

# Myoungsu Shin

## List of Publications by Year in Descending Order

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**Version:** 2024-04-25

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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.

67

papers

944

citations

15

h-index

28

g-index

69

ext. papers

1,252

ext. citations

4.5

avg, IF

5.05

L-index

#	Paper	IF	Citations
67	Internal curing of cement composites using kenaf cellulose microfibers. <i>Journal of Building Engineering</i> , <b>2022</b> , 47, 103867	5.2	0
66	Rapid seismic damage-state assessment of steel moment frames using machine learning. <i>Engineering Structures</i> , <b>2022</b> , 252, 113737	4.7	3
65	Machine learning-based prediction for maximum displacement of seismic isolation systems. <i>Journal of Building Engineering</i> , <b>2022</b> , 51, 104251	5.2	0
64	Evaluation of self-healing in concrete using linear and nonlinear resonance spectroscopy. <i>Construction and Building Materials</i> , <b>2022</b> , 335, 127492	6.7	1
63	Long-term autogenous healing and re-healing performance in concrete: Evaluation using air-coupled surface-wave method. <i>Construction and Building Materials</i> , <b>2021</b> , 307, 124939	6.7	3
62	Effect of filler particle characteristics on yield stress and viscosity of fresh sulfur composites. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 12, 2138-2152	5.5	1
61	Development of extreme gradient boosting model for prediction of punching shear resistance of r/c interior slabs. <i>Engineering Structures</i> , <b>2021</b> , 235, 112067	4.7	17
60	Crack identification method for concrete structures considering angle of view using RGB-D camera-based sensor fusion. <i>Structural Health Monitoring</i> , <b>2021</b> , 20, 500-512	4.4	4
59	Effect of plant cellulose microfibers on hydration of cement composites. <i>Construction and Building Materials</i> , <b>2021</b> , 267, 121734	6.7	9
58	Prediction of seismic drift responses of planar steel moment frames using artificial neural network and extreme gradient boosting. <i>Engineering Structures</i> , <b>2021</b> , 242, 112518	4.7	10
57	Effects of soil-structure interaction on seismic performance of a low-rise R/C moment frame considering material uncertainties. <i>Journal of Building Engineering</i> , <b>2021</b> , 44, 102713	5.2	4
56	Rheological properties of cement pastes with cellulose microfibers. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 10, 808-818	5.5	4
55	Empirical Gas Explosion Models for Onshore Plant Structures: Review and Comparative Analysis. <i>Journal of Performance of Constructed Facilities</i> , <b>2020</b> , 34, 04020075	2	2
54	Reliability assessment of a planar steel frame subjected to earthquakes in case of an implicit limit-state function. <i>Journal of Building Engineering</i> , <b>2020</b> , 32, 101782	5.2	5
53	Water permeability and rapid self-healing of sustainable sulfur composites using superabsorbent polymer and binary cement. <i>Construction and Building Materials</i> , <b>2020</b> , 265, 120306	6.7	10
52	Effectiveness of diffuse ultrasound for evaluation of micro-cracking damage in concrete. <i>Cement and Concrete Research</i> , <b>2019</b> , 124, 105862	10.3	11
51	Strength and toughness of hybrid steel and glass fiber-reinforced sulfur polymer composites. <i>Construction and Building Materials</i> , <b>2019</b> , 228, 116812	6.7	5

50	Stress-based vs. Strain-based safety evaluations of spent nuclear fuel transport casks in energy-limited events. <i>Nuclear Engineering and Design</i> , <b>2019</b> , 355, 110324	1.8	6
49	Performance assessment method for crack repair in concrete using PZT-based electromechanical impedance technique. <i>NDT and E International</i> , <b>2019</b> , 104, 90-97	4.1	16
48	Nonlinear seismic assessment of irregular coupled wall systems using high-performance fiber-reinforced cement composites. <i>Structural Design of Tall and Special Buildings</i> , <b>2019</b> , 28, e1610	1.8	
47	Rheological properties of modified sulfur polymer composites containing cement-fly ash blend at different temperatures. <i>Construction and Building Materials</i> , <b>2019</b> , 228, 116784	6.7	12
46	Self-healing of modified sulfur composites with calcium sulfoaluminate cement and superabsorbent polymer. <i>Composites Part B: Engineering</i> , <b>2019</b> , 162, 469-483	10	27
45	Crack and Noncrack Classification from Concrete Surface Images Using Machine Learning. <i>Structural Health Monitoring</i> , <b>2019</b> , 18, 725-738	4.4	88
44	Editors' Choice Review Electro-Kinetic Decontamination of Radioactive Concrete Waste from Nuclear Power Plants. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, E330-E344	3.9	6
43	Combined Effects of Set Retarders and Polymer Powder on the Properties of Calcium Sulfoaluminate Blended Cement Systems. <i>Materials</i> , <b>2018</b> , 11,	3.5	10
42	Strength and microstructural characteristics of sulfur polymer composites containing binary cement and waste rubber. <i>Construction and Building Materials</i> , <b>2018</b> , 181, 276-286	6.7	14
41	Microstructure evolution and strength development of ultra rapid hardening cement modified with redispersible polymer powder. <i>Construction and Building Materials</i> , <b>2018</b> , 192, 715-730	6.7	10
40	Effects of Redispersible Polymer Powder on Mechanical and Durability Properties of Preplaced Aggregate Concrete with Recycled Railway Ballast. <i>International Journal of Concrete Structures and Materials</i> , <b>2018</b> , 12,	2.8	8
39	Surface-Wave Based Model for Estimation of Discontinuity Depth in Concrete. <i>Sensors</i> , <b>2018</b> , 18,	3.8	6
38	Applicability of Diffuse Ultrasound to Evaluation of the Water Permeability and Chloride Ion Penetrability of Cracked Concrete. <i>Sensors</i> , <b>2018</b> , 18,	3.8	4
37	Sustainable sulfur composites with enhanced strength and lightweightness using waste rubber and fly ash. <i>Construction and Building Materials</i> , <b>2017</b> , 135, 650-664	6.7	22
36	Seismic toughness and failure mechanisms of reduced web-section beams: Phase 2 tests. <i>Engineering Structures</i> , <b>2017</b> , 141, 607-623	4.7	11
35	Comparative analysis of image binarization methods for crack identification in concrete structures. <i>Cement and Concrete Research</i> , <b>2017</b> , 99, 53-61	10.3	90
34	Reduction of reinforcement congestion in slender coupling beam using bundled diagonal bars. <i>Magazine of Concrete Research</i> , <b>2017</b> , 69, 1157-1169	2	4
33	Seismic toughness and failure mechanisms of reduced web-section beams: Phase 1 tests. <i>Engineering Structures</i> , <b>2017</b> , 141, 198-216	4.7	14

32	Concrete Crack Identification Using a UAV Incorporating Hybrid Image Processing. <i>Sensors</i> , <b>2017</b> , 17,	3.8	84
31	Principles and Applications of Ultrasonic-Based Nondestructive Methods for Self-Healing in Cementitious Materials. <i>Materials</i> , <b>2017</b> , 10,	3.5	35
30	A dynamic estimation of casualties from an earthquake based on a time-use survey: applying HAZUS-MH software to Ulsan, Korea. <i>Natural Hazards</i> , <b>2016</b> , 81, 289-306	3	14
29	Behavior of high-performance fiber-reinforced cement composite columns subjected to horizontal biaxial and axial loads. <i>Construction and Building Materials</i> , <b>2016</b> , 106, 89-101	6.7	11
28	Direct-tensile and flexural strength and toughness of high-strength fiber-reinforced cement composites with different steel fibers. <i>Journal of Asian Concrete Federation</i> , <b>2016</b> , 2, 67	1.8	3
27	Cyclic performance of precast coupling beams with bundled diagonal reinforcement. <i>Engineering Structures</i> , <b>2015</b> , 93, 142-151	4.7	23
26	Behaviour of fibre-reinforced beams with diagonal reinforcement. <i>Magazine of Concrete Research</i> , <b>2015</b> , 67, 1287-1300	2	12
25	Experimental and Numerical Assessment of Bonded and Unbonded Post-Tensioned Concrete Members. <i>ACI Structural Journal</i> , <b>2015</b> , 112,	1.7	8
24	Hysteretic Behavior Evaluation of a RC Coupling Beam using a Steel Fiber and Diagonal Reinforcement. <i>Journal of the Korea Concrete Institute</i> , <b>2015</b> , 27, 291-298	0.8	1
23	Effectiveness of high performance fiber-reinforced cement composites in slender coupling beams. <i>Construction and Building Materials</i> , <b>2014</b> , 68, 476-490	6.7	22
22	Improved capacity spectrum method with inelastic displacement ratio considering higher mode effects. <i>Earthquake and Structures</i> , <b>2014</b> , 7, 587-607		2
21	Unified equivalent frame method for flat plate slab structures under combined gravity and lateral loads - Part 1: derivation. <i>Earthquake and Structures</i> , <b>2014</b> , 7, 719-733		3
20	Durability of sustainable sulfur concrete with fly ash and recycled aggregate against chemical and weathering environments. <i>Construction and Building Materials</i> , <b>2014</b> , 69, 167-176	6.7	29
19	Unified equivalent frame method for flat plate slab structures under combined gravity and lateral loads - Part 2: verification. <i>Earthquake and Structures</i> , <b>2014</b> , 7, 735-751		1
18	Experimental and analytical assessment of SRF and aramid composites in retrofitting RC columns. <i>Earthquake and Structures</i> , <b>2014</b> , 7, 797-815		1
17	Nonlinear modeling parameters of RC coupling beams in a coupled wall system. <i>Earthquake and Structures</i> , <b>2014</b> , 7, 817-842		3
16	Gravity and Lateral Load-Carrying Capacities of Reinforced Concrete Flat Plate Systems. <i>ACI Structural Journal</i> , <b>2014</b> , 111,	1.7	14
15	Shear strength model for reinforced concrete rectangular hollow columns. <i>Engineering Structures</i> , <b>2013</b> , 56, 958-969	4.7	7

14	Seismic Performance Evaluation of RC Beam-Column Connections in Special and Intermediate Moment Frames. <i>Journal of Earthquake Engineering</i> , <b>2013</b> , 17, 187-208	1.8	5
13	Effectiveness of low-cost fiber-reinforced cement composites in hollow columns under cyclic loading. <i>Construction and Building Materials</i> , <b>2013</b> , 47, 623-635	6.7	9
12	Combined effects of recycled aggregate and fly ash towards concrete sustainability. <i>Construction and Building Materials</i> , <b>2013</b> , 48, 499-507	6.7	70
11	Developments in excavation bracing systems. <i>Tunnelling and Underground Space Technology</i> , <b>2012</b> , 31, 107-116	5.7	5
10	Cyclic Testing for Seismic Design Guide of Beam-Column Joints with Closely Spaced Headed Bars. <i>Journal of Earthquake Engineering</i> , <b>2012</b> , 16, 211-230	1.8	14
9	Towards optimal design of high-rise building tube systems. <i>Structural Design of Tall and Special Buildings</i> , <b>2012</b> , 21, 447-464	1.8	7
8	Design and behaviour of a reinforced concrete high-rise tube building with belt walls. <i>Structural Design of Tall and Special Buildings</i> , <b>2012</b> , 21, 918-932	1.8	2
7	Concrete contribution to initial shear strength of RC hollow bridge columns. <i>Structural Engineering and Mechanics</i> , <b>2012</b> , 41, 43-65		25
6	Analytical assessment and modeling of RC beam-column connections strengthened with CFRP composites. <i>Composites Part B: Engineering</i> , <b>2011</b> , 42, 1786-1798	10	6
5	Practical modelling of high-rise dual systems with reinforced concrete slab-column frames. <i>Structural Design of Tall and Special Buildings</i> , <b>2009</b> , 19, n/a-n/a	1.8	2
4	Performance and Design of Eccentric Reinforced Concrete Beam-Column Connections Subjected to Seismic Lateral Load Reversals <b>2009</b> ,		15
3	Discussion of Modeling Reinforced-Concrete Beam-Column Joints Subjected to Cyclic Loading by Laura N. Lowes and Arash Altoontash. <i>Journal of Structural Engineering</i> , <b>2005</b> , 131, 992-993	3	4
2	Modeling of cyclic joint shear deformation contributions in RC beam-column connections to overall frame behavior. <i>Structural Engineering and Mechanics</i> , <b>2004</b> , 18, 645-669		70
1	Monitoring of self-healing in concrete with micro-capsules using a combination of air-coupled surface wave and computer-vision techniques. <i>Structural Health Monitoring</i> , 147592172110410	4.4	0