Yun-Lai Zhou

**List of Publications by Year
in descending order**

66 papers	967 citations	516710 16 h-index	477307 29 g-index
69 all docs	69 docs citations	69 times ranked	760 citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative study of four penalty-free constraint-handling techniques in structural optimization using harmony search. Engineering With Computers, 2022, 38, 561-581.	6.1	4
2	Investigation on the dynamic impact factor of a concrete filled steel tube butterfly arch bridge. Engineering Structures, 2022, 252, 113614.	5.3	7
3	Insights into Metal Sheet Novelty Detection via Simulated Electromagnetic Ultrasonic Surface Wave. Buildings, 2022, 12, 235.	3.1	1
4	Long-Term Monitoring of Local Track Irregularity and Its Influence for Simply Supported Girder Bridge of HSR. Buildings, 2022, 12, 445.	3.1	0
5	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
6	Insights into Underrail Rubber Pad's Effect on Vehicle-Track-Viaduct System Dynamics. Shock and Vibration, 2021, 2021, 1-19.	0.6	1
7	On-Board Detection of Longitudinal Track Irregularity Via Axle Box Acceleration in HSR. IEEE Access, 2021, 9, 14025-14037.	4.2	10
8	Editorial: Advanced Sensing, Materials and Intelligent Algorithms for Multi-Domain Structural Health Monitoring. Frontiers in Materials, 2021, 8, .	2.4	0
9	Stick–slip vibrations in oil well drillstring: A review. Journal of Low Frequency Noise Vibration and Active Control, 2020, 39, 885-907.	2.9	12
10	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
11	Experimental Study on Hysteresis Characteristics of Fluorosilicone Rubber Damper. IOP Conference Series: Materials Science and Engineering, 2020, 887, 012023.	0.6	0
12	Track Irregularity Assessment in High-Speed Rail by Incorporating Carriage-Body Acceleration with Transfer Function. Mathematical Problems in Engineering, 2020, 2020, 1-16.	1.1	6
13	Surface Crack Detection in Precasted Slab Track in High-Speed Rail via Infrared Thermography. Materials, 2020, 13, 4837.	2.9	11
14	Long-Term Monitoring for Track Slab in High-Speed Rail via Vision Sensing. IEEE Access, 2020, 8, 156043-156052.	4.2	9
15	Investigation of influence of an obstacle on granular flows by virtue of a depth-integrated theory. European Journal of Mechanics, B/Fluids, 2020, 84, 334-349.	2.5	3
16	Ambient Effect Filtering Using NLPCA-SVR in High-Rise Buildings. Sensors, 2020, 20, 1143.	3.8	3
17	Insights into the Effect of WJ-7 Fastener Rubber Pad to Vehicle-Rail-Viaduct Coupled Dynamics. Applied Sciences (Switzerland), 2020, 10, 1889.	2.5	11
18	Output-Only Damage Detection of Shear Building Structures Using an Autoregressive Model-Enhanced Optimal Subpattern Assignment Metric. Sensors, 2020, 20, 2050.	3.8	7

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19	Acoustic Radiation and Dynamic Study of a Steel Beam Damped with Viscoelastic Material. KSCE Journal of Civil Engineering, 2020, 24, 2132-2146.	1.9	7
20	Investigation of Inclined Wellbore Stability Using Numerical Analysis. Lecture Notes in Civil Engineering, 2019, , 213-224.	0.4	0
21	Noise and Vibration Mitigation Performance of Damping Pad under CRTS-III Ballastless Track in High Speed Rail Viaduct. KSCE Journal of Civil Engineering, 2019, 23, 3525-3534.	1.9	15
22	Mono-Component Feature Extraction for Condition Assessment in Civil Structures Using Empirical Wavelet Transform. Sensors, 2019, 19, 4280.	3.8	7
23	Experimental and Numerical Investigation on the Ultimate Vertical Bearing Capacity of U-Shaped Girder with Damaged Web. Sensors, 2019, 19, 3735.	3.8	6
24	Investigation of the mechanical response of a deep-water drilling riser to ocean currents and waves. Advances in Mechanical Engineering, 2019, 11, 168781401881833.	1.6	6
25	Vibration Mitigation Effect Investigation of a New Slab Track Plate Design. Sensors, 2019, 19, 168.	3.8	9
26	A feasible study for the working mechanism and parameter optimization of the agitator. Advances in Mechanical Engineering, 2019, 11, 168781401984699.	1.6	1
27	Sealing Performance Analysis of an End Fitting for Marine Unbonded Flexible Pipes Based on Hydraulic-Thermal Finite Element Modeling. Energies, 2019, 12, 2198.	3.1	8
28	Substructural damage detection in shear structures via ARMAX model and optimal subpattern assignment distance. Engineering Structures, 2019, 191, 625-639.	5.3	22
29	Mechanical analysis of un-bonded flexible pipe tensile armor under combined loads. International Journal of Pressure Vessels and Piping, 2019, 171, 217-223.	2.6	9
30	A Study on a Mechanism of Lateral Pedestrian-Footbridge Interaction. Applied Sciences (Switzerland), 2019, 9, 5257.	2.5	4
31	The Rock Failure Behavior Analysis in Rock Cutting Using Finite Element Analysis. Lecture Notes in Civil Engineering, 2019, , 143-149.	0.4	1
32	Footbridge Serviceability Analysis: From System Identification to Tuned Mass Damper Implementation. KSCE Journal of Civil Engineering, 2019, 23, 754-762.	1.9	12
33	Investigation of the tool-rock interaction using Drucker-Prager failure criterion. Journal of Petroleum Science and Engineering, 2019, 173, 269-278.	4.2	57
34	Carriageâ€"Railâ€"Viaduct Coupling Analysis Using Dynamic Flexibility Method. , 2019, , 123-132.		0
35	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
36	Feasible Range for Midtower Lateral Stiffness in Three-Tower Suspension Bridges. Journal of Bridge Engineering, 2018, 23, .	2.9	20

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37	Applicability of Subspace Harmony Search Hybrid with Improved Deb Rule in Optimizing Trusses. Journal of Computing in Civil Engineering, 2018, 32, .	4.7	15
38	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
39	Large-scale structural optimization using metaheuristic algorithms with elitism and a filter strategy. Structural and Multidisciplinary Optimization, 2018, 57, 799-814.	3.5	17
40	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
41	Degradation of the In-plane Shear Modulus of Structural BFRP Laminates Due to High Temperature. Sensors, 2018, 18, 3361.	3.8	24
42	Looseness localization for bolted joints using Bayesian operational modal analysis and modal strain energy. Advances in Mechanical Engineering, 2018, 10, 168781401880869.	1.6	8
43	Granular flows in a rotating drum and on an inclined plane: Analytical and numerical solutions. Physics of Fluids, 2018, 30, .	4.0	6
44	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
45	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
46	Structural health monitoring of 3D frame structures using finite element modal analysis and genetic algorithm. Journal of Vibroengineering, 2018, 20, 202-214.	1.0	6
47	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
48	Structural Health Monitoring from Sensing to Processing. , 2018, , .		6
49	Damage detection in structures using frequency response functions ensemble with extended cosine based indicator. Journal of Physics: Conference Series, 2017, 843, 012021.	0.4	2
50	Cosine based and extended transmissibility damage indicators for structural damage detection. Engineering Structures, 2017, 141, 175-183.	5.3	45
51	Structural damage detection using transmissibility together with hierarchical clustering analysis and similarity measure. Structural Health Monitoring, 2017, 16, 711-731.	7.5	76
52	Damage localization and quantification of composite stratified beam Structures using residual force method. Journal of Physics: Conference Series, 2017, 842, 012028.	0.4	0
53	Delamination detection in laminated composite using Virtual crack closure technique (VCCT) and modal flexibility based on dynamic analysis. Journal of Physics: Conference Series, 2017, 842, 012084.	0.4	1
54	A proposal application based on strain energy for damage detection and quantification of beam composite structure using vibration data. Journal of Physics: Conference Series, 2017, 842, 012027.	0.4	2

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55	Output-Based Structural Damage Detection by Using Correlation Analysis Together with Transmissibility. Materials, 2017, 10, 866.	2.9	18
56	Review on structural damage assessment via transmissibility with vibration based measurements. Journal of Physics: Conference Series, 2017, 842, 012016.	0.4	3
57	Structural system identification by utilizing transmissibility coherence from limited measured data. Journal of Physics: Conference Series, 2017, 842, 012020.	0.4	0
58	Form-finding analysis of suspension bridges using an explicit Iterative approach. Structural Engineering and Mechanics, 2017, 62, 85-95.	1.0	26
59	Damage localization and quantification of composite beam structures using residual force and optimization. Journal of Vibroengineering, 2017, 19, 4977-4988.	1.0	4
60	Multiple damage detection in composite beams using Particle Swarm Optimization and Genetic Algorithm. Mechanika, 2017, 23, .	0.5	7
61	Damage detection using vibration data and dynamic transmissibility ensemble with auto-associative neural network. Mechanika, 2017, 23, .	0.5	17
62	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
63	Damage Detection and Quantification Using Transmissibility Coherence Analysis. Shock and Vibration, 2015, 2015, 1-16.	0.6	17
64	Single side damage simulations and detection in beam-like structures. Journal of Physics: Conference Series, 2015, 628, 012036.	0.4	5
65	Damage detection in structures using a transmissibility-based Mahalanobis distance. Structural Control and Health Monitoring, 2015, 22, 1209-1222.	4.0	41
66	Introductory Chapter: Some Insights into Bridge Structural Condition Monitoring. , 0, , .		0