Petros Sideris

List of Publications by Year
in descending order

33 papers	598 citations	623188 14 h-index	610482 24 g-index
33 all docs	33 docs citations	33 times ranked	283 citing authors

#	Article	IF	Citations
1	A decision-making framework for life-cycle energy and seismic loss assessment of buildings. Structure and Infrastructure Engineering, 2023, 19, 875-889.	2.0	0
2	Numerical modeling of repaired reinforced concrete bridge columns. Engineering Structures, 2022, 253, 113801.	2.6	2
3	Life-cycle cost assessment of conventional and hybrid sliding-rocking bridges in seismic areas. Structure and Infrastructure Engineering, 2021, 17, 702-719.	2.0	5
4	Experimental testing of hybrid slidingâ€rocking bridge columns under torsional and biaxial lateral loading. Earthquake Engineering and Structural Dynamics, 2021, 50, 2817-2837.	2.5	8
5	Experimental Performance Assessment of Large-Scale Polyurethane-Enhanced Damage-Resistant Bridge Columns with Energy Dissipation Links. II: Quantitative Results. Journal of Structural Engineering, 2021, 147, .	1.7	4
6	Experimental Performance Assessment of Large-Scale Polyurethane-Enhanced Damage-Resistant Bridge Columns with Energy Dissipation Links. I: Overview and Damage Assessment. Journal of Structural Engineering, 2021, 147, .	1.7	3
7	Experimental Assessment of Second-Generation Hybrid Sliding-Rocking Bridge Columns under Reversed Lateral Loading for Free and Fixed End Rotation Conditions. Journal of Bridge Engineering, 2021, 26, .	1.4	8
8	Exploring energy harvesting and vibration mitigation in tall buildings accounting for wind and seismic loads. Engineering Structures, 2021, 247, 113126.	2.6	8
9	Effect of Major Design Parameters on the Seismic Performance of Bridges with Hybrid Slidingâ€“Rocking Columns. Journal of Bridge Engineering, 2020, 25, .	1.4	3
10	Assessing damage and collapse capacity of reinforced concrete structures using the gradient inelastic beam element formulation. Engineering Structures, 2020, 225, 111290.	2.6	14
11	Enhanced Rayleigh Damping Model for Dynamic Analysis of Inelastic Structures. Journal of Structural Engineering, 2020, 146, .	1.7	12
12	Seismic Repair Assessment of Hybrid Slidingâ€“Rocking Bridge Columns through Integrated Experimentation and Expert Panel Solicitation. Journal of Structural Engineering, 2020, 146, .	1.7	7
13	Nonlocal Hardening-Damage Beam Model and Its Application to a Force-Based Element Formulation. Journal of Engineering Mechanics - ASCE, 2019, 145, 04019084.	1.6	6
14	Experimental characterization and constitutive modeling of polyurethanes for structural applications, accounting for damage, hysteresis, loading rate and long term effects. Engineering Structures, 2019, 198, 109462.	2.6	16
15	Risk-Based Assessment of Seismic Repair Costs for Reinforced Concrete Bridges Considering Competing Repair Strategies. Journal of Bridge Engineering, 2019, 24, 04019108.	1.4	7
16	A finiteâ€strain gradientâ€inelastic beam theory and a corresponding forceâ€based frame element formulation. International Journal for Numerical Methods in Engineering, 2018, 116, 380-411.	1.5	16
17	Capacity Spectrum Seismic Design Methodology for Bridges with Hybrid Sliding-Rocking Columns. Journal of Bridge Engineering, 2018, 23, 04018052.	1.4	8
18	A generalized normal flow method with online step controls for pushover analysis of nonlinear softening structures. Engineering Structures, 2017, 143, 232-244.	2.6	2

#	Article	IF	Citations
19	Refined Gradient Inelastic Flexibility-Based Formulation for Members Subjected to Arbitrary Loading. Journal of Engineering Mechanics - ASCE, 2017, 143, 04017090.	1.6	19
20	Numerical Simulation of Hybrid Sliding-Rocking Columns Subjected to Earthquake Excitation. Journal of Structural Engineering, 2017, 143, .	1.7	22
21	Resilient Bridge Rocking Columns with Polyurethane Damage-Resistant End Segments and Replaceable Energy-Dissipating Links. Journal of Bridge Engineering, 2017, 22, .	1.4	39
22	Experimental Performance Assessment of Nearly Full-Scale Reinforced Concrete Columns with Partially Debonded Longitudinal Reinforcement. Journal of Structural Engineering, 2017, 143, .	1.7	25
23	Nonlinear Dynamic Analysis of Hybrid Sliding-Rocking Bridges. , 2016, , .		4
24	Low-Damage Posttensioned Segmental Bridge Columns with Flexible End Joints for Seismic Accelerated Bridge Construction. Transportation Research Record, 2016, 2592, 151-161.	1.0	8
25	A Gradient Inelastic Flexibility-Based Frame Element Formulation. Journal of Engineering Mechanics - ASCE, 2016, 142, 04016039.	1.6	30
26	Experimental Seismic Performance of a Hybrid Slidingâ€“Rocking Bridge for Various Specimen Configurations and Seismic Loading Conditions. Journal of Bridge Engineering, 2015, 20, .	1.4	46
27	Direct Displacement-Based Seismic Design and Validation for Hybrid Sliding-Rocking Bridge Substructure Systems. , 2015, , .		1
28	Nonlinear quasi-static analysis of hybrid slidingâ€“rocking bridge columns subjected to lateral loading. Engineering Structures, 2015, 101, 125-137.	2.6	20
29	Quasi-Static Cyclic Testing of a Large-Scale Hybrid Sliding-Rocking Segmental Column with Slip-Dominant Joints. Journal of Bridge Engineering, 2014, 19, .	1.4	106
30	Seismic Response of Squat Rigid Bodies on Inclined Planes with Rigid Boundaries. Journal of Engineering Mechanics - ASCE, 2014, 140, 149-158.	1.6	5
31	Large-Scale Seismic Testing of a Hybrid Sliding-Rocking Posttensioned Segmental Bridge System. Journal of Structural Engineering, 2014, 140, .	1.7	103
32	Effects of anchorage hardware on the cyclic tensile response of unbonded monostrands. PCI Journal, 2014, 59, 60-77.	0.4	20
33	Experimental Investigation on the Seismic Behavior of Palletized Merchandise in Steel Storage Racks. Earthquake Spectra, 2010, 26, 209-233.	1.6	21