

Yun-Lai Zhou

List of Publications by Year in descending order

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66
papers

967
citations

516710

16
h-index

477307

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69
all docs

69
docs citations

69
times ranked

760
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic laser profile recognition and fast tracking for structured light measurement using deep learning and template matching. Measurement: Journal of the International Measurement Confederation, 2021, 169, 108362.	5.0	90
2	Structural damage detection using transmissibility together with hierarchical clustering analysis and similarity measure. Structural Health Monitoring, 2017, 16, 711-731.	7.5	76
3	Damage detection using transmissibility compressed by principal component analysis enhanced with distance measure. JVC/Journal of Vibration and Control, 2018, 24, 2001-2019.	2.6	70
4	Dynamic Model Updating for Bridge Structures Using the Kriging Model and PSO Algorithm Ensemble with Higher Vibration Modes. Sensors, 2018, 18, 1879.	3.8	60
5	Investigation of the tool-rock interaction using Drucker-Prager failure criterion. Journal of Petroleum Science and Engineering, 2019, 173, 269-278.	4.2	57
6	Cosine based and extended transmissibility damage indicators for structural damage detection. Engineering Structures, 2017, 141, 175-183.	5.3	45
7	Model Updating in Complex Bridge Structures using Kriging Model Ensemble with Genetic Algorithm. KSCE Journal of Civil Engineering, 2018, 22, 3567-3578.	1.9	43
8	Damage detection in structures using a transmissibility-based Mahalanobis distance. Structural Control and Health Monitoring, 2015, 22, 1209-1222.	4.0	41
9	Applying constrained layer damping to reduce vibration and noise from a steel-concrete composite bridge: An experimental and numerical investigation. Journal of Sandwich Structures and Materials, 2020, 22, 1743-1769.	3.5	31
10	Rapid early damage detection using transmissibility with distance measure analysis under unknown excitation in long-term health monitoring. Journal of Vibroengineering, 2016, 18, 4491-4499.	1.0	30
11	Form-finding analysis of suspension bridges using an explicit Iterative approach. Structural Engineering and Mechanics, 2017, 62, 85-95.	1.0	26
12	Degradation of the In-plane Shear Modulus of Structural BFRP Laminates Due to High Temperature. Sensors, 2018, 18, 3361.	3.8	24
13	A reference free ultrasonic phased array to identify surface cracks in welded steel pipes based on transmissibility. International Journal of Pressure Vessels and Piping, 2018, 168, 66-78.	2.6	24
14	Substructural damage detection in shear structures via ARMAX model and optimal subpattern assignment distance. Engineering Structures, 2019, 191, 625-639.	5.3	22
15	Feasible Range for Midtower Lateral Stiffness in Three-Tower Suspension Bridges. Journal of Bridge Engineering, 2018, 23, .	2.9	20
16	Output-Based Structural Damage Detection by Using Correlation Analysis Together with Transmissibility. Materials, 2017, 10, 866.	2.9	18
17	Damage Detection and Quantification Using Transmissibility Coherence Analysis. Shock and Vibration, 2015, 2015, 1-16.	0.6	17
18	Large-scale structural optimization using metaheuristic algorithms with elitism and a filter strategy. Structural and Multidisciplinary Optimization, 2018, 57, 799-814.	3.5	17

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19	Damage detection using vibration data and dynamic transmissibility ensemble with auto-associative neural network. <i>Mechanika</i> , 2017, 23, .	0.5	17
20	Applicability of Subspace Harmony Search Hybrid with Improved Deb Rule in Optimizing Trusses. <i>Journal of Computing in Civil Engineering</i> , 2018, 32, .	4.7	15
21	Noise and Vibration Mitigation Performance of Damping Pad under CRTS-III Ballastless Track in High Speed Rail Viaduct. <i>KSCE Journal of Civil Engineering</i> , 2019, 23, 3525-3534.	1.9	15
22	Footbridge Serviceability Analysis: From System Identification to Tuned Mass Damper Implementation. <i>KSCE Journal of Civil Engineering</i> , 2019, 23, 754-762.	1.9	12
23	Stick-slip vibrations in oil well drillstring: A review. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2020, 39, 885-907.	2.9	12
24	Surface Crack Detection in Precasted Slab Track in High-Speed Rail via Infrared Thermography. <i>Materials</i> , 2020, 13, 4837.	2.9	11
25	Insights into the Effect of WJ-7 Fastener Rubber Pad to Vehicle-Rail-Viaduct Coupled Dynamics. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1889.	2.5	11
26	On-Board Detection of Longitudinal Track Irregularity Via Axle Box Acceleration in HSR. <i>IEEE Access</i> , 2021, 9, 14025-14037.	4.2	10
27	Vibration Mitigation Effect Investigation of a New Slab Track Plate Design. <i>Sensors</i> , 2019, 19, 168.	3.8	9
28	Mechanical analysis of un-bonded flexible pipe tensile armor under combined loads. <i>International Journal of Pressure Vessels and Piping</i> , 2019, 171, 217-223.	2.6	9
29	Long-Term Monitoring for Track Slab in High-Speed Rail via Vision Sensing. <i>IEEE Access</i> , 2020, 8, 156043-156052.	4.2	9
30	Looseness localization for bolted joints using Bayesian operational modal analysis and modal strain energy. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401880869.	1.6	8
31	Sealing Performance Analysis of an End Fitting for Marine Unbonded Flexible Pipes Based on Hydraulic-Thermal Finite Element Modeling. <i>Energies</i> , 2019, 12, 2198.	3.1	8
32	Mono-Component Feature Extraction for Condition Assessment in Civil Structures Using Empirical Wavelet Transform. <i>Sensors</i> , 2019, 19, 4280.	3.8	7
33	Output-Only Damage Detection of Shear Building Structures Using an Autoregressive Model-Enhanced Optimal Subpattern Assignment Metric. <i>Sensors</i> , 2020, 20, 2050.	3.8	7
34	Multiple damage detection in composite beams using Particle Swarm Optimization and Genetic Algorithm. <i>Mechanika</i> , 2017, 23, .	0.5	7
35	Acoustic Radiation and Dynamic Study of a Steel Beam Damped with Viscoelastic Material. <i>KSCE Journal of Civil Engineering</i> , 2020, 24, 2132-2146.	1.9	7
36	Investigation on the dynamic impact factor of a concrete filled steel tube butterfly arch bridge. <i>Engineering Structures</i> , 2022, 252, 113614.	5.3	7

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37	Granular flows in a rotating drum and on an inclined plane: Analytical and numerical solutions. <i>Physics of Fluids</i> , 2018, 30, .	4.0	6
38	Experimental and Numerical Investigation on the Ultimate Vertical Bearing Capacity of U-Shaped Girder with Damaged Web. <i>Sensors</i> , 2019, 19, 3735.	3.8	6
39	Investigation of the mechanical response of a deep-water drilling riser to ocean currents and waves. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401881833.	1.6	6
40	Track Irregularity Assessment in High-Speed Rail by Incorporating Carriage-Body Acceleration with Transfer Function. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-16.	1.1	6
41	Structural health monitoring of 3D frame structures using finite element modal analysis and genetic algorithm. <i>Journal of Vibroengineering</i> , 2018, 20, 202-214.	1.0	6
42	Structural Health Monitoring from Sensing to Processing. , 2018, , .		6
43	Single side damage simulations and detection in beam-like structures. <i>Journal of Physics: Conference Series</i> , 2015, 628, 012036.	0.4	5
44	A Study on a Mechanism of Lateral Pedestrian-Footbridge Interaction. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5257.	2.5	4
45	Comparative study of four penalty-free constraint-handling techniques in structural optimization using harmony search. <i>Engineering With Computers</i> , 2022, 38, 561-581.	6.1	4
46	Damage localization and quantification of composite beam structures using residual force and optimization. <i>Journal of Vibroengineering</i> , 2017, 19, 4977-4988.	1.0	4
47	Review on structural damage assessment via transmissibility with vibration based measurements. <i>Journal of Physics: Conference Series</i> , 2017, 842, 012016.	0.4	3
48	Investigation of influence of an obstacle on granular flows by virtue of a depth-integrated theory. <i>European Journal of Mechanics, B/Fluids</i> , 2020, 84, 334-349.	2.5	3
49	Ambient Effect Filtering Using NLPCA-SVR in High-Rise Buildings. <i>Sensors</i> , 2020, 20, 1143.	3.8	3
50	Damage detection in structures using frequency response functions ensemble with extended cosine based indicator. <i>Journal of Physics: Conference Series</i> , 2017, 843, 012021.	0.4	2
51	A proposal application based on strain energy for damage detection and quantification of beam composite structure using vibration data. <i>Journal of Physics: Conference Series</i> , 2017, 842, 012027.	0.4	2
52	Delamination detection in laminated composite using Virtual crack closure technique (VCCT) and modal flexibility based on dynamic analysis. <i>Journal of Physics: Conference Series</i> , 2017, 842, 012084.	0.4	1
53	A feasible study for the working mechanism and parameter optimization of the agitator. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401984699.	1.6	1
54	The Rock Failure Behavior Analysis in Rock Cutting Using Finite Element Analysis. <i>Lecture Notes in Civil Engineering</i> , 2019, , 143-149.	0.4	1

#	ARTICLE	IF	CITATIONS
55	Insights into Underrail Rubber Padâ€™s Effect on Vehicle-Track-Viaduct System Dynamics. Shock and Vibration, 2021, 2021, 1-19.	0.6	1
56	Insights into Metal Sheet Novelty Detection via Simulated Electromagnetic Ultrasonic Surface Wave. Buildings, 2022, 12, 235.	3.1	1
57	Damage localization and quantification of composite stratified beam Structures using residual force method. Journal of Physics: Conference Series, 2017, 842, 012028.	0.4	0
58	Structural system identification by utilizing transmissibility coherence from limited measured data. Journal of Physics: Conference Series, 2017, 842, 012020.	0.4	0
59	Investigation of Inclined Wellbore Stability Using Numerical Analysis. Lecture Notes in Civil Engineering, 2019, , 213-224.	0.4	0
60	Experimental Study on Hysteresis Characteristics of Fluorosilicone Rubber Damper. IOP Conference Series: Materials Science and Engineering, 2020, 887, 012023.	0.6	0
61	Republished Paper. Rapid early damage detection using transmissibility with distance measure analysis under unknown excitation in long-term health monitoring. Journal of Vibroengineering, 2018, 20, 823-831.	1.0	0
62	Carriageâ€™Railâ€™Viaduct Coupling Analysis Using Dynamic Flexibility Method. , 2019, , 123-132.		0
63	Investigation on the Effect of High-Frequency Torsional Impacts on the Torsional Vibration of an Oilwell Drill String in Slip Phase. , 2019, , 101-121.		0
64	Introductory Chapter: Some Insights into Bridge Structural Condition Monitoring. , 0, , .		0
65	Editorial: Advanced Sensing, Materials and Intelligent Algorithms for Multi-Domain Structural Health Monitoring. Frontiers in Materials, 2021, 8, .	2.4	0
66	Long-Term Monitoring of Local Track Irregularity and Its Influence for Simply Supported Girder Bridge of HSR. Buildings, 2022, 12, 445.	3.1	0