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List of Publications by Year
in descending order

47 papers	1,425 citations
257357 24 h-index	330025 37 g-index
48 all docs	48 docs citations
48 times ranked	567 citing authors

#	Article	IF	Citations
1	Fully stressed design of passive controllers in framed structures for seismic loadings. Structural and Multidisciplinary Optimization, 2006, 32, 485-498.	1.7	123
2	Multi-Objective Evolutionary Seismic Design with Passive Energy Dissipation Systems. Journal of Earthquake Engineering, 2009, 13, 758-790.	1.4	120
3	Optimal design of supplemental viscous dampers for irregular shear-frames in the presence of yielding. Earthquake Engineering and Structural Dynamics, 2005, 34, 889-907.	2.5	100
4	Optimal design of supplemental viscous dampers for linear framed structures. Earthquake Engineering and Structural Dynamics, 2006, 35, 337-356.	2.5	87
5	Numerical collapse simulation of large-scale structural systems using an optimization-based algorithm. Earthquake Engineering and Structural Dynamics, 2009, 38, 655-677.	2.5	62
6	OPTIMAL PERIPHERAL DRIFT CONTROL OF 3D IRREGULAR FRAMED STRUCTURES USING SUPPLEMENTAL VISCOUS DAMPERS. Journal of Earthquake Engineering, 2006, 10, 903-923.	1.4	61
7	Minimum-cost optimization of nonlinear fluid viscous dampers and their supporting members for seismic retrofitting. Earthquake Engineering and Structural Dynamics, 2017, 46, 1941-1961.	2.5	61
8	Design of passive systems for control of inelastic structures. Earthquake Engineering and Structural Dynamics, 2009, 38, 783-804.	2.5	49
9	Simultaneous topology and sizing optimization of viscous dampers in seismic retrofitting of 3D irregular frame structures. Earthquake Engineering and Structural Dynamics, 2014, 43, 1325-1342.	2.5	48
10	Multi-hazard loss analysis of tall buildings under wind and seismic loads. Structure and Infrastructure Engineering, 2018, 14, 1295-1311.	2.0	47
11	Earthquake engineering research needs in light of lessons learned from the 2011 Tohoku earthquake. Earthquake Engineering and Engineering Vibration, 2014, 13, 141-149.	1.1	41
12	Simple Iterative Use of Lyapunov's Solution for the Linear Optimal Seismic Design of Passive Devices in Framed Buildings. Journal of Earthquake Engineering, 2009, 13, 650-666.	1.4	39
13	Seismic behavior of viscously damped yielding frames under structural and damping uncertainties. Bulletin of Earthquake Engineering, 2013, 11, 2309-2332.	2.3	39
14	Optimization-based minimum-cost seismic retrofitting of hysteretic frames with nonlinear fluid viscous dampers. Earthquake Engineering and Structural Dynamics, 2018, 47, 2985-3005.	2.5	38
15	Full resources utilization seismic design of irregular structures using multiple tuned mass dampers. Structural and Multidisciplinary Optimization, 2013, 48, 517-532.	1.7	34
16	Towards realistic minimum-cost optimization of viscous fluid dampers for seismic retrofitting. Bulletin of Earthquake Engineering, 2016, 14, 971-998.	2.3	34
17	Multi-objective optimal design of tuned mass dampers. Structural Control and Health Monitoring, 2017, 24, e2008.	1.9	34
18	Progressive collapse analysis through strength degradation and fracture in the Mixed Lagrangian Formulation. Earthquake Engineering and Structural Dynamics, 2009, 38, 1483-1504.	2.5	33

#	Article	IF	Citations
19	A methodology for the integrated seismic design of nonlinear buildings with supplemental damping. Structural Control and Health Monitoring, 2015, 22, 484-499.	1.9	32
20	Earthquake Simulator Testing and Seismic Evaluation of Suspended Ceilings. Journal of Architectural Engineering, 2010, 16, 63-73.	0.8	30
21	Adjoint sensitivity analysis and optimization of hysteretic dynamic systems with nonlinear viscous dampers. Structural and Multidisciplinary Optimization, 2018, 57, 2273-2289.	1.7	30
22	Optimization€based seismic design of steel moment€resisting frames with nonlinear viscous dampers. Structural Control and Health Monitoring, 2021, 28, .	1.9	29
23	On the efficiency of viscous dampers in reducing various seismic responses of wall structures. Earthquake Engineering and Structural Dynamics, 2012, 41, 1673-1692.	2.5	25
24	Optimality criteria based seismic design of multiple tuned-mass-dampers for the control of 3D irregular buildings. Earthquake and Structures, 2015, 8, 77-100.	1.0	25
25	Dynamic Analysis of Gap Closing and Contact in the Mixed Lagrangian Framework: Toward Progressive Collapse Prediction. Journal of Engineering Mechanics - ASCE, 2010, 136, 979-986.	1.6	23
26	Quantitative Comparison of Optimization Approaches for the Design of Supplemental Damping in Earthquake Engineering Practice. Journal of Structural Engineering, 2009, 135, 321-325.	1.7	21
27	Life-cycle cost-based optimization of MTMDs for tall buildings under multiple hazards. Structure and Infrastructure Engineering, 2021, 17, 921-940.	2.0	20
28	Performance based formal optimized seismic design of steel moment resisting frames. Computers and Structures, 2020, 235, 106269.	2.4	18
29	Performance€based seismic retrofitting of frame structures using negative stiffness devices and fluid viscous dampers via optimization. Earthquake Engineering and Structural Dynamics, 2021, 50, 3116-3137.	2.5	15
30	Multi-objective loss-based optimization of viscous dampers for seismic retrofitting of irregular structures. Soil Dynamics and Earthquake Engineering, 2020, 129, 105765.	1.9	13
31	Gradient-based multi-hazard optimization of MTMDs for tall buildings. Computers and Structures, 2021, 249, 106503.	2.4	12
32	Practical Modal Pushover Design of one-way asymmetric-plan reinforced concrete wall buildings for unidirectional ground motion. Bulletin of Earthquake Engineering, 2015, 13, 2915-2944.	2.3	11
33	Optimized Seismic Design of Passively Damped Outriggers Considering Perimeter Column Flexibility. Journal of Structural Engineering, 2020, 146, .	1.7	11
34	Seismic design of multiple€rocking systems: A gradient€based optimization approach. Earthquake Engineering and Structural Dynamics, 2021, 50, 3460-3482.	2.5	10
35	Adjoint sensitivity analysis and optimization of transient problems using the mixed Lagrangian formalism as a time integration scheme. Structural and Multidisciplinary Optimization, 2020, 61, 619-634.	1.7	9
36	Minimal€disturbance seismic rehabilitation of steel moment€resisting frames using light€weight steel elements. Earthquake Engineering and Structural Dynamics, 2016, 45, 383-400.	2.5	8

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37	Mixed Lagrangian formalism for dynamic analysis of self‒centering systems. Earthquake Engineering and Structural Dynamics, 2021, 50, 998-1019.	2.5	8
38	Topology optimization of multiple-rocking concentrically braced frames subjected to earthquakes. Structural and Multidisciplinary Optimization, 2022, 65, 1.	1.7	6
39	Local deformation‒based design of minimal‒disturbance arm damper for retrofitting steel moment‒resisting frames. Earthquake Engineering and Structural Dynamics, 2017, 46, 1493-1509.	2.5	4
40	Bi‒tuned semi‒active TMDs: Multi‒hazard design for tall buildings using gradient‒based optimization. Structural Control and Health Monitoring, 2022, 29, .	1.9	4
41	Effective modal seismic design of two-way asymmetric-plan RC wall structures. Bulletin of Earthquake Engineering, 2017, 15, 3819-3853.	2.3	3
42	Time-Integrated Mixed Lagrangian Formulation for Time-Discontinuous or Impulsive Loadings and Responses of Structures. Journal of Engineering Mechanics - ASCE, 2013, 139, 1239-1248.	1.6	2
43	Extension of the effective modal seismic design method to generally irregular RC wall structures. Bulletin of Earthquake Engineering, 2018, 16, 5341-5370.	2.3	2
44	Retrofitting of Irregular Structures for Seismic Loads Using Rocking Walls. Geotechnical, Geological and Earthquake Engineering, 2022, , 151-161.	0.1	2
45	LIFE-CYCLE COST OPTIMIZATION OF TUNED MASS DAMPERS FOR TALL BUILDINGS SUBJECTED TO WINDS AND EARTHQUAKES. , 2019, , .		1
46	Optimization Based Seismic Design of Self-centering Concentrically Braced Frames. Lecture Notes in Civil Engineering, 2022, , 737-745.	0.3	1
47	Optimizing Skyscrapers' Spatial Integrated DSF-MTMD System Under Wind Loads. , 2019, , .		0