

M Shahria Alam

List of Publications by Year in descending order

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184
papers

6,276
citations

61977

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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% 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. <i>Journal of Structural Engineering</i> , 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. <i>Engineering Structures</i> , 2022, 255, 113903.	5.3	70
21	Exploratory investigation on mechanical anchors for connecting SMA bars to steel or FRP bars. <i>Materials and Structures/Materiaux Et Constructions</i> , 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. <i>Engineering Structures</i> , 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. <i>Journal of Bridge Engineering</i> , 2017, 22, .	2.9	65
24	Incremental dynamic analysis of steel frames equipped with NiTi shape memory alloy braces. <i>Structural Design of Tall and Special Buildings</i> , 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). <i>Construction and Building Materials</i> , 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. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 119, 75-90.	3.8	62
27	Green Concrete Made with RCA and FRP Scrap Aggregate: Fresh and Hardened Properties. <i>Journal of Materials in Civil Engineering</i> , 2013, 25, 1783-1794.	2.9	59
28	In-Plane Stiffness of Cross-Laminated Timber Panels with Openings. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , 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. <i>Earthquake Spectra</i> , 2012, 28, 1379-1404.	3.1	55
30	Buildings's seismic vulnerability assessment methods: a comparative study. <i>Natural Hazards</i> , 2012, 62, 405-424.	3.4	54
31	Seismic overstrength and ductility of concrete buildings reinforced with superelastic shape memory alloy rebar. <i>Engineering Structures</i> , 2012, 34, 8-20.	5.3	54
32	Comparative Seismic Fragility Assessment of an Existing Isolated Continuous Bridge Retrofitted with Different Energy Dissipation Devices. <i>Journal of Bridge Engineering</i> , 2019, 24, .	2.9	54
33	Feasibility study of utilizing superelastic shape memory alloy plates in steel beam-column connections for improved seismic performance. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 463-475.	2.5	53
34	Plastic hinge length of shape memory alloy (SMA) reinforced concrete bridge pier. <i>Engineering Structures</i> , 2016, 117, 321-331.	5.3	53
35	Passive seismic unseating prevention strategies implemented in highway bridges: A state-of-the-art review. <i>Engineering Structures</i> , 2019, 194, 77-93.	5.3	53
36	Seismic Performance of a Novel Single and Double Spring-Based Piston Bracing. <i>Journal of Structural Engineering</i> , 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. <i>Engineering Structures</i> , 2016, 107, 151-165.	5.3	51
38	Probabilistic seismic risk assessment of concrete bridge piers reinforced with different types of shape memory alloys. <i>Engineering Structures</i> , 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. <i>Engineering Structures</i> , 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. <i>Engineering Structures</i> , 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. <i>Engineering Structures</i> , 2020, 211, 110424.	5.3	46
42	Recycled aggregate concrete from large-scale production to sustainable field application. <i>Construction and Building Materials</i> , 2020, 262, 119979.	7.2	45
43	Improved Shear Equations for Steel Fiber-Reinforced Concrete Deep and Slender Beams. <i>ACI Structural Journal</i> , 2014, 111, .	0.2	45
44	Seismic performance evaluation of multi-column bridge bents retrofitted with different alternatives using incremental dynamic analysis. <i>Engineering Structures</i> , 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. <i>Journal of Earthquake Engineering</i> , 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. <i>Composite Structures</i> , 2018, 187, 518-534.	5.8	42
47	Prediction of carbonation depth for recycled aggregate concrete using ANN hybridized with swarm intelligence algorithms. <i>Construction and Building Materials</i> , 2021, 301, 124382.	7.2	42
48	State-of-the-Art Review of Seismic-Resistant Precast Bridge Columns. <i>Journal of Bridge Engineering</i> , 2020, 25, .	2.9	41
49	Investigation of Compressive Bond Behavior of Steel Rebar Embedded in Concrete With Partial Recycled Aggregate Replacement. <i>Structures</i> , 2016, 7, 153-164.	3.6	40
50	Plastic hinge length of rectangular RC columns using ensemble machine learning model. <i>Engineering Structures</i> , 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. <i>Engineering Structures</i> , 2019, 189, 509-522.	5.3	39
52	Evaluation of financial incentives for green buildings in Canadian landscape. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110199.	16.4	39
53	Principal Component and Multiple Regression Analysis for Steel Fiber Reinforced Concrete (SFRC) Beams. <i>International Journal of Concrete Structures and Materials</i> , 2013, 7, 303-317.	3.2	38
54	Multi-criteria optimization and seismic performance assessment of carbon FRP-based elastomeric isolator. <i>Engineering Structures</i> , 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. <i>Engineering Structures</i> , 2017, 148, 113-125.	5.3	38
56	Finite-Element Simulation of Posttensioned Steel Connections with Bolted Angles under Cyclic Loading. <i>Journal of Structural Engineering</i> , 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. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 131, 106024.	3.8	37
58	Sensitivity analysis on mechanical characteristics of lead-core steel-reinforced elastomeric bearings under cyclic loading. <i>Engineering Structures</i> , 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. <i>Structures</i> , 2017, 12, 102-114.	3.6	36
60	Self-centering energy-absorbing rocking core system with friction spring damper: Experiments, modeling and design. <i>Engineering Structures</i> , 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. <i>Soil Dynamics and Earthquake Engineering</i> , 2017, 101, 295-310.	3.8	35
62	Displacement-Based Seismic Design of Steel, FRP, and SMA Cable Restrainers for Isolated Simply Supported Bridges. <i>Journal of Bridge Engineering</i> , 2018, 23, .	2.9	35
63	Shear strength of reinforced concrete deep beams – A review with improved model by genetic algorithm and reliability analysis. <i>Structures</i> , 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. <i>Smart Materials and Structures</i> , 2016, 25, 075039.	3.5	34
65	Effect of different steel-reinforced elastomeric isolators on the seismic fragility of a highway bridge. <i>Structural Control and Health Monitoring</i> , 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. <i>Smart Materials and Structures</i> , 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. <i>Structures</i> , 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. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 673-691.	4.4	32
69	Revisiting the shear design equations for concrete beams reinforced with FRP rebar and stirrup. <i>Materials and Structures/Materiaux Et Constructions</i> , 2012, 45, 1593-1612.	3.1	31
70	Lateral Load – Drift Response and Limit States of Posttensioned Steel Beam-Column Connections: Parametric Study. <i>Journal of Structural Engineering</i> , 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. <i>Engineering Structures</i> , 2019, 201, 109813.	5.3	31
72	In-Plane Strength and Stiffness of Cross-Laminated Timber Shear Walls. <i>Buildings</i> , 2018, 8, 100.	3.1	30

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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. <i>Journal of Intelligent Material Systems and Structures</i> , 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. <i>Journal of Building Engineering</i> , 2020, 29, 101205.	3.4	23
93	Performance of carbon fiber-reinforced elastomeric isolators manufactured in a simplified process: experimental investigations. <i>Structural Control and Health Monitoring</i> , 2014, 21, 1347-1359.	4.0	22
94	Seismic behavior of deficient reinforced concrete bridge piers confined with FRP – A fractional factorial analysis. <i>Engineering Structures</i> , 2016, 126, 531-546.	5.3	22
95	Cyclic response sensitivity of post-tensioned steel connections using sequential fractional factorial design. <i>Journal of Constructional Steel Research</i> , 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. <i>Journal of Intelligent Material Systems and Structures</i> , 2019, 30, 1823-1849.	2.5	21
97	Seismic Fragility Estimates for Cross-Laminated Timber Platform Building. <i>Journal of Structural Engineering</i> , 2020, 146, .	3.4	20
98	Comparative seismic fragility assessment of buckling restrained and self-centering (friction spring) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	3.5	20
99	High-Strength Steel Reinforcement (ASTM A1035/A1035M Grade 690): State-of-the-Art Review. <i>Journal of Structural Engineering</i> , 2020, 146, .	3.4	19
100	Effect of cover on bond strength of structural concrete using commercially produced recycled coarse and fine aggregates. <i>Construction and Building Materials</i> , 2020, 255, 119275.	7.2	19
101	Shape memory alloy-based smart RC bridges: overview of state-of-the-art. <i>Smart Structures and Systems</i> , 2008, 4, 367-389.	1.9	19
102	GIS-Based Seismic Damage Estimation: Case Study for the City of Kelowna, BC. <i>Natural Hazards Review</i> , 2013, 14, 66-78.	1.5	17
103	Performance-based prioritisation for seismic retrofitting of reinforced concrete bridge bent. <i>Structure and Infrastructure Engineering</i> , 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. <i>Structure and Infrastructure Engineering</i> , 2009, 5, 71-90.	3.7	16
105	Highway Bridge Infrastructure in the Province of British Columbia (BC), Canada. <i>Infrastructures</i> , 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. <i>Advances in Bridge Engineering</i> , 2021, 2, .	1.9	16
107	Hybrid self-centering rocking core system with fiction spring and viscous dampers for seismic resilience. <i>Engineering Structures</i> , 2022, 257, 114102.	5.3	16
108	Lateral load resistance of bridge piers under flexure and shear using factorial analysis. <i>Engineering Structures</i> , 2014, 59, 821-835.	5.3	15

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109	Structural capacity of timber I-joist with flange notch: Experimental evaluation. <i>Construction and Building Materials</i> , 2015, 79, 290-300.	7.2	15
110	Seismic fragility assessment of multi-span concrete highway bridges in British Columbia considering soil-structure interaction. <i>Canadian Journal of Civil Engineering</i> , 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. <i>Journal of Earthquake Engineering</i> , 2023, 27, 488-519.	2.5	15
112	Mechanical and durability properties of concrete using recycled granulated steel. <i>Construction and Building Materials</i> , 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. <i>Journal of Sustainable Cement-Based Materials</i> , 2016, 5, 324-347.	3.1	14
114	Multi-criteria optimization of lateral load-drift response of posttensioned steel beam-column connections. <i>Engineering Structures</i> , 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. <i>Applied Ocean Research</i> , 2020, 97, 102091.	4.1	14
116	Performance of Hybrid Reinforced Concrete Beam Column Joint: A Critical Review. <i>Fibers</i> , 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. <i>Structure and Infrastructure Engineering</i> , 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. <i>Journal of Cleaner Production</i> , 2020, 271, 122430.	9.3	13
119	Lateral cyclic response sensitivity of rectangular bridge piers confined with UHPFRC tube using fractional factorial design. <i>Engineering Structures</i> , 2021, 235, 111883.	5.3	13
120	Experimental Investigations on the Lateral Cyclic Response of Post-Tensioned Rocking Steel Bridge Piers. <i>Journal of Structural Engineering</i> , 2021, 147, .	3.4	13
121	Repair and Retrofit of RC Bridge Piers with Steel-Reinforced Grout Jackets: An Experimental Investigation. <i>Journal of Bridge Engineering</i> , 2022, 27, .	2.9	13
122	Reinforced Wood I-Joists with Web Openings. <i>Journal of Structural Engineering</i> , 2017, 143, .	3.4	12
123	Seismic performance assessment of a curved bridge equipped with a new type spring restrainer. <i>Engineering Structures</i> , 2017, 151, 105-114.	5.3	12
124	Low-cycle fatigue performance of high-strength steel reinforcing bars considering the effect of inelastic buckling. <i>Engineering Structures</i> , 2021, 235, 112114.	5.3	12
125	Simplified Predictive Expressions of Drift Limit States for Reinforced Concrete Circular Bridge Columns. <i>Journal of Structural Engineering</i> , 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. <i>Canadian Journal of Civil Engineering</i> , 2016, 43, 702-715.	1.3	11

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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

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145	Drift Ratio Limit States for Circular Concrete Columns Reinforced with Different Types of High-Strength Steel Reinforcing Bars. <i>Journal of Bridge Engineering</i> , 2022, 27, .	2.9	6
146	Machine learning-based shear capacity prediction and reliability analysis of shear-critical RC beams strengthened with inorganic composites. <i>Case Studies in Construction Materials</i> , 2022, 16, e01008.	1.7	6
147	Elastic buckling behaviour of $\hat{\Gamma}$ -shaped rack columns under uniaxial compression. <i>Engineering Structures</i> , 2020, 212, 110469.	5.3	5
148	Pseudo-dynamic and quasi-static testing of hinged truss with all-steel buckling-restrained braces at base. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 1204-1222.	4.4	5
149	Compression tests of thin-walled cold-formed steel columns with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e8074" altimg="si3.svg" \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -shaped sections and patterned perforations distributed along the length. <i>Thin-Walled Structures</i> , 2022, 174, 109082.	5.3	5
150	Finite-Element Simulation of the Lateral Response of Posttensioned Base Rocking Steel Bridge Piers. <i>Journal of Structural Engineering</i> , 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. <i>Canadian Journal of Civil Engineering</i> , 2014, 41, 440-449.	1.3	4
152	Cyclic Performance of a Piston Based Self-Centering Bracing System. , 2015, , .		4
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