

Mohamed A Moustafa

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2877107/publications.pdf>

Version: 2024-02-01

53
papers

632
citations

687363

13
h-index

713466

21
g-index

54
all docs

54
docs citations

54
times ranked

351
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural health monitoring and seismic response assessment of bridge structures using target-tracking digital image correlation. <i>Engineering Structures</i> , 2020, 213, 110551.	5.3	67
2	Experimental seismic behavior of ultra-high performance concrete columns with high strength steel reinforcement. <i>Engineering Structures</i> , 2021, 232, 111885.	5.3	46
3	Compressive behavior and stress-strain relationships of confined and unconfined UHPC. <i>Construction and Building Materials</i> , 2021, 272, 121844.	7.2	44
4	Numerical modeling and design sensitivity of structural and seismic behavior of UHPC bridge piers. <i>Engineering Structures</i> , 2020, 219, 110792.	5.3	35
5	Structural Performance of Porcelain and Polymer Post Insulators in High Voltage Electrical Switches. <i>Journal of Performance of Constructed Facilities</i> , 2016, 30, .	2.0	29
6	A compressive sensing method for processing and improving vision-based target-tracking signals for structural health monitoring. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2021, 36, 1203-1223.	9.8	24
7	Design, Construction, and Shake Table Testing of a Steel Girder Bridge System with ABC Connections. <i>Journal of Bridge Engineering</i> , 2019, 24, .	2.9	22
8	Seismic response of potential transformers and mitigation using innovative multiple tuned mass dampers. <i>Engineering Structures</i> , 2018, 174, 67-80.	5.3	21
9	Seismic Fragilities of High-Voltage Substation Disconnect Switches. <i>Earthquake Spectra</i> , 2019, 35, 1559-1582.	3.1	17
10	Performance-Based Assessment and Structural Response of 20-Story SAC Building under Wind Hazards through Collapse. <i>Journal of Structural Engineering</i> , 2021, 147, .	3.4	17
11	Time-Dependent Seismic Fragilities of Older and Newly Designed Multi-Frame Reinforced Concrete Box-Girder Bridges in California. <i>Earthquake Spectra</i> , 2019, 35, 233-266.	3.1	15
12	Modeling sensitivity analysis of special concentrically braced frames under short and long duration ground motions. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 128, 105867.	3.8	15
13	Probabilistic seismic assessment of as-built and retrofitted old and newly designed skewed multi-frame bridges. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 119, 170-186.	3.8	14
14	Seismic response of bent caps in as-built and retrofitted reinforced concrete box-girder bridges. <i>Engineering Structures</i> , 2015, 98, 59-73.	5.3	13
15	System Identification of Large-Scale Bridges Using Target-Tracking Digital Image Correlation. <i>Frontiers in Built Environment</i> , 2019, 5, .	2.3	13
16	Synthesis of Repair Materials and Methods for Reinforced Concrete and Prestressed Bridge Girders. <i>Materials</i> , 2020, 13, 4079.	2.9	13
17	Structural and buckling behavior of full-scale slender UHPC columns. <i>Engineering Structures</i> , 2022, 255, 113928.	5.3	13
18	Shake table tests of special concentric braced frames under short and long duration earthquakes. <i>Engineering Structures</i> , 2019, 200, 109695.	5.3	12

#	ARTICLE	IF	CITATIONS
19	MC-BAM: Moment-curvature analysis for beams with advanced materials. <i>SoftwareX</i> , 2019, 9, 175-182.	2.6	12
20	Performance and Limitations of Real-Time Hybrid Simulation with Nonlinear Computational Substructures. <i>Experimental Techniques</i> , 2020, 44, 715-734.	1.5	12
21	Machine Learning Techniques in Structural Wind Engineering: A State-of-the-Art Review. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5232.	2.5	12
22	Real-Time Hybrid Simulation with Deep Learning Computational Substructures: System Validation Using Linear Specimens. <i>Machine Learning and Knowledge Extraction</i> , 2020, 2, 469-489.	5.0	11
23	Experimental behavior of poly methyl methacrylate polymer concrete for bridge deck bulb tee girders longitudinal field joints. <i>Construction and Building Materials</i> , 2021, 270, 121840.	7.2	11
24	Substructured Dynamic Testing of Substation Disconnect Switches. <i>Earthquake Spectra</i> , 2016, 32, 567-589.	3.1	10
25	Implementation and Evaluation of Vision-Based Sensor Image Compression for Close-Range Photogrammetry and Structural Health Monitoring. <i>Sensors</i> , 2020, 20, 6844.	3.8	10
26	Mechanical characterization and material variability effects of emerging non-proprietary UHPC mixes for accelerated bridge construction field joints. <i>Construction and Building Materials</i> , 2021, 308, 125064.	7.2	10
27	Effect of Shear Keys on Seismic Response of Irregular Bridge Configurations. <i>Transportation Research Record</i> , 2017, 2642, 155-165.	1.9	9
28	Compact Hybrid Simulation System: Validation and Applications for Braced Frames Seismic Testing. <i>Journal of Earthquake Engineering</i> , 2022, 26, 1565-1594.	2.5	9
29	Modeling and Evaluation of a Seismically Isolated Bridge Using Unbonded Fiber-Reinforced Elastomeric Isolators. <i>Earthquake Spectra</i> , 2018, 34, 145-168.	3.1	8
30	Communication Development and Verification for Python-Based Machine Learning Models for Real-Time Hybrid Simulation. <i>Frontiers in Built Environment</i> , 2020, 6, .	2.3	8
31	Effect of Damping Modeling and Characteristics on Seismic Vulnerability Assessment of Multi-Frame Bridges. <i>Journal of Earthquake Engineering</i> , 2021, 25, 1616-1643.	2.5	8
32	Seismic response of precast bridge columns with composite non-proprietary UHPC filled ducts ABC connections. <i>Composite Structures</i> , 2021, 274, 114376.	5.8	7
33	Seismic Design and Performance of Reinforced Concrete Special Moment Resisting Frames with Wall Dampers. <i>Journal of Earthquake Engineering</i> , 2022, 26, 744-763.	2.5	6
34	Numerical analysis of special concentric braced frames using experimentally-validated fatigue and fracture model under short and long duration earthquakes. <i>Bulletin of Earthquake Engineering</i> , 2021, 19, 287-316.	4.1	6
35	Damage assessment of Shuanghe Confucian temple after Changning earthquake mainshock and aftershocks series. <i>Bulletin of Earthquake Engineering</i> , 2021, 19, 5977-6001.	4.1	6
36	Full-scale testing of non-proprietary ultra-high performance concrete for deck bulb tee longitudinal field joints. <i>Engineering Structures</i> , 2021, 243, 112696.	5.3	6

#	ARTICLE	IF	CITATIONS
37	LASER SCANNING, MODELING, AND ANALYSIS FOR DAMAGE ASSESSMENT AND RESTORATION OF HISTORICAL STRUCTURES. , 2015, , .		6
38	Pretest analysis of shake table response of a two-span steel girder bridge incorporating accelerated bridge construction connections. <i>Frontiers of Structural and Civil Engineering</i> , 2020, 14, 169-184.	2.9	5
39	Analytical Stress-Strain model for steel spirals-confined UHPC. <i>Composites Part C: Open Access</i> , 2021, 5, 100130.	3.2	5
40	Finite element modeling and assessment of seismic response of electrical substations porcelain post insulators. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 150, 106895.	3.8	4
41	Experimental Behavior of Precast Bridge Deck Systems with Non-Proprietary UHPC Transverse Field Joints. <i>Materials</i> , 2021, 14, 6964.	2.9	4
42	Comparative structural behavior of bridge deck panels with polymer concrete and UHPC transverse field joints. <i>Engineering Structures</i> , 2021, 247, 113195.	5.3	3
43	Underexposed Vision-Based Sensors-Image Enhancement for Feature Identification in Close-Range Photogrammetry and Structural Health Monitoring. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11086.	2.5	3
44	Analytical studies and design of steel plate girder ABC bridges under seismic loads. <i>Engineering Structures</i> , 2021, 227, 111453.	5.3	2
45	System Identification of Large-Scale Bridge Model using Digital Image Correlation from Monochrome and Color Cameras. , 0, , .		2
46	Behavior Study of Commercial Polyurea under Monotonic, Rate Dependent, Cyclic, and Fatigue Tensile Loading for Potential Structural Applications. <i>Polymers</i> , 2022, 14, 1878.	4.5	2
47	Seismic performance of a two-span steel girder bridge with ABC connections. <i>Engineering Structures</i> , 2021, 241, 112502.	5.3	1
48	Predicting Nonlinear Seismic Response of Structural Braces Using Machine Learning. , 2020, , .		1
49	Effective Width of Integral Bent Caps in Reinforced-Concrete Box-Girder Bridges. , 2016, , .		0
50	Effectiveness and Implications of Seismic Retrofit Measures for Deck Unseating of Multiframe Bridges with Regular and Irregular Geometry. <i>Journal of Performance of Constructed Facilities</i> , 2020, 34, 04020037.	2.0	0
51	Assessing the Quality of Real-Time Hybrid Simulation Tests with Deep Learning Models. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2022, , 13-22.	0.5	0
52	A hybrid simulation approach for aeroelastic wind tunnel testing: challenges and foundational work. <i>International Journal of Lifecycle Performance Engineering</i> , 2020, 4, 46.	0.2	0
53	Reinforcement detailing effects on axial behavior of full-scale UHPC columns. <i>Journal of Building Engineering</i> , 2022, 49, 104064.	3.4	0