

# Oh-Sung Kwon

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3972313/publications.pdf>

Version: 2024-02-01

95  
papers

2,028  
citations

236833

25  
h-index

276775

41  
g-index

97  
all docs

97  
docs citations

97  
times ranked

1425  
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of material and ground motion uncertainty on the seismic vulnerability curves of RC structure. <i>Engineering Structures</i> , 2006, 28, 289-303.	2.6	306
2	Bridge Damage and Repair Costs from Hurricane Katrina. <i>Journal of Bridge Engineering</i> , 2008, 13, 6-14.	1.4	182
3	Response prediction of nonlinear hysteretic systems by deep neural networks. <i>Neural Networks</i> , 2019, 111, 1-10.	3.3	67
4	Structural performance of a parked wind turbine tower subjected to strong ground motions. <i>Engineering Structures</i> , 2016, 120, 92-102.	2.6	63
5	Fragility analysis of a highway over-crossing bridge with consideration of soil-structure interactions. <i>Structure and Infrastructure Engineering</i> , 2010, 6, 159-178.	2.0	60
6	Evaluation of building period formulas for seismic design. <i>Earthquake Engineering and Structural Dynamics</i> , 2010, 39, 1569-1583.	2.5	53
7	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.	1.4	52
8	Probabilistic evaluation of seismic responses using deep learning method. <i>Structural Safety</i> , 2020, 84, 101913.	2.8	50
9	Seismic Analysis of Meloland Road Overcrossing Using Multiplatform Simulation Software Including SSI. <i>Journal of Structural Engineering</i> , 2008, 134, 651-660.	1.7	46
10	Hybrid Simulation for Earthquake Response of Semirigid Partial-Strength Steel Frames. <i>Journal of Structural Engineering</i> , 2013, 139, 1134-1148.	1.7	45
11	A framework for distributed analytical and hybrid simulations. <i>Structural Engineering and Mechanics</i> , 2008, 30, 331-350.	1.0	40
12	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.	2.5	39
13	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.	2.5	39
14	Can a buried gas pipeline experience local buckling during earthquake ground shaking?. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 116, 511-529.	1.9	38
15	Numerical simulation of damage evolution of Daikai station during the 1995 Kobe earthquake. <i>Engineering Structures</i> , 2020, 206, 110180.	2.6	38
16	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.	1.9	37
17	Model updating method for substructure pseudo-dynamic hybrid simulation. <i>Earthquake Engineering and Structural Dynamics</i> , 2013, 42, 1971-1984.	2.5	37
18	Numerical models of RC elements and their impacts on seismic performance assessment. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 283-298.	2.5	33

#	ARTICLE	IF	CITATIONS
19	Pre- and post-earthquake regional loss assessment using deep learning. <i>Earthquake Engineering and Structural Dynamics</i> , 2020, 49, 657-678.	2.5	33
20	Seismic Displacement Demands on Skewed Bridge Decks Supported on Elastomeric Bearings. <i>Journal of Earthquake Engineering</i> , 2013, 17, 998-1022.	1.4	31
21	A Generalized Numerical/Experimental Distributed Simulation Framework. <i>Journal of Earthquake Engineering</i> , 2020, 24, 682-703.	1.4	31
22	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.	2.5	27
23	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.	2.5	27
24	Hybrid Simulation Method for a Structure Subjected to Fire and Its Application to a Steel Frame. <i>Journal of Structural Engineering</i> , 2018, 144, .	1.7	26
25	Nonlinear modeling of MDOF structures equipped with viscoelastic dampers with strain, temperature and frequency-dependent properties. <i>Engineering Structures</i> , 2018, 168, 903-914.	2.6	26
26	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.	1.9	26
27	Evaluation of CANDU NPP containment structure subjected to aging and internal pressure increase. <i>Nuclear Engineering and Design</i> , 2017, 314, 82-92.	0.8	25
28	Scenario-Based Seismic Risk Assessment for Buried Transmission Gas Pipelines at Regional Scale. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2018, 9, .	0.9	25
29	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.	2.6	24
30	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.	1.4	23
31	Title is missing!. <i>Journal of Earthquake Engineering</i> , 2004, 8, 69.	1.4	22
32	Seismic assessment of an existing non-seismically designed major bridge-abutment foundation system. <i>Engineering Structures</i> , 2010, 32, 2192-2209.	2.6	22
33	Title is missing!. <i>Journal of Earthquake Engineering</i> , 2005, 9, 741.	1.4	21
34	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.	2.5	19
35	Statistical Distribution of Bridge Resistance Using Updated Material Parameters. <i>Journal of Bridge Engineering</i> , 2012, 17, 462-469.	1.4	17
36	Continuous Real-Time Hybrid Simulation Method for Structures Subject to Fire. <i>Journal of Structural Engineering</i> , 2019, 145, .	1.7	17

#	ARTICLE	IF	CITATIONS
37	Wave Passage and Ground Motion Incoherency Effects on Seismic Response of an Extended Bridge. <i>Journal of Bridge Engineering</i> , 2011, 16, 364-374.	1.4	16
38	Accuracy of nonlinear static procedures for the seismic assessment of shear critical structures. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 1581-1600.	2.5	16
39	Development of a finite 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.	2.5	16
40	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.	2.5	14
41	Time and frequency domain analyses of the Hualien Large-Scale Seismic Test. <i>Nuclear Engineering and Design</i> , 2015, 295, 261-275.	0.8	14
42	Shrinkage and creep strains of concrete exposed to low relative humidity and high temperature environments. <i>Nuclear Engineering and Design</i> , 2019, 352, 110154.	0.8	14
43	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.	1.7	14
44	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.	2.5	13
45	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.	2.5	11
46	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.	2.5	11
47	Clustering-based adaptive ground motion selection algorithm for efficient estimation of structural fragilities. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 1755-1776.	2.5	11
48	Hybrid Simulation of Small-Scale Steel Braced Frame Subjected to Fire and Fire Following Earthquake. <i>Journal of Structural Engineering</i> , 2020, 146, 04019182.	1.7	10
49	An integrated simulation method for coupled dynamic systems. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2020, 35, 1115-1131.	6.3	10
50	Intercontinental Hybrid Simulation for the Assessment of a Three-Span R/C Highway Overpass. <i>Journal of Earthquake Engineering</i> , 2019, 23, 1194-1215.	1.4	9
51	Influence of frequency content of ground motions on seismic fragility of equipment in nuclear power plant. <i>Engineering Structures</i> , 2020, 224, 111220.	2.6	9
52	Seismic behaviour of post-tensioned precast concrete beam-column connections. <i>Magazine of Concrete Research</i> , 2021, 73, 433-447.	0.9	9
53	Small-scale multi-axial hybrid simulation of a shear-critical reinforced concrete frame. <i>Earthquake Engineering and Engineering Vibration</i> , 2017, 16, 727-743.	1.1	8
54	A framework for multi-platform simulation of reinforced concrete structures. <i>Engineering Structures</i> , 2019, 181, 260-270.	2.6	8

#	ARTICLE	IF	CITATIONS
55	Weakly Coupled Hybrid Simulation Method for Structural Testing: Theoretical Framework and Numerical Verification. <i>Journal of Structural Engineering</i> , 2020, 146, .	1.7	8
56	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, .	1.7	8
57	Experimental and Numerical Characterization of Ultralow-Cycle Fatigue Behavior of Steel Castings. <i>Journal of Structural Engineering</i> , 2020, 146, .	1.7	7
58	Full-Scale Experimental Testing and Postfracture Simulations of Cast-Steel Yielding Connectors. <i>Journal of Structural Engineering</i> , 2020, 146, 04020261.	1.7	7
59	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.	2.5	6
60	Real-Time Aeroelastic Hybrid Simulation of a Base-Pivoting Building Model in a Wind Tunnel. <i>Frontiers in Built Environment</i> , 2020, 6, .	1.2	6
61	Development of a civil infrastructure resilience assessment framework and its application to a nuclear power plant. <i>Structure and Infrastructure Engineering</i> , 2022, 18, 1-14.	2.0	6
62	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.	2.5	6
63	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, .	1.7	6
64	An integrated simulation method for soil-structure interaction analysis of nuclear structures. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 2634-2652.	2.5	6
65	Modeling Beam-Membrane Interface in Reinforced Concrete Frames. <i>ACI Structural Journal</i> , 2018, 115, .	0.3	6
66	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.	0.7	5
67	Numerical modelling method for inelastic and frequency-dependent behavior of shallow foundations. <i>Soil Dynamics and Earthquake Engineering</i> , 2017, 92, 377-387.	1.9	5
68	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.	2.5	5
69	Evaluation of correlation between engineering demand parameters of structures for seismic system reliability analysis. <i>Structural Safety</i> , 2021, 93, 102133.	2.8	5
70	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.	0.1	5
71	Model-based adaptive kinematic transformation method for accurate control of multi-DOF boundary conditions in conventional tests and hybrid simulations. <i>Earthquake Engineering and Structural Dynamics</i> , 2022, 51, 1076-1095.	2.5	5
72	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.	2.5	5

#	ARTICLE	IF	CITATIONS
73	Assessment of Seismic Performance of Structures in 2010 Chile Earthquake through Field Investigation and Case Studies. , 2011, , .		4
74	Hybrid Simulation of Structure-Pipe-Structure Interaction within a Gas Processing Plant. Journal of Pipeline Systems Engineering and Practice, 2021, 12, .	0.9	4
75	AN INTEGRATED FRAMEWORK FOR THE ANALYSIS OF MIXED-TYPE REINFORCED CONCRETE STRUCTURES. , 2015, , .		4
76	Distributed analysis of interacting soil and structural systems under dynamic loading. Innovative Infrastructure Solutions, 2017, 2, 1.	1.1	3
77	Design of Experimental Apparatus for Real-Time Wind-Tunnel Hybrid Simulation of Bridge Decks and Buildings. , 2019, , .		3
78	Development of Temperature and Constraint-Dependent Column Demand-Capacity Curves and Their Validation through Hybrid Fire Simulations. Journal of Structural Engineering, 2021, 147, .	1.7	3
79	Investigation of dynamic $P\text{-}\hat{I}^m$ effect on ductility factor. Structural Engineering and Mechanics, 2001, 12, 249-266.	1.0	3
80	Experimental method for evaluation of soil-pipe interaction subjected to lateral or vertical cyclic load. Earthquake Engineering and Structural Dynamics, 2022, 51, 552-568.	2.5	3
81	Fragility Analysis of RC Bridge Pier Considering Soil-Structure Interaction. , 2006, , 1.		2
82	Fragility Analysis of a Bridge with Consideration of Soil-Structure-Interaction Using Multi-Platform Analysis. , 2007, , 1.		2
83	Sensitivity of Reliability Index of Bridge Girders to Random Variables and Average Daily Truck Traffic. , 2011, , .		2
84	Uncertainty quantification in the calibration of numerical elements in nonlinear seismic analysis. Earthquake Engineering and Structural Dynamics, 2022, 51, 3000-3021.	2.5	2
85	Closure to Discussion of paper "Evaluation of building period formulas for seismic design"™ by Oh-Sung Kwon and Eung Soo Kim, Earthquake Engineering and Structural Dynamics 2010; 39(14):1569-1583. Earthquake Engineering and Structural Dynamics, 2012, 41, 1133-1135.	2.5	1
86	Evaluation of the thermal strain of an NPP containment structure during leakage rate tests. Engineering Structures, 2019, 201, 109761.	2.6	1
87	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. Journal of Structural Engineering, 2020, 146, 07020001.	1.7	1
88	Multi-resolution distributed FEA simulation of a 54-story RC building. Structures and Infrastructures Series, 2008, , 223-239.	0.2	1
89	Impact of loading rate during hybrid simulation on seismic response of steel structures. Earthquake Engineering and Structural Dynamics, 0, , .	2.5	1
90	Multielement Hybrid Simulations for Performance Assessment of Multistory Special Concentrically Braced Frames. Journal of Structural Engineering, 2022, 148, .	1.7	1

#	ARTICLE	IF	CITATIONS
91	Multi-Platform Earthquake Analysis of Geotechnical-Structural Systems. , 2005, , 1.		0
92	Nonlinear Response of a RC Frame Retrofitted by External Confinement and Steel Cross Braces with Super High Tension Bolts. IABSE Symposium Report, 2015, , .	0.0	0
93	Numerical Investigation of an RC Column Retrofitted with Steel Brace. , 2015, , .		0
94	NUMERICAL SEISMIC ASSESSMENT OF AN EXISTING BRIDGE WITH DIFFERENT SUPPORT CONFIGURATIONS. , 2015, , .		0
95	Multi-platform Hybrid (Experiment-Analysis) Simulations. Lecture Notes in Civil Engineering, 2017, , 37-63.	0.3	0