Cong Zhou

List of Publications by Year
in descending order

32 papers	320 citations	840776 11 h-index	888059 17 g-index
32 all docs	32 docs citations	32 times ranked	131 citing authors

#	Article	IF	Citations
1	Virtual patients for mechanical ventilation in the intensive care unit. Computer Methods and Programs in Biomedicine, 2021, 199, 105912.	4.7	43
2	Physical Parameter Identification of Structural Systems with Hysteretic Pinching. Computer-Aided Civil and Infrastructure Engineering, 2015, 30, 247-262.	9.8	37
3	Comparing model-based adaptive LMS filters and a model-free hysteresis loop analysis method for structural health monitoring. Mechanical Systems and Signal Processing, 2017, 84, 384-398.	8.0	27
4	Degradation evaluation of lateral story stiffness using HLA-based deep learning networks. Advanced Engineering Informatics, 2019, 39, 259-268.	8.0	27
5	Support vector machines for automated modelling of nonlinear structures using health monitoring results. Mechanical Systems and Signal Processing, 2021, 149, 107201.	8.0	26
6	Damage assessment by stiffness identification for a full-scale three-story steel moment resisting frame building subjected to a sequence of earthquake excitations. Bulletin of Earthquake Engineering, 2017, 15, 5393-5412.	4.1	20
7	Efficient hysteresis loop analysis-based damage identification of a reinforced concrete frame structure over multiple events. Journal of Civil Structural Health Monitoring, 2017, 7, 541-556.	3.9	16
8	Silicone phantom validation of breast cancer tumor detection using nominal stiffness identification in digital imaging elasto-tomography (DIET). Biomedical Signal Processing and Control, 2018, 39, 435-447.	5.7	16
9	Parameter updating of a patient-specific lung mechanics model for optimising mechanical ventilation. Biomedical Signal Processing and Control, 2020, 60, 102003.	5.7	14
10	Prediction and estimation of pulmonary response and elastance evolution for volume-controlled and pressure-controlled ventilation. Biomedical Signal Processing and Control, 2022, 72, 103367.	5.7	14
11	Over-distension prediction via hysteresis loop analysis and patient-specific basis functions in a virtual patient model. Computers in Biology and Medicine, 2022, 141, 105022.	7.0	13
12	Overall damage identification of flag-shaped hysteresis systems under seismic excitation. Smart Structures and Systems, 2015, 16, 163-181.	1.9	10
13	A new pinched nonlinear hysteretic structural model for automated creation of digital clones in structural health monitoring. Structural Health Monitoring, 2021, 20, 101-117.	7.5	8
14	Reconstructing asynchrony for mechanical ventilation using a hysteresis loop virtual patient model. BioMedical Engineering OnLine, 2022, 21, 16.	2.7	8
15	Effective Stiffness Identification for Structural Health Monitoring of Reinforced Concrete Building using Hysteresis Loop Analysis. Procedia Engineering, 2017, 199, 1074-1079.	1.2	6
16	Performance evaluation of CWH base isolated building during two major earthquakes in Christchurch. Bulletin of the New Zealand Society for Earthquake Engineering, 2015, 48, 264-273.	0.5	6
17	Real-world application of hysteresis loop analysis for stiffness identification of an instrumented building across multiple seismic events. Journal of Building Engineering, 2022, 45, 103524.	3.4	4
18	A Nonlinear Hysteretic Model for Automated Prediction of Lung Mechanics during Mechanical Ventilation. IFAC-PapersOnLine, 2020, 53, 817-822.	0.9	4

#	Article	IF	Citations
19	Nominal Stiffness Identification for Tumor Detection of Women Breast in a Digital Image Elasto Tomography (DIET) System. IFAC-PapersOnLine, 2017, 50, 2031-2036.	0.9	3
20	Structural health monitoring of tissue mechanics for non-invasive diagnosis of breast cancer. Automatisierungstechnik, 2018, 66, 1037-1050.	0.8	3
21	A combined SHM/IDA method for assessing collapse capacity and risk in subsequent ground motions. Journal of Civil Structural Health Monitoring, 2020, 10, 17-28.	3.9	3
22	Evaluation of Pinching Effects on a Real Concrete Building Seismic Performance by Resimulating Displacement Responses Using HLA SHM Results. Journal of Performance of Constructed Facilities, 2021, 35, .	2.0	3
23	Minimal Lung Mechanics Basis-functions for a Mechanical Ventilation Virtual Patient. IFAC-PapersOnLine, 2021, 54, 127-132.	0.9	3
24	Modeling viscous damping in actuated breast tissue to provide diagnostic insight for breast cancer: A proofâ€ofâ€concept analysis. Medical Physics, 2021, 48, 4978-4992.	3.0	2
25	Automated structural dynamic modelling using model-free health monitoring results. Bulletin of the New Zealand Society for Earthquake Engineering, 2020, 53, 189-202.	0.5	2
26	Predicting Pulmonary Distension in a Virtual Patient Model for Mechanical Ventilation. IFAC-PapersOnLine, 2021, 54, 91-96.	0.9	1
27	Identification of Asynchronous Effect via Pressure-Volume Loop Reconstruction in Mechanically Ventilated Breathing Waveforms. IFAC-PapersOnLine, 2021, 54, 186-191.	0.9	1
28	Sensitivity Analysis for Stiffness Identification Using a DIET Breast Cancer Screening System. IFAC-PapersOnLine, 2017, 50, 2037-2042.	0.9	0
29	Viscous Damping in Actuated Breast Tissue to Detect Tumors in a Digital Image Elasto Tomography (DIET) System. IFAC-PapersOnLine, 2018, 51, 264-269.	0.9	0
30	Real-time structural health monitoring of nonlinear hysteretic structures using a fast and slow dynamics separation method. IFAC Journal of Systems and Control, 2021, 15, 100122.	1.7	0
31	Impact of Two Lung Elastance Identification Methods on Pulmonary Mechanics Prediction. IFAC-PapersOnLine, 2021, 54, 97-102.	0.9	0
32	Rayleigh Damping Modelling for Tumor Detection using Digital Image Elasto Tomography (DIET). IFAC-PapersOnLine, 2020, 53, 16269-16274.	0.9	0