

Carlos Chastre

List of Publications by Year in descending order

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81
papers

2,451
citations

159585

30
h-index

223800

46
g-index

82
all docs

82
docs citations

82
times ranked

1440
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigation on the variability of the main mechanical properties of concrete produced with coarse recycled concrete aggregates. <i>Construction and Building Materials</i> , 2019, 201, 110-120.	7.2	160
2	Experimental and numerical modeling of basalt textile reinforced mortar behavior under uniaxial tensile stress. <i>Materials & Design</i> , 2014, 55, 66-74.	5.1	144
3	Monotonic axial behavior and modelling of RC circular columns confined with CFRP. <i>Engineering Structures</i> , 2010, 32, 2268-2277.	5.3	120
4	Size and Relative Stiffness Effects on Compressive Failure of Concrete Columns Wrapped with Glass FRP. <i>Journal of Materials in Civil Engineering</i> , 2006, 18, 334-342.	2.9	99
5	Carbonation service life modelling of RC structures for concrete with Portland and blended cements. <i>Cement and Concrete Composites</i> , 2013, 37, 171-184.	10.7	84
6	Linear and nonlinear analysis of bond-slip models for interfaces between FRP composites and concrete. <i>Composites Part B: Engineering</i> , 2013, 45, 1554-1568.	12.0	84
7	Non-linear analytical model of composites based on basalt textile reinforced mortar under uniaxial tension. <i>Composites Part B: Engineering</i> , 2013, 55, 518-527.	12.0	65
8	Bond-slip model for FRP-to-concrete bonded joints under external compression. <i>Composites Part B: Engineering</i> , 2015, 80, 246-259.	12.0	63
9	Modelling the compressive mechanical behaviour of granite and sandstone historical building stones. <i>Construction and Building Materials</i> , 2012, 28, 372-381.	7.2	60
10	Nonlinear numerical analysis of the debonding failure process of FRP-to-concrete interfaces. <i>Composites Part B: Engineering</i> , 2013, 50, 210-223.	12.0	60
11	Bond characteristics of CFRP-to-steel joints. <i>Journal of Constructional Steel Research</i> , 2017, 138, 401-419.	3.9	60
12	Experimental Evaluation of Bonding between CFRP Laminates and Different Structural Materials. <i>Journal of Composites for Construction</i> , 2016, 20, .	3.2	56
13	Design model for square RC columns under compression confined with CFRP. <i>Composites Part B: Engineering</i> , 2014, 57, 187-198.	12.0	55
14	Development of an injectable grout for concrete repair and strengthening. <i>Cement and Concrete Composites</i> , 2013, 37, 185-195.	10.7	54
15	Prediction of the interfacial performance of CFRP laminates and old timber bonded joints with different strengthening techniques. <i>Composites Part B: Engineering</i> , 2017, 108, 1-17.	12.0	46
16	An experimental study of GFRP-to-concrete interfaces submitted to humidity cycles. <i>Composite Structures</i> , 2014, 110, 354-368.	5.8	45
17	Effect of salt crystallization ageing on the compressive behavior of sandstone blocks in historical buildings. <i>Engineering Failure Analysis</i> , 2012, 26, 247-257.	4.0	44
18	CFRP-to-steel bonded joints subjected to cyclic loading: An experimental study. <i>Composites Part B: Engineering</i> , 2018, 146, 28-41.	12.0	42

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19	Numerical modelling of the effects of elevated service temperatures on the debonding process of FRP-to-concrete bonded joints. <i>Composites Part B: Engineering</i> , 2015, 70, 64-79.	12.0	41
20	A nonlinear analytical model to predict the full-range debonding process of FRP-to-parent material interfaces free of any mechanical anchorage devices. <i>Composite Structures</i> , 2016, 138, 52-63.	5.8	41
21	Analysis of the debonding process of CFRP-to-timber interfaces. <i>Construction and Building Materials</i> , 2016, 113, 96-112.	7.2	41
22	Bond durability of CFRP laminates-to-steel joints subjected to freeze-thaw. <i>Composite Structures</i> , 2019, 212, 243-258.	5.8	39
23	Double shear tests to evaluate the bond strength between GFRP/concrete elements. <i>Composite Structures</i> , 2012, 94, 681-694.	5.8	38
24	Probabilistic Conversion of the Compressive Strength of Cubes to Cylinders of Natural and Recycled Aggregate Concrete Specimens. <i>Materials</i> , 2019, 12, 280.	2.9	35
25	Prediction of shear behavior of steel fiber-reinforced rubberized concrete beams reinforced with glass fiber-reinforced polymer (GFRP) bars. <i>Composite Structures</i> , 2021, 256, 113010.	5.8	35
26	Factors influencing the performance of externally bonded reinforcement systems of GFRP-to-concrete interfaces. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015, 48, 2961-2981.	3.1	34
27	A new discrete method to model unidirectional FRP-to-parent material bonded joints subjected to mechanical loads. <i>Composite Structures</i> , 2015, 121, 280-295.	5.8	33
28	Theoretical analysis of fracture in double overlap bonded joints with FRP composites and thin steel plates. <i>Engineering Fracture Mechanics</i> , 2018, 190, 435-460.	4.3	33
29	Mechanical response of anchored FRP bonded joints: A nonlinear analytical approach. <i>Mechanics of Advanced Materials and Structures</i> , 2018, 25, 238-252.	2.6	33
30	Flexural Strengthening of Old Timber Floors with Laminated Carbon Fiber-Reinforced Polymers. <i>Journal of Composites for Construction</i> , 2017, 21, .	3.2	32
31	Modelling GFRP-to-concrete joints with interface finite elements with rupture based on the Mohr-Coulomb criterion. <i>Construction and Building Materials</i> , 2013, 47, 261-273.	7.2	31
32	Design method and verification of steel plate anchorages for FRP-to-concrete bonded interfaces. <i>Composite Structures</i> , 2018, 192, 52-66.	5.8	31
33	Numerical analysis of FRP anchorage zones with variable width. <i>Composites Part B: Engineering</i> , 2014, 67, 410-426.	12.0	29
34	Delamination process analysis of FRP-to-parent material bonded joints with and without anchorage systems using the Distinct Element Method. <i>Composite Structures</i> , 2014, 116, 104-119.	5.8	28
35	Uncertainty Models of Reinforced Concrete Beams in Bending: Code Comparison and Recycled Aggregate Incorporation. <i>Journal of Structural Engineering</i> , 2019, 145, .	3.4	28
36	Monotonic and quasi-static cyclic bond response of CFRP-to-steel joints after salt fog exposure. <i>Composites Part B: Engineering</i> , 2019, 168, 532-549.	12.0	28

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37	Uncertainty of shear resistance models: Influence of recycled concrete aggregate on beams with and without shear reinforcement. <i>Engineering Structures</i> , 2020, 204, 109905.	5.3	27
38	Analytical model with uncoupled adhesion laws for the bond failure prediction of curved FRP-concrete joints subjected to temperature. <i>Theoretical and Applied Fracture Mechanics</i> , 2017, 89, 63-78.	4.7	26
39	Assessing the behaviour of RC beams subject to significant gravity loads under cyclic loads. <i>Engineering Structures</i> , 2014, 59, 512-521.	5.3	22
40	Determination of weathering degree of the Persepolis stone under laboratory and natural conditions using fuzzy inference system. <i>Construction and Building Materials</i> , 2017, 145, 28-41.	7.2	22
41	Stainless Steel Bonded to Concrete: An Experimental Assessment using the DIC Technique. <i>International Journal of Concrete Structures and Materials</i> , 2018, 12, .	3.2	22
42	A smeared crack analysis of reinforced concrete T-beams strengthened with GFRP composites. <i>Engineering Structures</i> , 2013, 56, 1346-1361.	5.3	21
43	Effect of consolidation treatments on mechanical behaviour of sandstone. <i>Construction and Building Materials</i> , 2014, 70, 473-482.	7.2	19
44	Analysis of load-strain models for RC square columns confined with CFRP. <i>Composites Part B: Engineering</i> , 2015, 74, 23-41.	12.0	19
45	Experimental and numerical analyses of flexurally-strengthened concrete T-beams with stainless steel. <i>Engineering Structures</i> , 2018, 172, 981-996.	5.3	18
46	Performance analysis of load-strain models for circular columns confined with FRP composites. <i>Composite Structures</i> , 2012, 94, 3115-3131.	5.8	16
47	In-Plane Displacement and Strain Image Analysis. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2016, 31, 292-304.	9.8	16
48	Effect of mechanical anchorage on the bond performance of double overlapped CFRP-to-steel joints. <i>Composite Structures</i> , 2021, 267, 113902.	5.8	16
49	Application of fuzzy inference system for determining weathering degree of some monument stones in Iran. <i>Journal of Cultural Heritage</i> , 2017, 25, 41-55.	3.3	14
50	Bond of recycled coarse aggregate concrete: Model uncertainty and reliability-based calibration of design equations. <i>Engineering Structures</i> , 2021, 239, 112290.	5.3	14
51	Nondestructive testing methodology to assess the conservation of historic stone buildings and monuments. , 2018, , 255-294.		13
52	Development of a simple bond-slip model for joints monitored with the DIC technique. <i>Archives of Civil and Mechanical Engineering</i> , 2018, 18, 1535-1546.	3.8	13
53	Flexural Strengthening of Columns with CFRP Composites and Stainless Steel: Cyclic Behavior. <i>Journal of Structural Engineering</i> , 2016, 142, .	3.4	12
54	Estimations of the debonding process of aged joints through a new analytical method. <i>Composite Structures</i> , 2019, 211, 577-595.	5.8	12

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55	Lateral Cyclic Behaviour of RC Columns Confined With Carbon Fibres. Structures, 2016, 5, 196-206.	3.6	11
56	Influence of External Compressive Stresses on the Performance of GFRP-to-Concrete Interfaces Subjected to Aggressive Environments: An Experimental Analysis. Journal of Composites for Construction, 2016, 20, .	3.2	11
57	Characterisation of unidirectional fibre reinforced grout as a strengthening material for RC structures. Construction and Building Materials, 2017, 137, 272-287.	7.2	11
58	Strengthening RC Beams Using Stainless Steel Continuous Reinforcement Embedded at Ends. Journal of Structural Engineering, 2020, 146, .	3.4	11
59	Compression behaviour of short columns made from cement-bonded particle board. Construction and Building Materials, 2013, 40, 60-69.	7.2	10
60	A Simple Method for the Determination of the Bond-Slip Model of Artificially Aged Joints. Journal of Composites for Construction, 2019, 23, 04019028.	3.2	10
61	Scatter of Constitutive Models of the Mechanical Properties of Concrete: Comparison of Major International Codes. Journal of Advanced Concrete Technology, 2019, 17, 102-125.	1.8	10
62	Lifetime modelling of chloride-induced corrosion in concrete structures with Portland and blended cements. Structure and Infrastructure Engineering, 2016, 12, 1013-1023.	3.7	9
63	Thermal wear of epoxy composite modified with rutile titanium dioxide. Composite Structures, 2022, 282, 115127.	5.8	9
64	Statistical analysis of Portuguese ready-mixed concrete production. Construction and Building Materials, 2019, 209, 283-294.	7.2	8
65	Characterization and correlation of engineering properties of basalts. Bulletin of Engineering Geology and the Environment, 2021, 80, 2889-2910.	3.5	8
66	Eurocode Shear Design of Coarse Recycled Aggregate Concrete: Reliability Analysis and Partial Factor Calibration. Materials, 2021, 14, 4081.	2.9	8
67	Effect of artificial accelerated salt weathering on physical and mechanical behavior of sandstone samples from surface reservoirs. , 2016, , 215-233.		7
68	Damage Effect on Concrete Columns Confined with Carbon Composites. ACI Structural Journal, 2016, 113, .	0.2	7
69	Gravity load effects on the behaviour of reinforced concrete beam critical zones subjected to cyclic loads. Engineering Structures, 2019, 181, 503-518.	5.3	6
70	Numerical study on the flexural behaviour of normal- and high-strength concrete beams reinforced with GFRP bar, using different amounts of transverse reinforcement. Structures, 2021, 34, 3113-3124.	3.6	6
71	Consideration of Critical Parameters for Improving the Efficiency of Concrete Structures Reinforced with FRP. Materials, 2022, 15, 2774.	2.9	6
72	A Finite Element Based Analysis of Double Strap Bonded Joints with CFRP and Aluminium. Key Engineering Materials, 0, 754, 237-240.	0.4	5

#	ARTICLE	IF	CITATIONS
73	Cyclic performance of adhesively bonded joints using the Distinct Element Method: Damage and parametric analysis. Composites Part B: Engineering, 2019, 178, 107468.	12.0	5
74	Low-grade RC beams strengthened with TRM composite based on basalt, carbon and steel textiles: Experimental and analytical study. Case Studies in Construction Materials, 2022, 16, e00906.	1.7	4
75	Old Suspended Timber Floors Flexurally-Strengthened with Different Structural Materials. Key Engineering Materials, 0, 713, 78-81.	0.4	3
76	A Simple Analytical Approach for Creep Analysis of EB-FRP Systems. Key Engineering Materials, 2018, 774, 42-47.	0.4	3
77	Prediction of Stress-Strain Curves Based on Hydric Non-Destructive Tests on Sandstones. Materials, 2019, 12, 3366.	2.9	3
78	CYCLIC COMPRESSION BEHAVIOUR OF POLYMER CONCRETE. Journal of Polymer Engineering, 2007, 27, .	1.4	2
79	Consolidation works on sandstone monuments: A new approach. , 2018, , 235-254.		2
80	Cyclic Loading Behaviour of Double Strap Bonded Joints with CFRP and Aluminium. Key Engineering Materials, 0, 774, 36-41.	0.4	1
81	Influence of Temperature Cycles on Bond between Glass Fiber-Reinforced Polymer and Concrete. ACI Structural Journal, 2013, 110, .	0.2	1