Bozidar Stojadinovic

List of Publications by Year
in descending order

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123 papers	3,062 citations	172386 29 h-index	189801 50 g-index
146 all docs	146 docs citations	146 times ranked	1814 citing authors

#	Article	IF	Citations
1	Quantifying disaster resilience of a community with interdependent civil infrastructure systems. Structure and Infrastructure Engineering, 2023, 19, 1696-1710.	2.0	15
2	Shaking table investigation of a low-cost and sustainable timber-based energy dissipation system with recentering ability. Bulletin of Earthquake Engineering, 2023, 21, 3949-3968.	2.3	5
3	Rapid earthquake loss assessment based on machine learning and representative sampling. Earthquake Spectra, 2022, 38, 152-177.	1.6	24
4	Training of a Classifier for Structural Component Failure Based on Hybrid Simulation and Kriging. Journal of Engineering Mechanics - ASCE, 2022, 148, .	1.6	1
5	Simulating the role of transportation infrastructure for community disaster recovery. Proceedings of the Institution of Civil Engineers: Bridge Engineering, 2022, 175, 150-159.	0.3	6
6	Adaptive model predictive control for actuation dynamics compensation in real-time hybrid simulation. Mechanism and Machine Theory, 2022, 172, 104817.	2.7	8
7	A Comparison of Surrogate Modeling Techniques for Global Sensitivity Analysis in Hybrid Simulation. Machine Learning and Knowledge Extraction, 2022, 4, 1-21.	3.2	1
8	A demand-supply framework for evaluating the effect of resource and service constraints on community disaster resilience. , 2022, 1, 13-32.		14
9	Hybrid simulation of a post-tensioned timber frame and validation of numerical models for seismic design. Engineering Structures, 2022, 265, 114415.	2.6	5
10	A review on resilience assessment of energy systems. Sustainable and Resilient Infrastructure, 2021, 6, 273-299.	1.7	76
11	A global sensitivity analysis framework for hybrid simulation. Mechanical Systems and Signal Processing, 2021, 146, 106997.	4.4	27
12	Shake table testing of a rocking podium: Results of a blind prediction contest. Earthquake Engineering and Structural Dynamics, 2021, 50, 1043-1062.	2.5	38
13	Dataset from the shake table tests of a rocking podium structure. Earthquake Spectra, 2021, 37, 2107-2125.	1.6	8
14	Using regional earthquake risk models as priors to dynamically assess the impact on residential buildings after an event. , 2021, , .		0
15	Data set from shake table tests of free-standing rocking bodies. Earthquake Spectra, 2021, 37, 2971-2987.	1.6	9
16	Shaking table investigation of inelastic deformation demand for a structure isolated using friction-pendulum sliding bearings. Structures, 2021, 31, 1041-1052.	1.7	11
17	Compliance-based estimation of seismic collapse risk of an existing reinforced concrete frame building. Bulletin of Earthquake Engineering, 2021, 19, 6027-6048.	2.3	10
18	Seismic fragility analysis of a coupled tank-piping system based on artificial ground motions and surrogate modeling. Journal of Loss Prevention in the Process Industries, 2021, 72, 104575.	1.7	7

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19	Multi-axial hybrid fire testing based on dynamic relaxation. Fire Safety Journal, 2021, 126, 103468.	1.4	3
20	A Global Sensitivity Analysis Framework for Hybrid Simulation with Stochastic Substructures. Frontiers in Built Environment, 2021, 7, .	1.2	7
21	Risk-Based Multilevel Methodology to Stress Test Critical Infrastructure Systems. Journal of Infrastructure Systems, 2020, 26, 04019035.	1.0	21
22	Comprehensive resilience assessment of electricity supply security for 140 countries. Ecological Indicators, 2020, 110, 105731.	2.6	40
23	A Real-Time Hybrid Fire Simulation Method Based on Dynamic Relaxation and Partitioned Time Integration. Journal of Engineering Mechanics - ASCE, 2020, 146, .	1.6	16
24	Robust Model Predictive Control for Dynamics Compensation in Real-Time Hybrid Simulation. Frontiers in Built Environment, 2020, 6, .	1.2	4
25	New Frontiers and Innovative Methods for Hybrid Simulation. Experimental Techniques, 2020, 44, 667-668.	0.9	1
26	Quantifying Electricity Supply Resilience of Countries with Robust Efficiency Analysis. Energies, 2020, 13, 1535.	1.6	7
27	The role of risk measures in making seismic upgrading decisions. Earthquake Spectra, 2020, 36, 1802-1822.	1.6	6
28	Locally Resonant Metasurfaces for Shear Waves in Granular Media. Physical Review Applied, 2020, 13, .	1.5	30
29	A modelâ€order reduction framework for hybrid simulation based on componentâ€mode synthesis. Earthquake Engineering and Structural Dynamics, 2020, 49, 737-753.	2.5	9
30	In-situ retrofit strategy for transmission tower structure members using light-weight steel casings. Engineering Structures, 2020, 206, 110171.	2.6	6
31	A static solver for hybrid fire simulation based on model reduction and dynamic relaxation. , 2020, , .		2
32	Rolling and rocking of rigid uplifting structures. Earthquake Engineering and Structural Dynamics, 2019, 48, 1556-1574.	2.5	27
33	Cyclic loading behaviors of novel RC beams with kinked rebar configuration. Engineering Structures, 2019, 200, 109689.	2.6	7
34	Resilience Evaluation Framework for Integrated Civil Infrastructureâ€“Community Systems under Seismic Hazard. Journal of Infrastructure Systems, 2019, 25, .	1.0	30
35	Multi-layer masonry bed joint subjected to shear: Analytical modelling. Construction and Building Materials, 2019, 205, 602-610.	3.2	6
36	Agentâ€Based Recovery Model for Seismic Resilience Evaluation of Electrified Communities. Risk Analysis, 2019, 39, 1597-1614.	1.5	24

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37	Assessing the Performance of the European Natural Gas Network for Selected Supply Disruption Scenarios Using Open-Source Information. Energies, 2019, 12, 4685.	1.6	16
38	Constant yield displacement procedure for seismic evaluation of existing structures. Bulletin of Earthquake Engineering, 2019, 17, 2137-2164.	2.3	16
39	Indices under the Spotlight: An Approach to Unveil and Manage the Implicit Trade-offs between Indicators. , 2019, , .		2
40	Sliding in Compression Zones of Reinforced Concrete Shear Walls: Behavior and Modeling. ACI Structural Journal, 2019, 116, .	0.3	1
41	Seismic Resilience of Water Distribution and Cellular Communication Systems after the 2015 Gorkha Earthquake. Journal of Structural Engineering, 2018, 144, .	1.7	25
42	A compositional demand/supply framework to quantify the resilience of civil infrastructure systems (Re-CoDeS). Sustainable and Resilient Infrastructure, 2018, 3, 86-102.	1.7	48
43	Is rocking motion predictable?. Earthquake Engineering and Structural Dynamics, 2018, 47, 535-552.	2.5	80
44	A Framework to Evaluate the Benefit of Seismic Upgrading. Earthquake Spectra, 2018, 34, 527-548.	1.6	13
45	Masonry walls with a multi-layer bed joint subjected to in-plane cyclic loading: An experimental investigation. Engineering Structures, 2017, 143, 189-203.	2.6	11
46	Dynamics of rocking podium structures. Earthquake Engineering and Structural Dynamics, 2017, 46, 2499-2517.	2.5	63
47	A procedure for the approximated response history analysis of linear thermoelastic structures. Journal of Thermal Stresses, 2017, 40, 879-898.	1.1	0
48	The threeâ€dimensional behavior of inverted pendulum cylindrical structures during earthquakes. Earthquake Engineering and Structural Dynamics, 2017, 46, 2261-2280.	2.5	49
49	Hierarchical Bayesian Modeling of Fluidâ€Induced Seismicity. Geophysical Research Letters, 2017, 44, 11,357.	1.5	36
50	I-Shaped Unreinforced Masonry Wallettes with a Soft-Layer Bed Joint: Behavior under Static-Cyclic Shear. Journal of Structural Engineering, 2017, 143, .	1.7	4
51	Editorial: Special Issue of ESREL 2015. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2017, 231, 337-338.	0.6	0
52	Experimental and analytical investigation of the inelastic behavior of structures isolated using friction pendulum bearings. Procedia Engineering, 2017, 199, 465-470.	1.2	7
53	Dynamics of inelastic base-isolated structures subjected to recorded ground motions. Bulletin of Earthquake Engineering, 2017, 15, 1807-1830.	2.3	23
54	A finite element model for seismic response analysis of deformable rocking frames. Earthquake Engineering and Structural Dynamics, 2017, 46, 447-466.	2.5	64

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55	Comparative Assessment of Two Rocking Isolation Techniques for a Motorway Overpass Bridge. Frontiers in Built Environment, 2017, 3, .	1.2	46
56	Potential impacts of selected natural hazards and technical failures on the natural gas transmission network in Europe. , 2017, , .		1
57	DYNAMIC RESPONSE OF A RIGID SLAB SUPPORTED BY FOUR RIGID CYLINRICAL ROCKING AND WOBBLING COLUMNS. , 2017, , .		1
58	PROBABILISTIC VALIDATION OF THE HOUSNER ROCKING MODEL. , 2017, , .		0
59	Security of electricity supply indicators in a resilience context. , 2017, , .		1
60	Use of a High-Precision Digital Displacement Encoder for Hybrid Simulation of Seismic Response of Stiff Specimens. Experimental Techniques, 2016, 40, 677-688.	0.9	2
61	Hybrid Simulation of Thermomechanical Structural Response. Journal of Structural Engineering, 2016, 142, .	1.7	33
62	Seismic isolation of historic towers: Feasibility study on a simplified model of the Tower of Pisa. , 2016, , 1598-1604.		2
63	AN ANALYTICAL MODEL FOR DYNAMIC RESPONSE OF AN ELASTIC SDOF SYSTEM FIXED ON TOP OF A ROCKING SINGLE-STORY FRAME STRUCTURE: EXPERIMENTAL VALIDATION. , 2016, , .		9
64	EXPERIMENTAL INVESTIGATION OF THE SEISMIC RESPONSE OF A COLUMN ROCKING AND ROLLING ON A CONCAVE BASE. , 2016, , .		9
65	A PROBABILISTIC APPROACH TOWARDS AN EVALUATION OF EXISTING CODE PROVISIONS FOR SEISMICALLY ISOLATED STRUCTURES. , 2016, , .		2
66	Evaluation of Post-Earthquake Axial Load Capacity of Circular Bridge Columns. ACI Structural Journal, 2015, 112, .	0.3	13
67	An analytical model of a deformable cantilever structure rocking on a rigid surface: development and verification. Earthquake Engineering and Structural Dynamics, 2015, 44, 2775-2794.	2.5	65
68	An analytical model of a deformable cantilever structure rocking on a rigid surface: experimental validation. Earthquake Engineering and Structural Dynamics, 2015, 44, 2795-2815.	2.5	46
69	Seismic Performance Evaluation of Intermediate Moment Frames with Reduced Beam Section and Bolted Web Connections. Earthquake Spectra, 2015, 31, 895-919.	1.6	4
70	Masonry wallettes with a soft layer bed joint: Behaviour under static-cyclic loading. Engineering Structures, 2015, 86, 16-32.	2.6	12
71	Calibration and Validation of Analytical Models for Predicting the Seismic and Axial-Load Response of Circular Bridge Columns. Journal of Bridge Engineering, 2015, 20, .	1.4	7
72	A Framework for Linking Community-Resilience Goals to Specific Performance Targets for the Built Environment. Earthquake Spectra, 2015, 31, 1267-1283.	1.6	71

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73	Probabilistic resilience assessment of civil systems: Analysis and validity of the PEER framework. , 2015, , 331-339.		6
74	Study of seismic recovery and resilience of Electric Power Supply System. , 2015, , 4389-4397.		4
75	POST-EARTHQUAKE RECOVERY OF A COMMUNITY AND ITS ELECTRICAL POWER SUPPLY SYSTEM. , 2015, , .		12
76	Preliminary performance-based design of a post-tensioned glue-laminated timber frame. , 2015, , .		0
77	Seismic behavior of slender reinforced concrete walls. Engineering Structures, 2014, 80, 377-388.	2.6	51
78	Hybrid Simulation of Bridge Response to Three-Dimensional Earthquake Excitation Followed by Truck Load. Journal of Structural Engineering, 2014, 140, .	1.7	23
79	Effect of Ground Motion Sequence on Response of Squat Reinforced Concrete Shear Walls. Journal of Structural Engineering, 2014, 140, .	1.7	19
80	Dynamic response analysis of solitary flexible rocking bodies: modeling and behavior under pulseâ€like ground excitation. Earthquake Engineering and Structural Dynamics, 2014, 43, 1463-1481.	2.5	75
81	Assessment of Uncertainty Propagation in the Dynamic Response of Single-Degree-of-Freedom Structures Using Reachability Analysis. Journal of Engineering Mechanics - ASCE, 2014, 140, 04014038.	1.6	3
82	RY-Î¼-În RELATIONS FOR SEISMICALLY ISOLATED STRUCTURES. , 2014, , .		4
83	Dynamics of inelastic baseâ€isolated structures subjected to analytical pulse ground motions. Earthquake Engineering and Structural Dynamics, 2013, 42, 2043-2060.	2.5	26
84	Framework for Design of Next-Generation Base-Isolated Nuclear Structures. , 2013, , 63-75.		0
85	Demonstration of a Practical Method for Seismic Performance Assessment of Structural Systems. Earthquake Spectra, 2012, 28, 811-829.	1.6	4
86	Probabilistic seismic demand model for curved reinforced concrete bridges. Bulletin of Earthquake Engineering, 2012, 10, 1455-1479.	2.3	67
87	Rotation capacities of reduced beam section with bolted web (RBS-B) connections. Journal of Constructional Steel Research, 2012, 70, 256-263.	1.7	30
88	Seismic Protection of Small Modular Reactors. , 2011, , .		0
89	Bridge Damage and Loss Scenarios Calibrated by Schematic Design and Cost Estimation of Repairs. Earthquake Spectra, 2011, 27, 1127-1145.	1.6	18
90	Postâ€earthquake bridge repair cost and repair time estimation methodology. Earthquake Engineering and Structural Dynamics, 2010, 39, 281-301.	2.5	28

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91	Seismic Risk Evaluation for the Baseline PEER Bridge Testbed. , 2009, , .		1
92	Hybrid simulation of a zipperâ€braced steel frame under earthquake excitation. Earthquake Engineering and Structural Dynamics, 2009, 38, 95-113.	2.5	32
93	Design equations for moment strength of RBS-B connections. Journal of Constructional Steel Research, 2009, 65, 1087-1095.	1.7	25
94	Seismic Performance Evaluation of Facilities: Methodology and Implementation. Journal of Structural Engineering, 2009, 135, 1146-1154.	1.7	209
95	Effect of abutment modeling on the seismic response of bridge structures. Earthquake Engineering and Engineering Vibration, 2008, 7, 395-402.	1.1	80
96	Seismic Performance of Pre-Northridge Welded Steel Moment Connections to Built-Up Box Columns. Journal of Structural Engineering, 2008, 134, 289-299.	1.7	25
97	Hybrid Seismic Response Simulation on a Geographically Distributed Bridge Model. Journal of Structural Engineering, 2008, 134, 535-543.	1.7	22
98	Verification of Hybrid Simulation through On-Line Monitoring of Experimental Errors. , 2008, , .		2
99	A plastic collapse method for evaluating rotation capacity of full-restrained steel moment connections. Theoretical and Applied Mechanics, 2008, 35, 191-214.	0.1	7
100	Performance of Benchmark Bridge Structures. , 2007, , 1.		3
101	Communication and process simulation of set-based design for concrete reinforcement. , 2007, , .		0
102	Comparison of Post-Earthquake Highway Bridge Repair Costs. , 2007, , 1.		4
103	Rotation Capacity of Pre-Qualified Moment Connections: A Yield Line Approach. , 2007, , .		1
104	Real-Time Error Monitoring for Hybrid Simulation. Part II: Structural Response Modification due to Errors. Journal of Structural Engineering, 2007, 133, 1109-1117.	1.7	51
105	Real-Time Error Monitoring for Hybrid Simulation. Part I: Methodology and Experimental Verification. Journal of Structural Engineering, 2007, 133, 1100-1108.	1.7	61
106	R-Factor Parameterized Bridge Damage Fragility Curves. Journal of Bridge Engineering, 2007, 12, 500-510.	1.4	43
107	Performance-based seismic bridge design for damage and loss limit states. Earthquake Engineering and Structural Dynamics, 2007, 36, 1953-1971.	2.5	85
108	Fast Hybrid Simulation with Geographically Distributed Substructures. , 2006, , .		22

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109	Event-Driven Control System for Geographically Distributed Hybrid Simulation. Journal of Structural Engineering, 2006, 132, 68-77.	1.7	47
110	Post-earthquake functionality of highway overpass bridges. Earthquake Engineering and Structural Dynamics, 2006, 35, 77-93.	2.5	74
111	Fourway: Graphical Tool for Performance-Based Earthquake Engineering. Journal of Structural Engineering, 2006, 132, 1274-1283.	1.7	14
112	<title>Wireless sensor seismic response monitoring system implemented on top of NEESgrid</title>. , 2005, , .		3
113	Metadata and network API aspects of a framework for storing and retrieving civil infrastructure monitoring data. , 2005, , .		0
114	Review of selected recent research on US seismic design and retrofit strategies for steel structures. Structural Control and Health Monitoring, 2005, 7, 103-114.	0.7	7
115	Comparison of Incremental Dynamic, Cloud, and Stripe Methods for Computing Probabilistic Seismic Demand Models. , 2005, , 1.		46
116	Stability and low-cycle fatigue limits of moment connection rotation capacity. Engineering Structures, 2003, 25, 691-700.	2.6	11
117	Energy-based Seismic Design of Structures using Yield Mechanism and Target Drift. Journal of Structural Engineering, 2002, 128, 1046-1054.	1.7	96
118	Probabilistic Seismic Demand Model for California Highway Bridges. Journal of Bridge Engineering, 2001, 6, 468-481.	1.4	173
119	Conceptual Design of a Haptic Interface for Structural Analysis Software. , 2000, , 1.		1
120	Parametric Tests on Unreinforced Steel Moment Connections. Journal of Structural Engineering, 2000, 126, 40-49.	1.7	80
121	Toward Performance-Based Seismic Design of Structures. Earthquake Spectra, 1999, 15, 435-461.	1.6	130
122	Behavior of Bridge Outrigger Knee Joint Systems. Earthquake Spectra, 1995, 11, 477-509.	1.6	12
123	Stable Reinforcedâ€Concrete Sectionâ€Analysis Procedure. Journal of Structural Engineering, 1994, 120, 3012-3024.	1.7	4