

# Hyeon-Jong Hwang

## List of Publications by Year in descending order

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Version: 2024-02-01

96  
papers

1,342  
citations

361388

20  
h-index

434170

31  
g-index

96  
all docs

96  
docs citations

96  
times ranked

672  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cyclic lateral loading test for composite columns with high-strength steel angle cage. <i>Engineering Structures</i> , 2022, 250, 113463.	5.3	6
2	Multilinear model for progressive collapse response of reinforced concrete frames under penultimate column removal scenario. <i>Journal of Building Engineering</i> , 2022, 47, 103850.	3.4	5
3	Pendulum impact loading tests of precast concrete columns with various column base connections. <i>Engineering Structures</i> , 2022, 252, 113736.	5.3	6
4	Assessment of punching shear strength of FRP-RC slab-column connections using machine learning algorithms. <i>Engineering Structures</i> , 2022, 255, 113898.	5.3	27
5	Tensile and flexural behaviors of connections between steel beam and concrete-encased-and-filled steel tube column. <i>Journal of Building Engineering</i> , 2022, 49, 104042.	3.4	0
6	Bond behavior of spirally confined bar splices in grout. <i>Construction and Building Materials</i> , 2022, 327, 127060.	7.2	4
7	Seismic performance of semi-precast composite columns with bolted end-plate connections to footing. <i>Engineering Structures</i> , 2022, 259, 114174.	5.3	3
8	Reliability of fully assembled precast concrete frame structures against progressive collapse. <i>Journal of Building Engineering</i> , 2022, 51, 104362.	3.4	2
9	Shear Strength Degradation Model for Performance-Based Design of Short Coupling Beams. <i>ACI Structural Journal</i> , 2022, , .	0.2	0
10	Punching Shear Strength of Post-Tensioned Transfer Slab-Column Connections. <i>Journal of Structural Engineering</i> , 2022, 148, .	3.4	1
11	Behavior of Hollow Structural Section Branch-to-Casting Node Connections for Free-Form Grid Shell Structures. <i>Journal of Structural Engineering</i> , 2022, 148, .	3.4	1
12	Effect of stirrups on the bond behavior of lap spliced GFRP bars in concrete beams. <i>Engineering Structures</i> , 2022, 266, 114552.	5.3	11
13	Plastic Hinge Model for Performance-Based Design of Beam-Column Joints. <i>Journal of Structural Engineering</i> , 2021, 147, .	3.4	13
14	Flexural behavior of alkali-activated slag-based concrete beams. <i>Engineering Structures</i> , 2021, 229, 111644.	5.3	23
15	Simplified Plastic Hinge Model for Reinforced Concrete Beam-Column Joints with Eccentric Beams. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1303.	2.5	2
16	Crack monitoring and damage assessment of BFRP-jacketed concrete cylinders under compression load based on acoustic emission techniques. <i>Construction and Building Materials</i> , 2021, 272, 121936.	7.2	33
17	Two-way shear strength of reinforced concrete transfer slab-column connections. <i>Engineering Structures</i> , 2021, 231, 111693.	5.3	8
18	Flexural testing for composite members with bolt-connected steel angles. <i>Engineering Structures</i> , 2021, 230, 111638.	5.3	7

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19	Cyclic loading test for shear-deficient reinforced concrete exterior beam-column joints with high-strength bars. <i>Engineering Structures</i> , 2021, 237, 112140.	5.3	5
20	Energy-based dynamic parameter identification for Pasternak foundation model. <i>Earthquake Engineering and Engineering Vibration</i> , 2021, 20, 631-643.	2.3	2
21	Static Load Test on the Progressive Collapse Resistance of Precast Concrete Frame Substructure during and after High Temperature. <i>Journal of Structural Engineering</i> , 2021, 147, .	3.4	11
22	Punching shear strength of reinforced concrete transfer slab-column connections with shear reinforcement. <i>Engineering Structures</i> , 2021, 243, 112610.	5.3	4
23	Behavior of High-Strength and Ultrahigh-Performance Concrete Targets Subjected to Relatively Rigid Projectile Impact. <i>Journal of Structural Engineering</i> , 2021, 147, .	3.4	6
24	Tensile and shear behavior of box connector for precast concrete shear walls. <i>Engineering Structures</i> , 2021, 245, 112983.	5.3	7
25	Evaluation of structural performance for beam-column joints with high-strength materials under cyclic loading using PIV technique. <i>Journal of Building Engineering</i> , 2021, 44, 103283.	3.4	7
26	Evaluation of Soil Coefficients for Two-Parameter Subgrade Soil Model Based on Rigid Plate Loading Tests. <i>Geotechnical Testing Journal</i> , 2021, 44, 20190150.	1.0	0
27	Punching shear strength improved by upward panel in reinforced concrete transfer slabs. <i>Journal of Building Engineering</i> , 2021, 46, 103753.	3.4	1
28	Progressive Collapse Resistance Analysis of Precast Concrete Building Structures in Korea. <i>Journal of the Computational Structural Engineering Institute of Korea</i> , 2021, 34, 417-426.	0.4	0
29	Modeling of shear mechanisms and strength of concrete deep beams reinforced with FRP bars. <i>Composite Structures</i> , 2020, 234, 111715.	5.8	24
30	Effect of Impact Load on Splice Length of Reinforcing Bars. <i>International Journal of Concrete Structures and Materials</i> , 2020, 14, .	3.2	7
31	Effect of pre-damage on compressive properties of circular RC columns repaired with BFRP composites: Testing and modeling. <i>Composite Structures</i> , 2020, 247, 112483.	5.8	18
32	Dynamic load test on progressive collapse resistance of fully assembled precast concrete frame structures. <i>Engineering Structures</i> , 2020, 214, 110675.	5.3	36
33	Shear tests on reinforced slag-based geopolymer concrete beams with transverse reinforcement. <i>Engineering Structures</i> , 2020, 219, 110966.	5.3	34
34	Eccentric-Axial-Load Test for Composite Columns Using Bolt-Connected Steel Angles. <i>Journal of Structural Engineering</i> , 2020, 146, .	3.4	12
35	Field measurements for calibration of simplified models of the stiffening effect of infill masonry walls in high-rise RC framed and shear-wall buildings. <i>Earthquake Engineering and Engineering Vibration</i> , 2020, 19, 87-104.	2.3	7
36	Progressive collapse test of assembled monolithic concrete frame spatial substructures with different anchorage methods in the beam-column joint. <i>Advances in Structural Engineering</i> , 2020, 23, 1785-1799.	2.4	12

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37	Static and dynamic loading tests for precast concrete moment frames under progressive collapse. <i>Engineering Structures</i> , 2020, 213, 110612.	5.3	27
38	Concentric axial load test for composite columns using bolt-connected steel angles. <i>Engineering Structures</i> , 2020, 214, 110650.	5.3	12
39	Monotonic and Cyclic Axial Compressive Properties and Modeling of Basalt FRP-Retrofitted Predamaged Short Columns. <i>Journal of Composites for Construction</i> , 2020, 24, .	3.2	23
40	Performance-Based Shear Design of Exterior Beam- Column Joints with Standard Hooked Bars. <i>ACI Structural Journal</i> , 2020, 117, .	0.2	3
41	Structural capacity of reinforced concrete columns with U-shaped transverse bars. <i>Engineering Structures</i> , 2020, 216, 110686.	5.3	4
42	Load-Transfer Design of Wall-Piloti Structure with Lateral Support. <i>ACI Structural Journal</i> , 2020, 117, .	0.2	0
43	Predicting reinforcing bar development length using polynomial chaos expansions. <i>Engineering Structures</i> , 2019, 195, 524-535.	5.3	16
44	Prediction of bond performance of tension lap splices using artificial neural networks. <i>Engineering Structures</i> , 2019, 198, 109535.	5.3	19
45	Bearing behavior of reinforced concrete column-isolated footing substructures. <i>Engineering Structures</i> , 2019, 200, 109744.	5.3	5
46	Punching shear strength of reinforced concrete column footings under eccentric compression: Experiment and analysis. <i>Engineering Structures</i> , 2019, 198, 109509.	5.3	21
47	Static load test on progressive collapse resistance of fully assembled precast concrete frame structure. <i>Engineering Structures</i> , 2019, 200, 109719.	5.3	64
48	Punching shear strength of UHPFRC-RC composite flat plates. <i>Engineering Structures</i> , 2019, 184, 278-286.	5.3	16
49	Cyclic Lateral Load Test for RC Column-Steel Beam Joints with Simplified Connection Details. <i>Journal of Structural Engineering</i> , 2019, 145, .	3.4	17
50	Effect of impact loading on bar development length in CCT node. <i>Journal of Structural Integrity and Maintenance</i> , 2019, 4, 26-36.	1.5	6
51	Behavior and analysis of unsymmetrical double barrel precast concrete box culverts with posttensioning bars. <i>Structural Concrete</i> , 2019, 20, 1438-1450.	3.1	1
52	Cyclic loading test for interior precast SRC beam-column joints with and without slab. <i>Engineering Structures</i> , 2019, 182, 1-12.	5.3	30
53	Numerical Model for Flexural Behavior of Reinforced Concrete Members Subjected to Low-Velocity Impact Loads. <i>ACI Structural Journal</i> , 2019, 116, .	0.2	15
54	Development Length of Headed Bar Based on Nonuniform Bond Stress Distribution. <i>ACI Structural Journal</i> , 2019, 116, .	0.2	3

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55	Requirements of Shear Strength and Hoops for Performance-Based Design of Interior Beam-Column Joints. ACI Structural Journal, 2019, 116, .	0.2	14
56	Shear Strength of Reinforced Concrete Simple and Continuous Deep Beams. ACI Structural Journal, 2019, 116, .	0.2	20
57	Earthquake response of low-rise RC moment frame structures according to energy dissipation ratio of beam-column joints. Journal of Structural Integrity and Maintenance, 2018, 3, 33-43.	1.5	9
58	Seismic behavior of low-corroded reinforced concrete short columns in an over 20-year building structure. Soil Dynamics and Earthquake Engineering, 2018, 106, 90-100.	3.8	40
59	Numerical Investigation on Load-carrying Capacity of High-strength Concrete-encased Steel Angle Columns. International Journal of Concrete Structures and Materials, 2018, 12, .	3.2	17
60	Cracking strut-and-tie model for shear strength evaluation of reinforced concrete deep beams. Engineering Structures, 2018, 163, 396-408.	5.3	57
61	Prefabricated Steel-Reinforced Concrete Composite Column. , 2018, , .		1
62	Cyclic loading test for circular reinforced concrete columns subjected to near-fault ground motion. Soil Dynamics and Earthquake Engineering, 2018, 112, 8-17.	3.8	12
63	A mixture proportioning method for the development of performance-based alkali-activated slag-based concrete. Cement and Concrete Composites, 2018, 93, 163-174.	10.7	119
64	Shear strength of reinforced concrete beams with precast High-Performance Fiber-Reinforced Cementitious Composite permanent form. Composite Structures, 2018, 200, 829-838.	5.8	14
65	Development Length of Compression Reinforcing Bar Based on Nonuniform Bond Stress Distribution. ACI Structural Journal, 2018, 115, .	0.2	2
66	Parametric study on local impact damage of concrete members. MOJ Civil Engineering, 2018, 4, 369-372.	0.3	0
67	Shear Force Amplification Effect Addressing Nonlinear Dynamic Response in Slender RC Walls. Journal of the Korea Concrete Institute, 2018, 30, 135-146.	0.2	2
68	Cyclic Loading Test for Concrete-Filled Hollow Precast Concrete Columns Produced by Using a New Fabrication Method. Journal of Structural Engineering, 2017, 143, .	3.4	17
69	Nonuniform Bond Stress Distribution Model for Evaluation of Bar Development Length. ACI Structural Journal, 2017, 114, .	0.2	22
70	Energy-Based Penetration Model for Local Impact-Damaged Concrete Members. ACI Structural Journal, 2017, 114, .	0.2	10
71	Shear Strength Degradation Model for Performance-Based Design of Interior Beam-Column Joints. ACI Structural Journal, 2017, 114, .	0.2	10
72	Development Length of Standard Hooked Bar Based on Non-Uniform Bond Stress Distribution. ACI Structural Journal, 2017, 114, .	0.2	12

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73	Axial Load Test of Prefabricated Composite Columns Using Bolt-connected Steel Angles. Journal of Korean Society of Steel Construction, 2017, 29, 147-158.	0.5	5
74	Shear Connector Design of Steel Belt Truss-to-Concrete Mega Column Connection. ACI Structural Journal, 2017, 114, .	0.2	0
75	Effect of Steel Fiber for Crack Control in Concrete Slabs with Steel Deck Plates. ACI Structural Journal, 2017, 114, .	0.2	0
76	Review of Design Flexural Strengths of Steel-Concrete Composite Beams for Building Structures. International Journal of Concrete Structures and Materials, 2016, 10, 109-121.	3.2	7
77	Axial Load and Cyclic Lateral Load Tests for Composite Columns with Steel Angles. Journal of Structural Engineering, 2016, 142, .	3.4	26
78	Plastic Hinge Relocation Methods for Emulative PC Beam-Column Connections. Journal of Structural Engineering, 2016, 142, .	3.4	66
79	Time-Dependent Deflection of Slab Affected by Construction Load. ACI Structural Journal, 2016, 113, .	0.2	3
80	Cyclic Loading Test for Beam-Column Connections of Concrete-Filled U-Shaped Steel Beams and Concrete-Encased Steel Angle Columns. Journal of Structural Engineering, 2015, 141, .	3.4	35
81	Design considerations for interior RC beam-column joint with additional bars. Engineering Structures, 2015, 98, 1-13.	5.3	23
82	Energy-Based Hysteresis Model for Reinforced Concrete Beam-Column Connections. ACI Structural Journal, 2015, 112, .	0.2	2
83	Bond-Slip Relationship of Beam Flexural Bars in Interior Beam-Column Joints. ACI Structural Journal, 2015, 112, .	0.2	17
84	Flexural Performance and Cracking Resistance of Continuous Composite Slab using Micro Steel Fibers. Journal of the Korea Concrete Institute, 2015, 27, 387-397.	0.2	0
85	Flexural Test for Steel-Concrete Composite Members Using Prefabricated Steel Angles. Journal of Structural Engineering, 2014, 140, .	3.4	21
86	Cyclic Loading Test for Beam-Column Connections with 600 MPa (87 ksi) Beam Flexural Reinforcing Bars. ACI Structural Journal, 2014, 111, .	0.2	46
87	Measurement and Prediction of Long-term Deflection of Flat Plate Affected by Construction Load. Journal of the Korea Concrete Institute, 2014, 26, 615-625.	0.2	1
88	Cyclic Seismic Testing of Composite Concrete-Filled U-Shaped Steel Beam to H-Shaped Column Connections. Journal of Structural Engineering, 2013, 139, 360-378.	3.4	10
89	Cyclic Loading Test for TSC Beam - PSRC Column Connections. Journal of Korean Society of Steel Construction, 2013, 25, 601.	0.5	11
90	Cyclic Loading Tests for Prefabricated Composite Columns Using Steel Angle and Reinforcing Bar. Journal of Korean Society of Steel Construction, 2013, 25, 635.	0.5	3

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91	Cyclic loading test for concrete-filled U-shaped steel beam-RC column connections. Engineering Structures, 2012, 36, 325-336.	5.3	29
92	Compression Test for Prefabricated Composite Columns Using High-Strength Steel Angles. Journal of Korean Society of Steel Construction, 2012, 24, 361-369.	0.5	11
93	Flexural Test for Prefabricated Composite Columns Using Steel Angle and Reinforcing Bar. Journal of Korean Society of Steel Construction, 2012, 24, 535-547.	0.5	7
94	Seismic Performance of Beam-Column Connections for Special Moment Frame Using 600 MPa Flexural Reinforcement. Journal of the Korea Concrete Institute, 2011, 23, 591-601.	0.2	5
95	Effects of Shore Stiffness and Concrete Cracking on Slab Construction Load I: Theory. Journal of the Korea Concrete Institute, 2010, 22, 41-50.	0.2	5
96	Effects of Shore Stiffness and Concrete Cracking on Slab Construction Load II: Measurements and Comparisons. Journal of the Korea Concrete Institute, 2010, 22, 51-58.	0.2	4