speed spindle air bearings by a hybrid numerical method. Applied Mathematics and Computation, 2010, 217, 2084-2096.	2.2	25
64	Chaos control in AFM system using sliding mode control by backstepping design. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 741-751.	3.3	49
65	Bifurcation and nonlinear analysis of a flexible rotor supported by a relative short spherical gas bearing system. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 2659-2671.	3.3	16
66	Bifurcation analysis of a microcantilever in AFM system. Journal of the Franklin Institute, 2010, 347, 1353-1367.	3.4	7
67	Nonlinear dynamic analysis of a relatively short spherical gas journal bearing system. Journal of Mechanical Science and Technology, 2010, 24, 1565-1571.	1.5	3
68	Application of a hybrid numerical method to the nonlinear dynamic analysis of a micro gas bearing system. Nonlinear Dynamics, 2010, 59, 695-710.	5.2	22
69	Chaotic analysis of gyroscope control system via differential transformation method. , 2009, , .		0
70	Application of a hybrid method to the nonlinear dynamic analysis of a flexible rotor supported by a spherical gas-lubricated bearing system. Nonlinear Analysis: Theory, Methods & Applications, 2009, 70, 2035-2053.	1.1	46
71	A high-precision measurement technique for evaluating alcohol concentrations using an optical metrology system based on a position sensing detector. Optics and Lasers in Engineering, 2009, 47, 599-603.	3.8	12
72	Nonlinear Dynamic Analysis of Earthquake Model. , 2009, , .		0

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73	Influence of the bearing number on micro gas bearing system. , 2009, , .		0
74	Bifurcation and Chaos Analysis of a Relative Short Spherical Air Bearing System via a Novel Hybrid Method. , 2009, , .		0
75	Application of a hybrid numerical method to the bifurcation analysis of a rigid rotor supported by a spherical gas journal bearing system. <i>Nonlinear Dynamics</i> , 2008, 51, 515-528.	5.2	33
76	Analysis of nonlinear dynamic behavior of atomic force microscope using differential transformation method. <i>Acta Mechanica</i> , 2008, 198, 87-98.	2.1	9
77	Theoretical and nonlinear behavior analysis of a flexible rotor supported by a relative short herringbone-grooved gas journal-bearing system. <i>Physica D: Nonlinear Phenomena</i> , 2008, 237, 2282-2295.	2.8	36
78	Application of Hybrid Method to the Quasi-Periodic Analysis of Micro Gas Journal Bearing System. , 2008, , .		1
79	Theoretical analysis of the non-linear behavior of a flexible rotor supported by herringbone grooved gas journal bearings. <i>Tribology International</i> , 2007, 40, 533-541.	5.9	36
80	Bifurcation analysis of an aerodynamic journal bearing system considering the effect of stationary herringbone grooves. <i>Chaos, Solitons and Fractals</i> , 2007, 33, 1532-1545.	5.1	20
81	Using finite difference and differential transformation method to analyze of large deflections of orthotropic rectangular plate problem. <i>Applied Mathematics and Computation</i> , 2007, 190, 1146-1156.	2.2	26
82	An enhanced common path interference optic measurement system for refractive indices and thickness. <i>Optics and Laser Technology</i> , 2007, 39, 500-506.	4.6	2
83	Bifurcation and nonlinear dynamic analysis of a flexible rotor supported by relative short gas journal bearings. <i>Chaos, Solitons and Fractals</i> , 2007, 32, 566-582.	5.1	38
84	Analyzing the free vibrations of a plate using finite difference and differential transformation method. <i>Applied Mathematics and Computation</i> , 2006, 178, 493-501.	2.2	31
85	Nonlinear dynamic behavior and bifurcation analysis of a rigid rotor supported by a relatively short externally pressurized porous gas journal bearing system. <i>Acta Mechanica</i> , 2006, 183, 41-60.	2.1	31
86	Analysis of an aerodynamic grooved journal bearing with plain sleeve. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2006, 220, 51-60.	2.1	1
87	Performance analysis of high-speed spindle aerostatic bearings. <i>Tribology International</i> , 2005, 38, 5-14.	5.9	97
88	Nonlinear dynamic and bifurcation analysis of short aerodynamic journal bearings. <i>Tribology International</i> , 2005, 38, 740-748.	5.9	20
89	Non-linear dynamic analysis of a flexible rotor supported by self-acting gas journal bearings. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2004, 218, 1527-1538.	2.1	8
90	Bifurcation analysis of externally pressurized porous gas journal bearings. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2003, 217, 1325-1338.	2.1	2

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91	Nonlinear Dynamic Analysis of a Flexible Rotor Supported by Externally Pressurized Porous Gas Journal Bearings. Journal of Tribology, 2002, 124, 553-561.	1.9	22
92	Bifurcation Analysis of Self-Acting Gas Journal Bearings. Journal of Tribology, 2001, 123, 755-767.	1.9	58