

# Khalid M Mosalam

## List of Publications by Citations

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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	Probabilistic Capacity Models and Fragility Estimates for Reinforced Concrete Columns based on Experimental Observations. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2002</b> , 128, 1024-1038	2.4	385
131	Deep Transfer Learning for Image-Based Structural Damage Recognition. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2018</b> , 33, 748-768	8.4	256
130	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> , <b>2003</b> , 25, 103-114	4.7	223
129	PROBABILISTIC SEISMIC DEMAND MODELS AND FRAGILITY ESTIMATES FOR RC BRIDGES. <i>Journal of Earthquake Engineering</i> , <b>2003</b> , 7, 79-106	1.8	159
128	PEER Performance-Based Earthquake Engineering Methodology, Revisited. <i>Journal of Earthquake Engineering</i> , <b>2013</b> , 17, 829-858	1.8	121
127	Shake-table experiment on reinforced concrete structure containing masonry infill wall. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2006</b> , 35, 1827-1852	4	104
126	Seismic demand sensitivity of reinforced concrete shear-wall building using FOSM method. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2005</b> , 34, 1719-1736	4	102
125	Comparison of the structural behavior of reinforced concrete and steel fiber reinforced concrete tunnel segmental joints. <i>Tunnelling and Underground Space Technology</i> , <b>2017</b> , 68, 38-57	5.7	89
124	Strengthening of two-way concrete slabs with FRP composite laminates. <i>Construction and Building Materials</i> , <b>2003</b> , 17, 43-54	6.7	89
123	Development and application of the integrated sealant test apparatus for sealing gaskets in tunnel segmental joints. <i>Tunnelling and Underground Space Technology</i> , <b>2017</b> , 63, 54-68	5.7	74
122	Nonlinear transient analysis of reinforced concrete slabs subjected to blast loading and retrofitted with CFRP composites. <i>Composites Part B: Engineering</i> , <b>2001</b> , 32, 623-636	10	68
121	Progressive Collapse Analysis of Reinforced Concrete Frames with Unreinforced Masonry Infill Walls considering In-Plane/Out-of-Plane Interaction. <i>Earthquake Spectra</i> , <b>2015</b> , 31, 921-943	3.4	62
120	Static Response of Infilled Frames Using Quasi-Static Experimentation. <i>Journal of Structural Engineering</i> , <b>1997</b> , 123, 1462-4169	3	59
119	Experimental Investigation of Nonductile RC Corner Beam-Column Joints with Floor Slabs. <i>Journal of Structural Engineering</i> , <b>2013</b> , 139, 1-14	3	57
118	Failure mechanism of joint waterproofing in precast segmental tunnel linings. <i>Tunnelling and Underground Space Technology</i> , <b>2019</b> , 84, 334-352	5.7	51
117	Parameters for shear strength prediction of exterior beam-column joints without transverse reinforcement. <i>Engineering Structures</i> , <b>2012</b> , 36, 198-209	4.7	50
116	Analysis of reinforced concrete columns retrofitted with fiber reinforced polymer lamina. <i>Composites Part B: Engineering</i> , <b>2007</b> , 38, 265-276	10	49

115	Probabilistic fiber element modeling of reinforced concrete structures. <i>Computers and Structures</i> , <b>2004</b> , 82, 2285-2299	4.5	48
114	Modeling progressive collapse in reinforced concrete buildings using direct element removal. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2009</b> , 38, 609-634	4	47
113	Development of peer-to-peer (P2P) internet online hybrid test system. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2006</b> , 35, 867-890	4	46
112	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> , <b>2014</b> , 43, 1205-1222	4	45
111	. <i>Journal of Earthquake Engineering</i> , <b>2003</b> , 7, 79	1.8	44
110	Deep leaf-bootstrapping generative adversarial network for structural image data augmentation. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2019</b> , 34, 755-773	8.4	43
109	SEISMIC FRAGILITY OF LRC FRAMES WITH AND WITHOUT MASONRY INFILL WALLS. <i>Journal of Earthquake Engineering</i> , <b>1997</b> , 1, 693-720	1.8	43
108	Applications of laser scanning to structures in laboratory tests and field surveys. <i>Structural Control and Health Monitoring</i> , <b>2014</b> , 21, 115-134	4.5	38
107	Towards error-free hybrid simulation using mixed variables. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2007</b> , 36, 1497-1522	4	38
106	Sealant behavior of gasketed segmental joints in shield tunnels: An experimental and numerical study. <i>Tunnelling and Underground Space Technology</i> , <b>2018</b> , 77, 127-141	5.7	33
105	Response of infilled frames using pseudo-dynamic experimentation. <i>Earthquake Engineering and Structural Dynamics</i> , <b>1998</b> , 27, 589-608	4	31
104	Comparison of European and Japanese seismic design of steel building structures. <i>Engineering Structures</i> , <b>2005</b> , 27, 827-840	4.7	31
103	Performance-based engineering and multi-criteria decision analysis for sustainable and resilient building design. <i>Structural Safety</i> , <b>2018</b> , 74, 1-13	4.9	29
102	Finite-Element Analysis of a Composite Frame under Large Lateral Cyclic Loading. <i>Journal of Structural Engineering</i> , <b>2007</b> , 133, 1018-1026	3	29
101	Modal identification of bridge systems using state-space methods. <i>Structural Control and Health Monitoring</i> , <b>2005</b> , 12, 381-404	4.5	29
100	System identification of instrumented bridge systems. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2003</b> , 32, 999-1020	4	26
99	Simulation of Reinforced Concrete Frames with Nonductile Beam-Column Joints. <i>Earthquake Spectra</i> , <b>2013</b> , 29, 233-257	3.4	24
98	Seismic performance evaluation of high-voltage disconnect switches using real-time hybrid simulation: II. Parametric study. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2014</b> , 43, 1223-1237	4	23

97	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> , <b>2015</b> , 44, 657-675	4	22
96	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> , <b>2018</b> , 113, 1904-1928	2.4	22
95	Structural Performance of Porcelain and Polymer Post Insulators in High Voltage Electrical Switches. <i>Journal of Performance of Constructed Facilities</i> , <b>2016</b> , 30, 04016002	2	21
94	Experimental investigation and numerical analysis of RC beams shear strengthened with FRP/ECC composite layer. <i>Composite Structures</i> , <b>2020</b> , 246, 112436	5.3	20
93	Response evaluation of interconnected electrical substation equipment using real-time hybrid simulation on multiple shaking tables. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2016</b> , 45, 2389-2404	4.04	20
92	Cumulative Absolute Velocity as a Local Damage Indicator of Instrumented Structures. <i>Earthquake Spectra</i> , <b>2017</b> , 33, 641-664	3.4	19
91	Seismic demand and experimental evaluation of the nonstructural building curtain wall: A review. <i>Soil Dynamics and Earthquake Engineering</i> , <b>2017</b> , 100, 16-33	3.5	19
90	Feasibility of shape memory alloy in a tuneable mass damper to reduce excessive in-service vibration. <i>Structural Control and Health Monitoring</i> , <b>2017</b> , 24, e1858	4.5	18
89	Evaluating energy consumption saving from translucent concrete building envelope. <i>Energy and Buildings</i> , <b>2017</b> , 153, 448-460	7	18
88	Shake table testing of a rocking podium: Results of a blind prediction contest. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2021</b> , 50, 1043-1062	4	18
87	Experimental evaluation of a glass curtain wall of a tall building. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2016</b> , 45, 1185-1205	4	17
86	Seismic evaluation of the shear behavior in reinforced concrete bridge columns including effect of vertical accelerations. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2014</b> , 43, 317-337	4	16
85	Computational Modeling of Translucent Concrete Panels. <i>Journal of Architectural Engineering</i> , <b>2015</b> , 21,	1.5	15
84	An improved direct stiffness calculation method for damage detection of beam structures. <i>Structural Control and Health Monitoring</i> , <b>2013</b> , 20, 835-851	4.5	15
83	Evolutionary characteristic length method for smeared cracking finite element models. <i>Finite Elements in Analysis and Design</i> , <b>1997</b> , 27, 99-108	2.2	15
82	Performance-based design of joint waterproofing of segmental tunnel linings using hybrid computational/experimental procedures. <i>Tunnelling and Underground Space Technology</i> , <b>2020</b> , 96, 103172	5.7	14
81	PEER Hub ImageNet: A Large-Scale Multiattribute Benchmark Data Set of Structural Images. <i>Journal of Structural Engineering</i> , <b>2020</b> , 146, 04020198	3	14
80	Equivalent Linearization Methods for Stochastic Dynamic Analysis Using Linear Response Surfaces. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2017</b> , 143, 04017055	2.4	13

79	Adaptive tuned mass damper with shape memory alloy for seismic application. <i>Engineering Structures</i> , <b>2020</b> , 223, 111171	4.7	13
78	Ubiquitous luminance sensing using the Raspberry Pi and Camera Module system. <i>Lighting Research and Technology</i> , <b>2017</b> , 49, 904-921	2	12
77	Mechanical behavior of ultra-high toughness cementitious composite strengthened with Fiber Reinforced Polymer grid. <i>Composite Structures</i> , <b>2018</b> , 184, 1-10	5.3	12
76	Shaking table testing of granite cladding with undercut bolt anchorage. <i>Engineering Structures</i> , <b>2018</b> , 171, 488-499	4.7	12
75	Seismic Performance of Reinforced-Concrete Stairways during the 2008 Wenchuan Earthquake. <i>Journal of Performance of Constructed Facilities</i> , <b>2013</b> , 27, 721-730	2	12
74	A computational model for reinforced concrete members confined with fiber reinforced polymer lamina: Implementation and experimental validation. <i>Composites Part B: Engineering</i> , <b>2007</b> , 38, 598-613	10	12
73	Towards Modeling Progressive Collapse in Reinforced Concrete Buildings <b>2007</b> , 1		12
72	Seismic Evaluation and Retrofit of Asymmetric Multi-Story Wood-Frame Building. <i>Journal of Earthquake Engineering</i> , <b>2007</b> , 11, 968-986	1.8	11
71	Statistical significance of modal parameters of bridge systems identified from strong motion data. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2005</b> , 34, 1323-1341	4	11
70	Seismic response of bent caps in as-built and retrofitted reinforced concrete box-girder bridges. <i>Engineering Structures</i> , <b>2015</b> , 98, 59-73	4.7	10
69	Investigation of short column effect of RC buildings: failure and prevention. <i>Computers and Concrete</i> , <b>2010</b> , 7, 523-532		10
68	Direct Integration Algorithms for Efficient Nonlinear Seismic Response of Reinforced Concrete Highway Bridges. <i>Journal of Bridge Engineering</i> , <b>2016</b> , 21, 04016041	2.7	9
67	Modeling of layered timber beams and ribbed shell frameworks. <i>Composites Part B: Engineering</i> , <b>2002</b> , 33, 367-381	10	9
66	. <i>IEEE Internet of Things Journal</i> , <b>2020</b> , 7, 598-610	10.7	9
65	Damage Detection Using Improved Direct Stiffness Calculations [A Case Study]. <i>International Journal of Structural Stability and Dynamics</i> , <b>2016</b> , 16, 1640002	1.9	8
64	Shaking Table Evaluation of Reinforced Concrete Bridge Columns Repaired Using Fiber-Reinforced Polymer Jackets. <i>Journal of Bridge Engineering</i> , <b>2015</b> , 20, 04015025	2.7	8
63	Infill Walls as a Spine to Enhance the Seismic Performance of Non-Ductile Reinforced Concrete Frames <b>2009</b> ,		8
62	1996 EERI Student Paper Award Modeling of the Nonlinear Seismic Behavior of Gravity Load Designed Frames. <i>Earthquake Spectra</i> , <b>1996</b> , 12, 479-492	3.4	8

61	Sunlight Permeability of Translucent Concrete Panels as a Building Envelope. <i>Journal of Architectural Engineering</i> , <b>2018</b> , 24, 04018015	1.5	8
60	Seismic performance and restraint system of suspended 800 kV thyristor valve. <i>Engineering Structures</i> , <b>2018</b> , 169, 179-187	4.7	8
59	Substructured Dynamic Testing of Substation Disconnect Switches. <i>Earthquake Spectra</i> , <b>2016</b> , 32, 567-589	3.4	7
58	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> , <b>2017</b> , 8, 224-230	4.6	7
57	Teaching Innovation through Hands-on-Experience Case Studies Combined with Hybrid Simulation. <i>Journal of Professional Issues in Engineering Education and Practice</i> , <b>2013</b> , 139, 177-186	0.7	7
56	Seismic Evaluation of Gravity-Load-Designed Column-Grid System. <i>Journal of Structural Engineering</i> , <b>2002</b> , 128, 160-168	3	7
55	Balanced semisupervised generative adversarial network for damage assessment from low-data imbalanced-class regime. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2021</b> , 36, 1094-1113	8.4	7
54	Improved shear strength model for exterior reinforced concrete beam-column joints using gene expression programming. <i>Engineering Structures</i> , <b>2021</b> , 228, 111563	4.7	7
53	Shaking table test method of building curtain walls using floor capacity demand diagrams. <i>Bulletin of Earthquake Engineering</i> , <b>2017</b> , 15, 3185-3205	3.7	6
52	Hybrid Simulation Theory for Continuous Beams. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2015</b> , 141, 04015005	2.4	6
51	Rocking Spine for Enhanced Seismic Performance of Reinforced Concrete Frames with Infills. <i>Journal of Structural Engineering</i> , <b>2016</b> , 142, 04016096	3	6
50	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> , <b>2015</b> , 295, 901-909	1.8	6
49	Hybrid Simulations: Theory, Applications, and Future Directions. <i>Advanced Materials Research</i> , <b>2013</b> , 639-640, 67-95	0.5	6
48	Experimental and Computational Evaluation of In-Span Hinges in Reinforced Concrete Box-Girder Bridges. <i>Journal of Structural Engineering</i> , <b>2011</b> , 137, 1245-1253	3	6
47	Lyapunov Stability Analysis of Explicit Direct Integration Algorithms Considering Strictly Positive Real Lemma. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2016</b> , 142, 04016079	2.4	6
46	Acceleration demand of the outer-skin curtain wall system of the Shanghai Tower. <i>Structural Design of Tall and Special Buildings</i> , <b>2017</b> , 26, e1341	1.8	5
45	Response of Mid-Rise Reinforced Concrete Frame Buildings to the 2017 Puebla Earthquake. <i>Earthquake Spectra</i> , <b>2019</b> , 35, 1763-1793	3.4	5
44	Similitude theory for scaled friction pendulum bearings for shaking table experiments. <i>Soil Dynamics and Earthquake Engineering</i> , <b>2019</b> , 121, 399-404	3.5	5

43	Lyapunov Stability and Accuracy of Direct Integration Algorithms Applied to Nonlinear Dynamic Problems. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2016</b> , 142, 04016022	2.4	5
42	Multiscale Homogenization Analysis of the Effective Elastic Properties of Masonry Structures. <i>Journal of Materials in Civil Engineering</i> , <b>2016</b> , 28, 04016056	3	5
41	Strengthening of concrete beams by monolayer prepreg composites with and without graphene reinforcement. <i>Construction and Building Materials</i> , <b>2017</b> , 151, 866-880	6.7	5
40	LASER SCANNING, MODELING, AND ANALYSIS FOR DAMAGE ASSESSMENT AND RESTORATION OF HISTORICAL STRUCTURES <b>2015</b> ,		5
39	A Decision Support Tool for Sustainable and Resilient Building Design. <i>Springer Series in Reliability Engineering</i> , <b>2017</b> , 509-536	0.2	5
38	A computationally rigorous approach to hybrid fire testing. <i>Computers and Structures</i> , <b>2020</b> , 238, 1063014.5	14.5	5
37	Deep semantic segmentation for visual understanding on construction sites. <i>Computer-Aided Civil and Infrastructure Engineering</i> ,	8.4	5
36	Bidirectional Cyclic Performance of Reinforced Concrete Bridge Column-Superstructure Subassemblies. <i>Earthquake Spectra</i> , <b>2002</b> , 18, 663-687	3.4	4
35	NEW DIRECTIONS IN STRUCTURAL HEALTH MONITORING. <i>NED University Journal of Research</i> , <b>2019</b> , 2, 77-112	0.3	4
34	fib Bulletin 68. Probabilistic performance-based seismic design. <i>Fibre-reinforced Concrete: From Design To Structural Applications</i> , <b>2012</b> ,	1	4
33	Seismic Retrofit of Non-ductile Reinforced Concrete Frames Using Infill Walls as a Rocking Spine. <i>Geotechnical, Geological and Earthquake Engineering</i> , <b>2010</b> , 349-357	0.2	4
32	Ground motion selection and modification evaluation for highway bridges subjected to Bi-directional horizontal excitation. <i>Soil Dynamics and Earthquake Engineering</i> , <b>2020</b> , 130, 105994	3.5	4
31	Probabilistic performance-based seismic assessment of an existing masonry building. <i>Earthquake Spectra</i> , <b>2020</b> , 36, 271-298	3.4	4
30	Structural Health Monitoring Using Machine Learning and Cumulative Absolute Velocity Features. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 5727	2.6	4
29	Drift demand of the outer-skin curtain wall system of the Shanghai Tower. <i>Structural Design of Tall and Special Buildings</i> , <b>2017</b> , 26, e1388	1.8	3
28	Seismic evaluation of 1940s asymmetric wood-frame building using conventional measurements and high-definition laser scanning. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2009</b> , 38, 1175-1197 <sup>4</sup>		3
27	Experimental Evaluation of In-Span Hinge Details in Reinforced Concrete Box Girder Bridges. <i>Transportation Research Record</i> , <b>2010</b> , 2200, 127-134	1.7	3
26	Human-machine collaboration framework for structural health monitoring and resiliency. <i>Engineering Structures</i> , <b>2021</b> , 235, 112084	4.7	3



25	Auto-Regressive Integrated Moving-Average Machine Learning for Damage Identification of Steel Frames. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 6084	2.6	3
24	Shaking Table Tests of the Cable Tray System in Nuclear Power Plants. <i>Journal of Performance of Constructed Facilities</i> , <b>2017</b> , 31, 04017018	2	2
23	Response Spectrum Code-Conforming PEER PBEE using Stochastic Dynamic Analysis and Information Theory. <i>KSCE Journal of Civil Engineering</i> , <b>2018</b> , 22, 1002-1015	1.9	2
22	Comparison of the seismic response of reinforced auger pressure grout and concrete columns. <i>Engineering Structures</i> , <b>2015</b> , 87, 139-152	4.7	2
21	Parametric Study and Design Recommendations for In-Span Hinges in Reinforced Concrete Box-Girder Bridges. <i>Journal of Bridge Engineering</i> , <b>2012</b> , 17, 334-342	2.7	2
20	Decision making of innovative building façade use in Singapore <b>2015</b> ,		2
19	Identifying Significant Components of Structures for Seismic Performance Using FOSM Method. <i>Journal of the Earthquake Engineering Society of Korea</i> , <b>2009</b> , 13, 37-45	0.2	2
18	Seismic Response of Bridges Considering Different Ground Motion Selection Methods. <i>Springer Tracts on Transportation and Traffic</i> , <b>2016</b> , 147-154	0.3	2
17	Structural Behavior of Steel-Plate Girders in Shear: Experimental Study and Review of Current Design Principles. <i>Journal of Structural Engineering</i> , <b>2020</b> , 146, 04020243	3	2
16	Lyapunov Stability Analysis of Explicit Direct Integration Algorithms Applied to Multi-Degree-of-Freedom Nonlinear Dynamic Problems. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2016</b> , 142, 04016098	2.4	2
15	Theoretical Evaluation of Hybrid Simulation Applied to Continuous Plate Structures. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2016</b> , 142, 04016093	2.4	2
14	Lyapunov-Based Nonlinear Solution Algorithm for Structural Analysis. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2018</b> , 144, 04018082	2.4	2
13	Reinforced Concrete Bridge Columns Repaired with Fiber-Reinforced Polymer Jackets <b>2014</b> ,		1
12	Health monitoring of a bridge system using strong motion data. <i>Smart Structures and Systems</i> , <b>2009</b> , 5, 427-442		1
11	Towards Faster Computations and Accurate Execution of Real-Time Hybrid Simulation. <i>Geotechnical, Geological and Earthquake Engineering</i> , <b>2015</b> , 65-81	0.2	1
10	How to Simulate Column Collapse and Removal in As-built and Retrofitted Building Structures?. <i>Geotechnical, Geological and Earthquake Engineering</i> , <b>2009</b> , 427-452	0.2	1
9	Prediction of blast pressure-duration capacity of monolithic Thermally Tempered Glass panes. <i>International Journal of Impact Engineering</i> , <b>2020</b> , 136, 103433	4	1
8	Multi-performance blast pressure-duration curves of laminated glass panes. <i>International Journal of Protective Structures</i> , <b>2021</b> , 12, 226-244	1.5	1



7	Real-Time Emotion Detection via E-See <b>2018</b> ,		1
6	Distributed Fiber-Optic Strain Sensing of an Innovative Reinforced Concrete Beam-Column Connection. <i>Sensors</i> , <b>2022</b> , 22, 3957	3.8	1
5	SHAKE TABLE EXPERIMENT ON ONE-STORY RC STRUCTURE WITH AND WITHOUT MASONRY INFILL <b>2006</b> , 411-426		0
4	Progressive Collapse Simulation of Vulnerable Reinforced Concrete Buildings <b>2016</b> , 107-124		
3	An Improved Direct Stiffness Calculation Technique for Damage Detection of Bending Structures. <i>Advanced Materials Research</i> , <b>2011</b> , 368-373, 2224-2228	0.5	
2	Lifecycle multi criteria decision analysis of buildings using generalized expected utility <b>2018</b> , 770-788		
1	Finite element modeling and assessment of seismic response of electrical substations porcelain post insulators. <i>Soil Dynamics and Earthquake Engineering</i> , <b>2021</b> , 150, 106895	3.5	