Ricardo do Carmo

List of Publications by Year
in descending order

41	626	623188	642321
papers	citations	14 h-index	23 g-index

43	43	43	362
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interface role in composite RC beams with a light-weight concrete core and an ultra high-durability concrete skin. Engineering Structures, 2021, 228, 111524.	2.6	7
2	Experimental development of low cement content and recycled construction and demolition waste aggregates concrete. Construction and Building Materials, 2021, 273, 121680.	3.2	49
3	Efficiency of cement content and of compactness on mechanical performance of low cement concrete designed with packing optimization. Construction and Building Materials, 2021, 266, 121077.	3.2	21
4	Influence of Nano-SiO₂, Nano-Al₂O₃, and Nano-ZnO Additions on Cementitious Matrixes with Different Powder and Steel Fibers Content. Journal of Advanced Concrete Technology, 2021, 19, 40-52.	0.8	5
5	A solution with low-cement-lightweight concrete and high durability for applications in prefabrication. Construction and Building Materials, 2021, 275, 122153.	3.2	10
6	Enhanced Mechanical and Durability Performances of Low Cement Concrete with Natural Pozzolan Addition. Journal of Advanced Concrete Technology, 2021, 19, 519-535.	0.8	10
7	Influence of Pozzolan, Slag and Recycled Aggregates on the Mechanical and Durability Properties of Low Cement Concrete. Materials, 2021, 14, 4173.	1.3	9
8	Design and Durability Assessment of Restoring Mortar for Concrete Heritage. Materials, 2021, 14, 4508.	1.3	6
9	Experimental study on the interface between low cement recycled aggregates concrete and ultra-high durability concrete. Construction and Building Materials, 2021, 304, 124603.	3.2	10
10	Load bearing capacity of connections between innovative pre-walls designed to have high durability and eco-efficiency. Journal of Building Engineering, 2021, 44, 103356.	1.6	3
11	Durability of mortar matrices of low-cement concrete with specific additions. Construction and Building Materials, 2021, 309, 125060.	3.2	11
12	Environmental Impacts and Benefits of the End-of-Life of Building Materials: Database to Support Decision Making and Contribute to Circularity. Sustainability, 2021, 13, 12659.	1.6	6
13	Evaluation of the shear transfer mechanisms in reinforced concrete beams using photogrammetry. Structural Concrete, 2020, 21, 333-348.	1.5	5
14	Flexural behavior of eco-efficient and ultra-high durability concrete beams. Construction and Building Materials, 2020, 236, 117546.	3.2	11
15	Durability and Time-Dependent Properties of Low-Cement Concrete. Materials, 2020, 13, 3583.	1.3	19
16	Assessment of plastic rotation and applied load in reinforced concrete, steel and timber beams using image-based analysis. Engineering Structures, 2019, 198, 109519.	2.6	4
17	Influence of normal stress and reinforcement ratio on the behavior of LWAC interfaces. Construction and Building Materials, 2018, 192, 317-329.	3.2	12
18	Influence of lightweight aggregates concrete on the bond strength of concrete-to-concrete interfaces. Construction and Building Materials, 2018, 180, 519-530.	3.2	35

#	Article	IF	Citations
19	Method for assessing beam column joints in RC structures using photogrammetric computer vision. Structural Control and Health Monitoring, 2017, 24, e2013.	1.9	14
20	Experimental evaluation of lightweight aggregate concrete beamâ€“column joints with different strengths and reinforcement ratios. Structural Concrete, 2017, 18, 950-961.	1.5	10
21	Influence of nanoparticles additions on the bond between steel fibres and the binding paste. Construction and Building Materials, 2017, 151, 312-318.	3.2	5
22	Numerical modeling of concrete beams under serviceability conditions with a discrete crack approach and noniterative solutionâ€finding algorithms. Structural Concrete, 2017, 18, 225-236.	1.5	4
23	New Trends for Reinforced Concrete Structures: Some Results of Exploratory Studies. Infrastructures, 2017, 2, 17.	1.4	2
24	Influence of nano-SiO2 and nano-Al2O3 additions on the shear strength and the bending moment capacity of RC beams. Construction and Building Materials, 2016, 123, 35-46.	3.2	29
25	Experimental study of punching failure in LWAC slabs with different strengths. Materials and Structures/Materiaux Et Constructions, 2016, 49, 2611-2626.	1.3	12
26	Influence of nano-SiO2 and nano-Al2O3 additions on steel-to-concrete bonding. Construction and Building Materials, 2016, 125, 1080-1092.	3.2	55
27	VALIDATION OF A DISCRETE CRACK MODEL FOR LIGHTWEIGHT AGGREGATE CONCRETE BEAMS. , 2016, , .		0
28	Tensile and flexural behaviour of LWAC members under short-term service loads. Engineering Structures, 2015, 92, 142-155.	2.6	6
29	Assessing steel strains on reinforced concrete members from surface cracking patterns. Construction and Building Materials, 2015, 98, 265-275.	3.2	25
30	Experimental Investigation of Bond Stress and Deformations in LWAC Ties Reinforced with GFRP Bars. Strain, 2014, 50, 318-333.	1.4	6
31	Curvature assessment of reinforced concrete beams using photogrammetric techniques. Materials and Structures/Materiaux Et Constructions, 2014, 47, 1745-1760.	1.3	23
32	Stiffness of reinforced concrete slabs subjected to torsion. Materials and Structures/Materiaux Et Constructions, 2014, 47, 227-238.	1.3	11
33	Longitudinal reinforcement ratio in lightweight aggregate concrete beams. Engineering Structures, 2014, 81, 219-229.	2.6	22
34	Influence of both concrete strength and transverse confinement on bending behavior of reinforced LWAC beams. Engineering Structures, 2013, 48, 329-341.	2.6	25
35	Effects of the compressive reinforcement buckling on the ductility of RC beams in bending. Engineering Structures, 2012, 37, 14-23.	2.6	24
36	Bending moments in D-regions of reinforced concrete beams. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2011, 164, 239-254.	0.4	4

#	Article	IF	Citations
37	Available plastic rotation in continuous high-strength concrete beams. Canadian Journal of Civil Engineering, 2008, 35, 1152-1162.	0.7	26
38	Required plastic rotation of RC beams. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2006, 159, 77-86.	0.4	15
39	Deformable strut and tie model for the calculation of the plastic rotation capacity. Computers and Structures, 2006, 84, 2174-2183.	2.4	23
40	Influence of the shear force and transverse reinforcement ratio on plastic rotation capacity. Structural Concrete, 2005, 6, 107-117.	1.5	7
41	Ductility and linear analysis with moment redistribution in reinforced high-strength concrete beams. Canadian Journal of Civil Engineering, 2005, 32, 194-203.	0.7	45