Jianting Zhou

List of Publications by Year
in descending order

56	690	566801	610482
papers	citations	15	24
		h-index	g-index

57	57	57	352
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Non-Destructive Test of Steel Corrosion in Reinforced Concrete Bridges Using a Micro-Magnetic Sensor. Sensors, 2016, 16, 1439.	2.1	63
2	Bridge deformation prediction based on SHM data using improved VMD and conditional KDE. Engineering Structures, 2022, 261, 114285.	2.6	58
3	Bridge Structure Deformation Prediction Based on GNSS Data Using Kalman-ARIMA-GARCH Model. Sensors, 2018, 18, 298.	2.1	57
4	Quantitative Study on Corrosion of Steel Strands Based on Self-Magnetic Flux Leakage. Sensors, 2018, 18, 1396.	2.1	47
5	Concrete plastic-damage factor for finite element analysis: Concept, simulation, and experiment. Advances in Mechanical Engineering, 2017, 9, 168781401771964.	0.8	37
6	Health Monitoring and Evaluation of Long-Span Bridges Based on Sensing and Data Analysis: A Survey. Sensors, 2017, 17, 603.	2.1	27
7	Experimental analysis of the correlation between bending strength and SMFL of corroded RC beams. Construction and Building Materials, 2019, 214, 594-605.	3.2	27
8	An SMFL-based non-destructive quantification method for the localized corrosion cross-sectional area of rebar. Corrosion Science, 2021, 192, 109793.	3.0	22
9	Experimental Study on Corrosion of Unstressed Steel Strand based on Metal Magnetic Memory. KSCE Journal of Civil Engineering, 2019, 23, 1320-1329.	0.9	19
10	A new judging criterion for corrosion testing of reinforced concrete based on self-magnetic flux leakage. International Journal of Applied Electromagnetics and Mechanics, 2017, 54, 123-130.	0.3	18
11	Bearing Capacity Model of Corroded RC Eccentric Compression Columns Based on Hermite Interpolation and Fourier Fitting. Applied Sciences (Switzerland), 2019, 9, 24.	1.3	18
12	Statistical quantitative evaluation of bending strength of corroded RC beams via SMFL technique. Engineering Structures, 2020, 209, 110168.	2.6	18
13	Cable Tension Monitoring Based on the Elasto-Magnetic Effect and the Self-Induction Phenomenon. Materials, 2019, 12, 2230.	1.3	17
14	Autoregressive Model-Based Structural Damage Identification and Localization Using Convolutional Neural Networks. KSCE Journal of Civil Engineering, 2020, 24, 2173-2185.	0.9	17
15	Experimental Study on Residual Bending Strength of Corroded Reinforced Concrete Beam Based on Micromagnetic Sensor. Sensors, 2018, 18, 2635.	2.1	16
16	Relation between the shear stress distribution and the resulting acoustic emission variation in concrete beams. Structural Control and Health Monitoring, 2020, 27, e2528.	1.9	14
17	Damage Identification of Long-Span Bridges Using the Hybrid of Convolutional Neural Network and Long Short-Term Memory Network. Algorithms, 2021, 14, 180.	1.2	14
18	Fast identification of random loads using the transmissibility of power spectral density and improved adaptive multiplicative regularization. Journal of Sound and Vibration, 2022, 534, 117033.	2.1	14

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19	Research on Internal Force Detection Method of Steel Bar in Elastic and Yielding Stage Based on Metal Magnetic Memory. Materials, 2019, 12, 1167.	1.3	13
20	Relationship between shear-stress distribution and resulting acoustic-emission variation along concrete joints in prefabricated girder structures. Engineering Structures, 2019, 196, 109319.	2.6	11
21	Quantitative Evaluation of Corrosion Degrees of Steel Bars Based on Self-Magnetic Flux Leakage. Metals, 2019, 9, 952.	1.0	11
22	Fatigue Strain and Damage Analysis of Concrete in Reinforced Concrete Beams under Constant Amplitude Fatigue Loading. Shock and Vibration, 2016, 2016, 1-7.	0.3	10
23	Non-Destructive Testing of Steel Corrosion Fluctuation Parameters Based on Spontaneous Magnetic Flux Leakage and Its Relationship with Steel Bar Diameter. Materials, 2019, 12, 4116.	1.3	10
24	Corrosion non-destructive testing of loaded steel strand based on self-magnetic flux leakage effect. Nondestructive Testing and Evaluation, 2022, 37, 56-70.	1.1	10
25	Influence of cable tension history on the monitoring of cable tension using magnetoelastic inductance method. Structural Health Monitoring, 2021, 20, 3392-3405.	4.3	10
26	Research on Fatigue Strain and Fatigue Modulus of Concrete. Advances in Civil Engineering, 2017, 2017, 1-7.	0.4	8
27	Study of stiffness and bearing capacity degradation of reinforced concrete beams under constant-amplitude fatigue. PLoS ONE, 2018, 13, e0192797.	1.1	8
28	A New Method for Internal Force Detection of Steel Bars Covered by Concrete Based on the Metal Magnetic Memory Effect. Metals, 2019, 9, 661.	1.0	8
29	Cracking characteristics and pore development in concrete due to physical attack. Materials and Structures/Materiaux Et Constructions, 2020, 53, 1.	1.3	8
30	Alignment control for a long span urban rail-transit cable-stayed bridge considering dynamic train loads. Science China Technological Sciences, 2016, 59, 1759-1770.	2.0	7
31	Structural Behavior of Ultrahigh-Performance Fiber-Reinforced Concrete Thin-Walled Arch Subjected to Asymmetric Load. Advances in Civil Engineering, 2019, 2019, 1-12.	0.4	7
32	Quantitative Detection of Corroded Reinforced Concrete of Different Sizes Based on SMFL. KSCE Journal of Civil Engineering, 2022, 26, 143-154.	0.9	7
33	Study on the Shear Strength of Root-Soil Composite and Root Reinforcement Mechanism. Forests, 2022, 13, 898.	0.9	7
34	Study on Bending Performance of Epoxy Adhesive Prefabricated UHPC-Steel Composite Bridge Deck. Advances in Civil Engineering, 2021, 2021, 1-16.	0.4	6
35	Rock dynamic fracture of a novel semi-circular-disk specimen. International Journal of Rock Mechanics and Minings Sciences, 2022, 152, 105047.	2.6	5
36	Research on the Detection of the Broken Wire Damage of a Cable in the Circumferential Directions Based on Self-magnetic Flux Leakage. KSCE Journal of Civil Engineering, 2021, 25, 879-890.	0.9	4

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37	CORROSION DETECTION OF BRIDGE REINFORCED CONCRETE WITH INDUCTION HEATING AND INFRARED THERMOGRAPHY. International Journal of Robotics and Automation, 2018, 33, .	0.1	4
38	Research on Corrosion Circumferential Area Characterization for Steel Cable Bundle Based on Metal Magnetic Memory. Journal of Materials Engineering and Performance, 2022, 31, 2732-2742.	1.2	4
39	Theoretical analysis and experimental verification of magneto-mechanical effect for loaded ferromagnetic structure with initial corrosion. Journal of Magnetism and Magnetic Materials, 2022, 559, 169541.	1.0	4
40	Operational modal analysis of rigid frame bridge with data from navigation satellite system measurements. Cluster Computing, 2019, 22, 5535-5545.	3.5	3
41	Characteristics of Typhoon â€œFung-Wongâ€•Near Earth Pulsation. Shock and Vibration, 2021, 2021, 1-12.	0.3	3
42	Seismic Analysis Method for Underground Structure in Loess Area Based on the Modified Displacement-Based Method. Applied Sciences (Switzerland), 2021, 11, 11245.	1.3	3
43	Experiment on the Segment Model of a Plain Concrete Arch Bridge Reinforced with UHPC Composite Arch Circle. Advances in Civil Engineering, 2020, 2020, 1-14.	0.4	2
44	Parameters That Influence Corrosion Detection in Reinforced Concrete Based on Eddy Current Thermography. Advances in Civil Engineering, 2020, 2020, 1-9.	0.4	2
45	Structural analysis and improvement for a new form traveler in long-span cantilever-casting arch bridge. Advances in Mechanical Engineering, 2021, 13, 168781402110099.	0.8	2
46	EXPERIMENTAL STUDY ON DETECTION OF REBAR CORROSION IN CONCRETE BASED ON METAL MAGNETIC MEMORY. International Journal of Robotics and Automation, 2017, 32, .	0.1	2
47	Aerodynamic Forces on a Bluff Cylinder in Sinusoidal Streamwise Winds with Different Angles of Attack. Buildings, 2022, 12, 1033.	1.4	2
48	Permanent deformation limits of long-span track cable-stayed bridges based on service performance analysis. Journal of Low Frequency Noise Vibration and Active Control, 2020, , 146134842097012.	1.3	1
49	A Study on the Performance Evaluation of the Corroded Steel Cable by Safety Factor Based on the Strength Condition. Journal of Materials Engineering and Performance, 2020, 29, 2227-2234.	1.2	1
50	Linear Control Method for Arch Ring of Oblique-Stayed Buckle Cantilever Pouring Reinforced Concrete Arch Bridge. Advances in Civil Engineering, 2021, 2021, 1-14.	0.4	1
51	Stress Measurement of Steel Strands Based on System Identification Method. Shock and Vibration, 2019, 2019, 1-10.	0.3	1
52	Experimental Study on Bearing Capacity of Corroded Reinforced Concrete Arch Considering Material Degradation. Frontiers in Materials, 2022, 9, .	1.2	1
53	Train-Bridge Dynamic Behaviour of Long-Span Asymmetrical-Stiffness Cable-Stayed Bridge. Shock and Vibration, 2021, 2021, 1-15.	0.3	0
54	Magnetic memory detection of corroded reinforced concrete considering the influence of tensile load. International Journal of Applied Electromagnetics and Mechanics, 2022, 68, 483-499.	0.3	0

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55	Design and Experiment of an Automatic Temperature Control Device of Composite Shape-Stabilized Phase Change Material for Concrete Box Bridges. KSCE Journal of Civil Engineering, 2022, 26, 806-823.	0.9	0
56	Initiation and Fracture Characteristics of Different Width Cracks of Concretes under Compressional Loading. Applied Sciences (Switzerland), 2022, 12, 4803.	1.3	0