

Liming Dai

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

533
citations

687363

13
h-index

677142

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57
docs citations

57
times ranked

521
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear dynamic responses of porous FG sandwich cylindrical shells with a viscoelastic core resting on a nonlinear viscoelastic foundation. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 3184-3203.	2.6	7
2	Improved Design and Dynamics Characteristics Research of a Composite Percussion Drilling Tool. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2022, 144, .	2.3	5
3	Three-dimensional nonlinear vibration model and fatigue failure mechanism of deepwater test pipe. <i>Nonlinear Dynamics</i> , 2022, 108, 1101-1132.	5.2	1
4	Planning regional-scale water-energy-food nexus system management under uncertainty: An inexact fractional programming method. <i>Journal of Contaminant Hydrology</i> , 2022, 247, 103985.	3.3	6
5	Study on the mechanism of drilling speed increase considering the axial vibration of drill string. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1.	1.6	8
6	Improved Multi-section Variable-Speed Drilling Tool Design for Oil and Gas Industry. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 6903-6913.	3.0	1
7	Dynamics and anti-friction characteristics study of horizontal drill string based on new anti-friction tool. <i>International Journal of Green Energy</i> , 2021, 18, 720-730.	3.8	9
8	Vibration characteristics of marine riser groups considering the coupled action of cross-flow and in-line. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	1.3	2
9	A Field Measurement Based Wind Characteristics Analysis of a Typhoon in Near-Ground Boundary Layer. <i>Atmosphere</i> , 2021, 12, 873.	2.3	7
10	Chaotic Analysis and Prediction of Wind Speed Based on Wavelet Decomposition. <i>Processes</i> , 2021, 9, 1793.	2.8	4
11	VIV Fracture Investigation into 3D Marine Riser with a Circumferential Outside Surface Crack. <i>Shock and Vibration</i> , 2021, 2021, 1-13.	0.6	0
12	The multidirectional vibration and coupling dynamics of drill string and its influence on the wellbore trajectory. <i>Journal of Mechanical Science and Technology</i> , 2020, 34, 2681-2692.	1.5	8
13	Numerical calculation for coupling vibration system by Piecewise-Laplace method. <i>Science Progress</i> , 2020, 103, 36850420938555.	1.9	1
14	Working mechanism and experimental study of dual-diameter and bi-speed composite drilling tool. <i>International Journal of Green Energy</i> , 2020, 17, 363-372.	3.8	4
15	Research and experimental analysis of drill string dynamics characteristics and stick-slip reduction mechanism. <i>Journal of Mechanical Science and Technology</i> , 2020, 34, 977-986.	1.5	15
16	Regular and Irregular Vegetation Pattern Formation in Semiarid Regions: A Study on Discrete Klausmeier Model. <i>Complexity</i> , 2020, 2020, 1-14.	1.6	4
17	Nonlinear analysis of high accuracy and reliability in traffic flow prediction. <i>Nonlinear Engineering</i> , 2020, 9, 290-298.	2.7	2
18	New Anti-balling Reamer Blade for Reaming in Soft and Sticky Formation Easy to Hydration and Collapsing. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 10433-10446.	3.0	2

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19	Torsional Vibrations and Nonlinear Dynamic Characteristics of Drill Strings and Stick-Slip Reduction Mechanism. <i>Journal of Computational and Nonlinear Dynamics</i> , 2019, 14, .	1.2	20
20	Numerical Computation for the Inertial Coupling Vibration System Using PL Method. <i>Journal of Vibration Engineering and Technologies</i> , 2019, 7, 139-148.	2.2	1
21	The Study of Identification Method for Dynamic Behavior of High-Dimensional Nonlinear System. <i>Shock and Vibration</i> , 2019, 2019, 1-9.	0.6	1
22	Kick Risk Forecasting and Evaluating During Drilling Based on Autoregressive Integrated Moving Average Model. <i>Energies</i> , 2019, 12, 3540.	3.1	8
23	Formation of banded vegetation patterns resulted from interactions between sediment deposition and vegetation growth. <i>Comptes Rendus - Biologies</i> , 2018, 341, 167-181.	0.2	1
24	Weight Distribution Characteristics During the Process of Hole Enlargement When Drilling. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 6445-6459.	3.0	3
25	Nonlinear Behavior Analysis of Dams Under Earthquake Excitation. , 2018, , .		0
26	Dynamic characteristics and test analysis of a new drilling downhole tool with anti-stick-slip features. <i>Journal of Mechanical Science and Technology</i> , 2018, 32, 4941-4949.	1.5	17
27	Sealing Failure Analysis on V-Shaped Sealing Rings of an Inserted Sealing Tool Used for Multistage Fracturing Processes. <i>Energies</i> , 2018, 11, 1432.	3.1	13
28	Kinetic characteristics analysis of a new torsional oscillator based on impulse response. <i>Archive of Applied Mechanics</i> , 2018, 88, 1877-1891.	2.2	17
29	Nonlinear Responses and Stability of an Elastic Suspended Cable System Subjected to Parametrical External Excitations. <i>Nonlinear Engineering</i> , 2017, 6, 1-13.	2.7	0
30	Effects of wave loads on the horizontal bracing strength of a semi-submersible platform. <i>Proceedings of the Institution of Civil Engineers: Maritime Engineering</i> , 2017, 170, 21-31.	0.2	4
31	Inexact fuzzy integer chance constraint programming approach for noise control within an urban environment. <i>Engineering Optimization</i> , 2016, 48, 1350-1364.	2.6	3
32	An approach combining periodicity ratio and secondary Poincaré map for characteristics diagnosis of nonlinear oscillatory systems. <i>Nonlinear Dynamics</i> , 2016, 84, 959-975.	5.2	7
33	Concrete Stress Intensity Factor Evaluation With a Digital Image Correlation Approach. <i>Journal of Testing and Evaluation</i> , 2016, 44, 615-624.	0.7	4
34	Nonlinear dynamic analysis and characteristics diagnosis of seasonally perturbed predator-prey systems. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015, 22, 407-419.	3.3	13
35	Accuracy and Reliability of Piecewise-Constant Method in Studying the Responses of Nonlinear Dynamic Systems. <i>Journal of Computational and Nonlinear Dynamics</i> , 2015, 10, .	1.2	7
36	Controlling chaotic vibrations of an Euler-Bernoulli beam with an active control strategy. <i>International Journal of Dynamics and Control</i> , 2015, 3, 425-436.	2.5	0

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37	Nonlinear Behavior Characterization of a 3-Layer Laminated Cantilever Beam System. <i>Nonlinear Engineering</i> , 2014, 3, .	2.7	0
38	Effects of viscosity and varying gravity on liquid sloshing in a carrier subjected to external excitations. <i>International Journal of Dynamics and Control</i> , 2014, 2, 521-532.	2.5	2
39	Ecophysiological characteristics and biogas production of cadmium-contaminated crops. <i>Bioresource Technology</i> , 2013, 146, 628-636.	9.6	46
40	Control of chaotic responses of a laminated composite beam subjected to external excitation. , 2012, , .		0
41	Attenuated Wave Field in Fluid-Saturated Porous Medium with Excitations of Multiple Sources. <i>Transport in Porous Media</i> , 2009, 79, 359-375.	2.6	5
42	An Experimental Study of Mobilization and Creeping Flow of Oil Slugs in a Water-Filled Capillary. <i>Transport in Porous Media</i> , 2009, 80, 455-467.	2.6	17
43	Slow Viscous Flow through Arbitrary Triangular Tubes and Its Application in Modelling Porous Media Flows. <i>Transport in Porous Media</i> , 2008, 74, 153-167.	2.6	16
44	Implementation of Periodicity Ratio in Analyzing Nonlinear Dynamic Systems: A Comparison With Lyapunov Exponent. <i>Journal of Computational and Nonlinear Dynamics</i> , 2008, 3, .	1.2	10
45	Bifurcation and chaotic response of a cracked rotor system with viscoelastic supports. <i>Nonlinear Dynamics</i> , 2007, 50, 483-509.	5.2	18
46	Immiscible Displacement in the Interacting Capillary Bundle Model Part II. Applications of Model and Comparison of Interacting and Non-Interacting Capillary Bundle Models. <i>Transport in Porous Media</i> , 2006, 63, 289-304.	2.6	34
47	A Numerical Scheme for Dynamic Liquid Sloshing in Horizontal Cylindrical Containers. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2006, 220, 901-918.	1.9	18
48	Global Bifurcation and Chaotic Behavior Research of a Truncated Conical Shallow Shell Rotating Around a Single Axle. , 2006, , .		0
49	Elastic wave field in a porous medium fully saturated with a Newtonian viscous fluid. , 2006, , .		0
50	Ball Bearing Remnant Life Prediction of Induction Motors â€œ Impact Inspection Approach. , 2006, , .		0
51	Analysis of nonlinear electric field of hvdc wall bushing with a finite element approach. <i>Open Physics</i> , 2005, 3, .	1.7	0
52	Immiscible Displacement in the Interacting Capillary Bundle Model Part I. Development of Interacting Capillary Bundle Model. <i>Transport in Porous Media</i> , 2005, 59, 1-18.	2.6	62
53	Densities and Solubilities for Binary Systems of Carbon Dioxide + Water and Carbon Dioxide + Brine at 59 Å°C and Pressures to 29 MPa. <i>Journal of Chemical & Engineering Data</i> , 2004, 49, 1026-1031.	1.9	98
54	Working mechanism and rock-breaking performance study of new core drill bit with negative pressure absorption effect. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-16.	2.3	1

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55	Low-frequency vibro-acoustic response of an optimized fiber-reinforced graphite truss sandwich panel filled with wood-based material. Journal of Low Frequency Noise Vibration and Active Control, 0, , 146134842110229.	2.9	1
56	Erosion wear research of wall-attachment jet component based on solid-liquid two-phase flow. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-12.	2.3	0
57	Investigation on Vortex Induced Vibration Characteristics of Three-dimensional Marine Riser Considering Cross and Inline Flows Coupling Effect. Australian Journal of Mechanical Engineering, 0, , 1-15.	2.1	0