Oren Lavan

List of Publications by Year in descending order

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Οσενί Ι ανανι

#	Article	IF	CITATIONS
1	Topology optimization of multiple-rocking concentrically braced frames subjected to earthquakes. Structural and Multidisciplinary Optimization, 2022, 65, 1.	3.5	6
2	Biâ€ŧuned semiâ€active TMDs: Multiâ€hazard design for tall buildings using gradientâ€based optimization. Structural Control and Health Monitoring, 2022, 29, .	4.0	4
3	Optimizationâ€based seismic design of steel momentâ€resisting frames with nonlinear viscous dampers. Structural Control and Health Monitoring, 2021, 28, .	4.0	29
4	Mixed Lagrangian formalism for dynamic analysis of selfâ€centering systems. Earthquake Engineering and Structural Dynamics, 2021, 50, 998-1019.	4.4	8
5	Performanceâ€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.	4.4	15
6	Gradient-based multi-hazard optimization of MTMDs for tall buildings. Computers and Structures, 2021, 249, 106503.	4.4	12
7	Seismic design of multipleâ€rocking systems: A gradientâ€based optimization approach. Earthquake Engineering and Structural Dynamics, 2021, 50, 3460-3482.	4.4	10
8	Multi-objective loss-based optimization of viscous dampers for seismic retrofitting of irregular structures. Soil Dynamics and Earthquake Engineering, 2020, 129, 105765.	3.8	13
9	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.	3.5	9
10	Deformation Based Seismic Design of Generally Irregular 3D RC Frame Buildings for Minimized Total Steel Volume. Geotechnical, Geological and Earthquake Engineering, 2020, , 39-46.	0.2	0
11	Optimizing Skyscrapers' Spatial Integrated DSF-MTMD System Under Wind Loads. , 2019, , .		0
12	Adjoint sensitivity analysis and optimization of hysteretic dynamic systems with nonlinear viscous dampers. Structural and Multidisciplinary Optimization, 2018, 57, 2273-2289.	3.5	30
13	Optimizationâ€based minimumâ€cost seismic retrofitting of hysteretic frames with nonlinear fluid viscous dampers. Earthquake Engineering and Structural Dynamics, 2018, 47, 2985-3005.	4.4	38
14	Topology and Sizing Optimization of Nonlinear Viscous Dampers for the Minimum-Cost Seismic Retrofitting of 3-D Frame Structures. , 2017, , .		0
15	Minimumâ€cost optimization of nonlinear fluid viscous dampers and their supporting members for seismic retrofitting. Earthquake Engineering and Structural Dynamics, 2017, 46, 1941-1961.	4.4	61
16	Multi-objective optimal design of tuned mass dampers. Structural Control and Health Monitoring, 2017, 24, e2008.	4.0	34
17	Efficient Seismic Design of 3D Asymmetric and Setback RC Frame Buildings for Drift and Strain Limitation. Journal of Structural Engineering, 2017, 143, .	3.4	12
18	Towards realistic minimum-cost optimization of viscous fluid dampers for seismic retrofitting. Bulletin of Earthquake Engineering, 2016, 14, 971-998.	4.1	34

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19	Seismic analysis and design of viscously coupled walls or trusses with discrete locations for viscous dampers. , 2015, , .		1
20	A methodology for the integrated seismic design of nonlinear buildings with supplemental damping. Structural Control and Health Monitoring, 2015, 22, 484-499.	4.0	32
21	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.	4.4	48
22	Time-Integrated Mixed Lagrangian Formulation for Time-Discontinuous or Impulsive Loadings and Responses of Structures. Journal of Engineering Mechanics - ASCE, 2013, 139, 1239-1248.	2.9	2
23	Analysis of Collapse of Irregular Tall Structures Using Mixed Lagrangian Formulation. Geotechnical, Geological and Earthquake Engineering, 2013, , 235-250.	0.2	1
24	On the efficiency of viscous dampers in reducing various seismic responses of wall structures. Earthquake Engineering and Structural Dynamics, 2012, 41, 1673-1692.	4.4	25
25	Dynamic Analysis of Cap Closing and Contact in the Mixed Lagrangian Framework: Toward Progressive Collapse Prediction. Journal of Engineering Mechanics - ASCE, 2010, 136, 979-986.	2.9	23
26	Closure to "Quantitative Comparison of Optimization Approaches for the Design of Supplemental Damping in Earthquake Engineering Practice―by Robert Levy and Oren Lavan. Journal of Structural Engineering, 2010, 136, 1183-1184.	3.4	1
27	Multi-Objective Evolutionary Seismic Design with Passive Energy Dissipation Systems. Journal of Earthquake Engineering, 2009, 13, 758-790.	2.5	120
28	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.	2.5	39
29	Quantitative Comparison of Optimization Approaches for the Design of Supplemental Damping in Earthquake Engineering Practice. Journal of Structural Engineering, 2009, 135, 321-325.	3.4	21
30	Design of passive systems for control of inelastic structures. Earthquake Engineering and Structural Dynamics, 2009, 38, 783-804.	4.4	49
31	Numerical collapse simulation of largeâ€scale structural systems using an optimizationâ€based algorithm. Earthquake Engineering and Structural Dynamics, 2009, 38, 655-677.	4.4	62
32	Optimal design of supplemental viscous dampers for linear framed structures. Earthquake Engineering and Structural Dynamics, 2006, 35, 337-356.	4.4	87
33	OPTIMAL PERIPHERAL DRIFT CONTROL OF 3D IRREGULAR FRAMED STRUCTURES USING SUPPLEMENTAL VISCOUS DAMPERS. Journal of Earthquake Engineering, 2006, 10, 903-923.	2.5	61
34	Optimal design of supplemental viscous dampers for irregular shear-frames in the presence of yielding. Earthquake Engineering and Structural Dynamics, 2005, 34, 889-907.	4.4	100
35	Seismic Design of Friction-Damped Braced Frames Based on Historical Records. Earthquake Spectra, 2005, 21, 761-778.	3.1	12