

# Lu-yu Li

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

550  
citations

687363

13  
h-index

713466

21  
g-index

46  
all docs

46  
docs citations

46  
times ranked

545  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of Wireless MEMS Inclination Sensor System for Swing Monitoring of Large-Scale Hook Structures. IEEE Transactions on Industrial Electronics, 2009, 56, 1072-1078.	7.9	66
2	Hybrid active mass damper (AMD) vibration suppression of nonlinear high-rise structure using fuzzy logic control algorithm under earthquake excitations. Structural Control and Health Monitoring, 2011, 18, 698-709.	4.0	48
3	Vibration control of a traffic signal pole using a pounding tuned mass damper with viscoelastic materials (II): experimental verification. JVC/Journal of Vibration and Control, 2015, 21, 670-675.	2.6	48
4	Novel Design Approach of a Nonlinear Tuned Mass Damper with Duffing Stiffness. Journal of Engineering Mechanics - ASCE, 2017, 143, .	2.9	27
5	Effect of inerter for seismic mitigation comparing with base isolation. Structural Control and Health Monitoring, 2019, 26, e2409.	4.0	27
6	Study on an improved variable stiffness tuned mass damper based on conical magnetorheological elastomer isolators. Smart Materials and Structures, 2017, 26, 105028.	3.5	23
7	A nonlinear model of magnetorheological elastomer with wide amplitude range and variable frequencies. Smart Materials and Structures, 2017, 26, 065010.	3.5	19
8	Wireless Sensing and Vibration Control With Increased Redundancy and Robustness Design. IEEE Transactions on Cybernetics, 2014, 44, 2076-2087.	9.5	18
9	Design of Nonlinear Tuned Mass Damper by Using the Harmonic Balance Method. Journal of Engineering Mechanics - ASCE, 2020, 146, 04020056.	2.9	16
10	Swinging motion control of suspended structures: Principles and applications. Structural Control and Health Monitoring, 2009, 17, n/a-n/a.	4.0	15
11	Semiactive Control of Structural Nonlinear Vibration Considering the MR Damper Model. Journal of Aerospace Engineering, 2018, 31, .	1.4	15
12	Analytical analysis for the design of nonlinear tuned mass damper. JVC/Journal of Vibration and Control, 2020, 26, 646-658.	2.6	15
13	Wind-induced vibration control of a constructing bridge tower with MRE variable stiffness tuned mass damper. Smart Materials and Structures, 2020, 29, 045034.	3.5	15
14	Mechanical modeling for magnetorheological elastomer isolators based on constitutive equations and electromagnetic analysis. Smart Materials and Structures, 2018, 27, 065017.	3.5	13
15	Bidirectional wind response control of 76-story benchmark building using active mass damper with a rotating actuator. Structural Control and Health Monitoring, 2018, 25, e2216.	4.0	13
16	Equivalent Linearization Methods for a Control System with Clutching Inerter Damper. Applied Sciences (Switzerland), 2019, 9, 688.	2.5	12
17	Adaptive fuzzy sliding mode based active vibration control of a smart beam with mass uncertainty. Structural Control and Health Monitoring, 2009, 18, n/a-n/a.	4.0	11
18	DNN Based Fault Tolerant Control of Nonlinear Structural Vibration with Actuator Faults. Advances in Structural Engineering, 2011, 14, 871-879.	2.4	11

#	ARTICLE	IF	CITATIONS
19	An active mass damper using rotating actuator for structural vibration control. <i>Advances in Mechanical Engineering</i> , 2016, 8, 168781401665773.	1.6	10
20	Seismic Assessment and Optimal Design for Structures with Clutching Inerter Dampers. <i>Journal of Engineering Mechanics - ASCE</i> , 2020, 146, 04020016.	2.9	10
21	Fully coupled time-domain simulation of dynamic positioning semi-submersible platform using dynamic surface control. <i>Journal of Ocean University of China</i> , 2014, 13, 407-414.	1.2	8
22	Experimental study of wireless structural vibration control considering different time delays. <i>Smart Materials and Structures</i> , 2015, 24, 045005.	3.5	8
23	Optimal design for a novel inerter-based clutching tuned mass damper system. <i>JVC/Journal of Vibration and Control</i> , 2020, 26, 2050-2059.	2.6	8
24	A new approach to deal with sensor errors in structural controls with MR damper. <i>Smart Structures and Systems</i> , 2015, 16, 329-345.	1.9	8
25	Coupled control of the horizontal and vertical plane motions of a semi-submersible platform by a dynamic positioning system. <i>Journal of Marine Science and Technology</i> , 2015, 20, 776-786.	2.9	7
26	Adaptive UKF-Based Parameter Estimation for Bouc-Wen Model of Magnetorheological Elastomer Materials. <i>Journal of Aerospace Engineering</i> , 2019, 32, .	1.4	7
27	Seismic analysis of the tuned inerter-damper enhanced mega-sub structure system. <i>Structural Control and Health Monitoring</i> , 2021, 28, e2658.	4.0	7
28	An UKF-based nonlinear system identification method using interpolation models and backward integration. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2129.	4.0	6
29	Dynamic Performance Analysis of the Tuned Heave Plate System for Semi-Submersible Platform. <i>China Ocean Engineering</i> , 2018, 32, 422-430.	1.6	6
30	Structural optimal hybrid control strategies employing dynamic dual units: inerter and spring. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 2961-2979.	4.4	6
31	Analytical analysis for optimizing mass ratio of nonlinear tuned mass dampers. <i>Nonlinear Dynamics</i> , 2021, 106, 1955-1974.	5.2	6
32	Modeling and nonlinear optimal control of active mass damper with rotating actuator for structural vibration control. <i>Structural Control and Health Monitoring</i> , 2022, 29, e2871.	4.0	6
33	Error Caused by Damping Formulating in Multiple Support Excitation Problems. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8180.	2.5	5
34	Study of a smart platform based on backstepping control method. <i>Earthquake Engineering and Engineering Vibration</i> , 2017, 16, 599-608.	2.3	3
35	Efficient Estimation of Seismic Response of Large-Span Structures Considering the Effect of Multiple-Support Excitation. <i>Journal of Engineering Mechanics - ASCE</i> , 2019, 145, 04019096.	2.9	3
36	Adaptive Model Reference Sliding Mode Control of Structural Nonlinear Vibration. <i>Shock and Vibration</i> , 2019, 2019, 1-13.	0.6	3

#	ARTICLE	IF	CITATIONS
37	A nonlinear structural experiment platform with adjustable plastic hinges: analysis and vibration control. Smart Structures and Systems, 2013, 11, 315-329.	1.9	3
38	A wireless decentralized control experimental platform for vibration control of civil structures. Smart Structures and Systems, 2017, 19, 47-56.	1.9	3
39	Dynamic Performance of Time-Domain Piecewise Linear Stiffness System. Journal of Engineering Mechanics - ASCE, 2021, 147, .	2.9	2
40	Switch Control of Twin Rotor Damper for Bridge Vibration Mitigation under Different Excitations. Procedia Engineering, 2017, 199, 1707-1712.	1.2	1
41	Adaptive Sliding Mode Control of Inclined TORA System. , 2019, , .		1
42	Analysis of the vertical isolation with inerter and clutching inerter damper considering the rocking effect. , 2020, , .		1
43	Experimental study and numerical simulation of inerter-based systems. JVC/Journal of Vibration and Control, 2023, 29, 985-997.	2.6	1
44	Analytical Analysis for Parameter Design of Attached Nonlinear Energy Sink. Shock and Vibration, 2021, 2021, 1-20.	0.6	0
45	Design and validation of a wireless distributed control experimental system on three-layer spring steel structure model. , 2018, , .		0