

Oh-Sung Kwon

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.

88

papers

1,392

citations

20

h-index

34

g-index

97

ext. papers

1,696

ext. citations

3.3

avg, IF

5.2

L-index

#	Paper	IF	Citations
88	Real-Time and Pseudo-Dynamic Hybrid Simulation Methods: A Tutorial. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2023 , 75-83	0.3	
87	Four-Element Pseudodynamic Hybrid Simulation of a Steel Frame with Cast Steel Yielding Connectors under Earthquake Excitations. <i>Journal of Structural Engineering</i> , 2022 , 148,	3	3
86	Quantifying uncertainties and correlations of engineering demand parameters of building structures for regional seismic loss assessment. <i>Earthquake Engineering and Structural Dynamics</i> , 2022 , 51, 1751-1769	4	0
85	Seismic Performance of a Long-Span Cable-Stayed Bridge under Spatially Varying Bidirectional Spectrum-Compatible Ground Motions. <i>Journal of Structural Engineering</i> , 2021 , 147, 04021015	3	1
84	Development of Temperature and Constraint-Dependent Column Demand-Capacity Curves and Their Validation through Hybrid Fire Simulations. <i>Journal of Structural Engineering</i> , 2021 , 147, 04021033 ³		1
83	An integrated simulation method for soil-structure interaction analysis of nuclear structures. <i>Earthquake Engineering and Structural Dynamics</i> , 2021 , 50, 2634-2652	4	0
82	Hybrid Simulation of Structure-Pipe-Structure Interaction within a Gas Processing Plant. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2021 , 12, 04020073	1.5	1
81	Seismic response evaluation of a five-story buckling-restrained braced frame using multi-element pseudo-dynamic hybrid simulations. <i>Earthquake Engineering and Structural Dynamics</i> , 2021 , 50, 3243-3265	4	2
80	Application of hybrid simulation method for seismic performance evaluation of RC coupling beams subjected to realistic boundary condition. <i>Earthquake Engineering and Structural Dynamics</i> , 2021 , 50, 375-393	4	4
79	Seismic behaviour of post-tensioned precast concrete beam-column connections. <i>Magazine of Concrete Research</i> , 2021 , 73, 433-447	2	2
78	Clustering-based adaptive ground motion selection algorithm for efficient estimation of structural fragilities. <i>Earthquake Engineering and Structural Dynamics</i> , 2021 , 50, 1755-1776	4	1
77	Influence of seasonal soil temperature variation and global warming on the seismic response of frozen soils in permafrost regions. <i>Earthquake Engineering and Structural Dynamics</i> , 2021 , 50, 3855	4	0
76	Assessment of existing steel frames: Numerical study, pseudo-dynamic testing and influence of masonry infills. <i>Journal of Constructional Steel Research</i> , 2021 , 185, 106873	3.8	3
75	Evaluation of correlation between engineering demand parameters of structures for seismic system reliability analysis. <i>Structural Safety</i> , 2021 , 93, 102133	4.9	1
74	Numerical simulation of damage evolution of Daikai station during the 1995 Kobe earthquake. <i>Engineering Structures</i> , 2020 , 206, 110180	4.7	16
73	Pre- and post-earthquake regional loss assessment using deep learning. <i>Earthquake Engineering and Structural Dynamics</i> , 2020 , 49, 657-678	4	11
72	Probabilistic evaluation of seismic responses using deep learning method. <i>Structural Safety</i> , 2020 , 84, 101913	4.9	20

71	An integrated simulation method for coupled dynamic systems. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2020 , 35, 1115-1131	8.4	2
70	Full-Scale Experimental Testing and Postfracture Simulations of Cast-Steel Yielding Connectors. <i>Journal of Structural Engineering</i> , 2020 , 146, 04020261	3	3
69	Hybrid Simulation of Small-Scale Steel Braced Frame Subjected to Fire and Fire Following Earthquake. <i>Journal of Structural Engineering</i> , 2020 , 146, 04019182	3	5
68	Experimental and Numerical Characterization of Ultralow-Cycle Fatigue Behavior of Steel Castings. <i>Journal of Structural Engineering</i> , 2020 , 146, 04019195	3	4
67	Weakly Coupled Hybrid Simulation Method for Structural Testing: Theoretical Framework and Numerical Verification. <i>Journal of Structural Engineering</i> , 2020 , 146, 04019196	3	4
66	Real-Time Aeroelastic Hybrid Simulation of a Base-Pivoting Building Model in a Wind Tunnel. <i>Frontiers in Built Environment</i> , 2020 , 6,	2.2	2
65	Development of a civil infrastructure resilience assessment framework and its application to a nuclear power plant. <i>Structure and Infrastructure Engineering</i> , 2020 , 1-14	2.9	2
64	Influence of frequency content of ground motions on seismic fragility of equipment in nuclear power plant. <i>Engineering Structures</i> , 2020 , 224, 111220	4.7	3
63	A Generalized Numerical/Experimental Distributed Simulation Framework. <i>Journal of Earthquake Engineering</i> , 2020 , 24, 682-703	1.8	18
62	Discussion of Fast and Slow Cyclic Tests for Reinforced Concrete Columns with an Improved Axial Force Control by Yunbyeong Chae, Jinhaeng Lee, Minseok Park, and Chul-Young Kim. <i>Journal of Structural Engineering</i> , 2020 , 146, 07020001	3	1
61	Continuous Real-Time Hybrid Simulation Method for Structures Subject to Fire. <i>Journal of Structural Engineering</i> , 2019 , 145, 04019152	3	13
60	Shrinkage and creep strains of concrete exposed to low relative humidity and high temperature environments. <i>Nuclear Engineering and Design</i> , 2019 , 352, 110154	1.8	5
59	Multi-platform soil-structure interaction simulation of Daikai subway tunnel during the 1995 Kobe earthquake. <i>Soil Dynamics and Earthquake Engineering</i> , 2019 , 125, 105643	3.5	14
58	Design of Experimental Apparatus for Real-Time Wind-Tunnel Hybrid Simulation of Bridge Decks and Buildings 2019 ,		3
57	Development of a ten-element hybrid simulation platform and an adjustable yielding brace for performance evaluation of multi-story braced frames subjected to earthquakes. <i>Earthquake Engineering and Structural Dynamics</i> , 2019 , 48, 749-771	4	8
56	Evaluation of the thermal strain of an NPP containment structure during leakage rate tests. <i>Engineering Structures</i> , 2019 , 201, 109761	4.7	1
55	Response prediction of nonlinear hysteretic systems by deep neural networks. <i>Neural Networks</i> , 2019 , 111, 1-10	9.1	36
54	A framework for multi-platform simulation of reinforced concrete structures. <i>Engineering Structures</i> , 2019 , 181, 260-270	4.7	5

53	Can a buried gas pipeline experience local buckling during earthquake ground shaking?. <i>Soil Dynamics and Earthquake Engineering</i> , 2019 , 116, 511-529	3.5	21
52	Intercontinental Hybrid Simulation for the Assessment of a Three-Span R/C Highway Overpass. <i>Journal of Earthquake Engineering</i> , 2019 , 23, 1194-1215	1.8	5
51	Method for evaluation of concrete containment structure subjected to earthquake excitation and internal pressure increase. <i>Earthquake Engineering and Structural Dynamics</i> , 2018 , 47, 1544-1565	4	10
50	Hybrid Simulation Method for a Structure Subjected to Fire and Its Application to a Steel Frame. <i>Journal of Structural Engineering</i> , 2018 , 144, 04018118	3	18
49	Nonlinear modeling of MDOF structures equipped with viscoelastic dampers with strain, temperature and frequency-dependent properties. <i>Engineering Structures</i> , 2018 , 168, 903-914	4.7	16
48	Modeling Beam-Membrane Interface in Reinforced Concrete Frames. <i>ACI Structural Journal</i> , 2018 , 115,	1.7	5
47	A frequency-dependent and intensity-dependent macroelement for reduced order seismic analysis of soil-structure interacting systems. <i>Earthquake Engineering and Structural Dynamics</i> , 2018 , 47, 2172-2194	4.4	12
46	Scenario-Based Seismic Risk Assessment for Buried Transmission Gas Pipelines at Regional Scale. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2018 , 9, 04018018	1.5	15
45	Evaluation of CANDU NPP containment structure subjected to aging and internal pressure increase. <i>Nuclear Engineering and Design</i> , 2017 , 314, 82-92	1.8	17
44	Small-scale multi-axial hybrid simulation of a shear-critical reinforced concrete frame. <i>Earthquake Engineering and Engineering Vibration</i> , 2017 , 16, 727-743	2	7
43	Distributed analysis of interacting soil and structural systems under dynamic loading. <i>Innovative Infrastructure Solutions</i> , 2017 , 2, 1	2.3	3
42	Numerical modelling method for inelastic and frequency-dependent behavior of shallow foundations. <i>Soil Dynamics and Earthquake Engineering</i> , 2017 , 92, 377-387	3.5	4
41	Influence of frequency-dependent soil-structure interaction on the fragility of R/C bridges. <i>Earthquake Engineering and Structural Dynamics</i> , 2017 , 46, 139-158	4	14
40	Multi-platform Hybrid (Experiment-Analysis) Simulations. <i>Lecture Notes in Civil Engineering</i> , 2017 , 37-63	0.3	
39	Seismic Fragility Analysis of High-Rise RC Box-Type Wall Building Structures. <i>Journal of the Earthquake Engineering Society of Korea</i> , 2016 , 20, 155-162	0.2	3
38	Structural performance of a parked wind turbine tower subjected to strong ground motions. <i>Engineering Structures</i> , 2016 , 120, 92-102	4.7	46
37	Seismic fragility of steel moment-resisting frames in Vancouver and Montreal designed in the 1960s, 1980s, and 2010. <i>Canadian Journal of Civil Engineering</i> , 2015 , 42, 919-929	1.3	3
36	Time and frequency domain analyses of the Hualien Large-Scale Seismic Test. <i>Nuclear Engineering and Design</i> , 2015 , 295, 261-275	1.8	9

35	Stability of the time-domain analysis method including a frequency-dependent soil foundation system. <i>Earthquake Engineering and Structural Dynamics</i> , 2015 , 44, 2737-2754	4	7
34	Soy-based polyurethane spray foam insulations for light weight wall panels and their performances under monotonic and static cyclic shear forces. <i>Industrial Crops and Products</i> , 2015 , 74, 1-8	5.9	12
33	A time-domain seismic SSI analysis method for inelastic bridge structures through the use of a frequency-dependent lumped parameter model. <i>Earthquake Engineering and Structural Dynamics</i> , 2015 , 44, 2137-2156	4	29
32	Effective periods and seismic performance of steel moment resisting frames designed for risk categories I and IV according to IBC2009. <i>Earthquake Engineering and Structural Dynamics</i> , 2015 , 44, 1427-1447 ⁵	4	29
31	Accuracy of nonlinear static procedures for the seismic assessment of shear critical structures. <i>Earthquake Engineering and Structural Dynamics</i> , 2015 , 44, 1581-1600	4	13
30	Numerical models of RC elements and their impacts on seismic performance assessment. <i>Earthquake Engineering and Structural Dynamics</i> , 2015 , 44, 283-298	4	21
29	AN INTEGRATED FRAMEWORK FOR THE ANALYSIS OF MIXED-TYPE REINFORCED CONCRETE STRUCTURES 2015 ,		4
28	Application of hybrid-simulation to fragility assessment of the telescoping self-centering energy dissipative bracing system. <i>Earthquake Engineering and Structural Dynamics</i> , 2014 , 43, 811-830	4	33
27	Seismic Displacement Demands on Skewed Bridge Decks Supported on Elastomeric Bearings. <i>Journal of Earthquake Engineering</i> , 2013 , 17, 998-1022	1.8	29
26	Model updating method for substructure pseudo-dynamic hybrid simulation. <i>Earthquake Engineering and Structural Dynamics</i> , 2013 , 42, 1971-1984	4	30
25	Hybrid Simulation for Earthquake Response of Semirigid Partial-Strength Steel Frames. <i>Journal of Structural Engineering</i> , 2013 , 139, 1134-1148	3	33
24	Erratum for Calibration of Live-Load Factor in LRFD Bridge Design Specifications Based on State-Specific Traffic Environments by Oh-Sung Kwon, Eungsoo Kim, and Sarah Orton. <i>Journal of Bridge Engineering</i> , 2013 , 18, 86-86	2.7	
23	The Maule (Chile) earthquake of February 27, 2010: Development of hazard, site specific ground motions and back-analysis of structures. <i>Soil Dynamics and Earthquake Engineering</i> , 2012 , 42, 229-245	3.5	29
22	Statistical Distribution of Bridge Resistance Using Updated Material Parameters. <i>Journal of Bridge Engineering</i> , 2012 , 17, 462-469	2.7	13
21	Closure to Discussion of paper Evaluation of building period formulas for seismic design by Oh-Sung Kwon and Eung Soo Kim, <i>Earthquake Engineering and Structural Dynamics</i> 2010; 39(14):1569-1583. <i>Earthquake Engineering and Structural Dynamics</i> , 2012 , 41, 1133-1135	4	1
20	Sensitivity of Reliability Index of Bridge Girders to Random Variables and Average Daily Truck Traffic 2011 ,		2
19	Calibration of Live-Load Factor in LRFD Bridge Design Specifications Based on State-Specific Traffic Environments. <i>Journal of Bridge Engineering</i> , 2011 , 16, 812-819	2.7	19
18	Wave Passage and Ground Motion Incoherency Effects on Seismic Response of an Extended Bridge. <i>Journal of Bridge Engineering</i> , 2011 , 16, 364-374	2.7	11

17	Assessment of Seismic Performance of Structures in 2010 Chile Earthquake through Field Investigation and Case Studies 2011 ,		4
16	Fragility analysis of a highway over-crossing bridge with consideration of soil-structure interactions. <i>Structure and Infrastructure Engineering</i> , 2010 , 6, 159-178	2.9	50
15	Evaluation of building period formulas for seismic design. <i>Earthquake Engineering and Structural Dynamics</i> , 2010 , 39, 1569-1583	4	37
14	Case study: Analytical investigation on the failure of a two-story RC building damaged during the 2007 Pisco-Chincha earthquake. <i>Engineering Structures</i> , 2010 , 32, 1876-1887	4.7	21
13	Seismic assessment of an existing non-seismically designed major bridge-abutment foundation system. <i>Engineering Structures</i> , 2010 , 32, 2192-2209	4.7	14
12	Bridge Damage and Repair Costs from Hurricane Katrina. <i>Journal of Bridge Engineering</i> , 2008 , 13, 6-14	2.7	149
11	Seismic Analysis of Meloland Road Overcrossing Using Multiplatform Simulation Software Including SSI. <i>Journal of Structural Engineering</i> , 2008 , 134, 651-660	3	40
10	A framework for distributed analytical and hybrid simulations. <i>Structural Engineering and Mechanics</i> , 2008 , 30, 331-350		35
9	Fragility Analysis of a Bridge with Consideration of Soil-Structure-Interaction Using Multi-Platform Analysis 2007 , 1		2
8	The effect of material and ground motion uncertainty on the seismic vulnerability curves of RC structure. <i>Engineering Structures</i> , 2006 , 28, 289-303	4.7	242
7	Fragility Analysis of RC Bridge Pier Considering Soil-Structure Interaction 2006 , 1		2
6	TECHNICAL NOTE A FRAMEWORK FOR MULTI-SITE DISTRIBUTED SIMULATION AND APPLICATION TO COMPLEX STRUCTURAL SYSTEMS. <i>Journal of Earthquake Engineering</i> , 2005 , 9, 741-753	1.8	45
5	. <i>Journal of Earthquake Engineering</i> , 2005 , 9, 741	1.8	14
4	Multi-Platform Earthquake Analysis of Geotechnical-Structural Systems 2005 , 1		
3	Evaluation of the seismic performance of a three-story ordinary moment-resisting concrete frame. <i>Earthquake Engineering and Structural Dynamics</i> , 2004 , 33, 669-685	4	22
2	. <i>Journal of Earthquake Engineering</i> , 2004 , 8, 69	1.8	16
1	Investigation of dynamic P- Δ effect on ductility factor. <i>Structural Engineering and Mechanics</i> , 2001 , 12, 249-266		3