

Zhiqiang Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50
papers

844
citations

12
h-index

28
g-index

59
ext. papers

1,047
ext. citations

3
avg, IF

4.73
L-index

#	Paper	IF	Citations
50	A Virtual Reality Environment for Developing and Testing Autonomous UAV-Based Structural Inspection. <i>Lecture Notes in Civil Engineering</i> , 2023 , 527-535	0.3	0
49	Roles of Remote Sensing Technologies for Disaster Resilience 2022 , 121-159		
48	Experimental and numerical assessment of scoured bridges with protective bonded steel plates against vessel impact. <i>Engineering Structures</i> , 2021 , 113628	4.7	0
47	Understanding Natural Disaster Scenes from Mobile Images Using Deep Learning. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3952	2.6	1
46	Mobile Hyperspectral Imaging for Material Surface Damage Detection. <i>Journal of Computing in Civil Engineering</i> , 2021 , 35, 04020057	5	2
45	Lifetime Resilience Measurement of River-Crossing Bridges with Scour Countermeasures under Multiple Hazards. <i>Journal of Engineering Mechanics - ASCE</i> , 2021 , 147, 04021058	2.4	1
44	Geometric Attention Regularization Enhancing Convolutional Neural Networks for Bridge Rubber Bearing Damage Assessment. <i>Journal of Performance of Constructed Facilities</i> , 2021 , 35, 04021061	2	1
43	Mainshock-Integrated Aftershock Vulnerability Assessment of Bridge Structures. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6843	2.6	1
42	Nonlinear Dynamic Response and Assessment of Bridges under Barge Impact with Scour Depth Effects. <i>Journal of Performance of Constructed Facilities</i> , 2020 , 34, 04020058	2	3
41	Dynamic performance and damage evaluation of a scoured double-pylon cable-stayed bridge under ship impact. <i>Engineering Structures</i> , 2020 , 216, 110772	4.7	10
40	Spatial Path Energy Optimization for UAV Operation in Aerial Ground Networking. <i>Journal of Computing in Civil Engineering</i> , 2020 , 34, 04020008	5	1
39	Probabilistic Resilience Measurement for Rural Electric Distribution System Affected by Hurricane Events. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2020 , 6, 04020021	1.7	5
38	Scale Space Data Augmentation for Deep Transfer Learning of Crack Damage from Small Sized Datasets. <i>Journal of Nondestructive Evaluation</i> , 2020 , 39, 1	2.1	5
37	Development of Tactile Imaging for Underwater Structural Damage Detection. <i>Sensors</i> , 2019 , 19,	3.8	2
36	Development of Radio-Frequency Sensor Wake-Up with Unmanned Aerial Vehicles as an Aerial Gateway. <i>Sensors</i> , 2019 , 19,	3.8	9
35	Zernike-moment measurement of thin-crack width in images enabled by dual-scale deep learning. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2019 , 34, 367-384	8.4	56
34	Pixel-level crack delineation in images with convolutional feature fusion. <i>Structural Control and Health Monitoring</i> , 2019 , 26, e2286	4.5	76

33	Scour-dependent empirical fragility modelling of bridge structures under earthquakes. <i>Advances in Structural Engineering</i> , 2019 , 22, 1384-1398	1.9	8
32	Experimental investigation of aerial-ground network communication towards geospatially large-scale structural health monitoring. <i>Journal of Civil Structural Health Monitoring</i> , 2018 , 8, 823-832	2.9	5
31	Lifecycle Multihazard Framework for Assessing Flood Scour and Earthquake Effects on Bridge Failure. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2016 , 2,	1.7	20
30	Experimental and Finite Element Analytical Investigation of Seismic Behavior of Full-Scale Masonry Infilled RC Frames. <i>Journal of Earthquake Engineering</i> , 2016 , 20, 1171-1198	1.8	34
29	Dimensional Analysis of the Pounding Response of an Oscillator Considering Contact Duration. <i>Journal of Engineering Mechanics - ASCE</i> , 2015 , 141, 04014138	2.4	8
28	Collaborative Mobile-Cloud Computing for Civil Infrastructure Condition Inspection. <i>Journal of Computing in Civil Engineering</i> , 2015 , 29, 04014066	5	11
27	Multi-Hazard Life-Cycle Analysis of Flood-Scour Effects on Seismic Bridge Performance 2015 ,		3
26	The damage investigation of inelastic SDOF structure under the mainshock-aftershock sequence-type ground motions. <i>Soil Dynamics and Earthquake Engineering</i> , 2014 , 59, 30-41	3.5	65
25	Mobile Imaging and Computing for Intelligent Structural Damage Inspection. <i>Advances in Civil Engineering</i> , 2014 , 2014, 1-14	1.3	3
24	Damage spectra for the mainshock-aftershock sequence-type ground motions. <i>Soil Dynamics and Earthquake Engineering</i> , 2013 , 45, 1-12	3.5	72
23	Seismic soil-foundation-structure interaction observed in geotechnical centrifuge experiments. <i>Soil Dynamics and Earthquake Engineering</i> , 2013 , 48, 162-174	3.5	59
22	Nonlinear dynamic foundation and frame structure response observed in geotechnical centrifuge experiments. <i>Soil Dynamics and Earthquake Engineering</i> , 2013 , 50, 117-133	3.5	39
21	Seismic System Identification Using Centrifuge-based Soil-Structure Interaction Test Data. <i>Journal of Earthquake Engineering</i> , 2013 , 17, 469-496	1.8	10
20	Quantitative Identification of Near-Fault Pulse-Like Ground Motions Based on Energy. <i>Bulletin of the Seismological Society of America</i> , 2013 , 103, 2591-2603	2.3	66
19	Optical techniques for multiscale damage assessment. <i>Geomatics, Natural Hazards and Risk</i> , 2013 , 4, 49-70	3.0	31
18	SAVEUS: SAVING Victims in Earthquakes through Unified Systems. <i>International Journal of Communication Networks and Distributed Systems</i> , 2013 , 10, 402	0.4	2
17	Failure Risk of 230 kV Electricity Transmission Lines in South Carolina under Hurricane Wind Hazards 2012 ,		3
16	Seismic Spectra and Response Analysis for Raised Access Floor and Computer Equipment Systems Considering Vertical Ground Motions 2012 ,		1

15	Structural damage detection using bi-temporal optical satellite images. <i>International Journal of Remote Sensing</i> , 2011 , 32, 4973-4997	3.1	5
14	A texture-based method for classifying cracked concrete surfaces from digital images using neural networks 2011 ,		6
13	Image-Based Framework for Concrete Surface Crack Monitoring and Quantification. <i>Advances in Civil Engineering</i> , 2010 , 2010, 1-18	1.3	25
12	Effects of Foundation Configuration Variation on Seismic Response of Moment-Frame Buildings 2010 ,		1
11	Probabilistic Urban Structural Damage Classification Using Bitemporal Satellite Images. <i>Earthquake Spectra</i> , 2010 , 26, 87-109	3.4	11
10	A Probabilistic Classification Framework for Urban Structural Damage Estimation Using Satellite Images 2007 ,		2
9	Urban Damage Estimation Using Statistical Processing of Satellite Images. <i>Journal of Computing in Civil Engineering</i> , 2007 , 21, 187-199	5	10
8	Empirical evaluation of dissimilarity measures for use in urban structural damage detection 2007 ,		1
7	Application of PDE methods for image-based concrete surface damage detection 2007 ,		1
6	Improved Image Analysis for Evaluating Concrete Damage. <i>Journal of Computing in Civil Engineering</i> , 2006 , 20, 210-216	5	148
5	Optimized Estimated Ground Truth for Object-Based Urban Damage Estimation Using Satellite Images from the 2003 Bam, Iran, Earthquake. <i>Earthquake Spectra</i> , 2005 , 21, 239-254	3.4	9
4	Urban damage estimation using statistical processing of satellite images: 2003 Bam, Iran earthquake 2005 , 5667, 289		5
3	Deep learning-based condition assessment for bridge elastomeric bearings. <i>Journal of Civil Structural Health Monitoring</i> , 1	2.9	
2	Level-of-detail Assessment of Structural Surface Damage using Spatially Sequential Stereo Images and Deep Learning Methods		3
1	Development of A Radio-Frequency Sensor Wake-up Method for Wireless Aerial-Ground Sensing		2