

Khalid M Mosalam

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

132 papers	3,376 citations	29 h-index	55 g-index
146 ext. papers	4,151 ext. citations	3.7 avg, IF	6.08 L-index

#	Paper	IF	Citations
132	Distributed Fiber-Optic Strain Sensing of an Innovative Reinforced Concrete Beam-Column Connection. <i>Sensors</i> , 2022 , 22, 3957	3.8	1
131	Human-machine collaboration framework for structural health monitoring and resiliency. <i>Engineering Structures</i> , 2021 , 235, 112084	4.7	3
130	Auto-Regressive Integrated Moving-Average Machine Learning for Damage Identification of Steel Frames. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6084	2.6	3
129	Structural Health Monitoring Using Machine Learning and Cumulative Absolute Velocity Features. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 5727	2.6	4
128	Balanced semisupervised generative adversarial network for damage assessment from low-data imbalanced-class regime. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2021 , 36, 1094-1113	8.4	7
127	Improved shear strength model for exterior reinforced concrete beam-column joints using gene expression programming. <i>Engineering Structures</i> , 2021 , 228, 111563	4.7	7
126	Shake table testing of a rocking podium: Results of a blind prediction contest. <i>Earthquake Engineering and Structural Dynamics</i> , 2021 , 50, 1043-1062	4	18
125	Multi-performance blast pressure-duration curves of laminated glass panes. <i>International Journal of Protective Structures</i> , 2021 , 12, 226-244	1.5	1
124	Finite element modeling and assessment of seismic response of electrical substations porcelain post insulators. <i>Soil Dynamics and Earthquake Engineering</i> , 2021 , 150, 106895	3.5	
123	Experimental investigation and numerical analysis of RC beams shear strengthened with FRP/ECC composite layer. <i>Composite Structures</i> , 2020 , 246, 112436	5.3	20
122	Prediction of blast pressure-duration capacity of monolithic Thermally Tempered Glass panes. <i>International Journal of Impact Engineering</i> , 2020 , 136, 103433	4	1
121	. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 598-610	10.7	9
120	Performance-based design of joint waterproofing of segmental tunnel linings using hybrid computational/experimental procedures. <i>Tunnelling and Underground Space Technology</i> , 2020 , 96, 103172	5.7	14
119	Ground motion selection and modification evaluation for highway bridges subjected to Bi-directional horizontal excitation. <i>Soil Dynamics and Earthquake Engineering</i> , 2020 , 130, 105994	3.5	4
118	Probabilistic performance-based seismic assessment of an existing masonry building. <i>Earthquake Spectra</i> , 2020 , 36, 271-298	3.4	4
117	A computationally rigorous approach to hybrid fire testing. <i>Computers and Structures</i> , 2020 , 238, 106301	4.5	5
116	PEER Hub ImageNet: A Large-Scale Multiattribute Benchmark Data Set of Structural Images. <i>Journal of Structural Engineering</i> , 2020 , 146, 04020198	3	14

115	Adaptive tuned mass damper with shape memory alloy for seismic application. <i>Engineering Structures</i> , 2020 , 223, 111171	4.7	13
114	Structural Behavior of Steel-Plate Girders in Shear: Experimental Study and Review of Current Design Principles. <i>Journal of Structural Engineering</i> , 2020 , 146, 04020243	3	2
113	Response of Mid-Rise Reinforced Concrete Frame Buildings to the 2017 Puebla Earthquake. <i>Earthquake Spectra</i> , 2019 , 35, 1763-1793	3.4	5
112	Similitude theory for scaled friction pendulum bearings for shaking table experiments. <i>Soil Dynamics and Earthquake Engineering</i> , 2019 , 121, 399-404	3.5	5
111	Deep leaf-bootstrapping generative adversarial network for structural image data augmentation. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2019 , 34, 755-773	8.4	43
110	NEW DIRECTIONS IN STRUCTURAL HEALTH MONITORING. <i>NED University Journal of Research</i> , 2019 , 2, 77-112	0.3	4
109	Failure mechanism of joint waterproofing in precast segmental tunnel linings. <i>Tunnelling and Underground Space Technology</i> , 2019 , 84, 334-352	5.7	51
108	Deep Transfer Learning for Image-Based Structural Damage Recognition. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2018 , 33, 748-768	8.4	256
107	Performance-based engineering and multi-criteria decision analysis for sustainable and resilient building design. <i>Structural Safety</i> , 2018 , 74, 1-13	4.9	29
106	Sealant behavior of gasketed segmental joints in shield tunnels: An experimental and numerical study. <i>Tunnelling and Underground Space Technology</i> , 2018 , 77, 127-141	5.7	33
105	Response Spectrum Code-Conforming PEER PBEE using Stochastic Dynamic Analysis and Information Theory. <i>KSCE Journal of Civil Engineering</i> , 2018 , 22, 1002-1015	1.9	2
104	Mechanical behavior of ultra-high toughness cementitious composite strengthened with Fiber Reinforced Polymer grid. <i>Composite Structures</i> , 2018 , 184, 1-10	5.3	12
103	Shaking table testing of granite cladding with undercut bolt anchorage. <i>Engineering Structures</i> , 2018 , 171, 488-499	4.7	12
102	Lifecycle multi criteria decision analysis of buildings using generalized expected utility 2018 , 770-788		
101	Kernel density maximum entropy method with generalized moments for evaluating probability distributions, including tails, from a small sample of data. <i>International Journal for Numerical Methods in Engineering</i> , 2018 , 113, 1904-1928	2.4	22
100	Real-Time Emotion Detection via E-See 2018 ,		1
99	Sunlight Permeability of Translucent Concrete Panels as a Building Envelope. <i>Journal of Architectural Engineering</i> , 2018 , 24, 04018015	1.5	8
98	Seismic performance and restraint system of suspended 800 kV thyristor valve. <i>Engineering Structures</i> , 2018 , 169, 179-187	4.7	8

97	Lyapunov-Based Nonlinear Solution Algorithm for Structural Analysis. <i>Journal of Engineering Mechanics - ASCE</i> , 2018 , 144, 04018082	2.4	2
96	Shaking table test method of building curtain walls using floor capacity demand diagrams. <i>Bulletin of Earthquake Engineering</i> , 2017 , 15, 3185-3205	3.7	6
95	Ubiquitous luminance sensing using the Raspberry Pi and Camera Module system. <i>Lighting Research and Technology</i> , 2017 , 49, 904-921	2	12
94	Feasibility of shape memory alloy in a tuneable mass damper to reduce excessive in-service vibration. <i>Structural Control and Health Monitoring</i> , 2017 , 24, e1858	4.5	18
93	Acceleration demand of the outer-skin curtain wall system of the Shanghai Tower. <i>Structural Design of Tall and Special Buildings</i> , 2017 , 26, e1341	1.8	5
92	Cumulative Absolute Velocity as a Local Damage Indicator of Instrumented Structures. <i>Earthquake Spectra</i> , 2017 , 33, 641-664	3.4	19
91	Equivalent Linearization Methods for Stochastic Dynamic Analysis Using Linear Response Surfaces. <i>Journal of Engineering Mechanics - ASCE</i> , 2017 , 143, 04017055	2.4	13
90	Shaking Table Tests of the Cable Tray System in Nuclear Power Plants. <i>Journal of Performance of Constructed Facilities</i> , 2017 , 31, 04017018	2	2
89	Seismic demand and experimental evaluation of the nonstructural building curtain wall: A review. <i>Soil Dynamics and Earthquake Engineering</i> , 2017 , 100, 16-33	3.5	19
88	Comparison of the structural behavior of reinforced concrete and steel fiber reinforced concrete tunnel segmental joints. <i>Tunnelling and Underground Space Technology</i> , 2017 , 68, 38-57	5.7	89
87	Development and application of the integrated sealant test apparatus for sealing gaskets in tunnel segmental joints. <i>Tunnelling and Underground Space Technology</i> , 2017 , 63, 54-68	5.7	74
86	Evaluating energy consumption saving from translucent concrete building envelope. <i>Energy and Buildings</i> , 2017 , 153, 448-460	7	18
85	Strengthening of concrete beams by monolayer prepreg composites with and without graphene reinforcement. <i>Construction and Building Materials</i> , 2017 , 151, 866-880	6.7	5
84	Drift demand of the outer-skin curtain wall system of the Shanghai Tower. <i>Structural Design of Tall and Special Buildings</i> , 2017 , 26, e1388	1.8	3
83	The 3rd Global Summit of Research Institutes for Disaster Risk Reduction: Expanding the Platform for Bridging Science and Policy Making. <i>International Journal of Disaster Risk Science</i> , 2017 , 8, 224-230	4.6	7
82	A Decision Support Tool for Sustainable and Resilient Building Design. <i>Springer Series in Reliability Engineering</i> , 2017 , 509-536	0.2	5
81	Substructured Dynamic Testing of Substation Disconnect Switches. <i>Earthquake Spectra</i> , 2016 , 32, 567-589	3.4	7
80	Damage Detection Using Improved Direct Stiffness Calculations [A Case Study]. <i>International Journal of Structural Stability and Dynamics</i> , 2016 , 16, 1640002	1.9	8

79	Lyapunov Stability and Accuracy of Direct Integration Algorithms Applied to Nonlinear Dynamic Problems. <i>Journal of Engineering Mechanics - ASCE</i> , 2016 , 142, 04016022	2.4	5
78	Progressive Collapse Simulation of Vulnerable Reinforced Concrete Buildings 2016 , 107-124		
77	Rocking Spine for Enhanced Seismic Performance of Reinforced Concrete Frames with Infills. <i>Journal of Structural Engineering</i> , 2016 , 142, 04016096	3	6
76	Direct Integration Algorithms for Efficient Nonlinear Seismic Response of Reinforced Concrete Highway Bridges. <i>Journal of Bridge Engineering</i> , 2016 , 21, 04016041	2.7	9
75	Multiscale Homogenization Analysis of the Effective Elastic Properties of Masonry Structures. <i>Journal of Materials in Civil Engineering</i> , 2016 , 28, 04016056	3	5
74	Structural Performance of Porcelain and Polymer Post Insulators in High Voltage Electrical Switches. <i>Journal of Performance of Constructed Facilities</i> , 2016 , 30, 04016002	2	21
73	Seismic Response of Bridges Considering Different Ground Motion Selection Methods. <i>Springer Tracts on Transportation and Traffic</i> , 2016 , 147-154	0.3	2
72	Response evaluation of interconnected electrical substation equipment using real-time hybrid simulation on multiple shaking tables. <i>Earthquake Engineering and Structural Dynamics</i> , 2016 , 45, 2389-2404	4.04	20
71	Experimental evaluation of a glass curtain wall of a tall building. <i>Earthquake Engineering and Structural Dynamics</i> , 2016 , 45, 1185-1205	4	17
70	Lyapunov Stability Analysis of Explicit Direct Integration Algorithms Applied to Multi-Degree-of-Freedom Nonlinear Dynamic Problems. <i>Journal of Engineering Mechanics - ASCE</i> , 2016 , 142, 04016098	2.4	2
69	Lyapunov Stability Analysis of Explicit Direct Integration Algorithms Considering Strictly Positive Real Lemma. <i>Journal of Engineering Mechanics - ASCE</i> , 2016 , 142, 04016079	2.4	6
68	Theoretical Evaluation of Hybrid Simulation Applied to Continuous Plate Structures. <i>Journal of Engineering Mechanics - ASCE</i> , 2016 , 142, 04016093	2.4	2
67	Computational Modeling of Translucent Concrete Panels. <i>Journal of Architectural Engineering</i> , 2015 , 21,	1.5	15
66	Hybrid Simulation Theory for Continuous Beams. <i>Journal of Engineering Mechanics - ASCE</i> , 2015 , 141, 04015005	2.4	6
65	Seismic response of bent caps in as-built and retrofitted reinforced concrete box-girder bridges. <i>Engineering Structures</i> , 2015 , 98, 59-73	4.7	10
64	Shaking Table Evaluation of Reinforced Concrete Bridge Columns Repaired Using Fiber-Reinforced Polymer Jackets. <i>Journal of Bridge Engineering</i> , 2015 , 20, 04015025	2.7	8
63	Progressive Collapse Analysis of Reinforced Concrete Frames with Unreinforced Masonry Infill Walls considering In-Plane/Out-of-Plane Interaction. <i>Earthquake Spectra</i> , 2015 , 31, 921-943	3.4	62
62	Enhancement of real-time hybrid simulation on a shaking table configuration with implementation of an advanced control method. <i>Earthquake Engineering and Structural Dynamics</i> , 2015 , 44, 657-675	4	22

61	Real-time hybrid simulation in a shaking table configuration for parametric studies of high-voltage equipment and IEEE693 development. <i>Nuclear Engineering and Design</i> , 2015 , 295, 901-909	1.8	6
60	Comparison of the seismic response of reinforced auger pressure grout and concrete columns. <i>Engineering Structures</i> , 2015 , 87, 139-152	4.7	2
59	Decision making of innovative building façade use in Singapore 2015 ,		2
58	LASER SCANNING, MODELING, AND ANALYSIS FOR DAMAGE ASSESSMENT AND RESTORATION OF HISTORICAL STRUCTURES 2015 ,		5
57	Towards Faster Computations and Accurate Execution of Real-Time Hybrid Simulation. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2015 , 65-81	0.2	1
56	Seismic evaluation of the shear behavior in reinforced concrete bridge columns including effect of vertical accelerations. <i>Earthquake Engineering and Structural Dynamics</i> , 2014 , 43, 317-337	4	16
55	Seismic performance evaluation of high voltage disconnect switches using real-time hybrid simulation: I. System development and validation. <i>Earthquake Engineering and Structural Dynamics</i> , 2014 , 43, 1205-1222	4	45
54	Seismic performance evaluation of high-voltage disconnect switches using real-time hybrid simulation: II. Parametric study. <i>Earthquake Engineering and Structural Dynamics</i> , 2014 , 43, 1223-1237	4	23
53	Applications of laser scanning to structures in laboratory tests and field surveys. <i>Structural Control and Health Monitoring</i> , 2014 , 21, 115-134	4.5	38
52	Reinforced Concrete Bridge Columns Repaired with Fiber-Reinforced Polymer Jackets 2014 ,		1
51	An improved direct stiffness calculation method for damage detection of beam structures. <i>Structural Control and Health Monitoring</i> , 2013 , 20, 835-851	4.5	15
50	Experimental Investigation of Nonductile RC Corner Beam-Column Joints with Floor Slabs. <i>Journal of Structural Engineering</i> , 2013 , 139, 1-14	3	57
49	Simulation of Reinforced Concrete Frames with Nonductile Beam-Column Joints. <i>Earthquake Spectra</i> , 2013 , 29, 233-257	3.4	24
48	Seismic Performance of Reinforced-Concrete Stairways during the 2008 Wenchuan Earthquake. <i>Journal of Performance of Constructed Facilities</i> , 2013 , 27, 721-730	2	12
47	Teaching Innovation through Hands-on-Experience Case Studies Combined with Hybrid Simulation. <i>Journal of Professional Issues in Engineering Education and Practice</i> , 2013 , 139, 177-186	0.7	7
46	Hybrid Simulations: Theory, Applications, and Future Directions. <i>Advanced Materials Research</i> , 2013 , 639-640, 67-95	0.5	6
45	PEER Performance-Based Earthquake Engineering Methodology, Revisited. <i>Journal of Earthquake Engineering</i> , 2013 , 17, 829-858	1.8	121
44	Parameters for shear strength prediction of exterior beam-column joints without transverse reinforcement. <i>Engineering Structures</i> , 2012 , 36, 198-209	4.7	50

43	Parametric Study and Design Recommendations for In-Span Hinges in Reinforced Concrete Box-Girder Bridges. <i>Journal of Bridge Engineering</i> , 2012 , 17, 334-342	2.7	2
42	fib Bulletin 68. Probabilistic performance-based seismic design. <i>Fibre-reinforced Concrete: From Design To Structural Applications</i> , 2012 ,	1	4
41	Experimental and Computational Evaluation of In-Span Hinges in Reinforced Concrete Box-Girder Bridges. <i>Journal of Structural Engineering</i> , 2011 , 137, 1245-1253	3	6
40	An Improved Direct Stiffness Calculation Technique for Damage Detection of Bending Structures. <i>Advanced Materials Research</i> , 2011 , 368-373, 2224-2228	0.5	
39	Experimental Evaluation of In-Span Hinge Details in Reinforced Concrete Box Girder Bridges. <i>Transportation Research Record</i> , 2010 , 2200, 127-134	1.7	3
38	Investigation of short column effect of RC buildings: failure and prevention. <i>Computers and Concrete</i> , 2010 , 7, 523-532		10
37	Seismic Retrofit of Non-ductile Reinforced Concrete Frames Using Infill Walls as a Rocking Spine. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2010 , 349-357	0.2	4
36	Infill Walls as a Spine to Enhance the Seismic Performance of Non-Ductile Reinforced Concrete Frames 2009 ,		8
35	Seismic evaluation of 1940s asymmetric wood-frame building using conventional measurements and high-definition laser scanning. <i>Earthquake Engineering and Structural Dynamics</i> , 2009 , 38, 1175-1197 ⁴		3
34	Modeling progressive collapse in reinforced concrete buildings using direct element removal. <i>Earthquake Engineering and Structural Dynamics</i> , 2009 , 38, 609-634	4	47
33	Health monitoring of a bridge system using strong motion data. <i>Smart Structures and Systems</i> , 2009 , 5, 427-442		1
32	Identifying Significant Components of Structures for Seismic Performance Using FOSM Method. <i>Journal of the Earthquake Engineering Society of Korea</i> , 2009 , 13, 37-45	0.2	2
31	How to Simulate Column Collapse and Removal in As-built and Retrofitted Building Structures?. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2009 , 427-452	0.2	1
30	Seismic Evaluation and Retrofit of Asymmetric Multi-Story Wood-Frame Building. <i>Journal of Earthquake Engineering</i> , 2007 , 11, 968-986	1.8	11
29	Finite-Element Analysis of a Composite Frame under Large Lateral Cyclic Loading. <i>Journal of Structural Engineering</i> , 2007 , 133, 1018-1026	3	29
28	Towards error-free hybrid simulation using mixed variables. <i>Earthquake Engineering and Structural Dynamics</i> , 2007 , 36, 1497-1522	4	38
27	A computational model for reinforced concrete members confined with fiber reinforced polymer lamina: Implementation and experimental validation. <i>Composites Part B: Engineering</i> , 2007 , 38, 598-613	10	12
26	Analysis of reinforced concrete columns retrofitted with fiber reinforced polymer lamina. <i>Composites Part B: Engineering</i> , 2007 , 38, 265-276	10	49

25	Towards Modeling Progressive Collapse in Reinforced Concrete Buildings 2007 , 1		12
24	Development of peer-to-peer (P2P) internet online hybrid test system. <i>Earthquake Engineering and Structural Dynamics</i> , 2006 , 35, 867-890	4	46
23	Shake-table experiment on reinforced concrete structure containing masonry infill wall. <i>Earthquake Engineering and Structural Dynamics</i> , 2006 , 35, 1827-1852	4	104
22	SHAKE TABLE EXPERIMENT ON ONE-STORY RC STRUCTURE WITH AND WITHOUT MASONRY INFILL 2006 , 411-426		0
21	Comparison of European and Japanese seismic design of steel building structures. <i>Engineering Structures</i> , 2005 , 27, 827-840	4.7	31
20	Statistical significance of modal parameters of bridge systems identified from strong motion data. <i>Earthquake Engineering and Structural Dynamics</i> , 2005 , 34, 1323-1341	4	11
19	Seismic demand sensitivity of reinforced concrete shear-wall building using FOSM method. <i>Earthquake Engineering and Structural Dynamics</i> , 2005 , 34, 1719-1736	4	102
18	Modal identification of bridge systems using state-space methods. <i>Structural Control and Health Monitoring</i> , 2005 , 12, 381-404	4.5	29
17	Probabilistic fiber element modeling of reinforced concrete structures. <i>Computers and Structures</i> , 2004 , 82, 2285-2299	4.5	48
16	. <i>Journal of Earthquake Engineering</i> , 2003 , 7, 79	1.8	44
15	System identification of instrumented bridge systems. <i>Earthquake Engineering and Structural Dynamics</i> , 2003 , 32, 999-1020	4	26
14	Performance of reinforced concrete buildings during the August 17, 1999 Kocaeli, Turkey earthquake, and seismic design and construction practise in Turkey. <i>Engineering Structures</i> , 2003 , 25, 103-114	4.7	223
13	Strengthening of two-way concrete slabs with FRP composite laminates. <i>Construction and Building Materials</i> , 2003 , 17, 43-54	6.7	89
12	PROBABILISTIC SEISMIC DEMAND MODELS AND FRAGILITY ESTIMATES FOR RC BRIDGES. <i>Journal of Earthquake Engineering</i> , 2003 , 7, 79-106	1.8	159
11	Modeling of layered timber beams and ribbed shell frameworks. <i>Composites Part B: Engineering</i> , 2002 , 33, 367-381	10	9
10	Bidirectional Cyclic Performance of Reinforced Concrete Bridge Column-Superstructure Subassemblies. <i>Earthquake Spectra</i> , 2002 , 18, 663-687	3.4	4
9	Probabilistic Capacity Models and Fragility Estimates for Reinforced Concrete Columns based on Experimental Observations. <i>Journal of Engineering Mechanics - ASCE</i> , 2002 , 128, 1024-1038	2.4	385
8	Seismic Evaluation of Gravity-Load-Designed Column-Grid System. <i>Journal of Structural Engineering</i> , 2002 , 128, 160-168	3	7

7	Nonlinear transient analysis of reinforced concrete slabs subjected to blast loading and retrofitted with CFRP composites. <i>Composites Part B: Engineering</i> , 2001 , 32, 623-636	10	68
6	Response of infilled frames using pseudo-dynamic experimentation. <i>Earthquake Engineering and Structural Dynamics</i> , 1998 , 27, 589-608	4	31
5	SEISMIC FRAGILITY OF LRC FRAMES WITH AND WITHOUT MASONRY INFILL WALLS. <i>Journal of Earthquake Engineering</i> , 1997 , 1, 693-720	1.8	43
4	Static Response of Infilled Frames Using Quasi-Static Experimentation. <i>Journal of Structural Engineering</i> , 1997 , 123, 1462-4169	3	59
3	Evolutionary characteristic length method for smeared cracking finite element models. <i>Finite Elements in Analysis and Design</i> , 1997 , 27, 99-108	2.2	15
2	1996 EERI Student Paper Award Modeling of the Nonlinear Seismic Behavior of Gravity Load Designed Frames. <i>Earthquake Spectra</i> , 1996 , 12, 479-492	3.4	8
1	Deep semantic segmentation for visual understanding on construction sites. <i>Computer-Aided Civil and Infrastructure Engineering</i> ,	8.4	5