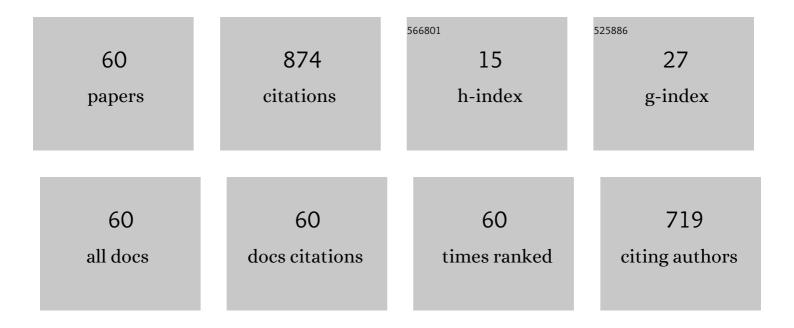
Maolin Cai

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5239222/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Part machining feature recognition based on a deep learning method. Journal of Intelligent Manufacturing, 2023, 34, 809-821.	4.4	10
2	Effect of different anesthetic dose of pentobarbital on respiratory activity in rabbits. Computers in Biology and Medicine, 2022, 145, 105501.	3.9	0
3	A New Precise High Flow Oxygen Therapy System Based on Sliding Mode Control Strategy. Complexity, 2022, 2022, 1-12.	0.9	0
4	Feature-Based and Process-Based Manufacturing Cost Estimation. Machines, 2022, 10, 319.	1.2	1
5	Mechanical ventilation strategy for pulmonary rehabilitation based on patient-ventilator interaction. Science China Technological Sciences, 2021, 64, 869-878.	2.0	4
6	Novel assisted cough system based on simulating cough airflow dynamics. Bio-Design and Manufacturing, 2021, 4, 479-489.	3.9	2
7	Water-Spray-Cooled Quasi-Isothermal Compression Method: Water-Spray Flow Improvement. Entropy, 2021, 23, 724.	1.1	6
8	Theoretical study on the application of isothermal compression technology in vaporâ€compression refrigeration systems with an isothermal piston. Energy Science and Engineering, 2021, 9, 2321-2332.	1.9	3
9	New advances in airflow measurements applied in airflow characteristics test of pneumatic components. Science China Technological Sciences, 2021, 64, 2781-2782.	2.0	0
10	Advances in motion control of gas pipeline detection robot. Science China Technological Sciences, 2020, 63, 877-878.	2.0	2
11	A Novel Isothermal Compression Method for Energy Conservation in Fluid Power Systems. Entropy, 2020, 22, 1015.	1.1	10
12	Detection of Respiratory Sounds Based on Wavelet Coefficients and Machine Learning. IEEE Access, 2020, 8, 155710-155720.	2.6	27
13	Optimization of Fuel Injection Control System of Two-Stroke Aeroengine of UAV. Complexity, 2020, 2020, 1-12.	0.9	0
14	Numerical Analysis of Airway Mucus Clearance Effectiveness Using Assisted Coughing Techniques. Scientific Reports, 2020, 10, 2030.	1.6	26
15	Various realization methods of machine-part classification based on deep learning. Journal of Intelligent Manufacturing, 2020, 31, 2019-2032.	4.4	7
16	Cough Expired Volume and Cough Peak Flow Rate Estimation Based on GA-BP Method. Complexity, 2020, 2020, 1-9.	0.9	10
17	Study of Fuel-Controlled Aircraft Engine for Fuel-Powered Unmanned Aerial Vehicle: Energy Conversion Analysis and Optimization. IEEE Access, 2019, 7, 109246-109258.	2.6	8
18	Experiments on Air Compression with an Isothermal Piston for Energy Storage. Energies, 2019, 12, 3730.	1.6	15

Maolin Cai

#	Article	IF	CITATIONS
19	New advances in in-situ thermal desorption technology for contaminated soil. Science China Technological Sciences, 2019, 62, 2075-2076.	2.0	7
20	Nonlinear Model Establishment and Experimental Verification of a Pneumatic Rotary Actuator Position Servo System. Energies, 2019, 12, 1096.	1.6	6
21	Dynamic Characteristics of a Mechanical Ventilation System With Spontaneous Breathing. IEEE Access, 2019, 7, 172847-172859.	2.6	11
22	A Novel Method for Automatic Identification of Breathing State. Scientific Reports, 2019, 9, 103.	1.6	13
23	ANSYSâ€MATLAB coâ€simulation of mucus flow distribution and clearance effectiveness of a new simulated cough device. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2978.	1.0	14
24	Energy conversion characteristics of reciprocating piston quasi-isothermal compression systems using water sprays. Science China Technological Sciences, 2018, 61, 285-298.	2.0	16
25	Technologies and application of pipeline centerline and bending strain of In-line inspection based on inertial navigation. Transactions of the Institute of Measurement and Control, 2018, 40, 1554-1567.	1.1	15
26	Detection of sputum by interpreting the time-frequency distribution of respiratory sound signal using image processing techniques. Bioinformatics, 2018, 34, 820-827.	1.8	42
27	Influence of bronchial diameter change on the airflow dynamics based on a pressureâ€controlled ventilation system. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2929.	1.0	28
28	The Identification of Sputum Situation Based on the Sound from the Respiratory Tract. , 2018, , .		1
29	Theory and Application of Audio-Based Assessment of Cough. Journal of Sensors, 2018, 2018, 1-10.	0.6	37
30	Classification of Sputum Sounds Using Artificial Neural Network and Wavelet Transform. International Journal of Biological Sciences, 2018, 14, 938-945.	2.6	17
31	Review of fluid and control technology of hydraulic wind turbines. Frontiers of Mechanical Engineering, 2017, 12, 312-320.	2.5	20
32	Numerical simulation of volumeâ€controlled mechanical ventilated respiratory system with 2 different lungs. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e2852.	1.0	24
33	Study on air flow dynamic characteristic of mechanical ventilation of a lung simulator. Science China Technological Sciences, 2017, 60, 243-250.	2.0	21
34	New advances in EMG control methods of anthropomorphic prosthetic hand. Science China Technological Sciences, 2017, 60, 1978-1979.	2.0	7
35	Research Progress of Related Technologies of Electric-Pneumatic Pressure Proportional Valves. Applied Sciences (Switzerland), 2017, 7, 1074.	1.3	14
36	Multi-body dynamic modeling, simulation and control strategy design of a Y6 tilt rotor UAV. , 2017, , .		0

MAOLIN CAI

#	Article	IF	CITATIONS
37	Study on the effect of tilting-rotor structure on the lift of small tilt rotor aircraft. , 2017, , .		3
38	Pipeline Bending Strain Measurement and Compensation Technology Based on Wavelet Neural Network. Journal of Sensors, 2016, 2016, 1-7.	0.6	10
39	Literature review: Present state and future trends of air-powered vehicles. Journal of Renewable and Sustainable Energy, 2016, 8, .	0.8	16
40	Research on RBF neural network prediction of oil and gas pipe dent depth. , 2016, , .		3
41	New advances in monitoring and triggering of mechanical ventilation. Science China Technological Sciences, 2016, 59, 1791-1792.	2.0	4
42	Fuzzy logic speed control for the engine of an air-powered vehicle. Advances in Mechanical Engineering, 2016, 8, 168781401664183.	0.8	15
43	Power characteristics of a new kind of air-powered vehicle. International Journal of Energy Research, 2016, 40, 1112-1121.	2.2	21
44	Modelling and study on the output flow characteristics of expansion energy used hydropneumatic transformer. Journal of Mechanical Science and Technology, 2016, 30, 1163-1170.	0.7	8
45	The effects of air gap reflections during air-coupled leaky Lamb wave inspection of thin plates. Ultrasonics, 2016, 65, 282-295.	2.1	38
46	Theory and Application of Magnetic Flux Leakage Pipeline Detection. Sensors, 2015, 15, 31036-31055.	2.1	236
47	Study on the Dynamics of Local Pressure Boosting Pneumatic System. Mathematical Problems in Engineering, 2015, 2015, 1-11.	0.6	4
48	Working characteristics of a new ventilator with automatic secretion clearance function. Science China Technological Sciences, 2015, 58, 1046-1052.	2.0	10
49	Dimensionless Study on Efficiency and Speed Characteristics of a Compressed Air Engine. Journal of Energy Resources Technology, Transactions of the ASME, 2015, 137, .	1.4	15
50	Dimensionless study on dynamics of pressure controlled mechanical ventilation system. Journal of Mechanical Science and Technology, 2015, 29, 431-439.	0.7	10
51	Study on the temperature compensation technology of air-powered engine. Journal of Renewable and Sustainable Energy, 2015, 7, 023112.	0.8	2
52	Working Characteristics of a Mechanical Insufflation-Exsufflation Device. Mathematical Problems in Engineering, 2014, 2014, 1-9.	0.6	6
53	Working Characteristics of Variable Intake Valve in Compressed Air Engine. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	1
54	Pressure Dynamic Characteristics of Pressure Controlled Ventilation System of a Lung Simulator. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-10.	0.7	17

MAOLIN CAI

#	Article	IF	CITATIONS
55	Modelling and Simulation of Volume Controlled Mechanical Ventilation System. Mathematical Problems in Engineering, 2014, 2014, 1-7.	0.6	10
56	Dimensionless Study on Output Flow Characteristics of Expansion Energy Used Pneumatic Pressure Booster. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, .	0.9	17
57	A review of energy saving technologies on compressed air system. , 2013, , .		Ο
58	Study on evaluation methods of product-buying interest. , 2011, , .		0
59	Mechanical Properties Evaluation for Pneumatic Actuator and Electric Actuator Based on AHP-FCE. , 2010, , .		3
60	Electrical impedance tomography for clinical application. Science China Technological Sciences, 0, , 1.	2.0	1