Liming Dai

List of Publications by Year
in descending order

57	533	687363 13	677142 22
papers	citations	h-index	g-index

57	57	57	521
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Densities and Solubilities for Binary Systems of Carbon Dioxide + Water and Carbon Dioxide + Brine at 59 Â°C and Pressures to 29 MPa. Journal of Chemical & Engineering Data, 2004, 49, 1026-1031.	1.9	98
2	Immiscible Displacement in the Interacting Capillary Bundle Model Part I. Development of Interacting Capillary Bundle Model. Transport in Porous Media, 2005, 59, 1-18.	2.6	62
3	Ecophysiological characteristics and biogas production of cadmium-contaminated crops. Bioresource Technology, 2013, 146, 628-636.	9.6	46
4	Immiscible Displacement in the Interacting Capillary Bundle Model Part II. Applications of Model and Comparison of Interacting and Non-Interacting Capillary Bundle Models. Transport in Porous Media, 2006, 63, 289-304.	2.6	34
5	Torsional Vibrations and Nonlinear Dynamic Characteristics of Drill Strings and Stick-Slip Reduction Mechanism. Journal of Computational and Nonlinear Dynamics, 2019, 14, .	1.2	20
6	A Numerical Scheme for Dynamic Liquid Sloshing in Horizontal Cylindrical Containers. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2006, 220, 901-918.	1.9	18
7	Bifurcation and chaotic response of a cracked rotor system with viscoelastic supports. Nonlinear Dynamics, 2007, 50, 483-509.	5.2	18
8	An Experimental Study of Mobilization and Creeping Flow of Oil Slugs in a Water-Filled Capillary. Transport in Porous Media, 2009, 80, 455-467.	2.6	17
9	Dynamic characteristics and test analysis of a new drilling downhole tool with anti-stick-slip features. Journal of Mechanical Science and Technology, 2018, 32, 4941-4949.	1.5	17
10	Kinetic characteristics analysis of a new torsional oscillator based on impulse response. Archive of Applied Mechanics, 2018, 88, 1877-1891.	2.2	17
11	Slow Viscous Flow through Arbitrary Triangular Tubes and Its Application in Modelling Porous Media Flows. Transport in Porous Media, 2008, 74, 153-167.	2.6	16
12	Research and experimental analysis of drill string dynamics characteristics and stick-slip reduction mechanism. Journal of Mechanical Science and Technology, 2020, 34, 977-986.	1.5	15
13	Nonlinear dynamic analysis and characteristics diagnosis of seasonally perturbed predatorâ€“prey systems. Communications in Nonlinear Science and Numerical Simulation, 2015, 22, 407-419.	3.3	13
14	Sealing Failure Analysis on V-Shaped Sealing Rings of an Inserted Sealing Tool Used for Multistage Fracturing Processes. Energies, 2018, 11, 1432.	3.1	13
15	Implementation of Periodicity Ratio in Analyzing Nonlinear Dynamic Systems: A Comparison With Lyapunov Exponent. Journal of Computational and Nonlinear Dynamics, 2008, 3, .	1.2	10
16	Dynamics and anti-friction characteristics study of horizontal drill string based on new anti-friction tool. International Journal of Green Energy, 2021, 18, 720-730.	3.8	9
17	Kick Risk Forecasting and Evaluating During Drilling Based on Autoregressive Integrated Moving Average Model. Energies, 2019, 12, 3540.	3.1	8
18	The multidirectional vibration and coupling dynamics of drill string and its influence on the wellbore trajectory. Journal of Mechanical Science and Technology, 2020, 34, 2681-2692.	1.5	8

#	Article	IF	Citations
19	Study on the mechanism of drilling speed increase considering the axial vibration of drill string. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	1.6	8
20	Accuracy and Reliability of Piecewise-Constant Method in Studying the Responses of Nonlinear Dynamic Systems. Journal of Computational and Nonlinear Dynamics, 2015, 10, .	1.2	7
21	An approach combining periodicity ratio and secondary PoincarÃ© map for characteristics diagnosis of nonlinear oscillatory systems. Nonlinear Dynamics, 2016, 84, 959-975.	5.2	7
22	A Field Measurement Based Wind Characteristics Analysis of a Typhoon in Near-Ground Boundary Layer. Atmosphere, 2021, 12, 873.	2.3	7
23	Nonlinear dynamic responses of porous FG sandwich cylindrical shells with a viscoelastic core resting on a nonlinear viscoelastic foundation. Mechanics of Advanced Materials and Structures, 2023, 30, 3184-3203.	2.6	7
24	Planning regional-scale water-energy-food nexus system management under uncertainty: An inexact fractional programming method. Journal of Contaminant Hydrology, 2022, 247, 103985.	3.3	6
25	Attenuated Wave Field in Fluid-Saturated Porous Medium with Excitations of Multiple Sources. Transport in Porous Media, 2009, 79, 359-375.	2.6	5
26	Improved Design and Dynamics Characteristics Research of a Composite Percussion Drilling Tool. Journal of Energy Resources Technology, Transactions of the ASME, 2022, 144, .	2.3	5
27	Working mechanism and experimental study of dual-diameter and bi-speed composite drilling tool. International Journal of Green Energy, 2020, 17, 363-372.	3.8	4
28	Regular and Irregular Vegetation Pattern Formation in Semiarid Regions: A Study on Discrete Klausmeier Model. Complexity, 2020, 2020, 1-14.	1.6	4
29	Concrete Stress Intensity Factor Evaluation With a Digital Image Correlation Approach. Journal of Testing and Evaluation, 2016, 44, 615-624.	0.7	4
30	Effects of wave loads on the horizontal bracing strength of a semi-submersible platform. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2017, 170, 21-31.	0.2	4
31	Chaotic Analysis and Prediction of Wind Speed Based on Wavelet Decomposition. Processes, 2021, 9, 1793.	2.8	4
32	Inexact fuzzy integer chance constraint programming approach for noise control within an urban environment. Engineering Optimization, 2016, 48, 1350-1364.	2.6	3
33	Weight Distribution Characteristics During the Process of Hole Enlargement When Drilling. Arabian Journal for Science and Engineering, 2018, 43, 6445-6459.	3.0	3
34	Effects of viscosity and varying gravity on liquid sloshing in a carrier subjected to external excitations. International Journal of Dynamics and Control, 2014, 2, 521-532.	2.5	2
35	New Anti-balling Reamer Blade for Reaming in Soft and Sticky Formation Easy to Hydration and Collapsing. Arabian Journal for Science and Engineering, 2019, 44, 10433-10446.	3.0	2
36	Vibration characteristics of marine riser groups considering the coupled action of cross-flow and in-line. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	2

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37	Nonlinear analysis of high accuracy and reliability in traffic flow prediction. Nonlinear Engineering, 2020, 9, 290-298.	2.7	2
38	Formation of banded vegetation patterns resulted from interactions between sediment deposition and vegetation growth. Comptes Rendus - Biologies, 2018, 341, 167-181.	0.2	1
39	Numerical Computation for the Inertial Coupling Vibration System Using PL Method. Journal of Vibration Engineering and Technologies, 2019, 7, 139-148.	2.2	1
40	The Study of Identification Method for Dynamic Behavior of High-Dimensional Nonlinear System. Shock and Vibration, 2019, 2019, 1-9.	0.6	1
41	Numerical calculation for coupling vibration system by Piecewise-Laplace method. Science Progress, 2020, 103, 36850420938555.	1.9	1
42	Improved Multi-section Variable-Speed Drilling Tool Design for Oil and Gas Industry. Arabian Journal for Science and Engineering, 2021, 46, 6903-6913.	3.0	1
43	Working mechanism and rock-breaking performance study of new core drill bit with negative pressure absorption effect. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-16.	2.3	1
44	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
45	Three-dimensional nonlinear vibration model and fatigue failure mechanism of deepwater test pipe. Nonlinear Dynamics, 2022, 108, 1101-1132.	5.2	1
46	Analysis of nonlinear electric field of hvdc wall bushing with a finite element approach. Open Physics, 2005, 3, .	1.7	0
47	Control of chaotic responses of a laminated composite beam subjected to external excitation. , 2012, , .		0
48	Nonlinear Behavior Characterization of a 3-Layer Laminated Cantilever Beam System. Nonlinear Engineering, 2014, 3, .	2.7	0
49	Controlling chaotic vibrations of an Eulerâ€“Bernoulli beam with an active control strategy. International Journal of Dynamics and Control, 2015, 3, 425-436.	2.5	0
50	Nonlinear Responses and Stability of an Elastic Suspended Cable System Subjected to Parametrical External Excitations. Nonlinear Engineering, 2017, 6, 1-13.	2.7	0
51	Nonlinear Behavior Analysis of Dams Under Earthquake Excitation. , 2018, , .		0
52	Erosion wear research of wall-attachment jet component based on solidâ€“liquid two-phase flow. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-12.	2.3	0
53	Global Bifurcation and Chaotic Behavior Research of a Truncated Conical Shallow Shell Rotating Around a Single Axle. , 2006, , .		0
54	Elastic wave field in a porous medium fully saturated with a Newtonian viscous fluid. , 2006, , .		0

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55	Ball Bearing Remnant Life Prediction of Induction Motors â€“ Impact Inspection Approach. , 2006, , .		0
56	VIV Fracture Investigation into 3D Marine Riser with a Circumferential Outside Surface Crack. Shock and Vibration, 2021, 2021, 1-13.	0.6	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