

# Myoungsu Shin

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/837309/myoungsu-shin-publications-by-citations.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
66	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
65	Concrete Crack Identification Using a UAV Incorporating Hybrid Image Processing. <i>Sensors</i> , <b>2017</b> , 17,	3.8	84
64	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
63	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
62	Principles and Applications of Ultrasonic-Based Nondestructive Methods for Self-Healing in Cementitious Materials. <i>Materials</i> , <b>2017</b> , 10,	3.5	35
61	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
60	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
59	Concrete contribution to initial shear strength of RC hollow bridge columns. <i>Structural Engineering and Mechanics</i> , <b>2012</b> , 41, 43-65		25
58	Cyclic performance of precast coupling beams with bundled diagonal reinforcement. <i>Engineering Structures</i> , <b>2015</b> , 93, 142-151	4.7	23
57	Sustainable sulfur composites with enhanced strength and lightwightness using waste rubber and fly ash. <i>Construction and Building Materials</i> , <b>2017</b> , 135, 650-664	6.7	22
56	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
55	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
54	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
53	Performance and Design of Eccentric Reinforced Concrete Beam-Column Connections Subjected to Seismic Lateral Load Reversals <b>2009</b> ,		15
52	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
51	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

50	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
49	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
48	Gravity and Lateral Load-Carrying Capacities of Reinforced Concrete Flat Plate Systems. <i>ACI Structural Journal</i> , <b>2014</b> , 111,	1.7	14
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	Behaviour of fibre-reinforced beams with diagonal reinforcement. <i>Magazine of Concrete Research</i> , <b>2015</b> , 67, 1287-1300	2	12
45	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
44	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
43	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
42	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
41	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
40	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
39	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
38	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
37	Effect of plant cellulose microfibers on hydration of cement composites. <i>Construction and Building Materials</i> , <b>2021</b> , 267, 121734	6.7	9
36	Experimental and Numerical Assessment of Bonded and Unbonded Post-Tensioned Concrete Members. <i>ACI Structural Journal</i> , <b>2015</b> , 112,	1.7	8
35	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
34	Shear strength model for reinforced concrete rectangular hollow columns. <i>Engineering Structures</i> , <b>2013</b> , 56, 958-969	4.7	7
33	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

32	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
31	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
30	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
29	Surface-Wave Based Model for Estimation of Discontinuity Depth in Concrete. <i>Sensors</i> , <b>2018</b> , 18,	3.8	6
28	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
27	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
26	Developments in excavation bracing systems. <i>Tunnelling and Underground Space Technology</i> , <b>2012</b> , 31, 107-116	5.7	5
25	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
24	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
23	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
22	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
21	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
20	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
19	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
18	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
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	Rapid seismic damage-state assessment of steel moment frames using machine learning. <i>Engineering Structures</i> , <b>2022</b> , 252, 113737	4.7	3
15	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

14	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
13	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
12	Improved capacity spectrum method with inelastic displacement ratio considering higher mode effects. <i>Earthquake and Structures</i> , <b>2014</b> , 7, 587-607		2
11	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
10	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
9	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
8	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
7	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
6	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
5	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
4	Internal curing of cement composites using kenaf cellulose microfibers. <i>Journal of Building Engineering</i> , <b>2022</b> , 47, 103867	5.2	0
3	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
2	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
1	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	