Jie Xu

List of Publications by Year in descending order

46 papers	1,374 citations	304602 22 h-index	345118 36 g-index
46 all docs	46 docs citations	46 times ranked	974 citing authors

#	Article	IF	Citations
1	Research on the feasibility of visual measurement using firstâ€person perspective based on smartphones. Computer-Aided Civil and Infrastructure Engineering, 2023, 38, 104-118.	6.3	3
2	Structure of Rift Valley Fever Virus RNA-Dependent RNA Polymerase. Journal of Virology, 2022, 96, JVI0171321.	1.5	13
3	Damage identification of single-layer cylindrical latticed shells based on the model updating technique. Journal of Civil Structural Health Monitoring, 2022, 12, 289-303.	2.0	3
4	A novel and robust data anomaly detection framework using LAL-AdaBoost for structural health monitoring. Journal of Civil Structural Health Monitoring, 2022, 12, 305-321.	2.0	7
5	Detection and Location of Steel Structure Surface Cracks Based on Unmanned Aerial Vehicle Images. Journal of Building Engineering, 2022, 50, 104098.	1.6	16
6	J-R curve determination of G20Mn5QT cast steel using CT specimen with varying in-plane and out-of-plane constraints based on normalization method and GTN model. Journal of Materials Research and Technology, 2022, 18, 3502-3519.	2.6	3
7	Temperature-based anomaly diagnosis of truss structure using Markov chain-Monte Carlo method. Journal of Civil Structural Health Monitoring, 2022, 12, 705-724.	2.0	3
8	Damage Diagnosis of Single-Layer Latticed Shell Based on Temperature-Induced Strain under Bayesian Framework. Sensors, 2022, 22, 4251.	2.1	1
9	NiS/Ni3S2@NiWO4 nanoarrays towards all-solid-state hybrid supercapacitor with record-high energy density. Science China Materials, 2021, 64, 852-860.	3.5	23
10	Structural health monitoring research under varying temperature condition: a review. Journal of Civil Structural Health Monitoring, 2021, 11, 149-173.	2.0	72
11	Blockchain technology and smart contract for civil structural health monitoring system. Computer-Aided Civil and Infrastructure Engineering, 2021, 36, 1288-1305.	6.3	24
12	Inside Front Cover: Volume 2 Issue 2. SmartMat, 2021, 2, iii.	6.4	0
13	Structural engineering of graphene for highâ€resolution cryoâ€electron microscopy. SmartMat, 2021, 2, 202-212.	6.4	24
14	Recognition and location of steel structure surface corrosion based on unmanned aerial vehicle images. Journal of Civil Structural Health Monitoring, 2021, 11, 1375-1392.	2.0	14
15	An outstanding journal for intelligent infrastructure. Computer-Aided Civil and Infrastructure Engineering, 2021, 36, 1363.	6.3	0
16	Atomically Thin Bilayer Janus Membranes for Cryo-electron Microscopy. ACS Nano, 2021, 15, 16562-16571.	7.3	5
17	Mechanical properties and acoustic emission data analyses of crumb rubber concrete under biaxial compression stress states. Construction and Building Materials, 2021, 298, 123778.	3.2	30
18	Mechanical properties and damage analysis of rubber cement mortar mixed with ceramic waste aggregate based on acoustic emission monitoring technology. Construction and Building Materials, 2021, 309, 125084.	3.2	18

#	Article	IF	Citations
19	A particle swarm optimizationâ€“support vector machine hybrid system with acoustic emission on damage degree judgment of carbon fiber reinforced polymer cables. Structural Health Monitoring, 2021, 20, 1551-1562.	4.3	23
20	Support condition monitoring of offshore wind turbines using model updating techniques. Structural Health Monitoring, 2020, 19, 1017-1031.	4.3	24
21	Fracture toughness research of G20Mn5QT cast steel based on the acoustic emission technique. Construction and Building Materials, 2020, 230, 116904.	3.2	15
22	Experimental study on performance improvement of anionic surfactant foaming agent by xanthan gum. Construction and Building Materials, 2020, 230, 116993.	3.2	23
23	Recognition of rust grade and rust ratio of steel structures based on ensembled convolutional neural network. Computer-Aided Civil and Infrastructure Engineering, 2020, 35, 1160-1174.	6.3	32
24	Nanomanufacturing of RGOâ€CNT Hybrid Film for Flexible Aqueous Alâ€ion Batteries. Small, 2020, 16, e2002856.	5.2	28
25	Mechanical properties of pultruded high-temperature-resistant carbon-fiber-reinforced polymer tendons at elevated temperatures. Construction and Building Materials, 2020, 258, 119526.	3.2	16
26	Research on the Scope of Spectral Width Parameter of Frequency Domain Methods in Random Fatigue. Applied Sciences (Switzerland), 2020, 10, 4715.	1.3	6
27	Acoustic emission data analyses based on crumb rubber concrete beam bending tests. Engineering Fracture Mechanics, 2019, 210, 189-202.	2.0	92
28	A new frequency domain method for random fatigue life estimation in a wideâ€band stationary <scp>G</scp>aussian random process. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 97-113.	1.7	20
29	A generalized method to predict the compressive strength of high-performance concrete by improved random forest algorithm. Construction and Building Materials, 2019, 226, 734-742.	3.2	220
30	Fracture monitoring and damage pattern recognition for carbon nanotubeâ€crumb rubber mortar using acoustic emission techniques. Structural Control and Health Monitoring, 2019, 26, e2422.	1.9	14
31	Microporous structures and compressive strength of high-performance rubber concrete with internal curing agent. Construction and Building Materials, 2019, 215, 128-134.	3.2	51
32	Micro-cracking monitoring and fracture evaluation for crumb rubber concrete based on acoustic emission techniques. Structural Health Monitoring, 2018, 17, 946-958.	4.3	82
33	Experimental research on bond behavior of reinforced recycled aggregate concrete based on the acoustic emission technique. Construction and Building Materials, 2018, 191, 1230-1241.	3.2	30
34	Research on anti-chloride ion penetration property of crumb rubber concrete at different ambient temperatures. Construction and Building Materials, 2018, 189, 42-53.	3.2	50
35	Experimental study on the relationship between acoustic emission energy and fracture energy of crumb rubber concrete. Structural Control and Health Monitoring, 2018, 25, e2240.	1.9	32
36	Test and numerical simulation of large angle wedge type of anchorage using transverse enhanced CFRP tendons for beam string structure. Construction and Building Materials, 2017, 144, 225-237.	3.2	31

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37	Effect of chamfering of cable clamp plate on shear behaviour of CFRP tendons. Construction and Building Materials, 2016, 113, 324-333.	3.2	7
38	Experimental and numerical study on static behavior of elastic concrete-steel composite beams. Journal of Constructional Steel Research, 2016, 123, 79-92.	1.7	42
39	Fatigue behaviour of G20Mn5QT cast steel and butt welds with Q345B steel. International Journal of Steel Structures, 2016, 16, 139-149.	0.6	25
40	Experimental research on fracture behaviors of damaged CFRP tendons: Fracture mode and failure analysis. Construction and Building Materials, 2016, 112, 1013-1024.	3.2	18
41	Fatigue behavior of stud shear connectors in steel and recycled tyre rubber-filled concrete composite beams. Steel and Composite Structures, 2016, 22, 353-368.	1.3	11
42	Localization of acoustic emission sources in structural health monitoring of masonry bridge. Structural Control and Health Monitoring, 2015, 22, 314-329.	1.9	100
43	Static behavior of stud shear connectors in elastic concreteâ€“steel composite beams. Journal of Constructional Steel Research, 2015, 113, 115-126.	1.7	78
44	Post-failure behavior of tunnel heading collapse by MPM simulation. Science China Technological Sciences, 2015, 58, 2139-2152.	2.0	14
45	Experimental research on mechanical properties of transverse enhanced and high-temperature-resistant CFRP tendons for prestressed structure. Construction and Building Materials, 2015, 98, 864-874.	3.2	23
46	Fractal analysis and yule statistics for seismic prediction based on 2009 Lâ€™Aquila earthquake in Italy. Arabian Journal of Geosciences, 2015, 8, 2457-2465.	0.6	8