

Ray Kai Leung Su

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

307
citations

759233

12
h-index

839539

18
g-index

22
all docs

22
docs citations

22
times ranked

139
citing authors

#	ARTICLE	IF	CITATIONS
1	A double-cylinder model incorporating confinement effects for the analysis of corrosion-caused cover cracking in reinforced concrete structures. <i>Corrosion Science</i> , 2015, 99, 205-218.	6.6	43
2	Corrosion rate measurement by using polarization resistance method for microcell and macrocell corrosion: Theoretical analysis and experimental work with simulated concrete pore solution. <i>Construction and Building Materials</i> , 2021, 267, 121003.	7.2	39
3	Concrete cover delamination model for non-uniform corrosion of reinforcements. <i>Construction and Building Materials</i> , 2019, 223, 329-340.	7.2	24
4	Development of seismic fragility curves for low-rise masonry infilled reinforced concrete buildings by a coefficient-based method. <i>Earthquake Engineering and Engineering Vibration</i> , 2013, 12, 319-332.	2.3	19
5	A novel elastic-body-rotation model for concrete cover spalling caused by non-uniform corrosion of reinforcement. <i>Construction and Building Materials</i> , 2019, 213, 549-560.	7.2	17
6	A displacement-based inverse analysis method to estimate in-situ Young's modulus of steel rust in reinforced concrete. <i>Engineering Fracture Mechanics</i> , 2018, 192, 114-128.	4.3	16
7	Influence of rebar geometry on the steel-concrete interface of reinforced concrete. <i>Construction and Building Materials</i> , 2021, 304, 124668.	7.2	16
8	Assessment of vibrations induced in factories by automated guided vehicles. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2013, 166, 182-196.	0.8	15
9	Corner cracking model for non-uniform corrosion-caused deterioration of concrete covers. <i>Construction and Building Materials</i> , 2020, 234, 117410.	7.2	15
10	Framework to optimise two-dimensional DIC measurements at different orders of accuracy for concrete structures. <i>Structures</i> , 2020, 28, 93-105.	3.6	15
11	A Wasserstein distance-based analogous method to predict distribution of non-uniform corrosion on reinforcements in concrete. <i>Construction and Building Materials</i> , 2019, 226, 965-975.	7.2	13
12	Effect of high rebar temperature during casting on corrosion in carbonated concrete. <i>Construction and Building Materials</i> , 2020, 249, 118718.	7.2	13
13	Fragility analysis of low-rise masonry infilled reinforced concrete buildings by a coefficient-based spectral acceleration method. <i>Earthquake Engineering and Structural Dynamics</i> , 2012, 41, 697-713.	4.4	11
14	A study on AGV-induced floor micro-vibration in TFT-LCD high-technology fabs. <i>Structural Control and Health Monitoring</i> , 2012, 19, 451-471.	4.0	10
15	In-situ deformation modulus of rust in concrete under different levels of confinement and rates of corrosion. <i>Construction and Building Materials</i> , 2020, 255, 119369.	7.2	10
16	Concrete cover tensile capacity of corroded reinforced concrete. <i>Construction and Building Materials</i> , 2017, 136, 57-64.	7.2	9
17	Experimental investigation of the process of corrosion-caused cover cracking. <i>Construction and Building Materials</i> , 2020, 253, 119166.	7.2	7
18	Quantification of the actual expansion and deposition of rust in reinforced concrete. <i>Construction and Building Materials</i> , 2021, 297, 123760.	7.2	7

#	ARTICLE	IF	CITATIONS
19	Experimental investigation of process of corrosion-induced cover delamination using digital image correlation. Construction and Building Materials, 2021, 312, 125287.	7.2	6
20	Fragility analysis of floor micro vibrations induced by internal vehicles in high technology factories. Structures, 2022, 40, 679-692.	3.6	2
21	Improved one-phase model of uniform corrosion for predicting the volume of rust. Magazine of Concrete Research, 2020, 72, 1081-1088.	2.0	0
22	Experimental study of corrosion-caused corner cracking using digital image correlation. Materials and Structures/Materiaux Et Constructions, 2022, 55, .	3.1	0