

Seong-Hoon Hwang

List of Publications by Citations

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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.

20 papers	392 citations	10 h-index	19 g-index
20 ext. papers	620 ext. citations	3.8 avg, IF	4.76 L-index

#	Paper	IF	Citations
20	Failure mode and effects analysis of RC members based on machine-learning-based SHapley Additive exPlanations (SHAP) approach. <i>Engineering Structures</i> , 2020 , 219, 110927	4.7	71
19	Data-driven machine-learning-based seismic failure mode identification of reinforced concrete shear walls. <i>Engineering Structures</i> , 2020 , 208, 110331	4.7	68
18	Rapid seismic damage evaluation of bridge portfolios using machine learning techniques. <i>Engineering Structures</i> , 2019 , 201, 109785	4.7	58
17	Earthquake-induced loss assessment of steel frame buildings with special moment frames designed in highly seismic regions. <i>Earthquake Engineering and Structural Dynamics</i> , 2017 , 46, 2141-2162	4	53
16	Effect of Modeling Assumptions on the Earthquake-Induced Losses and Collapse Risk of Steel-Frame Buildings with Special Concentrically Braced Frames. <i>Journal of Structural Engineering</i> , 2017 , 143, 04017116	3	35
15	Rotation capacities of reduced beam section with bolted web (RBS-B) connections. <i>Journal of Constructional Steel Research</i> , 2012 , 70, 256-263	3.8	23
14	Nonmodel-based framework for rapid seismic risk and loss assessment of instrumented steel buildings. <i>Engineering Structures</i> , 2018 , 156, 417-432	4.7	16
13	Machine learning-based approaches for seismic demand and collapse of ductile reinforced concrete building frames. <i>Journal of Building Engineering</i> , 2021 , 34, 101905	5.2	15
12	Evaluation of economic losses and collapse safety of steel moment frame buildings designed for risk categories II and IV. <i>Engineering Structures</i> , 2019 , 201, 109830	4.7	11
11	Assessment of structural damage detection methods for steel structures using full-scale experimental data and nonlinear analysis. <i>Bulletin of Earthquake Engineering</i> , 2018 , 16, 2971-2999	3.7	10
10	EARTHQUAKE LOSS ASSESSMENT OF STEEL FRAME BUILDINGS DESIGNED IN HIGHLY SEISMIC REGIONS 2015 ,		7
9	Evaluation of orientation and distribution of steel fibers in high-performance concrete column determined via micro-computed tomography. <i>Construction and Building Materials</i> , 2021 , 270, 121473	6.7	7
8	Quantifying the effects of long-duration earthquake ground motions on the financial losses of steel moment resisting frame buildings of varying design risk category. <i>Earthquake Engineering and Structural Dynamics</i> , 2021 , 50, 1451-1468	4	6
7	Design Decision Support for Steel Frame Buildings through an Earthquake-Induced Loss Assessment 2015 ,		5
6	Seismic Performance Evaluation of Intermediate Moment Frames with Reduced Beam Section and Bolted Web Connections. <i>Earthquake Spectra</i> , 2015 , 31, 895-919	3.4	3
5	PROPOSED METHODOLOGY FOR EARTHQUAKE-INDUCED LOSS ASSESSMENT OF INSTRUMENTED STEEL FRAME BUILDINGS: BUILDING-SPECIFIC AND CITY-SCALE APPROACHES 2017 ,		2
4	Numerical Investigation of Blast Performance of Plate-Reinforced Moment-Resisting Connection Using Large Concrete Filled Tubular Section. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3700	2.6	1

3	Earthquake-Induced Collapse Risk and Loss Assessment of Steel Concentrically Braced Frames. <i>Key Engineering Materials</i> , 2018 , 763, 90-97	0.4	1
2	Estimation of economic seismic loss of steel moment-frame buildings using a machine learning algorithm. <i>Engineering Structures</i> , 2022 , 254, 113877	4.7	0
1	Probabilistic Seismic Demand Assessment of Steel Moment-Resisting Frame Buildings with Ordinary and Essential Occupancy Uses. <i>International Journal of Steel Structures</i> , 2020 , 20, 1230-1240	1.3	