JosÃ© Sena-Cruz

List of Publications by Year
in descending order

85	2,529	172457	206112
papers	citations	29 h-index	48 g-index

88	88	88	1710
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pullout Behavior of Steel Fibers in Self-Compacting Concrete. Journal of Materials in Civil Engineering, 2010, 22, 1-9.	2.9	163
2	Bond Between Near-Surface Mounted Carbon-Fiber-Reinforced Polymer Laminate Strips and Concrete. Journal of Composites for Construction, 2004, 8, 519-527.	3.2	147
3	Experimental study on bond performance of GFRP bars in self-compacting steel fiber reinforced concrete. Composite Structures, 2013, 95, 202-212.	5.8	117
4	A finite element model with discrete embedded elements for fibre reinforced composites. Computers and Structures, 2012, 94-95, 22-33.	4.4	103
5	Structural Strengthening with Prestressed CFRP Strips with Gradient Anchorage. Journal of Composites for Construction, 2013, 17, 651-661.	3.2	99
6	An integrated approach for modelling the tensile behaviour of steel fibre reinforced self-compacting concrete. Cement and Concrete Research, 2011, 41, 64-76.	11.0	97
7	Modeling of bond between near-surface mounted CFRP laminate strips and concrete. Computers and Structures, 2004, 82, 1513-1521.	4.4	92
8	Near surface mounted CFRP strips for the flexural strengthening of RC columns: Experimental and numerical research. Engineering Structures, 2008, 30, 3412-3425.	5.3	89
9	A review on the bond behavior of FRP NSM systems in concrete. Construction and Building Materials, 2015, 93, 1157-1169.	7.2	86
10	Efficiency of different techniques in flexural strengthening of RC beams under monotonic and fatigue loading. Construction and Building Materials, 2012, 29, 175-182.	7.2	82
11	Bond Behavior of Near-Surface Mounted CFRP Laminate Strips under Monotonic and Cyclic Loading. Journal of Composites for Construction, 2006, 10, 295-303.	3.2	81
12	Effects of different environmental conditions on the mechanical characteristics of a structural epoxy. Composites Part B: Engineering, 2016, 88, 55-63.	12.0	68
13	Review on the bond behavior and durability of FRP bars to concrete. Construction and Building Materials, 2021, 287, 123042.	7.2	58
14	Mechanical performance of cold-curing epoxy adhesives after different mixing and curing procedures. Composites Part B: Engineering, 2016, 98, 434-443.	12.0	55
15	Retrofitting of interior RC beamâ€“column joints using CFRP strengthened SHCC: Cast-in-place solution. Composite Structures, 2015, 122, 456-467.	5.8	51
16	Back analysis of geomechanical parameters in underground works using an Evolution Strategy algorithm. Tunnelling and Underground Space Technology, 2013, 33, 143-158.	6.2	46
17	Development of a pedestrian bridge with GFRP profiles and fiber reinforced self-compacting concrete deck. Composite Structures, 2011, 93, 2969-2982.	5.8	45
18	Flexural behaviour of RC slabs strengthened with prestressed CFRP strips using different anchorage systems. Composites Part B: Engineering, 2015, 81, 158-170.	12.0	43

#	Article	IF	Citations
19	Influence of temperature on the curing of an epoxy adhesive and its influence on bond behaviour of NSM-CFRP systems. Composites Part B: Engineering, 2016, 89, 219-229.	12.0	43
20	Hybrid effect and pseudo-ductile behaviour of unidirectional interlayer hybrid FRP composites for civil engineering applications. Construction and Building Materials, 2018, 171, 871-890.	7.2	43
21	Bond and flexural behavior of concrete elements strengthened with NSM CFRP laminate strips under fatigue loading. Engineering Structures, 2015, 84, 350-361.	5.3	41
22	Testing mechanical performance of adhesively bonded composite joints in engineering applications: an overview. Journal of Adhesion, 2022, 98, 2133-2209.	3.0	40
23	Durability of RC slabs strengthened with prestressed CFRP laminate strips under different environmental and loading conditions. Composites Part B: Engineering, 2017, 125, 71-88.	12.0	39
24	Static, dynamic and creep behaviour of a full-scale GFRP-SFRSCC hybrid footbridge. Composite Structures, 2014, 118, 496-509.	5.8	38
25	Integrating geomatic approaches, Operational Modal Analysis, advanced numerical and updating methods to evaluate the current safety conditions of the historical BÃ´co Bridge. Construction and Building Materials, 2018, 158, 961-984.	7.2	37
26	Effect of wet-dry cycles on the bond behaviour of concrete elements strengthened with NSM CFRP laminate strips. Composite Structures, 2015, 132, 331-340.	5.8	36
27	Numerical calibration of bond law for GFRP bars embedded in steel fibre-reinforced self-compacting concrete. Composites Part B: Engineering, 2013, 50, 403-412.	12.0	32
28	Assessment of the efficiency of prefabricated hybrid composite plates (HCPs) for retrofitting of damaged interior RC beamâ€“column joints. Composite Structures, 2015, 119, 24-37.	5.8	32
29	Deflection and cracking behavior of SFRSCC beams reinforced with hybrid prestressed GFRP and steel reinforcements. Engineering Structures, 2016, 125, 546-565.	5.3	31
30	Viscoelastic response of an epoxy adhesive for construction since its early ages: Experiments and modelling. Composites Part B: Engineering, 2017, 116, 266-277.	12.0	28
31	Durability of bond in NSM CFRP-concrete systems under different environmental conditions. Composites Part B: Engineering, 2018, 138, 19-34.	12.0	28
32	Hybrid FRP jacketing for enhanced confinement of circular concrete columns in compression. Construction and Building Materials, 2018, 184, 681-704.	7.2	28
33	3D finite element model for hybrid FRP-confined concrete in compression using modified CDPM. Engineering Structures, 2019, 190, 459-479.	5.3	26
34	Bond behavior between glulam and GFRPâ€™s by pullout tests. Composites Part B: Engineering, 2012, 43, 1045-1055.	12.0	25
35	Tension-tension fatigue behavior of hybrid glass/carbon and carbon/carbon composites. International Journal of Fatigue, 2021, 146, 106143.	5.7	24
36	Bond between glulam and NSM CFRP laminates. Construction and Building Materials, 2013, 40, 260-269.	7.2	23

#	Article	IF	Citations
37	Modelling the influence of age of steel fibre reinforced self-compacting concrete on its compressive behaviour. Materials and Structures/Materiaux Et Constructions, 2008, 41, 465-478.	3.1	22
38	Using data mining algorithms to predict the bond strength of NSM FRP systems in concrete. Construction and Building Materials, 2016, 126, 484-495.	7.2	21
39	Numerical model for CFRP confined concrete elements subject to monotonic and cyclic loadings. Composites Part B: Engineering, 2009, 40, 766-775.	12.0	20
40	Flexural Strengthening of RC Slabs with Prestressed CFRP Strips Using Different Anchorage Systems. Polymers, 2015, 7, 2100-2118.	4.5	20
41	Flexural behaviour of NSM CFRP laminate strip systems in concrete using stiff and flexible adhesives. Composites Part B: Engineering, 2020, 195, 108042.	12.0	20
42	Tension-stiffening model for FRC reinforced by hybrid FRP and steel bars. Composites Part B: Engineering, 2016, 88, 162-181.	12.0	18
43	Durability of Epoxy Adhesives and Carbon Fibre Reinforced Polymer Laminates Used in Strengthening Systems: Accelerated Ageing versus Natural Ageing. Materials, 2021, 14, 1533.	2.9	18
44	Influence of Surface Preparation Method on the Bond Behavior of Externally Bonded CFRP Reinforcements in Concrete. Materials, 2019, 12, 414.	2.9	17
45	Assessment of GFRP bond behaviour for the design of sustainable reinforced seawater concrete structures. Construction and Building Materials, 2020, 231, 117277.	7.2	16
46	Luiz Bandeira Bridge: Assessment of a Historical Reinforced Concrete (RC) Bridge. International Journal of Architectural Heritage, 2013, 7, 628-652.	3.1	15
47	Experimental and numerical approaches for structural assessment in new footbridge designs (SFRSCCâ€“GFPR hybrid structure). Composite Structures, 2015, 134, 95-105.	5.8	14
48	Monitoring the early stiffness development in epoxy adhesives for structural strengthening. International Journal of Adhesion and Adhesives, 2015, 59, 77-85.	2.9	14
49	Numerical simulation of the flexural behaviour of composite glass-GFRP beams using smeared crack models. Composites Part B: Engineering, 2017, 110, 336-350.	12.0	14
50	Influence of fatigue and aggressive exposure on GFRP girder to SFRSCC deck all-adhesive connection. Composite Structures, 2014, 110, 152-162.	5.8	13
51	Experimental study on the bond behaviour of a transversely compressed mechanical anchorage system for externally bonded reinforcement. Composite Structures, 2018, 200, 217-228.	5.8	13
52	NSM Systems. RILEM State-of-the-Art Reports, 2016, , 303-348.	0.7	13
53	Analytical Bond Model for GFRP Bars to Steel Fiber Reinforced Self-Compacting Concrete. Journal of Composites for Construction, 2013, 17, 04013009.	3.2	12
54	Prestressed FRP Systems. RILEM State-of-the-Art Reports, 2016, , 263-301.	0.7	12

#	Article	IF	Citations
55	Quality control and monitoring of NSM CFRP systems: E-modulus evolution of epoxy adhesive and its relation to the pull-out force. Composites Part B: Engineering, 2015, 75, 95-103.	12.0	11
56	Bond-Slip Mechanisms of Hooked-End Steel Fibers in Self-Compacting Concrete. Materials Science Forum, 2008, 587-588, 877-881.	0.3	10
57	Bond behaviour of NSM CFRP laminate strip systems in concrete using stiff and flexible adhesives. Composite Structures, 2020, 245, 112369.	5.8	10
58	Analytical hybrid effect prediction and evolution of the tensile response of unidirectional hybrid fibre-reinforced polymers composites for civil engineering applications. Journal of Composite Materials, 2020, 54, 3205-3228.	2.4	9
59	Designing NSM FRP systems in concrete using partial safety factors. Composites Part B: Engineering, 2018, 139, 12-23.	12.0	8
60	Durability of GFRP-concrete adhesively bonded connections: Experimental and numerical studies. Engineering Structures, 2018, 168, 784-798.	5.3	8
61	Effect of Temperature on Bond Behavior of Externally Bonded FRP Laminates with Mechanical End Anchorage. Journal of Composites for Construction, 2019, 23, .	3.2	8
62	The effect of surface treatment and environmental actions on the adhesive connection between GFRP laminate surface and fresh FRC. Construction and Building Materials, 2020, 258, 119594.	7.2	8
63	Numerical simulation of galvanized rebars pullout. Frattura Ed Integrita Strutturale, 2015, 9, 54-66.	0.9	6
64	Effects of the preparation, curing and hygrothermal conditions on the viscoelastic response of a structural epoxy adhesive. International Journal of Adhesion and Adhesives, 2021, 110, 102961.	2.9	6
65	Bond Behavior between Concrete and Multi-Directional CFRP Laminates Using the MF-EBR Strengthening Technique. Advanced Materials Research, 2012, 452-453, 1110-1115.	0.3	5
66	Influence of service temperature on shear creep behaviour of a rigid low-density closed-cell PIR foam. Construction and Building Materials, 2019, 225, 1052-1063.	7.2	5
67	Activated Ductile CFRP NSMR Strengthening. Materials, 2021, 14, 2821.	2.9	5
68	Flexural Behaviour of Hybrid FRC-GFRP/PUR Sandwich Panels. Lecture Notes in Civil Engineering, 2022, , 2458-2469.	0.4	5
69	Advancements in Retrofitting Reinforced Concrete Structures by the Use of CFRP Materials. Building Pathology and Rehabilitation, 2014, , 259-284.	0.2	3
70	Fracture-based interface model for NSM FRP systems in concrete. Composite Structures, 2016, 152, 816-828.	5.8	3
71	Bond between Concrete and Multi-Directional CFRP Laminates. Advanced Materials Research, 2010, 133-134, 917-922.	0.3	2
72	Seismic Retrofit of RC Beam-Column Joints Using the MF-EBR Strengthening Technique. Advanced Materials Research, 0, 452-453, 1099-1104.	0.3	2

#	Article	IF	Citations
73	Numerical simulation of GFRP-reinforced glass structural elements under monotonic loading. Engineering Structures, 2021, 234, 111968.	5.3	2
74	Flexural Creep Response of Hybrid GFRPâ€“FRC Sandwich Panels. Materials, 2022, 15, 2536.	2.9	2
75	An innovative hybrid GFRP-concrete footbridge structure. , 2015, , .		1
76	On the use minor and non-destructive methods for the safety evaluation of an historic RC bridge: the BÃ´co Bridge. IABSE Symposium Report, 2017, , .	0.0	0
77	Short and long-term behaviour of RC slabs strengthened with prestressed CFRP laminate strips. IABSE Symposium Report, 2017, , .	0.0	0
78	Behaviour of metallic anchorage plates for prestressing CFRP laminates under room and elevated temperatures. IABSE Symposium Report, 2018, , .	0.0	0
79	Behaviour of RC structures strengthened with prestressed CFRP laminates: a numerical study. , 2019, , .		0
80	Behaviour of laminar RC structures subjected to cyclic loading. IABSE Symposium Report, 2019, , .	0.0	0
81	Long-term structural and durability performances of reinforced concrete elements strengthened in flexure with CFRP laminates: a research project. IABSE Symposium Report, 2019, , .	0.0	0
82	A Preliminary Design of a New Lightweight Floor System. Lecture Notes in Civil Engineering, 2022, , 2355-2364.	0.4	0
83	Multi-objective Design Optimization of Sandwich Panel. Lecture Notes in Civil Engineering, 2022, , 2347-2354.	0.4	0
84	Cyclic Behaviour of Unidirectional Hybrid Interlayer Glass/Carbon and Carbon/Carbon Composites. Lecture Notes in Civil Engineering, 2022, , 2435-2445.	0.4	0
85	Influence of the Manufacturing Process on the Tensile Stress-Strain Response of Hybrid Glass/Carbon and Carbon/Carbon Composites. Lecture Notes in Civil Engineering, 2022, , 2423-2434.	0.4	0