Songyong Liu

List of Publications by Year
in descending order

56 papers	706 citations	623188 14 h-index	642321 23 g-index
57 all docs	57 docs citations	57 times ranked	443 citing authors

#	Article	IF	Citations
1	Position tracking and dynamic control of an innovative anchor beam supporting robot. Mechanics Based Design of Structures and Machines, 2023, 51, 721-739.	3.4	2
2	Designing Multi-Task Convolutional Variational Autoencoder for Radio Tomographic Imaging. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 219-223.	2.2	8
3	Full coverage cutting path planning of robotized roadheader to improve cutting stability of the coal lane cross-section containing gangue. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 579-592.	1.1	3
4	Multiscale Variational Autoencoder Aided Convolutional Neural Network for Pose Estimation of Tunneling Machine Using a Single Monocular Image. IEEE Transactions on Industrial Informatics, 2022, 18, 5161-5170.	7.2	6
5	An Efficient Maximum-Likelihood-Like Algorithm for Near-Field Coherent Source Localization. IEEE Transactions on Antennas and Propagation, 2022, 70, 6111-6116.	3.1	6
6	Non-stationary feature extraction by the stochastic response of coupled oscillators and its application in bearing fault diagnosis under variable speed condition. Nonlinear Dynamics, 2022, 108, 3839-3857.	2.7	12
7	Particle flow regime in a swirling pneumatic conveying system. Powder Technology, 2022, 401, 117328.	2.1	12
8	Path Planning for Robotic Manipulator in Complex Multi-Obstacle Environment Based on Improved_RRT. IEEE/ASME Transactions on Mechatronics, 2022, 27, 4774-4785.	3.7	14
9	Fast and accurate obstacle detection of manipulator in complex human–machine interaction workspace. Measurement Science and Technology, 2022, 33, 085402.	1.4	4
10	Experimental investigation on concrete rock breaking performance of self-excited oscillation pulsed waterjet. Engineering Fracture Mechanics, 2022, 268, 108502.	2.0	5
11	Neural Direct Adaptive Active Disturbance Rejection Controller for Electro-hydraulic Servo System. International Journal of Control, Automation and Systems, 2022, 20, 2402-2412.	1.6	3
12	Particle abrasion of lifting elbow in dilute pneumatic conveying. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2021, 235, 598-610.	1.0	5
13	Influence of Motion Parameters on Cutting Performance of Boom-Type Roadheader During the Swing Cutting. Arabian Journal for Science and Engineering, 2021, 46, 4387-4397.	1.7	6
14	Analysis of the pick-up of crushed stone particles in a horizontal pipeline. Powder Technology, 2021, 377, 534-544.	2.1	2
15	Robust and Low-Complexity Time-Reversal Subspace Decomposition Methods for Acoustic Emission Imaging and Localization. IEEE Sensors Journal, 2021, 21, 3486-3496.	2.4	2
16	Observer based direct adaptive fuzzy second-order-like sliding mode control for unknown nonlinear systems. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2021, 235, 197-207.	1.4	2
17	Research on coupling effects of actuator and round window membrane on reverse stimulation of human cochlea. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2021, 235, 447-458.	1.0	5
18	Position Deviation Control of Drilling Machine Using a Nonlinear Adaptive Backstepping Controller Based on a Disturbance Observer. Processes, 2021, 9, 237.	1.3	4

#	Article	IF	Citations
19	Data-Driven Approaches for Diagnosis of Incipient Faults in Cutting Arms of the Roadheader. Shock and Vibration, 2021, 2021, 1-15.	0.3	2
20	Experimental Investigation of the Fracture Performance of Hard Rock with a Single Borehole by Using a Hydraulic Splitter. Arabian Journal for Science and Engineering, 2021, 46, 10655.	1.7	1
21	Attention Based Bidirectional Convolutional LSTM for High-Resolution Radio Tomographic Imaging. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1482-1486.	2.2	7
22	Experimental investigation on rock breaking performance of cutter assisted with hydraulic fracturing. Engineering Fracture Mechanics, 2021, 248, 107710.	2.0	11
23	Design of a novel inchworm in-pipe robot based on cam-linkage mechanism. Advances in Mechanical Engineering, 2021, 13, 168781402110451.	0.8	11
24	Integrated Positioning System of Unmanned Automatic Vehicle in Coal Mines. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	2.4	14
25	Observer based adaptive double-layer fuzzy control for nonlinear systems with prescribed performance and unknown control direction. Fuzzy Sets and Systems, 2020, 392, 93-114.	1.6	11
26	Design of a passive constant-force mechanism based on a five-bar mechanism. Mechanism and Machine Theory, 2020, 143, 103662.	2.7	10
27	Neural network–based direct adaptive robust control of unknown MIMO nonlinear systems using state observer. International Journal of Adaptive Control and Signal Processing, 2020, 34, 1-14.	2.3	12
28	Numerical simulation of rock-breaking under the impact load of self-excited oscillating pulsed waterjet. Tunnelling and Underground Space Technology, 2020, 96, 103179.	3.0	25
29	Numerical and experimental investigation on rock breaking performance with hydraulic splitter. Tunnelling and Underground Space Technology, 2020, 96, 103181.	3.0	12
30	Rock Crack Propagation Mechanism of Oriented Perforation Hydraulic Fracture under Different Perforation Parameters. Arabian Journal for Science and Engineering, 2020, 45, 8711-8725.	1.7	12
31	Convolutional Neural Network Based Radio Tomographic Imaging. , 2020, , .		5
32	Experimental Investigation of Hard Rock Breaking Using a Conical Pick Assisted by Abrasive Water Jet. Rock Mechanics and Rock Engineering, 2020, 53, 4221-4230.	2.6	39
33	Observer based adaptive interval type-2 fuzzy sliding mode control for unknown nonlinear systems. Journal of Intelligent and Fuzzy Systems, 2020, 38, 1799-1810.	0.8	3
34	Sliding mode observer-based fractional-order proportional–integral–derivative sliding mode control for electro-hydraulic servo systems. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 1887-1898.	1.1	26
35	Positioning and Sequence Planning of Drilling Boreholes in Hard Rock Roadway. IEEE Access, 2020, 8, 56480-56490.	2.6	1
36	Three-Dimensional Numerical Simulation of Rock Breaking by the Tipped Hob Cutter Based on Explicit Finite Element. IEEE Access, 2019, 7, 86054-86063.	2.6	13

#	ARTICLE	IF	CITATIONS
37	Numerical Investigation on Rock-Fracturing Mechanism by Using Splitter under Hole Assistance. Shock and Vibration, 2019, 2019, 1-14.	0.3	1
38	Neural observer-based adaptive prescribed performance control for uncertain nonlinear systems with input saturation. Neurocomputing, 2019, 370, 94-103.	3.5	28
39	Effect of secondary flow on gas-solid flow regimes in lifting elbows. Powder Technology, 2019, 352, 397-412.	2.1	16
40	Scale effect stress–strain model of coal containing gas. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	5
41	Antifriction and Antiwear Effect of Lamellar ZrS2 Nanobelts as Lubricant Additives. Nanomaterials, 2019, 9, 329.	1.9	6
42	Optimum Design of the Parameters of the Shearer Drum. , 2019, , .		0
43	Experimental application of vibrational resonance on bearing fault diagnosis. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	23
44	Experimental investigation and application on the cutting performance of cutting head for rock cutting assisted with multi-water jets. International Journal of Advanced Manufacturing Technology, 2018, 94, 2715-2728.	1.5	23
45	Impact-Crush Separation Characteristics of Coal and Gangue. International Journal of Coal Preparation and Utilization, 2018, 38, 127-134.	1.2	22
46	Tribological Behavior of Lamellar Molybdenum Trioxide as a Lubricant Additive. Materials, 2018, 11, 2427.	1.3	17
47	Experimental and numerical studies on dense-phase pneumatic conveying of spraying material in venturi. Powder Technology, 2018, 339, 419-433.	2.1	31
48	Experimental research on wear of conical pick interacting with coal-rock. Engineering Failure Analysis, 2017, 74, 172-187.	1.8	50
49	Effect of pick working angle on the cutting performance of a cutting head. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 4147-4159.	0.8	16
50	Numerical and experimental investigation of the impact fragmentation of bluestone using multi-type bits. International Journal of Rock Mechanics and Minings Sciences, 2017, 91, 18-28.	2.6	19
51	Drilling Performance of Rock Drill by High-Pressure Water Jet under Different Configuration Modes. Shock and Vibration, 2017, 2017, 1-14.	0.3	8
52	Vibration and Deflection Behavior of a Coal Auger Working Mechanism. Shock and Vibration, 2016, 2016, 1-15.	0.3	1
53	Investigation of mechanical responses to the tactile perception of surfaces with different textures using the finite element method. Advances in Mechanical Engineering, 2016, 8, 168781401666045.	0.8	7
54	Mechanism of rock breaking by pick assisted with water jet of different modes. Journal of Mechanical Science and Technology, 2015, 29, 5359-5368.	0.7	25

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55	Experiment on Conical Pick Cutting Rock Material Assisted with Front and Rear Water Jet. Advances in Materials Science and Engineering, 2015, 2015, 1-9.	1.0	14
56	Numerical research on rock breaking performance of water jet based on SPH. Powder Technology, 2015, 286, 181-192.	2.1	78