Moochul Shin

List of Publications by Year
in descending order

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19 papers	519 citations	759233 12 h-index	839539 18 g-index
20 all docs	20 docs citations	20 times ranked	339 citing authors

#	Article	IF	Citations
1	Experimental investigation of actively confined concrete using shape memory alloys. Engineering Structures, 2010, 32, 656-664.	5.3	131
2	Active Confinement of Reinforced Concrete Bridge Columns Using Shape Memory Alloys. Journal of Bridge Engineering, 2010, 15, 81-89.	2.9	123
3	Lateral Cyclic Behavior of Reinforced Concrete Columns Retrofitted with Shape Memory Spirals and FRP Wraps. Journal of Structural Engineering, 2011, 137, 1282-1290.	3.4	66
4	Experimental study of non-circular concrete elements actively confined with shape memory alloy wires. Construction and Building Materials, 2014, 61, 303-311.	7.2	32
5	Influence of coarse aggregate angularity on the mechanical performance of cement-based materials. Construction and Building Materials, 2019, 204, 184-192.	7.2	24
6	A new interpretation of three-dimensional particle geometry: M-A-V-L. Transportation Geotechnics, 2020, 23, 100328.	4.5	21
7	Structural performances of an eco-friendly prestressed concrete sleeper. Construction and Building Materials, 2016, 102, 445-454.	7.2	18
8	A model for estimating horizontal aftershock ground motions for active crustal regions. Soil Dynamics and Earthquake Engineering, 2017, 92, 165-175.	3.8	18
9	Finite element modeling and validation of the fastening systems and concrete sleepers used in North America. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2014, 228, 590-602.	2.0	17
10	Parametric study on damage and load demand of prestressed concrete crosstie and fastening systems. Engineering Failure Analysis, 2014, 46, 49-61.	4.0	16
11	Effects of frequency contents of aftershock ground motions on reinforced concrete (RC) bridge columns. Soil Dynamics and Earthquake Engineering, 2017, 97, 48-59.	3.8	16
12	Parametric Study of RC Bridge Columns Actively Confined with Shape Memory Alloy Spirals under Lateral Cyclic Loading. Journal of Bridge Engineering, 2014, 19, .	2.9	13
13	A Numerical Study on Structural Performance of Railway Sleepers Using Ultra High-Performance Concrete (UHPC). Materials, 2021, 14, 2979.	2.9	6
14	Experimental study on transfer length of an eco-friendly prestressed concrete sleeper. Construction and Building Materials, 2016, 109, 25-33.	7.2	5
15	Field Tests on Eco-Friendly Railway Precast Concrete Slab. Applied Sciences (Switzerland), 2020, 10, 4140.	2.5	4
16	Interrelation of morphological indices and 2-D generalized regularity for coarse aggregate in cement-based materials. Construction and Building Materials, 2020, 251, 118984.	7.2	4
17	Characterization of variability in 2-dimensional particle geometry via 3D structured light scanning. Transportation Geotechnics, 2022, 34, 100760.	4.5	2
18	Phenotypic trait of particle geometries. Granular Matter, 2022, 24, .	2.2	2

#	Article	IF	Citations
19	Numerical Evaluation of Splitting Performance of Prestressed Concrete Prisms With Larger Diameter Prestressing Wires. , 2019, , .		1