

Weiqing Xu

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

450
citations

623574

14
h-index

752573

20
g-index

33
all docs

33
docs citations

33
times ranked

358
citing authors

#	ARTICLE	IF	CITATIONS
1	Manufacturing cost estimation based on a deep-learning method. Journal of Manufacturing Systems, 2020, 54, 186-195.	7.6	40
2	Theory and Application of Audio-Based Assessment of Cough. Journal of Sensors, 2018, 2018, 1-10.	0.6	37
3	Manufacturing cost estimation based on the machining process and deep-learning method. Journal of Manufacturing Systems, 2020, 56, 11-22.	7.6	34
4	Influence of bronchial diameter change on the airflow dynamics based on a pressure-controlled ventilation system. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2929.	1.0	28
5	Methods to Evaluate and Measure Power of Pneumatic System and Their Applications. Chinese Journal of Mechanical Engineering (English Edition), 2019, 32, .	1.9	26
6	Numerical Analysis of Airway Mucus Clearance Effectiveness Using Assisted Coughing Techniques. Scientific Reports, 2020, 10, 2030.	1.6	26
7	Study on air flow dynamic characteristic of mechanical ventilation of a lung simulator. Science China Technological Sciences, 2017, 60, 243-250.	2.0	21
8	Influence of Airway Secretion on Airflow Dynamics of Mechanical Ventilated Respiratory System. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 1660-1668.	1.9	21
9	Coupling Effect of Double Lungs on a VCV Ventilator with Automatic Secretion Clearance Function. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 1280-1287.	1.9	21
10	Visual-SLAM Classical Framework and Key Techniques: A Review. Sensors, 2022, 22, 4582.	2.1	18
11	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
12	Energy conversion characteristics of reciprocating piston quasi-isothermal compression systems using water sprays. Science China Technological Sciences, 2018, 61, 285-298.	2.0	16
13	Fuzzy logic speed control for the engine of an air-powered vehicle. Advances in Mechanical Engineering, 2016, 8, 168781401664183.	0.8	15
14	Experiments on Air Compression with an Isothermal Piston for Energy Storage. Energies, 2019, 12, 3730.	1.6	15
15	Research Progress of Related Technologies of Electric-Pneumatic Pressure Proportional Valves. Applied Sciences (Switzerland), 2017, 7, 1074.	1.3	14
16	A Novel Method for Automatic Identification of Breathing State. Scientific Reports, 2019, 9, 103.	1.6	13
17	Modelling and Simulation of Volume Controlled Mechanical Ventilation System. Mathematical Problems in Engineering, 2014, 2014, 1-7.	0.6	10
18	Dimensionless study on dynamics of pressure controlled mechanical ventilation system. Journal of Mechanical Science and Technology, 2015, 29, 431-439.	0.7	10

#	ARTICLE	IF	CITATIONS
19	A Novel Isothermal Compression Method for Energy Conservation in Fluid Power Systems. <i>Entropy</i> , 2020, 22, 1015.	1.1	10
20	Part machining feature recognition based on a deep learning method. <i>Journal of Intelligent Manufacturing</i> , 2023, 34, 809-821.	4.4	10
21	Study of Fuel-Controlled Aircraft Engine for Fuel-Powered Unmanned Aerial Vehicle: Energy Conversion Analysis and Optimization. <i>IEEE Access</i> , 2019, 7, 109246-109258.	2.6	8
22	New advances in EMG control methods of anthropomorphic prosthetic hand. <i>Science China Technological Sciences</i> , 2017, 60, 1978-1979.	2.0	7
23	Various realization methods of machine-part classification based on deep learning. <i>Journal of Intelligent Manufacturing</i> , 2020, 31, 2019-2032.	4.4	7
24	Working Characteristics of a Mechanical Insufflation-Exsufflation Device. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-9.	0.6	6
25	Water-Spray-Cooled Quasi-Isothermal Compression Method: Water-Spray Flow Improvement. <i>Entropy</i> , 2021, 23, 724.	1.1	6
26	Study on the Dynamics of Local Pressure Boosting Pneumatic System. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-11.	0.6	4
27	Study on the effect of tilting-rotor structure on the lift of small tilt rotor aircraft. , 2017, , .		3
28	Theoretical study on the application of isothermal compression technology in vaporâ€compression refrigeration systems with an isothermal piston. <i>Energy Science and Engineering</i> , 2021, 9, 2321-2332.	1.9	3
29	Novel assisted cough system based on simulating cough airflow dynamics. <i>Bio-Design and Manufacturing</i> , 2021, 4, 479-489.	3.9	2
30	The Identification of Sputum Situation Based on the Sound from the Respiratory Tract. , 2018, , .		1
31	Feature-Based and Process-Based Manufacturing Cost Estimation. <i>Machines</i> , 2022, 10, 319.	1.2	1
32	Multi-body dynamic modeling, simulation and control strategy design of a Y6 tilt rotor UAV. , 2017, , .		0
33	Optimization of Fuel Injection Control System of Two-Stroke Aeroengine of UAV. <i>Complexity</i> , 2020, 2020, 1-12.	0.9	0