

Hwasung Roh

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

714
citations

623188

14
h-index

552369

26
g-index

30
all docs

30
docs citations

30
times ranked

486
citing authors

#	ARTICLE	IF	CITATIONS
1	Tensile behavior of naturally and artificially corroded steel bars. Construction and Building Materials, 2016, 103, 93-104.	3.2	141
2	Hysteretic behavior of precast segmental bridge piers with superelastic shape memory alloy bars. Engineering Structures, 2010, 32, 3394-3403.	2.6	99
3	Modeling and seismic response of structures with concrete rocking columns and viscous dampers. Engineering Structures, 2010, 32, 2096-2107.	2.6	74
4	Nonlinear Static Analysis of Structures with Rocking Columns. Journal of Structural Engineering, 2010, 136, 532-542.	1.7	54
5	Analytical modeling of rocking elements. Engineering Structures, 2009, 31, 1179-1189.	2.6	50
6	Experimental test and seismic performance of partial precast concrete segmental bridge column with cast-in-place base. Engineering Structures, 2015, 100, 178-188.	2.6	33
7	Seismic Performance of Segmental Rocking Columns Connected with NiTi Martensitic SMA Bars. Advances in Structural Engineering, 2015, 18, 571-584.	1.2	26
8	Seismic Response of Adjacent Steel Structures Connected by Passive Device. Advances in Structural Engineering, 2011, 14, 499-517.	1.2	25
9	Effect of yielding level and post-yielding stiffness ratio of ED bars on seismic performance of PT rocking bridge piers. Engineering Structures, 2014, 81, 454-463.	2.6	22
10	Modeling and cyclic behavior of segmental bridge column connected with shape memory alloy bars. Earthquake Engineering and Engineering Vibration, 2012, 11, 375-389.	1.1	21
11	Power spread plasticity model for inelastic analysis of reinforced concrete structures. Engineering Structures, 2012, 39, 148-161.	2.6	21
12	Experimental test and modeling of hollow-core composite insulators. Nonlinear Dynamics, 2012, 69, 1651-1663.	2.7	20
13	New lumped-mass-stick model based on modal characteristics of structures: development and application to a nuclear containment building. Earthquake Engineering and Engineering Vibration, 2013, 12, 307-317.	1.1	16
14	Simplified model and seismic response of integrated nuclear containment system based on frequency adaptive lumped-mass stick modeling approach. KSCE Journal of Civil Engineering, 2015, 19, 1757-1766.	0.9	14
15	Shear strength of reinforced concrete columns with five-spiral reinforcement. Engineering Structures, 2021, 233, 111929.	2.6	14
16	Seismic Performance of Concrete Columns with Innovative Seven- and Eleven-Spiral Reinforcement. ACI Structural Journal, 2015, 112, .	0.3	13
17	Spectral and fragility evaluations of retrofitted structures through strength reduction and enhanced damping. Earthquake Engineering and Engineering Vibration, 2009, 8, 115-125.	1.1	12
18	Seismic Fragility Evaluation of RC Frame Structures Retrofitted with Controlled Concrete Rocking Column and Damping Technique. Journal of Earthquake Engineering, 2011, 15, 1069-1082.	1.4	12

#	ARTICLE	IF	CITATIONS
19	Cyclic behavior of squat reinforced concrete walls with openings typical of exterior walls of row houses in Taiwan. <i>Engineering Structures</i> , 2019, 195, 231-242.	2.6	10
20	Seismic Performance Evaluation of High Voltage Transformer Bushings. , 2010, , .		6
21	Unified Space-Time Finite Element Methods for Dissipative Continua Dynamics. <i>International Journal of Applied Mechanics</i> , 2017, 09, 1750019.	1.3	6
22	Seismic Performance of Industrial Sheds and Liquefaction Effects During May 2012 Emilia Earthquakes Sequence in Northern Italy. <i>Journal of Earthquake and Tsunami</i> , 2014, 08, 1450009.	0.7	5
23	Comparative study of integral abutment bridge structural analysis methods. <i>Canadian Journal of Civil Engineering</i> , 2016, 43, 378-389.	0.7	5
24	Interlaminar shear capacity of thermally damaged GFRP bars under alkaline concrete environment. <i>Construction and Building Materials</i> , 2017, 152, 105-114.	3.2	5
25	Development of basic technique to improve seismic response accuracy of tributary area-based lumped-mass stick models. <i>Earthquake Engineering and Engineering Vibration</i> , 2019, 18, 113-127.	1.1	5
26	Experimental Fatigue Evaluation of Prestressed Concrete-Filled Steel Tube I-Shaped Bridge Girders. <i>Advances in Structural Engineering</i> , 2013, 16, 867-876.	1.2	3
27	Experimental Investigation of the Effects of Concrete Alkalinity on Tensile Properties of Preheated Structural GFRP Rebar. <i>Advances in Materials Science and Engineering</i> , 2017, 2017, 1-13.	1.0	2
28	Load Carrying Capacity Evaluation of Single Span Bridge using Impact Factor Response Spectrum. <i>Journal of the Korea Academia-Industrial Cooperation Society</i> , 2016, 17, 730-736.	0.0	0
29	Development of Impact Factor Response Spectrum based on Frequency Response of Both Ends-Fixed Beam for Application to Continuous Bridges. <i>Journal of the Korea Academia-Industrial Cooperation Society</i> , 2016, 17, 301-306.	0.0	0
30	Comparison of Seismic Responses of Updated Lumped-Mass Stick Model and Shaking Table Test Results. <i>Journal of the Earthquake Engineering Society of Korea</i> , 2019, 23, 231-238.	0.1	0