

Lei Lu

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,686
citations

279701

23
h-index

276775

41
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46
all docs

46
docs citations

46
times ranked

1276
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation on the mapping for temperature-induced responses of a long-span steel truss arch bridge. <i>Structure and Infrastructure Engineering</i> , 2024, 20, 232-249.	2.0	9
2	Fatigue life evaluation model for high-strength steel wire considering different levels of corrosion. <i>Structure and Infrastructure Engineering</i> , 2023, 19, 409-419.	2.0	6
3	Predictive model for fatigue life in parallel-wire stay cables considering corrosion variability. <i>Structure and Infrastructure Engineering</i> , 2023, 19, 964-977.	2.0	2
4	Fatigue life updating of embedded miter gate anchorages of navigation locks using full-scale laboratory testing. <i>Structure and Infrastructure Engineering</i> , 2023, 19, 1299-1315.	2.0	2
5	Generalized optimal design of multiple tuned inerter dampers for control of MDOF structures under stochastic seismic excitation. <i>Structural Control and Health Monitoring</i> , 2022, 29, e2853.	1.9	17
6	Visual inertial structural acceleration measurement. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2022, 37, 1146-1159.	6.3	8
7	A novel approach to assess the seismic performance of deteriorated bridge structures by employing UAV-based damage detection. <i>Structural Control and Health Monitoring</i> , 2022, 29, .	1.9	9
8	Wireless SmartVision system for synchronized displacement monitoring of railroad bridges. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2022, 37, 1070-1088.	6.3	20
9	Homography-based structural displacement measurement for large structures using unmanned aerial vehicles. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2021, 36, 1114-1128.	6.3	52
10	Simultaneous optimization of topology and supplemental damping distribution for buildings subjected to stochastic excitation. <i>Structural Control and Health Monitoring</i> , 2021, 28, e2737.	1.9	7
11	Vision-based automated bridge component recognition with high-level scene consistency. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2020, 35, 465-482.	6.3	67
12	Simulating offset blast loads experimentally using shake table-generated ground motions: Method development and validation. <i>Structural Control and Health Monitoring</i> , 2020, 27, e2480.	1.9	2
13	Modified model-based control of shake tables for online acceleration tracking. <i>Earthquake Engineering and Structural Dynamics</i> , 2020, 49, 1721-1737.	2.5	18
14	Energy-consistent integration method and its application to hybrid testing. <i>Earthquake Engineering and Structural Dynamics</i> , 2020, 49, 415-433.	2.5	8
15	Automated modal identification using principal component and cluster analysis: Application to a long-span cable-stayed bridge. <i>Structural Control and Health Monitoring</i> , 2019, 26, e2430.	1.9	69
16	Sensor fault management techniques for wireless smart sensor networks in structural health monitoring. <i>Structural Control and Health Monitoring</i> , 2019, 26, e2362.	1.9	34
17	Damage detection in shear buildings using different estimated curvature. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2050.	1.9	14
18	Automated damage detection in miter gates of navigation locks. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2053.	1.9	24

#	ARTICLE	IF	CITATIONS
19	Structural Displacement Measurement Using an Unmanned Aerial System. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2018, 33, 183-192.	6.3	159
20	Visual-inertial displacement sensing using data fusion of vision-based displacement with acceleration. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2122.	1.9	49
21	Free vibration-based system identification using temporal cross-correlations. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2207.	1.9	11
22	Reference-free structural dynamic displacement estimation method. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2209.	1.9	36
23	Consequence-based management of railroad bridge networks. <i>Structure and Infrastructure Engineering</i> , 2017, 13, 273-286.	2.0	19
24	Axial Strain Accelerations Approach for Damage Localization in Statically Determinate Truss Structures. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2017, 32, 304-318.	6.3	23
25	Inertial mass damper for mitigating cable vibration. <i>Structural Control and Health Monitoring</i> , 2017, 24, e1986.	1.9	87
26	Optimization of Structures Subject to Stochastic Dynamic Loading. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2017, 32, 657-673.	6.3	58
27	Traffic Safety Evaluation for Railway Bridges Using Expanded Multisensor Data Fusion. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2016, 31, 749-760.	6.3	26
28	Forward-Backward Approach for 3D Event Localization Using Commodity Smartphones for Ubiquitous Context-Aware Applications in Civil and Infrastructure Engineering. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2016, 31, 245-260.	6.3	5
29	Target-free approach for vision-based structural system identification using consumer-grade cameras. <i>Structural Control and Health Monitoring</i> , 2016, 23, 1405-1416.	1.9	196
30	Efficient time synchronization for structural health monitoring using wireless smart sensor networks. <i>Structural Control and Health Monitoring</i> , 2016, 23, 470-486.	1.9	60
31	Real-time hybrid testing with equivalent force control method incorporating Kalman filter. <i>Structural Control and Health Monitoring</i> , 2016, 23, 735-748.	1.9	12
32	System identification of a historic swing truss bridge using a wireless sensor network employing orientation correction. <i>Structural Control and Health Monitoring</i> , 2015, 22, 255-272.	1.9	30
33	Design, simulation, and large-scale testing of an innovative vibration mitigation device employing essentially nonlinear elastomeric springs. <i>Earthquake Engineering and Structural Dynamics</i> , 2014, 43, 1829-1851.	2.5	34
34	Deformation Capacity and Performance-Based Seismic Design for Reinforced Concrete Coupling Beams. <i>Journal of Asian Architecture and Building Engineering</i> , 2014, 13, 203-208.	1.2	3
35	Development of a Wireless Displacement Measurement System Using Acceleration Responses. <i>Sensors</i> , 2013, 13, 8377-8392.	2.1	75
36	Full-scale experimental validation of decentralized damage identification using wireless smart sensors. <i>Smart Materials and Structures</i> , 2012, 21, 115019.	1.8	12

#	ARTICLE	IF	CITATIONS
37	Vibration Control using Harmonically-Varying Damping. Journal of System Design and Dynamics, 2011, 5, 727-736.	0.3	3
38	Post-earthquake modelling of transportation networks. Structure and Infrastructure Engineering, 2011, , 1-19.	2.0	16
39	Active base isolation of buildings subjected to seismic excitations. Earthquake Engineering and Structural Dynamics, 2010, 39, 1493-1512.	2.5	37
40	A new passive rollingâ€pendulum vibration absorber using a nonâ€axialâ€symmetrical guide to achieve bidirectional tuning. Earthquake Engineering and Structural Dynamics, 2009, 38, 1729-1750.	2.5	34
41	Semiactive control strategy for a phase II smart base isolated benchmark building. Structural Control and Health Monitoring, 2008, 15, 673-696.	1.9	15
42	Semi-active neurocontrol of a base-isolated benchmark structure. Structural Control and Health Monitoring, 2006, 13, 682-692.	1.9	46
43	Application of some semi-active control algorithms to a smart base-isolated building employing MR dampers. Structural Control and Health Monitoring, 2006, 13, 693-704.	1.9	68
44	Risk monitoring of buildings with wireless sensor networks. Structural Control and Health Monitoring, 2005, 12, 315-327.	1.9	76
45	Hybrid control systems for seismic protection of a phase II benchmark cable-stayed bridge. Structural Control and Health Monitoring, 2003, 10, 231-247.	0.4	21
46	Semiactive Damping of Cables with Sag. Computer-Aided Civil and Infrastructure Engineering, 2003, 18, 132-146.	6.3	107