

M Shahria Alam

List of Publications by Year in descending order

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184
papers

6,276
citations

61984

43
h-index

91884

69
g-index

191
all docs

191
docs citations

191
times ranked

3143
citing authors

#	ARTICLE	IF	CITATIONS
1	An overview of construction and demolition waste management in Canada: a lifecycle analysis approach to sustainability. <i>Clean Technologies and Environmental Policy</i> , 2013, 15, 81-91.	4.1	373
2	Seismic fragility assessment of highway bridges: a state-of-the-art review. <i>Structure and Infrastructure Engineering</i> , 2015, 11, 804-832.	3.7	207
3	Utilizing shape memory alloys to enhance the performance and safety of civil infrastructure: a review. <i>Canadian Journal of Civil Engineering</i> , 2007, 34, 1075-1086.	1.3	200
4	Experimental Investigation on the Seismic Behavior of Beam-Column Joints Reinforced with Superelastic Shape Memory Alloys. <i>Journal of Earthquake Engineering</i> , 2008, 12, 1205-1222.	2.5	181
5	Analytical prediction of the seismic behaviour of superelastic shape memory alloy reinforced concrete elements. <i>Engineering Structures</i> , 2008, 30, 3399-3411.	5.3	154
6	Mechanical behavior of three generations of 100% repeated recycled coarse aggregate concrete. <i>Construction and Building Materials</i> , 2014, 65, 574-582.	7.2	153
7	Seismic performance of concrete columns reinforced with hybrid shape memory alloy (SMA) and fiber reinforced polymer (FRP) bars. <i>Construction and Building Materials</i> , 2012, 28, 730-742.	7.2	135
8	Mechanical and Freeze-Thaw Durability Properties of Recycled Aggregate Concrete Made with Recycled Coarse Aggregate. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, .	2.9	131
9	Mechanical properties of recycled aggregate concrete containing crumb rubber and polypropylene fiber. <i>Construction and Building Materials</i> , 2019, 225, 983-996.	7.2	130
10	Fragility Analysis of Retrofitted Multicolumn Bridge Bent Subjected to Near-Fault and Far-Field Ground Motion. <i>Journal of Bridge Engineering</i> , 2013, 18, 992-1004.	2.9	125
11	Seismic fragility assessment of SMA-bar restrained multi-span continuous highway bridge isolated by different laminated rubber bearings in medium to strong seismic risk zones. <i>Bulletin of Earthquake Engineering</i> , 2012, 10, 1885-1909.	4.1	107
12	Seismic performance assessment of highway bridges equipped with superelastic shape memory alloy-based laminated rubber isolation bearing. <i>Engineering Structures</i> , 2013, 49, 396-407.	5.3	105
13	Seismic Fragility Assessment of Concrete Bridge Pier Reinforced with Superelastic Shape Memory Alloy. <i>Earthquake Spectra</i> , 2015, 31, 1515-1541.	3.1	101
14	Predicting the shear strength of steel fiber reinforced concrete beams. <i>Construction and Building Materials</i> , 2012, 26, 423-436.	7.2	99
15	Development of corrosion-free concrete beam-column joint with adequate seismic energy dissipation. <i>Engineering Structures</i> , 2010, 32, 2518-2528.	5.3	86
16	Seismic performance of concrete frame structures reinforced with superelastic shape memory alloys. <i>Smart Structures and Systems</i> , 2009, 5, 565-585.	1.9	84
17	Probabilistic seismic fragility and loss analysis of concrete bridge piers with superelastic shape memory alloy-steel coupled reinforcing bars. <i>Engineering Structures</i> , 2020, 207, 110229.	5.3	83
18	Shape memory alloy wire-based smart natural rubber bearing. <i>Smart Materials and Structures</i> , 2013, 22, 045013.	3.5	77

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19	Performance-Based Seismic Design of Shape Memory Alloy-Reinforced Concrete Bridge Piers. I: Development of Performance-Based Damage States. Journal of Structural Engineering, 2016, 142, .	3.4	70
20	Explainable machine learning model and reliability analysis for flexural capacity prediction of RC beams strengthened in flexure with FRCM. Engineering Structures, 2022, 255, 113903.	5.3	70
21	Exploratory investigation on mechanical anchors for connecting SMA bars to steel or FRP bars. Materials and Structures/Materiaux Et Constructions, 2010, 43, 91-107.	3.1	65
22	Performance-based assessment and design of FRP-based high damping rubber bearing incorporated with shape memory alloy wires. Engineering Structures, 2014, 61, 166-183.	5.3	65
23	Effects of Near-Fault Motions and Artificial Pulse-Type Ground Motions on Super-Span Cable-Stayed Bridge Systems. Journal of Bridge Engineering, 2017, 22, .	2.9	65
24	Incremental dynamic analysis of steel frames equipped with NiTi shape memory alloy braces. Structural Design of Tall and Special Buildings, 2014, 23, 1406-1425.	1.9	63
25	Physical and mechanical properties of cementitious composites containing recycled glass powder (RGP) and styrene butadiene rubber (SBR). Construction and Building Materials, 2016, 104, 34-43.	7.2	63
26	Displacement-based seismic design of bridge bents retrofitted with various bracing devices and their seismic fragility assessment under near-fault and far-field ground motions. Soil Dynamics and Earthquake Engineering, 2019, 119, 75-90.	3.8	62
27	Green Concrete Made with RCA and FRP Scrap Aggregate: Fresh and Hardened Properties. Journal of Materials in Civil Engineering, 2013, 25, 1783-1794.	2.9	59
28	In-Plane Stiffness of Cross-Laminated Timber Panels with Openings. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2017, 27, 217-223.	0.8	56
29	Seismic Vulnerability Assessment of a Multi-Span Continuous Highway Bridge Fitted with Shape Memory Alloy Bars and Laminated Rubber Bearings. Earthquake Spectra, 2012, 28, 1379-1404.	3.1	55
30	Buildings' seismic vulnerability assessment methods: a comparative study. Natural Hazards, 2012, 62, 405-424.	3.4	54
31	Seismic overstrength and ductility of concrete buildings reinforced with superelastic shape memory alloy rebar. Engineering Structures, 2012, 34, 8-20.	5.3	54
32	Comparative Seismic Fragility Assessment of an Existing Isolated Continuous Bridge Retrofitted with Different Energy Dissipation Devices. Journal of Bridge Engineering, 2019, 24, .	2.9	54
33	Feasibility study of utilizing superelastic shape memory alloy plates in steel beam-column connections for improved seismic performance. Journal of Intelligent Material Systems and Structures, 2015, 26, 463-475.	2.5	53
34	Plastic hinge length of shape memory alloy (SMA) reinforced concrete bridge pier. Engineering Structures, 2016, 117, 321-331.	5.3	53
35	Passive seismic unseating prevention strategies implemented in highway bridges: A state-of-the-art review. Engineering Structures, 2019, 194, 77-93.	5.3	53
36	Seismic Performance of a Novel Single and Double Spring-Based Piston Bracing. Journal of Structural Engineering, 2019, 145, .	3.4	52

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37	Optimized shear design equation for slender concrete beams reinforced with FRP bars and stirrups using Genetic Algorithm and reliability analysis. Engineering Structures, 2016, 107, 151-165.	5.3	51
38	Probabilistic seismic risk assessment of concrete bridge piers reinforced with different types of shape memory alloys. Engineering Structures, 2018, 162, 97-108.	5.3	49
39	Shake table studies of a highway bridge model by allowing the sliding of laminated-rubber bearings with and without restraining devices. Engineering Structures, 2018, 171, 583-601.	5.3	49
40	Experimental and numerical study on the seismic performance of a self-centering bracing system using closed-loop dynamic (CLD) testing. Engineering Structures, 2019, 195, 144-158.	5.3	48
41	Development and validation test of a novel Self-centering Energy-absorbing Dual Rocking Core (SEDRC) system for seismic resilience. Engineering Structures, 2020, 211, 110424.	5.3	46
42	Recycled aggregate concrete from large-scale production to sustainable field application. Construction and Building Materials, 2020, 262, 119979.	7.2	45
43	Improved Shear Equations for Steel Fiber-Reinforced Concrete Deep and Slender Beams. ACI Structural Journal, 2014, 111, .	0.2	45
44	Seismic performance evaluation of multi-column bridge bents retrofitted with different alternatives using incremental dynamic analysis. Engineering Structures, 2014, 62-63, 105-117.	5.3	44
45	Smart Lead Rubber Bearings Equipped with Ferrous Shape Memory Alloy Wires for Seismically Isolating Highway Bridges. Journal of Earthquake Engineering, 2018, 22, 1042-1067.	2.5	42
46	A review on the application of sprayed-FRP composites for strengthening of concrete and masonry structures in the construction sector. Composite Structures, 2018, 187, 518-534.	5.8	42
47	Prediction of carbonation depth for recycled aggregate concrete using ANN hybridized with swarm intelligence algorithms. Construction and Building Materials, 2021, 301, 124382.	7.2	42
48	State-of-the-Art Review of Seismic-Resistant Precast Bridge Columns. Journal of Bridge Engineering, 2020, 25, .	2.9	41
49	Investigation of Compressive Bond Behavior of Steel Rebar Embedded in Concrete With Partial Recycled Aggregate Replacement. Structures, 2016, 7, 153-164.	3.6	40
50	Plastic hinge length of rectangular RC columns using ensemble machine learning model. Engineering Structures, 2021, 244, 112808.	5.3	40
51	Sensitivity analysis and multi-criteria optimization of SMA cable restrainers for longitudinal seismic protection of isolated simply supported highway bridges. Engineering Structures, 2019, 189, 509-522.	5.3	39
52	Evaluation of financial incentives for green buildings in Canadian landscape. Renewable and Sustainable Energy Reviews, 2021, 135, 110199.	16.4	39
53	Principal Component and Multiple Regression Analysis for Steel Fiber Reinforced Concrete (SFRC) Beams. International Journal of Concrete Structures and Materials, 2013, 7, 303-317.	3.2	38
54	Multi-criteria optimization and seismic performance assessment of carbon FRP-based elastomeric isolator. Engineering Structures, 2013, 49, 525-540.	5.3	38

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55	Effect of constitutive models on the seismic response of an SMA-LRB isolated highway bridge. Engineering Structures, 2017, 148, 113-125.	5.3	38
56	Finite-Element Simulation of Posttensioned Steel Connections with Bolted Angles under Cyclic Loading. Journal of Structural Engineering, 2016, 142, .	3.4	37
57	Optimal intensity measures for probabilistic seismic demand models of a cable-stayed bridge based on generalized linear regression models. Soil Dynamics and Earthquake Engineering, 2020, 131, 106024.	3.8	37
58	Sensitivity analysis on mechanical characteristics of lead-core steel-reinforced elastomeric bearings under cyclic loading. Engineering Structures, 2017, 140, 39-50.	5.3	36
59	Hysteretic Behaviour of a Piston Based Self-centering (PBSC) Bracing System Made of Superelastic SMA Bars – A Feasibility Study. Structures, 2017, 12, 102-114.	3.6	36
60	Self-centering energy-absorbing rocking core system with friction spring damper: Experiments, modeling and design. Engineering Structures, 2020, 225, 111338.	5.3	36
61	Seismic responses of super-span cable-stayed bridges induced by ground motions in different sites relative to fault rupture considering soil-structure interaction. Soil Dynamics and Earthquake Engineering, 2017, 101, 295-310.	3.8	35
62	Displacement-Based Seismic Design of Steel, FRP, and SMA Cable Restrainers for Isolated Simply Supported Bridges. Journal of Bridge Engineering, 2018, 23, .	2.9	35
63	Shear strength of reinforced concrete deep beams – A review with improved model by genetic algorithm and reliability analysis. Structures, 2020, 23, 494-508.	3.6	35
64	Seismic vulnerability assessment of a steel-girder highway bridge equipped with different SMA wire-based smart elastomeric isolators. Smart Materials and Structures, 2016, 25, 075039.	3.5	34
65	Effect of different steel-reinforced elastomeric isolators on the seismic fragility of a highway bridge. Structural Control and Health Monitoring, 2017, 24, e1866.	4.0	33
66	Improving the seismic performance of post-tensioned self-centering connections using SMA angles or end plates with SMA bolts. Smart Materials and Structures, 2019, 28, 075044.	3.5	32
67	Seismic fragility assessment of a multi-span RC bridge in Bangladesh considering near-fault, far-field and long duration ground motions. Structures, 2019, 19, 333-348.	3.6	32
68	Seismic performance assessment of a multispan continuous isolated highway bridge with superelastic shape memory alloy reinforced piers and restraining devices. Earthquake Engineering and Structural Dynamics, 2021, 50, 673-691.	4.4	32
69	Revisiting the shear design equations for concrete beams reinforced with FRP rebar and stirrup. Materials and Structures/Materiaux Et Constructions, 2012, 45, 1593-1612.	3.1	31
70	Lateral Load–Drift Response and Limit States of Posttensioned Steel Beam-Column Connections: Parametric Study. Journal of Structural Engineering, 2017, 143, .	3.4	31
71	Cable force optimization of a curved cable-stayed bridge with combined simulated annealing method and cubic B-Spline interpolation curves. Engineering Structures, 2019, 201, 109813.	5.3	31
72	In-Plane Strength and Stiffness of Cross-Laminated Timber Shear Walls. Buildings, 2018, 8, 100.	3.1	30

#	ARTICLE	IF	CITATIONS
73	Yielding Steel Dampers as Restraining Devices to Control Seismic Sliding of Laminated Rubber Bearings for Highway Bridges: Analytical and Experimental Study. <i>Journal of Bridge Engineering</i> , 2019, 24, .	2.9	30
74	Seismic fragility analysis of deteriorating recycled aggregate concrete bridge columns subjected to freeze-thaw cycles. <i>Engineering Structures</i> , 2019, 187, 1-15.	5.3	30
75	Longitudinal seismic response control of long-span cable-stayed bridges using shape memory alloy wire-based lead rubber bearings under near-fault records. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 703-728.	2.5	29
76	Analytical Prediction and Finite-Element Simulation of the Lateral Response of Rocking Steel Bridge Piers with Energy-Dissipating Steel Bars. <i>Journal of Structural Engineering</i> , 2018, 144, .	3.4	28
77	Feasibility of using reduced length superelastic shape memory alloy strands in post-tensioned steel beam-column connections. <i>Journal of Intelligent Material Systems and Structures</i> , 2019, 30, 283-307.	2.5	28
78	Hysteresis model of shape memory alloy wire-based laminated rubber bearing under compression and unidirectional shear loadings. <i>Smart Materials and Structures</i> , 2015, 24, 065022.	3.5	27
79	Seismic vulnerability and loss assessment of an isolated simply-supported highway bridge retrofitted with optimized superelastic shape memory alloy cable restrainers. <i>Bulletin of Earthquake Engineering</i> , 2020, 18, 3285-3316.	4.1	27
80	Comparative Study on Seismic Fragility Assessment of Self-Centering Energy-Absorbing Dual Rocking Core versus Buckling Restrained Braced Systems under Mainshock-Aftershock Sequences. <i>Journal of Structural Engineering</i> , 2021, 147, .	3.4	26
81	Improved Bond Equations for Fiber-Reinforced Polymer Bars in Concrete. <i>Materials</i> , 2016, 9, 737.	2.9	25
82	Performance-Based Seismic Design of Shape Memory Alloy-Reinforced Concrete Bridge Piers. II: Methodology and Design Example. <i>Journal of Structural Engineering</i> , 2016, 142, .	3.4	25
83	Bond behavior of smooth and sand-coated shape memory alloy (SMA) rebar in concrete. <i>Structures</i> , 2016, 5, 186-195.	3.6	25
84	Effect of shape memory alloy-magnetorheological fluid-based structural control system on the marine structure using nonlinear time-history analysis. <i>Applied Ocean Research</i> , 2019, 91, 101836.	4.1	25
85	Probabilistic seismic vulnerability and loss assessment of a seismic resistance bridge system with post-tensioning precast segmental ultra-high performance concrete bridge columns. <i>Engineering Structures</i> , 2020, 225, 111321.	5.3	25
86	Sensitivity analysis of carbon fiber-reinforced elastomeric isolators based on experimental tests and finite element simulations. <i>Bulletin of Earthquake Engineering</i> , 2014, 12, 1025-1043.	4.1	24
87	Evaluating the Seismic Behavior of Segmental Unbounded Posttensioned Concrete Bridge Piers Using Factorial Analysis. <i>Journal of Bridge Engineering</i> , 2016, 21, .	2.9	24
88	Performance-based design of self-centering energy-absorbing dual rocking core system. <i>Journal of Constructional Steel Research</i> , 2021, 181, 106630.	3.9	24
89	Seismic collapse assessment of non-seismically designed circular RC bridge piers retrofitted with FRP composites. <i>Composite Structures</i> , 2017, 160, 901-916.	5.8	23
90	Scenario-based economic and environmental analysis of clean energy incentives for households in Canada: Multi criteria decision making approach. <i>Journal of Cleaner Production</i> , 2018, 198, 170-186.	9.3	23

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91	Performance-based seismic loss assessment of isolated simply-supported highway bridges retrofitted with different shape memory alloy cable restrainers in a life-cycle context. Journal of Intelligent Material Systems and Structures, 2020, 31, 1053-1075.	2.5	23
92	Genetic algorithm for predicting shear strength of steel fiber reinforced concrete beam with parameter identification and sensitivity analysis. Journal of Building Engineering, 2020, 29, 101205.	3.4	23
93	Performance of carbon fiber-reinforced elastomeric isolators manufactured in a simplified process: experimental investigations. Structural Control and Health Monitoring, 2014, 21, 1347-1359.	4.0	22
94	Seismic behavior of deficient reinforced concrete bridge piers confined with FRP – A fractional factorial analysis. Engineering Structures, 2016, 126, 531-546.	5.3	22
95	Cyclic response sensitivity of post-tensioned steel connections using sequential fractional factorial design. Journal of Constructional Steel Research, 2015, 112, 155-166.	3.9	21
96	Superelastic shape memory alloy flag-shaped hysteresis model with sliding response from residual deformation: Experimental and numerical study. Journal of Intelligent Material Systems and Structures, 2019, 30, 1823-1849.	2.5	21
97	Seismic Fragility Estimates for Cross-Laminated Timber Platform Building. Journal of Structural Engineering, 2020, 146, .	3.4	20
98	Comparative seismic fragility assessment of buckling restrained and self-centering (friction spring) Tj ETQq0 0 0 rgBT/Overlook 10 Tf 50	3.5	20
99	High-Strength Steel Reinforcement (ASTM A1035/A1035M Grade 690): State-of-the-Art Review. Journal of Structural Engineering, 2020, 146, .	3.4	19
100	Effect of cover on bond strength of structural concrete using commercially produced recycled coarse and fine aggregates. Construction and Building Materials, 2020, 255, 119275.	7.2	19
101	Shape memory alloy-based smart RC bridges: overview of state-of-the-art. Smart Structures and Systems, 2008, 4, 367-389.	1.9	19
102	GIS-Based Seismic Damage Estimation: Case Study for the City of Kelowna, BC. Natural Hazards Review, 2013, 14, 66-78.	1.5	17
103	Performance-based prioritisation for seismic retrofitting of reinforced concrete bridge bent. Structure and Infrastructure Engineering, 2014, 10, 929-949.	3.7	17
104	Modelling and analysis of retrofitted and un-retrofitted masonry-infilled RC frames under in-plane lateral loading. Structure and Infrastructure Engineering, 2009, 5, 71-90.	3.7	16
105	Highway Bridge Infrastructure in the Province of British Columbia (BC), Canada. Infrastructures, 2017, 2, 7.	2.8	16
106	Effect of bonding or unbonding on seismic behavior of bridge elastomeric bearings: lessons learned from past earthquakes in China and Japan and inspirations for future design. Advances in Bridge Engineering, 2021, 2, .	1.9	16
107	Hybrid self-centering rocking core system with fiction spring and viscous dampers for seismic resilience. Engineering Structures, 2022, 257, 114102.	5.3	16
108	Lateral load resistance of bridge piers under flexure and shear using factorial analysis. Engineering Structures, 2014, 59, 821-835.	5.3	15

#	ARTICLE	IF	CITATIONS
109	Structural capacity of timber I-joist with flange notch: Experimental evaluation. Construction and Building Materials, 2015, 79, 290-300.	7.2	15
110	Seismic fragility assessment of multi-span concrete highway bridges in British Columbia considering soil-structure interaction. Canadian Journal of Civil Engineering, 2021, 48, 39-51.	1.3	15
111	Probabilistic Nonlinear Displacement Ratio Prediction of Self-centering Energy-absorbing Dual Rocking Core System under Near-fault Ground Motions Using Machine Learning. Journal of Earthquake Engineering, 2023, 27, 488-519.	2.5	15
112	Mechanical and durability properties of concrete using recycled granulated steel. Construction and Building Materials, 2016, 123, 174-183.	7.2	14
113	Effects of curing regimes on the mechanical properties and durability of polymer-modified mortars – an experimental investigation. Journal of Sustainable Cement-Based Materials, 2016, 5, 324-347.	3.1	14
114	Multi-criteria optimization of lateral load-drift response of posttensioned steel beam-column connections. Engineering Structures, 2017, 130, 180-197.	5.3	14
115	Stability control of a novel frame integrated with an SMA-MRF control system for marine structural applications based on the frequency analysis. Applied Ocean Research, 2020, 97, 102091.	4.1	14
116	Performance of Hybrid Reinforced Concrete Beam Column Joint: A Critical Review. Fibers, 2016, 4, 13.	4.0	13
117	Performance-based seismic design of bridges: a global perspective and critical review of past, present and future directions. Structure and Infrastructure Engineering, 2019, 15, 539-554.	3.7	13
118	Occupant-based energy upgrades selection for Canadian residential buildings based on field energy data and calibrated simulations. Journal of Cleaner Production, 2020, 271, 122430.	9.3	13
119	Lateral cyclic response sensitivity of rectangular bridge piers confined with UHPFRC tube using fractional factorial design. Engineering Structures, 2021, 235, 111883.	5.3	13
120	Experimental Investigations on the Lateral Cyclic Response of Post-Tensioned Rocking Steel Bridge Piers. Journal of Structural Engineering, 2021, 147, .	3.4	13
121	Repair and Retrofit of RC Bridge Piers with Steel-Reinforced Grout Jackets: An Experimental Investigation. Journal of Bridge Engineering, 2022, 27, .	2.9	13
122	Reinforced Wood I-Joists with Web Openings. Journal of Structural Engineering, 2017, 143, .	3.4	12
123	Seismic performance assessment of a curved bridge equipped with a new type spring restrainer. Engineering Structures, 2017, 151, 105-114.	5.3	12
124	Low-cycle fatigue performance of high-strength steel reinforcing bars considering the effect of inelastic buckling. Engineering Structures, 2021, 235, 112114.	5.3	12
125	Simplified Predictive Expressions of Drift Limit States for Reinforced Concrete Circular Bridge Columns. Journal of Structural Engineering, 2022, 148, .	3.4	12
126	Response modification factors for steel buckling restrained braced frames designed as per the 2010 National Building Code of Canada. Canadian Journal of Civil Engineering, 2016, 43, 702-715.	1.3	11

#	ARTICLE	IF	CITATIONS
127	Novel Method for Interstory Drift Measurement of Building Frames Using Laser-Displacement Sensors. Journal of Structural Engineering, 2016, 142, .	3.4	11
128	A process-based LCA for selection of low-impact DBPs control strategy for indoor swimming pool operation. Journal of Cleaner Production, 2020, 270, 122372.	9.3	11
129	Experiment-Based Sensitivity Analysis of Scaled Carbon-Fiber-Reinforced Elastomeric Isolators in Bonded Applications. Fibers, 2016, 4, 4.	4.0	10
130	Statistical distribution of seismic performance criteria of retrofitted multi-column bridge bents using incremental dynamic analysis: a case study. Bulletin of Earthquake Engineering, 2013, 11, 2333-2362.	4.1	9
131	Characterization of piezoelectric materials for simultaneous strain and temperature sensing for ultra-low frequency applications. Smart Materials and Structures, 2015, 24, 085019.	3.5	9
132	Role of solution concentration, cement alkali and test duration on expansion of accelerated mortar bar test (AMBT). Materials and Structures/Materiaux Et Constructions, 2016, 49, 1955-1965.	3.1	9
133	Experimental investigation and numerical simulation of pallet-rack stub columns under compression load. Journal of Constructional Steel Research, 2017, 133, 282-299.	3.9	9
134	Capacity-Based Design for Cross-Laminated Timber Buildings. , 2017, , .		8
135	A novel shape memory alloy-based element for structural stability control in offshore structures under cyclic loading. Ships and Offshore Structures, 2020, 15, 844-851.	1.9	8
136	Direct Displacement-Based Design of Industrial Rack Clad Buildings. Earthquake Spectra, 2013, 29, 1311-1334.	3.1	7
137	Seismic performance comparison between force-based and performance-based design as per Canadian Highway Bridge Design Code (CHBDC) 2014. Canadian Journal of Civil Engineering, 2016, 43, 741-748.	1.3	7
138	Parametric Study on Mechanical Responses of Corrugated-Core Sandwich Panels for Bridge Decks. Journal of Bridge Engineering, 2017, 22, .	2.9	7
139	Flange-notched wood I-joists reinforced with OSB collars: Experimental investigation and sensitivity analysis. Structures, 2019, 19, 490-498.	3.6	7
140	Effect of rebar embedment length on the bond behavior of commercially produced recycled concrete using beam-end specimens. Construction and Building Materials, 2021, 286, 122957.	7.2	7
141	Seismic behaviour of repaired superelastic shape memory alloy reinforced concrete beam-column joint. Smart Structures and Systems, 2011, 7, 329-348.	1.9	7
142	Multi-criteria optimal design and seismic assessment of SMA RC piers and SMA cable restrainers for mitigating seismic damage of simply-supported highway bridges. Engineering Structures, 2022, 252, 113547.	5.3	7
143	Design, manufacturing, and performance evaluation of a novel smart roller bearing equipped with shape memory alloy wires. Smart Materials and Structures, 2022, 31, 025032.	3.5	7
144	Lateral Cyclic Response of RC Bridge Piers Made of Recycled Concrete: Experimental Study. Journal of Bridge Engineering, 2021, 26, .	2.9	6

#	ARTICLE	IF	CITATIONS
145	Drift Ratio Limit States for Circular Concrete Columns Reinforced with Different Types of High-Strength Steel Reinforcing Bars. Journal of Bridge Engineering, 2022, 27, .	2.9	6
146	Machine learning-based shear capacity prediction and reliability analysis of shear-critical RC beams strengthened with inorganic composites. Case Studies in Construction Materials, 2022, 16, e01008.	1.7	6
147	Elastic buckling behaviour of $\hat{\Gamma}$ -shaped rack columns under uniaxial compression. Engineering Structures, 2020, 212, 110469.	5.3	5
148	Pseudo-dynamic and quasi-static testing of hinged truss with all-steel buckling-restrained braces at base. Earthquake Engineering and Structural Dynamics, 2021, 50, 1204-1222.	4.4	5
149	Compression tests of thin-walled cold-formed steel columns with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e8074" altimg="si3.svg">\langle \text{mml:mi}\hat{\Gamma}\langle \text{mml:mi}\rangle \langle \text{mml:math}\rangle$ -shaped sections and patterned perforations distributed along the length. Thin-Walled Structures, 2022, 174, 109082.	5.3	5
150	Finite-Element Simulation of the Lateral Response of Posttensioned Base Rocking Steel Bridge Piers. Journal of Structural Engineering, 2022, 148, .	3.4	5
151	Seismic performance comparison between direct displacement-based and force-based design of a multi-span continuous reinforced concrete bridge with irregular column heights. Canadian Journal of Civil Engineering, 2014, 41, 440-449.	1.3	4
152	Cyclic Performance of a Piston Based Self-Centering Bracing System. , 2015, , .		4
153	Failure progression resistance of a generic steel moment-resisting frame under beam-removal scenarios. International Journal of Structural Integrity, 2017, 8, 308-325.	3.3	4
154	Seismic behavior of soft storey mid-rise steel frames with randomly distributed masonry infill. Steel and Composite Structures, 2013, 14, 523-545.	1.3	4
155	Fire performance curves for unprotected HSS steel columns. Steel and Composite Structures, 2013, 15, 705-724.	1.3	3
156	Seismic fragility assessment of bridge piers incorporating high-strength steel reinforcement and concrete under near-fault ground motions. Canadian Journal of Civil Engineering, 2021, 48, 1440-1453.	1.3	3
157	Life Cycle Thinking-Based Decision Making for Bridges under Seismic Conditions. II: A Case Study on Bridges with Superelastic SMA RC Piers. Journal of Bridge Engineering, 2022, 27, .	2.9	3
158	Seismic response sensitivity and optimal design of an isolated multi-span continuous highway bridge with self-centering SMA RC bridge piers and superelastic SMA restrainers. Journal of Intelligent Material Systems and Structures, 2022, 33, 2542-2563.	2.5	3
159	Life Cycle Thinking-Based Decision Making for Bridges under Seismic Conditions. I: Methodology and Framework. Journal of Bridge Engineering, 2022, 27, .	2.9	3
160	Seismic Vulnerability Assessment of a Multi-Span Continuous Steel-Girder Bridge Isolated by SMA Wire-Based Natural Rubber Bearings (SMA-NRB). , 2015, , .		2
161	Seismic Performance of Reinforced Concrete Wall with Superelastic Shape Memory Alloy Rebar. , 2015, , .		2
162	The Dynamics of Precast Post-Tensioned Rocking Columns. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
163	Glass fiber reinforced Polymer (GFRP) retrofitting of timber I-joists with opening and notch. Structures, 2021, 34, 804-826.	3.6	2
164	Effect of Multi-Story Brace Distribution on Seismic Performance of RC Tall Bridge Bents Retrofitted with Buckling Restrained Braces. Journal of Earthquake Engineering, 2022, 26, 8688-8705.	2.5	2
165	Investigation on Bond Performance Between Basalt FRP Rebars and Recycled Aggregate Concrete. Lecture Notes in Civil Engineering, 2023, , 695-705.	0.4	2
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