

# Lei Lu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3230637/publications.pdf>

Version: 2024-02-01

46  
papers

1,686  
citations

279487

23  
h-index

276539

41  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1276  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Structural Displacement Measurement Using an Unmanned Aerial System. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2018, 33, 183-192.	6.3	159
3	Semiactive Damping of Cables with Sag. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2003, 18, 132-146.	6.3	107
4	Inertial mass damper for mitigating cable vibration. <i>Structural Control and Health Monitoring</i> , 2017, 24, e1986.	1.9	87
5	Risk monitoring of buildings with wireless sensor networks. <i>Structural Control and Health Monitoring</i> , 2005, 12, 315-327.	1.9	76
6	Development of a Wireless Displacement Measurement System Using Acceleration Responses. <i>Sensors</i> , 2013, 13, 8377-8392.	2.1	75
7	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
8	Application of some semi-active control algorithms to a smart base-isolated building employing MR dampers. <i>Structural Control and Health Monitoring</i> , 2006, 13, 693-704.	1.9	68
9	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
10	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
11	Optimization of Structures Subject to Stochastic Dynamic Loading. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2017, 32, 657-673.	6.3	58
12	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
13	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
14	Semi-active neurocontrol of a base-isolated benchmark structure. <i>Structural Control and Health Monitoring</i> , 2006, 13, 682-692.	1.9	46
15	Active base isolation of buildings subjected to seismic excitations. <i>Earthquake Engineering and Structural Dynamics</i> , 2010, 39, 1493-1512.	2.5	37
16	Reference-free structural dynamic displacement estimation method. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2209.	1.9	36
17	A new passive rolling pendulum vibration absorber using a non-axial symmetrical guide to achieve bidirectional tuning. <i>Earthquake Engineering and Structural Dynamics</i> , 2009, 38, 1729-1750.	2.5	34
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Automated damage detection in miter gates of navigation locks. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2053.	1.9	24
23	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
24	Hybrid control systems for seismic protection of a phase II benchmark cable-stayed bridge. <i>Structural Control and Health Monitoring</i> , 2003, 10, 231-247.	0.4	21
25	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
26	Consequence-based management of railroad bridge networks. <i>Structure and Infrastructure Engineering</i> , 2017, 13, 273-286.	2.0	19
27	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
28	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
29	Post-earthquake modelling of transportation networks. <i>Structure and Infrastructure Engineering</i> , 2011, , 1-19.	2.0	16
30	Semiactive control strategy for a phase II smart base isolated benchmark building. <i>Structural Control and Health Monitoring</i> , 2008, 15, 673-696.	1.9	15
31	Damage detection in shear buildings using different estimated curvature. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2050.	1.9	14
32	Full-scale experimental validation of decentralized damage identification using wireless smart sensors. <i>Smart Materials and Structures</i> , 2012, 21, 115019.	1.8	12
33	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
34	Free vibration-based system identification using temporal cross-correlations. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2207.	1.9	11
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Energy-consistent integration method and its application to hybrid testing. Earthquake Engineering and Structural Dynamics, 2020, 49, 415-433.	2.5	8
38	Visual-inertial structural acceleration measurement. Computer-Aided Civil and Infrastructure Engineering, 2022, 37, 1146-1159.	6.3	8
39	Simultaneous optimization of topology and supplemental damping distribution for buildings subjected to stochastic excitation. Structural Control and Health Monitoring, 2021, 28, e2737.	1.9	7
40	Fatigue life evaluation model for high-strength steel wire considering different levels of corrosion. Structure and Infrastructure Engineering, 2023, 19, 409-419.	2.0	6
41	Forward-Backward Approach for 3D Event Localization Using Commodity Smartphones for Ubiquitous Context-Aware Applications in Civil and Infrastructure Engineering. Computer-Aided Civil and Infrastructure Engineering, 2016, 31, 245-260.	6.3	5
42	Vibration Control using Harmonically-Varying Damping. Journal of System Design and Dynamics, 2011, 5, 727-736.	0.3	3
43	Deformation Capacity and Performance-Based Seismic Design for Reinforced Concrete Coupling Beams. Journal of Asian Architecture and Building Engineering, 2014, 13, 203-208.	1.2	3
44	Simulating offset blast loads experimentally using shake-table-generated ground motions: Method development and validation. Structural Control and Health Monitoring, 2020, 27, e2480.	1.9	2
45	Predictive model for fatigue life in parallel-wire stay cables considering corrosion variability. Structure and Infrastructure Engineering, 2023, 19, 964-977.	2.0	2
46	Fatigue life updating of embedded miter gate anchorages of navigation locks using full-scale laboratory testing. Structure and Infrastructure Engineering, 2023, 19, 1299-1315.	2.0	2