Seong-Hoon Hwang

List of Publications by Year
in descending order

20	940	840119 11	940134 16
papers	citations	h-index	g-index

20	20	20	508
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Failure mode and effects analysis of RC members based on machine-learning-based SHapley Additive exPlanations (SHAP) approach. Engineering Structures, 2020, 219, 110927.	2.6	354
2	Data-driven machine-learning-based seismic failure mode identification of reinforced concrete shear walls. Engineering Structures, 2020, 208, 110331.	2.6	170
3	Rapid seismic damage evaluation of bridge portfolios using machine learning techniques. Engineering Structures, 2019, 201, 109785.	2.6	113
4	Earthquakeâ€induced loss assessment of steel frame buildings with special moment frames designed in highly seismic regions. Earthquake Engineering and Structural Dynamics, 2017, 46, 2141-2162.	2.5	76
5	Effect of Modeling Assumptions on the Earthquake-Induced Losses and Collapse Risk of Steel-Frame Buildings with Special Concentrically Braced Frames. Journal of Structural Engineering, 2017, 143, .	1.7	45
6	Machine learning-based approaches for seismic demand and collapse of ductile reinforced concrete building frames. Journal of Building Engineering, 2021, 34, 101905.	1.6	41
7	Rotation capacities of reduced beam section with bolted web (RBS-B) connections. Journal of Constructional Steel Research, 2012, 70, 256-263.	1.7	30
8	Nonmodel-based framework for rapid seismic risk and loss assessment of instrumented steel buildings. Engineering Structures, 2018, 156, 417-432.	2.6	20
9	Evaluation of economic losses and collapse safety of steel moment frame buildings designed for risk categories II and IV. Engineering Structures, 2019, 201, 109830.	2.6	18
10	Assessment of structural damage detection methods for steel structures using full-scale experimental data and nonlinear analysis. Bulletin of Earthquake Engineering, 2018, 16, 2971-2999.	2.3	14
11	Estimation of economic seismic loss of steel moment-frame buildings using a machine learning algorithm. Engineering Structures, 2022, 254, 113877.	2.6	13
12	Evaluation of orientation and distribution of steel fibers in high-performance concrete column determined via micro-computed tomography. Construction and Building Materials, 2021, 270, 121473.	3.2	12
13	Quantifying the effects of longâ€duration earthquake ground motions on the financial losses of steel moment resisting frame buildings of varying design risk category. Earthquake Engineering and Structural Dynamics, 2021, 50, 1451-1468.	2.5	11
14	EARTHQUAKE LOSS ASSESSMENT OF STEEL FRAME BUILDINGS DESIGNED IN HIGHLY SEISMIC REGIONS. , 2015, , .		9
15	Design Decision Support for Steel Frame Buildings through an Earthquake-Induced Loss Assessment. , 2015, , .		5
16	Seismic Performance Evaluation of Intermediate Moment Frames with Reduced Beam Section and Bolted Web Connections. Earthquake Spectra, 2015, 31, 895-919.	1.6	4
17	Numerical Investigation of Blast Performance of Plate-Reinforced Moment-Resisting Connection Using Large Concrete Filled Tubular Section. Applied Sciences (Switzerland), 2020, 10, 3700.	1.3	2
18	PROPOSED METHODOLOGY FOR EARTHQUAKE-INDUCED LOSS ASSESSMENT OF INSTRUMENTED STEEL FRAME BUILDINGS: BUILDING-SPECIFIC AND CITY-SCALE APPROACHES. , 2017, , .		2

#	Article	IF	Citations
19	Earthquake-Induced Collapse Risk and Loss Assessment of Steel Concentrically Braced Frames. Key Engineering Materials, 2018, 763, 90-97.	0.4	1
20	Probabilistic Seismic Demand Assessment of Steel Moment-Resisting Frame Buildings with Ordinary and Essential Occupancy Uses. International Journal of Steel Structures, 2020, 20, 1230-1240.	0.6	0