Mohamed A Moustafa

List of Publications by Year
in descending order

53 papers	632 citations	687220 13 h-index	713332 21 g-index
54 all docs	54 docs citations	54 times ranked	351 citing authors

#	Article	IF	Citations
1	Compact Hybrid Simulation System: Validation and Applications for Braced Frames Seismic Testing. Journal of Earthquake Engineering, 2022, 26, 1565-1594.	1.4	9
2	Seismic Design and Performance of Reinforced Concrete Special Moment Resisting Frames with Wall Dampers. Journal of Earthquake Engineering, 2022, 26, 744-763.	1.4	6
3	Assessing the Quality of Real-Time Hybrid Simulation Tests with Deep Learning Models. Conference Proceedings of the Society for Experimental Mechanics, 2022, , 13-22.	0.3	0
4	Structural and buckling behavior of full-scale slender UHPC columns. Engineering Structures, 2022, 255, 113928.	2.6	13
5	Reinforcement detailing effects on axial behavior of full-scale UHPC columns. Journal of Building Engineering, 2022, 49, 104064.	1.6	0
6	Behavior Study of Commercial Polyurea under Monotonic, Rate Dependent, Cyclic, and Fatigue Tensile Loading for Potential Structural Applications. Polymers, 2022, 14, 1878.	2.0	2
7	Machine Learning Techniques in Structural Wind Engineering: A State-of-the-Art Review. Applied Sciences (Switzerland), 2022, 12, 5232.	1.3	12
8	Effect of Damping Modeling and Characteristics on Seismic Vulnerability Assessment of Multi-Frame Bridges. Journal of Earthquake Engineering, 2021, 25, 1616-1643.	1.4	8
9	Numerical analysis of special concentric braced frames using experimentally-validated fatigue and fracture model under short and long duration earthquakes. Bulletin of Earthquake Engineering, 2021, 19, 287-316.	2.3	6
10	Analytical studies and design of steel plate girder ABC bridges under seismic loads. Engineering Structures, 2021, 227, 111453.	2.6	2
11	Experimental behavior of poly methyl methacrylate polymer concrete for bridge deck bulb tee girders longitudinal field joints. Construction and Building Materials, 2021, 270, 121840.	3.2	11
12	Performance-Based Assessment and Structural Response of 20-Story SAC Building under Wind Hazards through Collapse. Journal of Structural Engineering, 2021, 147, .	1.7	17
13	Compressive behavior and stress–strain relationships of confined and unconfined UHPC. Construction and Building Materials, 2021, 272, 121844.	3.2	44
14	Experimental seismic behavior of ultra-high performance concrete columns with high strength steel reinforcement. Engineering Structures, 2021, 232, 111885.	2.6	46
15	Analytical Stress–Strain model for steel spirals-confined UHPC. Composites Part C: Open Access, 2021, 5, 100130.	1.5	5
16	Damage assessment of Shuanghe Confucian temple after Changning earthquake mainshock and aftershocks series. Bulletin of Earthquake Engineering, 2021, 19, 5977-6001.	2.3	6
17	Seismic performance of a two-span steel girder bridge with ABC connections. Engineering Structures, 2021, 241, 112502.	2.6	1
18	Full-scale testing of non-proprietary ultra-high performance concrete for deck bulb tee longitudinal field joints. Engineering Structures, 2021, 243, 112696.	2.6	6

#	Article	IF	Citations
19	Seismic response of precast bridge columns with composite non-proprietary UHPC filled ducts ABC connections. Composite Structures, 2021, 274, 114376.	3.1	7
20	Comparative structural behavior of bridge deck panels with polymer concrete and UHPC transverse field joints. Engineering Structures, 2021, 247, 113195.	2.6	3
21	Finite element modeling and assessment of seismic response of electrical substations porcelain post insulators. Soil Dynamics and Earthquake Engineering, 2021, 150, 106895.	1.9	4
22	A compressive sensing method for processing and improving vision–based target–tracking signals for structural health monitoring. Computer-Aided Civil and Infrastructure Engineering, 2021, 36, 1203-1223.	6.3	24
23	Mechanical characterization and material variability effects of emerging non-proprietary UHPC mixes for accelerated bridge construction field joints. Construction and Building Materials, 2021, 308, 125064.	3.2	10
24	Underexposed Vision-Based Sensors' Image Enhancement for Feature Identification in Close-Range Photogrammetry and Structural Health Monitoring. Applied Sciences (Switzerland), 2021, 11, 11086.	1.3	3
25	Experimental Behavior of Precast Bridge Deck Systems with Non-Proprietary UHPC Transverse Field Joints. Materials, 2021, 14, 6964.	1.3	4
26	Modeling sensitivity analysis of special concentrically braced frames under short and long duration ground motions. Soil Dynamics and Earthquake Engineering, 2020, 128, 105867.	1.9	15
27	Pretest analysis of shake table response of a two-span steel girder bridge incorporating accelerated bridge construction connections. Frontiers of Structural and Civil Engineering, 2020, 14, 169-184.	1.2	5
28	Synthesis of Repair Materials and Methods for Reinforced Concrete and Prestressed Bridge Girders. Materials, 2020, 13, 4079.	1.3	13
29	Performance and Limitations of Real-Time Hybrid Simulation with Nonlinear Computational Substructures. Experimental Techniques, 2020, 44, 715-734.	0.9	12
30	Implementation and Evaluation of Vision-Based Sensor Image Compression for Close-Range Photogrammetry and Structural Health Monitoring. Sensors, 2020, 20, 6844.	2.1	10
31	Real-Time Hybrid Simulation with Deep Learning Computational Substructures: System Validation Using Linear Specimens. Machine Learning and Knowledge Extraction, 2020, 2, 469-489.	3.2	11
32	Communication Development and Verification for Python-Based Machine Learning Models for Real-Time Hybrid Simulation. Frontiers in Built Environment, 2020, 6, .	1.2	8
33	Effectiveness and Implications of Seismic Retrofit Measures for Deck Unseating of Multiframe Bridges with Regular and Irregular Geometry. Journal of Performance of Constructed Facilities, 2020, 34, 04020037.	1.0	0
34	Numerical modeling and design sensitivity of structural and seismic behavior of UHPC bridge piers. Engineering Structures, 2020, 219, 110792.	2.6	35
35	Structural health monitoring and seismic response assessment of bridge structures using target-tracking digital image correlation. Engineering Structures, 2020, 213, 110551.	2.6	67
36	Predicting Nonlinear Seismic Response of Structural Braces Using Machine Learning. , 2020, , .		1

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37	A hybrid simulation approach for aeroelastic wind tunnel testing: challenges and foundational work. International Journal of Lifecycle Performance Engineering, 2020, 4, 46.	0.2	0
38	Time-Dependent Seismic Fragilities of Older and Newly Designed Multi-Frame Reinforced Concrete Box-Girder Bridges in California. Earthquake Spectra, 2019, 35, 233-266.	1.6	15
39	Design, Construction, and Shake Table Testing of a Steel Girder Bridge System with ABC Connections. Journal of Bridge Engineering, 2019, 24, .	1.4	22
40	System Identification of Large-Scale Bridges Using Target-Tracking Digital Image Correlation. Frontiers in Built Environment, 2019, 5, .	1.2	13
41	Shake table tests of special concentric braced frames under short and long duration earthquakes. Engineering Structures, 2019, 200, 109695.	2.6	12
42	Probabilistic seismic assessment of as-built and retrofitted old and newly designed skewed multi-frame bridges. Soil Dynamics and Earthquake Engineering, 2019, 119, 170-186.	1.9	14
43	Seismic Fragilities of High-Voltage Substation Disconnect Switches. Earthquake Spectra, 2019, 35, 1559-1582.	1.6	17
44	MC-BAM: Moment–curvature analysis for beams with advanced materials. SoftwareX, 2019, 9, 175-182.	1.2	12
45	Modeling and Evaluation of a Seismically Isolated Bridge Using Unbonded Fiber-Reinforced Elastomeric Isolators. Earthquake Spectra, 2018, 34, 145-168.	1.6	8
46	Seismic response of potential transformers and mitigation using innovative multiple tuned mass dampers. Engineering Structures, 2018, 174, 67-80.	2.6	21
47	Effect of Shear Keys on Seismic Response of Irregular Bridge Configurations. Transportation Research Record, 2017, 2642, 155-165.	1.0	9
48	Effective Width of Integral Bent Caps in Reinforced-Concrete Box-Girder Bridges. , 2016, , .		0
49	Structural Performance of Porcelain and Polymer Post Insulators in High Voltage Electrical Switches. Journal of Performance of Constructed Facilities, 2016, 30, .	1.0	29
50	Substructured Dynamic Testing of Substation Disconnect Switches. Earthquake Spectra, 2016, 32, 567-589.	1.6	10
51	Seismic response of bent caps in as-built and retrofitted reinforced concrete box-girder bridges. Engineering Structures, 2015, 98, 59-73.	2.6	13
52	LASER SCANNING, MODELING, AND ANALYSIS FOR DAMAGE ASSESSMENT AND RESTORATION OF HISTORICAL STRUCTURES. , 2015, , .		6
53	System Identification of Large-Scale Bridge Model using Digital Image Correlation from Monochrome and Color Cameras. , 0, , .		2