Seung-Hyun Eem

List of Publications by Year
in descending order

32 papers	403 citations	933447 10 h-index	752698 20 g-index
33 all docs	33 docs citations	33 times ranked	335 citing authors

#	Article	IF	Citations
1	Application of MR Elastomers for Improving Seismic Protection of Base-Isolated Structures. IEEE Transactions on Magnetics, 2011, 47, 2901-2904.	2.1	67
2	Modeling of Magneto-Rheological Elastomers for Harmonic Shear Deformation. IEEE Transactions on Magnetics, 2012, 48, 3080-3083.	2.1	62
3	Seismic Performance Analysis of A Smart Base-isolation System Considering Dynamics of MR Elastomers. Journal of Intelligent Material Systems and Structures, 2011, 22, 1439-1450.	2.5	60
4	A probabilistic micromechanical modeling for electrical properties of nanocomposites with multi-walled carbon nanotube morphology. Composites Part A: Applied Science and Manufacturing, 2017, 92, 108-117.	7.6	30
5	Enhanced mechanical and thermal properties of carbon fiber-reinforced thermoplastic polyketone composites. Composites Part A: Applied Science and Manufacturing, 2019, 126, 105599.	7.6	26
6	Large strain nonlinear model of lead rubber bearings for beyond design basis earthquakes. Nuclear Engineering and Technology, 2019, 51, 600-606.	2.3	25
7	Feasibility study of an adaptive mount system based on magnetorheological elastomer using real-time hybrid simulation. Journal of Intelligent Material Systems and Structures, 2019, 30, 701-707.	2.5	20
8	Mitigation of seismic responses of actual nuclear piping by a newly developed tuned mass damper device. Nuclear Engineering and Technology, 2021, 53, 2728-2728.	2.3	13
9	Dynamic characteristics of single door electrical cabinet under rocking: Source reconciliation of experimental and numerical findings. Nuclear Engineering and Technology, 2021, 53, 2387-2395.	2.3	13
10	Methodology of seismic-response-correlation-coefficient calculation for seismic probabilistic safety assessment of multi-unit nuclear power plants. Nuclear Engineering and Technology, 2021, 53, 967-973.	2.3	10
11	Toward improvement of sampling-based seismic probabilistic safety assessment method for nuclear facilities using composite distribution and adaptive discretization. Reliability Engineering and System Safety, 2021, 215, 107809.	8.9	10
12	Development of a Probabilistic Seismic Performance Assessment Model of Slope Using Machine Learning Methods. Sustainability, 2020, 12, 3269.	3.2	9
13	Seismic response correlation coefficient for the structures, systems and components of the Korean nuclear power plant for seismic probabilistic safety assessment. Annals of Nuclear Energy, 2021, 150, 107759.	1.8	8
14	Seismic response distribution estimation for isolated structures using stochastic response database. Earthquake and Structures, 2015, 9, 937-956.	1.0	8
15	Sensitivity analysis for the distribution of maximum responses by seismic isolation system parameters using the stochastic response database. Nuclear Engineering and Design, 2019, 347, 53-58.	1.7	6
16	Influence Analysis of Seismic Risk due to the Failure Correlation in Seismic Probabilistic Safety Assessment. Journal of the Earthquake Engineering Society of Korea, 2019, 23, 101-108.	0.2	5
17	Evaluation Model of Seismic Response Behavior and Performance of Nuclear Plant Piping Systems. Journal of the Korean Society for Advanced Composite Structures, 2020, 11, 54-62.	0.3	3
18	A Shape of the Response Spectrum for Evaluation of the Ultimate Seismic Capacity of Structures and Equipment including High-frequency Earthquake Characteristics. Journal of the Earthquake Engineering Society of Korea, 2020, 24, 1-8.	0.2	3

#	Article	IF	Citations
19	Sampling-based Approach for Seismic Probabilistic Risk Assessment. Journal of the Computational Structural Engineering Institute of Korea, 2020, 33, 129-136.	0.4	3
20	Shaking table test and numerical analysis of nuclear piping under low- and high-frequency earthquake motions. Nuclear Engineering and Technology, 2022, 54, 3361-3379.	2.3	3
21	A Study on the Effects of Nuclear Power Plant Structure-Component Interaction in Component Seismic Responses. Journal of the Computational Structural Engineering Institute of Korea, 2022, 35, 83-91.	0.4	3
22	On improving seismic risk and cost for nuclear energy facility based on multi-objective optimization considering seismic correlation. Energy Reports, 2022, 8, 7230-7241.	5.1	3
23	Simplified Methodology for Urban Flood Damage Assessment at Building Scale using Open Data. Journal of Coastal Research, 2018, 85, 1396-1400.	0.3	2
24	The Effects of Seismic Failure Correlations on the Probabilistic Seismic Safety Assessments of Nuclear Power Plants. Journal of the Earthquake Engineering Society of Korea, 2021, 25, 53-58.	0.2	2
25	Feasibility Study of Seismic Probabilistic Risk Assessment for Multi-unit NPP with Seismic Failure Correlation. Journal of the Computational Structural Engineering Institute of Korea, 2021, 34, 319-325.	0.4	2
26	Seismic Fragility Evaluation of Main Steam Piping of Isolated APR1400 NPP Considering the Actual Failure Mode. Sustainability, 2022, 14, 8315.	3.2	2
27	Flood Damage Assessment in Building Scale Caused by the Coastal Inundation Height at Haeundae Beach, Busan. Journal of Coastal Research, 2018, 85, 1561-1565.	0.3	1
28	Suggestions for Enhancing Sampling-Based Approach of Seismic Probabilistic Risk Assessment. Journal of the Computational Structural Engineering Institute of Korea, 2021, 34, 77-84.	0.4	1
29	Seismic Performance of Piping Systems of Isolated Nuclear Power Plants Determined by Numerical Considerations. Energies, 2021, 14, 4028.	3.1	1
30	Improvement on optimal design of dynamic absorber for enhancing seismic performance of nuclear piping using adaptive Kriging method. Nuclear Engineering and Technology, 2022, 54, 1712-1725.	2.3	1
31	Evaluation of Structural and Functional Behavior of Battery Charger for Low/High-Frequency Motions in NPP. Applied Sciences (Switzerland), 2022, 12, 4328.	2.5	1
32	Formulation and Design of a Pendulum-Type Tuned Mass Damper System for Mitigation Vibration of a Ropeway Carrier. Advanced Science Letters, 2012, 13, 642-645.	0.2	0