

Punyawut Jiradilok

List of Publications by Year in descending order

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14
papers

197
citations

1163117
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14
docs citations

14
times ranked

82
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of discrete meso-scale bond model for corrosion damage at steel-concrete interface based on tests with/without concrete damage. Construction and Building Materials, 2020, 236, 117615.	7.2	38
2	Expansive cracking and compressive failure simulations of ASR and DEF damaged concrete using a mesoscale discrete model. Cement and Concrete Composites, 2019, 104, 103404.	10.7	30
3	Mesoscale simulation of pull-out performance for corroded reinforcement with stirrup confinement in concrete by 3D RBSM. Cement and Concrete Composites, 2021, 116, 103895.	10.7	20
4	A mesoscale discrete model for mechanical performance of concrete damaged by coupled ASR and DEF. Engineering Fracture Mechanics, 2020, 232, 107055.	4.3	19
5	Analytical investigation of the role of reinforcement in perpendicular beams of beam-column knee joints by 3D meso-scale model. Engineering Structures, 2020, 210, 110347.	5.3	16
6	Estimation of internal corrosion degree from observed surface cracking of concrete using mesoscale simulation with Model Predictive Control. Computer-Aided Civil and Infrastructure Engineering, 2021, 36, 544-559.	9.8	15
7	Direct observation of the local bond behavior between corroded reinforcing bars and concrete using digital image correlation. Cement and Concrete Composites, 2021, 123, 104180.	10.7	13
8	Investigation of the effects of multiple and multi-directional reinforcement on corrosion-induced concrete cracking pattern. Construction and Building Materials, 2021, 283, 122594.	7.2	12
9	Estimating corrosion levels along confined steel bars in concrete using surface crack measurements and mesoscale simulations guided by model predictive control. Cement and Concrete Composites, 2021, 124, 104233.	10.7	8
10	Investigating the effect of rebar corrosion order and arrangement on cracking behaviour of RC panels using 3D discrete analysis. Construction and Building Materials, 2022, 325, 126730.	7.2	8
11	3D mesoscale simulation of the influence of corrosion on loss of tension stiffening in reinforced concrete. Construction and Building Materials, 2022, 339, 127684.	7.2	7
12	Evaluation of crack-bridging strength degradation in SFRC structural beams under flexural fatigue. Composite Structures, 2020, 244, 112267.	5.8	6
13	Discrete mesoscale analysis of adhesive anchors under tensile load taking into account post-installed reinforcement. Construction and Building Materials, 2020, 262, 120778.	7.2	4
14	Analysis of Seismic Performance of Suspension Bridge in Myanmar. Journal of Disaster Research, 2020, 15, 360-367.	0.7	1