

# Hugo Biscaia

## List of Publications by Year in descending order

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72  
papers

2,103  
citations

186265  
28  
h-index

254184  
43  
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72  
all docs

72  
docs citations

72  
times ranked

982  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and numerical modeling of basalt textile reinforced mortar behavior under uniaxial tensile stress. <i>Materials &amp; Design</i> , 2014, 55, 66-74.	5.1	144
2	Degradation of bond between FRP and RC beams. <i>Composite Structures</i> , 2008, 85, 164-174.	5.8	134
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	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
5	On estimates of durability of FRP based on accelerated tests. <i>Composite Structures</i> , 2014, 116, 377-387.	5.8	76
6	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
7	Bond-slip on CFRP/GFRP-to-concrete joints subjected to moisture, salt fog and temperature cycles. <i>Composites Part B: Engineering</i> , 2013, 55, 374-385.	12.0	63
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	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
10	Bond characteristics of CFRP-to-steel joints. <i>Journal of Constructional Steel Research</i> , 2017, 138, 401-419.	3.9	60
11	Experimental Evaluation of Bonding between CFRP Laminates and Different Structural Materials. <i>Journal of Composites for Construction</i> , 2016, 20, .	3.2	56
12	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
13	An experimental study of GFRP-to-concrete interfaces submitted to humidity cycles. <i>Composite Structures</i> , 2014, 110, 354-368.	5.8	45
14	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
15	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
16	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
17	Analysis of the debonding process of CFRP-to-timber interfaces. <i>Construction and Building Materials</i> , 2016, 113, 96-112.	7.2	41
18	Bond durability of CFRP laminates-to-steel joints subjected to freeze-thaw. <i>Composite Structures</i> , 2019, 212, 243-258.	5.8	39

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19	Double shear tests to evaluate the bond strength between GFRP/concrete elements. Composite Structures, 2012, 94, 681-694.	5.8	38
20	Factors influencing the performance of externally bonded reinforcement systems of GFRP-to-concrete interfaces. Materials and Structures/Materiaux Et Constructions, 2015, 48, 2961-2981.	3.1	34
21	A new discrete method to model unidirectional FRP-to-parent material bonded joints subjected to mechanical loads. Composite Structures, 2015, 121, 280-295.	5.8	33
22	Theoretical analysis of fracture in double overlap bonded joints with FRP composites and thin steel plates. Engineering Fracture Mechanics, 2018, 190, 435-460.	4.3	33
23	Mechanical response of anchored FRP bonded joints: A nonlinear analytical approach. Mechanics of Advanced Materials and Structures, 2018, 25, 238-252.	2.6	33
24	Flexural Strengthening of Old Timber Floors with Laminated Carbon Fiber Reinforced Polymers. Journal of Composites for Construction, 2017, 21, .	3.2	32
25	Modelling GFRP-to-concrete joints with interface finite elements with rupture based on the Mohr-Coulomb criterion. Construction and Building Materials, 2013, 47, 261-273.	7.2	31
26	Design method and verification of steel plate anchorages for FRP-to-concrete bonded interfaces. Composite Structures, 2018, 192, 52-66.	5.8	31
27	A temperature-dependent bond-slip model for CFRP-to-steel joints. Composite Structures, 2019, 217, 186-205.	5.8	30
28	Numerical analysis of FRP anchorage zones with variable width. Composites Part B: Engineering, 2014, 67, 410-426.	12.0	29
29	Delamination process analysis of FRP-to-parent material bonded joints with and without anchorage systems using the Distinct Element Method. Composite Structures, 2014, 116, 104-119.	5.8	28
30	Monotonic and quasi-static cyclic bond response of CFRP-to-steel joints after salt fog exposure. Composites Part B: Engineering, 2019, 168, 532-549.	12.0	28
31	Analytical model with uncoupled adhesion laws for the bond failure prediction of curved FRP-concrete joints subjected to temperature. Theoretical and Applied Fracture Mechanics, 2017, 89, 63-78.	4.7	26
32	Composites and FRP-Strengthened Beams Subjected to Dry/Wet and Salt Fog Cycles. Journal of Materials in Civil Engineering, 2014, 26, .	2.9	25
33	The influence of temperature variations on adhesively bonded structures: A non-linear theoretical perspective. International Journal of Non-Linear Mechanics, 2019, 113, 67-85.	2.6	25
34	Effect of load distribution on the behaviour of RC beams strengthened in flexure with near-surface mounted (NSM) FRP. Composite Structures, 2022, 279, 114782.	5.8	24
35	Effects of exposure to saline humidity on bond between GFRP and concrete. Composite Structures, 2010, 93, 216-224.	5.8	23
36	On factors affecting CFRP-steel bonded joints. Construction and Building Materials, 2019, 226, 360-375.	7.2	23

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37	Stainless Steel Bonded to Concrete: An Experimental Assessment using the DIC Technique. International Journal of Concrete Structures and Materials, 2018, 12, .	3.2	22
38	A smeared crack analysis of reinforced concrete T-beams strengthened with GFRP composites. Engineering Structures, 2013, 56, 1346-1361.	5.3	21
39	Analysis of load-€ strain models for RC square columns confined with CFRP. Composites Part B: Engineering, 2015, 74, 23-41.	12.0	19
40	Experimental and numerical analyses of flexurally-strengthened concrete T-beams with stainless steel. Engineering Structures, 2018, 172, 981-996.	5.3	18
41	In-Plane Displacement and Strain Image Analysis. Computer-Aided Civil and Infrastructure Engineering, 2016, 31, 292-304.	9.8	16
42	Effect of mechanical anchorage on the bond performance of double overlapped CFRP-to-steel joints. Composite Structures, 2021, 267, 113902.	5.8	16
43	Closed-form solutions for modelling the response of adhesively bonded joints under thermal loading through exponential softening laws. Mechanics of Materials, 2020, 148, 103527.	3.2	15
44	Nondestructive testing methodology to assess the conservation of historic stone buildings and monuments. , 2018, , 255-294.		13
45	Development of a simple bond-slip model for joints monitored with the DIC technique. Archives of Civil and Mechanical Engineering, 2018, 18, 1535-1546.	3.8	13
46	Flexural Strengthening of Columns with CFRP Composites and Stainless Steel: Cyclic Behavior. Journal of Structural Engineering, 2016, 142, .	3.4	12
47	Estimations of the debonding process of aged joints through a new analytical method. Composite Structures, 2019, 211, 577-595.	5.8	12
48	Experimental analysis of different anchorage solutions for laminated carbon fiber-reinforced polymers adhesively bonded to timber. Composite Structures, 2020, 243, 112228.	5.8	12
49	Fire behaviour of CFRP-strengthened RC slabs using different techniques € EBR, NSM and CREatE. Composites Part B: Engineering, 2022, 230, 109471.	12.0	12
50	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
51	Strengthening RC Beams Using Stainless Steel Continuous Reinforcement Embedded at Ends. Journal of Structural Engineering, 2020, 146, .	3.4	11
52	Using digital image correlation to evaluate the bond between carbon fibre-reinforced polymers and timber. Structural Health Monitoring, 2022, 21, 534-557.	7.5	11
53	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
54	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

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55	Adherence prediction between ribbed steel rebars and concrete: A new perspective and comparison with codes. Structures, 2020, 25, 979-999.	3.6	10
56	Influence of salt fog and ambient condition exposure on CFRP-to-steel bonded joints. Composite Structures, 2022, 280, 114874.	5.8	10
57	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
58	Thermal wear of epoxy composite modified with rutile titanium dioxide. Composite Structures, 2022, 282, 115127.	5.8	9
59	Debonding analysis of FRP-to-concrete interfaces between two adjacent cracks in plated beams under temperature variations. Engineering Fracture Mechanics, 2022, 263, 108307.	4.3	9
60	Interfacial failure of circular or tubular hybrid bonded joints: A theoretical description. Engineering Failure Analysis, 2022, 132, 105936.	4.0	7
61	Experimental calibration of the bond-slip relationship of different CFRP-to-timber joints through digital image correlation measurements. Composites Part C: Open Access, 2021, 4, 100099.	3.2	6
62	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
63	Emerging anchored FRP systems bonded to steel subjected to monotonic and cyclic loading: A numerical study. Engineering Fracture Mechanics, 2022, 261, 108250.	4.3	6
64	Consideration of Critical Parameters for Improving the Efficiency of Concrete Structures Reinforced with FRP. Materials, 2022, 15, 2774.	2.9	6
65	A Finite Element Based Analysis of Double Strap Bonded Joints with CFRP and Aluminium. Key Engineering Materials, 0, 754, 237-240.	0.4	5
66	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
67	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
68	Old Suspended Timber Floors Flexurally-Strengthened with Different Structural Materials. Key Engineering Materials, 0, 713, 78-81.	0.4	3
69	A Simple Analytical Approach for Creep Analysis of EB-FRP Systems. Key Engineering Materials, 2018, 774, 42-47.	0.4	3
70	Prediction of Stress-Strain Curves Based on Hydric Non-Destructive Tests on Sandstones. Materials, 2019, 12, 3366.	2.9	3
71	Durability of GFRP strengthening under environmental degradation. IABSE Symposium Report, 2009, , .	0.0	1
72	Cyclic Loading Behaviour of Double Strap Bonded Joints with CFRP and Aluminium. Key Engineering Materials, 0, 774, 36-41.	0.4	1