

Development of the Nonlinear Bond Stress–Slip Modulus of Fiber Reinforced Polymer Sheet–Concrete Interfaces with a Simple Method

Journal of Composites for Construction

9, 52-62

DOI: [10.1061/\(asce\)1090-0268\(2005\)9:1\(52\)](https://doi.org/10.1061/(asce)1090-0268(2005)9:1(52))

Citation Report

#	ARTICLE	IF	CITATIONS
1	Unified Analytical Approaches for Determining Shear Bond Characteristics of FRP-Concrete Interfaces through Pullout Tests. <i>Journal of Advanced Concrete Technology</i> , 2006, 4, 133-145.	1.8	143
2	Cohesive zone model of intermediate crack-induced debonding of FRP-plated concrete beam. <i>International Journal of Solids and Structures</i> , 2006, 43, 6630-6648.	2.7	101
3	Debonding of FRP-plated reinforced concrete beam, a bond-slip analysis. I. Theoretical formulation. <i>International Journal of Solids and Structures</i> , 2006, 43, 6649-6664.	2.7	61
4	Prediction of Interfacial Bond Failure of FRP-Concrete Surface. <i>Journal of Composites for Construction</i> , 2007, 11, 427-436.	3.2	77
5	Bonding Characteristics of Fiber-Reinforced Polymer Sheet-Concrete Interfaces under Dowel Load. <i>Journal of Composites for Construction</i> , 2007, 11, 138-148.	3.2	32
6	Strength of carbon fiber reinforced polymers bonded to concrete and masonry. <i>Construction and Building Materials</i> , 2007, 21, 1431-1446.	7.2	73
7	Cohesive zone model of FRP-concrete interface debonding under mixed-mode loading. <i>International Journal of Solids and Structures</i> , 2007, 44, 6551-6568.	2.7	60
8	Cohesive-bridging zone model of FRP-concrete interface debonding. <i>Engineering Fracture Mechanics</i> , 2007, 74, 2643-2658.	4.3	33
9	Anchorage strength models for end-debonding predictions in RC beams strengthened with FRP composites. <i>Mechanics of Composite Materials</i> , 2008, 44, 257-268.	1.4	7
10	Interface analysis between FRP EBR system and concrete. <i>Composites Part B: Engineering</i> , 2008, 39, 618-626.	12.0	29
11	Interfacial stress transfer of near surface-mounted FRP-to-concrete joints. <i>Engineering Structures</i> , 2008, 30, 1861-1868.	5.3	96
12	Nonlinear fracture mechanics of flexural-shear crack induced debonding of FRP strengthened concrete beams. <i>International Journal of Solids and Structures</i> , 2008, 45, 2916-2936.	2.7	41
13	Debonding analysis of fiber-reinforced-polymer strengthened beams: Cohesive zone modeling versus a linear elastic fracture mechanics approach. <i>Engineering Fracture Mechanics</i> , 2008, 75, 2842-2859.	4.3	71
14	Experimental and Numerical Study of Moisture Effects on the Bond Fracture Energy of FRP/Concrete Joints. <i>Journal of Reinforced Plastics and Composites</i> , 2008, 27, 205-223.	3.1	49
15	Cohesive Interface Modeling of Debonding Failure in FRP Strengthened Beams. <i>Journal of Engineering Mechanics - ASCE</i> , 2008, 134, 578-588.	2.9	40
16	Effect of elevated service temperature on bond between FRP EBR systems and concrete. <i>Composites Part B: Engineering</i> , 2009, 40, 85-93.	12.0	144
17	Debonding analysis of FRP-concrete interface between two balanced adjacent flexural cracks in plated beams. <i>International Journal of Solids and Structures</i> , 2009, 46, 2618-2628.	2.7	42
18	Cohesive zone modeling of interfacial stresses in plated beams. <i>International Journal of Solids and Structures</i> , 2009, 46, 4181-4191.	2.7	96

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19	Nonlinear Deterioration Model for Bond Interfacial Fracture Energy of FRP-Concrete Joints in Moist Environments. <i>Journal of Composites for Construction</i> , 2009, 13, 53-63.	3.2	24
20	Numerical Simulation of FRP Retrofitted Masonry Wall by 3D Finite Element Analysis. , 2009, , .		1
21	Inverse Analysis for the Calibration of FRP-Concrete Interface Law. <i>Advances in Structural Engineering</i> , 2009, 12, 613-625.	2.4	13
22	A Hybrid Bonding System for Improving the Structural Performance of FRP Flexurally Strengthened Concrete Beams. <i>Advances in Structural Engineering</i> , 2009, 12, 821-832.	2.4	12
23	An Analytical Model of FRP-Concrete Bond Deterioration in Moist Environment. <i>Advances in Structural Engineering</i> , 2009, 12, 761-769.	2.4	14
24	Peeling behavior and spalling resistance of CFRP sheets bonded to bent concrete surfaces. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2010, 26, 257-264.	3.4	8
25	Double pull specimen more suitable for measuring bond-slip relationship of FRP-to-concrete interface. <i>Central South University</i> , 2010, 17, 400-405.	0.5	4
26	Analytical modeling of the bond-slip relationship at FRP-concrete interfaces for adhesively-bonded joints. <i>Composites Part B: Engineering</i> , 2010, 41, 423-433.	12.0	148
27	Prediction of intermediate crack debonding failure in FRP-strengthened reinforced concrete beams. <i>Composite Structures</i> , 2010, 92, 322-329.	5.8	48
28	Bond-slip models for double strap joints strengthened by CFRP. <i>Composite Structures</i> , 2010, 92, 2137-2145.	5.8	156
29	Impact of thermal loads on interfacial debonding in FRP strengthened beams. <i>International Journal of Solids and Structures</i> , 2010, 47, 3234-3244.	2.7	28
30	Front and Side View Image Correlation Measurements on FRP to Concrete Pull-Off Bond Tests. <i>Journal of Composites for Construction</i> , 2010, 14, 451-463.	3.2	73
31	Bond characteristics of coarse sand coated interface between stay-in-place fibre-reinforced polymer formwork and concrete based on shear and tension tests. <i>Canadian Journal of Civil Engineering</i> , 2010, 37, 706-718.	1.3	23
32	Experimental Investigation of the Influence of Moisture on the Bond Behavior of FRP to Concrete Interfaces. <i>Journal of Composites for Construction</i> , 2010, 14, 834-844.	3.2	91
33	Prediction of Load-Slip Behavior of FRP Retrofitted Masonry. <i>Journal of Composites for Construction</i> , 2011, 15, 943-951.	3.2	9
34	Strengthening of Concrete, Metallic and Timber Construction Materials with FRP Composites. , 2011, , 13-19.		13
35	Bond Efficiency of EBR and NSM FRP Systems for Strengthening Concrete Members. <i>Journal of Composites for Construction</i> , 2011, 15, 757-772.	3.2	216
36	Experimental Investigation of FRP-Concrete Debonding under Cyclic Actions. <i>Journal of Materials in Civil Engineering</i> , 2011, 23, 360-371.	2.9	26

#	ARTICLE	IF	CITATIONS
37	FRP-Reinforced Concrete Beams: Unified Approach Based on IC Theory. <i>Journal of Composites for Construction</i> , 2011, 15, 293-303.	3.2	46
38	Load-slip relationship of tension reinforcement in reinforced concrete members. <i>Engineering Structures</i> , 2011, 33, 1098-1106.	5.3	43
39	Effect of bond degradation on fire resistance of FRP-strengthened reinforced concrete beams. <i>Composites Part B: Engineering</i> , 2011, 42, 226-237.	12.0	76
40	Indirect Identification Method of Bilinear Interface Laws for FRP Bonded on a Concrete Substrate. <i>Journal of Composites for Construction</i> , 2012, 16, 171-184.	3.2	28
41	Effect of Temperature Variation on the Full-Range Behavior of FRP-to-Concrete Bonded Joints. <i>Journal of Composites for Construction</i> , 2012, 16, 671-683.	3.2	98
42	Analytical solution for the bond strength of externally bonded reinforcement. <i>Composite Structures</i> , 2012, 94, 3232-3239.	5.8	82
43	Strength analysis of metallic bonded joints containing defects. <i>Computational Materials Science</i> , 2012, 53, 444-450.	3.0	37
44	Deflection analysis of reinforced concrete beams strengthened with carbon fibre reinforced polymer under long-term load action. <i>Journal of Zhejiang University: Science A</i> , 2012, 13, 571-583.	2.4	18
45	Plate end debonding in the constant bending moment zone of plated beams. <i>Composites Part B: Engineering</i> , 2012, 43, 3361-3373.	12.0	10
46	Bond-slip relations for PBO-FRCM materials externally bonded to concrete. <i>Composites Part B: Engineering</i> , 2012, 43, 2938-2949.	12.0	177
47	Cohesive zone model for the prediction of interfacial shear stresses in a composite-plate RC beam with an intermediate flexural crack. <i>Composite Structures</i> , 2012, 94, 3574-3582.	5.8	15
48	Interfacial Bond Strength Characteristics of FRP and RC Substrate. <i>Journal of Composites for Construction</i> , 2012, 16, 35-46.	3.2	28
49	Strength and interface failure mechanism of adhesive joints. <i>International Journal of Adhesion and Adhesives</i> , 2012, 34, 80-92.	2.9	61
50	Analytical identification of bond-slip relationship of EB-FRP joints. <i>Composites Part B: Engineering</i> , 2012, 43, 1955-1963.	12.0	71
51	General model for constitutive relationships of concrete and its composite structures. <i>Composite Structures</i> , 2012, 94, 580-592.	5.8	75
52	Bond between FRP and concrete in reinforced concrete beams strengthened with near surface mounted and externally bonded reinforcement. <i>Construction and Building Materials</i> , 2012, 32, 41-54.	7.2	50
53	Debonding analysis of reinforced concrete beams strengthened with fibre reinforced cementitious mortar. <i>Engineering Fracture Mechanics</i> , 2012, 81, 94-109.	4.3	84
54	Nonlinear micromechanics-based bond-slip model for FRP/concrete interfaces. <i>Engineering Structures</i> , 2012, 39, 11-23.	5.3	46

#	ARTICLE	IF	CITATIONS
55	Modeling of Tension Stiffening Behavior in FRP-Strengthened RC Members Based on Rigid Body Spring Networks. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2012, 27, 406-418.	9.8	20
56	Strengthening and Rehabilitation of Reinforced Concrete Slabs with Carbon-Fiber Reinforced Polymers Using a Refined Bond Model. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2012, 27, 333-346.	9.8	11
57	Assessments for impact of adhesive properties: modeling strength of metallic single lap joints. <i>Journal of Adhesion Science and Technology</i> , 2013, 27, 9-29.	2.6	18
58	Bond-slip model for CFRP strips near-surface mounted to concrete. <i>Engineering Structures</i> , 2013, 56, 945-953.	5.3	68
59	Standardised double-shear test for determining bond of FRP to concrete and corresponding model development. <i>Composites Part B: Engineering</i> , 2013, 55, 277-297.	12.0	48
60	Quantification of Bond-Slip Relationship for Externally Bonded FRP-to-Concrete Joints. <i>Journal of Composites for Construction</i> , 2013, 17, 673-686.	3.2	184
61	Bond Behavior between Basalt Fiber-Reinforced Polymer Sheet and Concrete Substrate under the Coupled Effects of Freeze-Thaw Cycling and Sustained Load. <i>Journal of Composites for Construction</i> , 2013, 17, 530-542.	3.2	106
62	Evaluation of Parameters of Bond Action between FRP and Concrete. <i>Journal of Composites for Construction</i> , 2013, 17, 626-635.	3.2	42
63	Crack-dependent response of steel elements strengthened with CFRP sheets. <i>Construction and Building Materials</i> , 2013, 49, 110-120.	7.2	11
64	Effect of sustained load combined with cold temperature on flexure of damaged steel beams repaired with CFRP sheets. <i>Engineering Structures</i> , 2013, 56, 1957-1966.	5.3	9
65	An analytical model of fully grouted rock bolts subjected to tensile load. <i>Construction and Building Materials</i> , 2013, 49, 519-526.	7.2	148
66	A smeared crack analysis of reinforced concrete T-beams strengthened with GFRP composites. <i>Engineering Structures</i> , 2013, 56, 1346-1361.	5.3	21
67	Bond-Slip Model for FRP Laminates Externally Bonded to Concrete at Elevated Temperature. <i>Journal of Composites for Construction</i> , 2013, 17, 217-228.	3.2	148
68	A probabilistic investigation into deterioration of CFRP-concrete interface in aggressive environments. <i>Construction and Building Materials</i> , 2013, 41, 49-59.	7.2	16
69	Characterization of Mechanically Enhanced FRP Bonding System. <i>Journal of Composites for Construction</i> , 2013, 17, 34-49.	3.2	41
70	Application of artificial neural networks to predict the bond strength of FRP-to-concrete joints. <i>Construction and Building Materials</i> , 2013, 40, 812-821.	7.2	75
71	Local stress field approach for post cracking analysis of FRP strengthened RC elements. <i>Composites Part B: Engineering</i> , 2013, 53, 234-248.	12.0	1
72	Contribution of U-shaped strips to the flexural capacity of low-strength reinforced concrete beams strengthened with carbon fibre composite sheets. <i>Composites Part B: Engineering</i> , 2013, 45, 117-126.	12.0	23

#	ARTICLE	IF	CITATIONS
73	Prediction of the interfacial shear stress of externally bonded FRP to concrete substrate using critical stress state criterion. <i>Composite Structures</i> , 2013, 95, 375-380.	5.8	11
74	Incorporating Residual Strains in the Flexural Rigidity of RC Members with Varying Degrees of Prestress and Cracking. <i>Advances in Structural Engineering</i> , 2013, 16, 1701-1718.	2.4	33
75	Bond-Slip Relationship for EB-FRP Joints by Including Free End Slip. <i>Applied Mechanics and Materials</i> , 2013, 368-370, 1031-1038.	0.2	0
76	Analytical Study on Bond Characterization of Hybrid-Bonded FRP to Concrete Interfaces. <i>Applied Mechanics and Materials</i> , 0, 405-408, 2528-2533.	0.2	0
77	Assessing the durability of the interface between fiber-reinforced polymer (FRP) composites and concrete in the rehabilitation of reinforced concrete structures. , 2013, , 148-173.		1
78	Investigation of The Bond Behaviour Between PBO-FRCM Strengthening Material and Concrete. <i>Journal of Advanced Concrete Technology</i> , 2014, 12, 545-557.	1.8	20
79	Prediction Bond Strength between FRP and Concrete Interface by LEM Method. <i>Advanced Materials Research</i> , 0, 988, 195-200.	0.3	4
80	Effect of Shear Resistance on Flexural Debonding Load-Carrying Capacity of RC Beams Strengthened with Externally Bonded FRP Composites. <i>Polymers</i> , 2014, 6, 1366-1380.	4.5	10
81	Material Conditions Necessary for Strengthening Concrete Structures. <i>Procedia Engineering</i> , 2014, 95, 321-334.	1.2	2
82	Analyzing bond characteristics between composites and quasi-brittle substrates in the repair of bridges and other concrete structures. , 2014, , 61-93.		19
83	Digital image correlation measurement of the bond-slip relationship between fiber-reinforced polymer sheets and concrete substrate. <i>Journal of Reinforced Plastics and Composites</i> , 2014, 33, 1590-1603.	3.1	26
84	Prediction of the nonlinear pull-out response of FRP ground anchors using an analytical transfer matrix method. <i>Engineering Structures</i> , 2014, 81, 377-385.	5.3	26
85	Experimental Investigation and Numerical Modeling of Peak Shear Stress of Brick Masonry Mortar Joint under Compression. <i>Journal of Materials in Civil Engineering</i> , 2014, 26, .	2.9	50
86	Interfacial bond strength of resin-impregnated fibre-reinforced polymer laminates bonded to concrete using vacuum and heat: Experimental study. <i>Australian Journal of Structural Engineering</i> , 2014, 15, .	1.1	5
87	Local bond-slip behavior between cold-formed metal and concrete. <i>Engineering Structures</i> , 2014, 69, 271-284.	5.3	24
88	Assessment of curved FRP-reinforced masonry prisms: Experiments and modeling. <i>Construction and Building Materials</i> , 2014, 51, 492-505.	7.2	60
89	Effective bond length of FRP-to-concrete adhesively-bonded joints: Experimental evaluation of existing models. <i>International Journal of Adhesion and Adhesives</i> , 2014, 48, 150-158.	2.9	98
90	An experimental study of GFRP-to-concrete interfaces submitted to humidity cycles. <i>Composite Structures</i> , 2014, 110, 354-368.	5.8	45

#	ARTICLE	IF	CITATIONS
91	A new predictive model for the bond strength of FRP-to-concrete composite joints. <i>Structural Concrete</i> , 2014, 15, 509-521.	3.1	22
92	Analytical modeling of bond behavior between FRP plate and concrete. <i>Composites Part B: Engineering</i> , 2014, 61, 17-25.	12.0	68
93	Prediction of prestress losses in RC beams externally strengthened with prestressed CFRP sheets/plates. <i>Journal of Reinforced Plastics and Composites</i> , 2014, 33, 699-713.	3.1	22
94	Numerical modelling and parametric analysis of bond strength of masonry members retrofitted with FRP. <i>Construction and Building Materials</i> , 2014, 73, 713-727.	7.2	10
95	Deformation Analysis of RC Ties Externally Strengthened with FRP Sheets. <i>Mechanics of Composite Materials</i> , 2014, 50, 669-676.	1.4	12
96	Numerical analysis of FRP anchorage zones with variable width. <i>Composites Part B: Engineering</i> , 2014, 67, 410-426.	12.0	29
97	Development of a simplified bond stress-slip model for bonded FRP-concrete interfaces. <i>Construction and Building Materials</i> , 2014, 68, 142-157.	7.2	99
98	Experimental Investigation on FRP-to-Timber Bonded Interfaces. <i>Journal of Composites for Construction</i> , 2014, 18, .	3.2	38
99	Bond between FRP composites and concrete: Assessment of design procedures and analytical models. <i>Composites Part B: Engineering</i> , 2014, 60, 440-456.	12.0	63
100	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
101	Influence of randomly distributed adhesive properties on the overall mechanical response of metallic adhesively bonded joints. <i>International Journal of Adhesion and Adhesives</i> , 2014, 52, 48-56.	2.9	10
102	Prediction of Load Capacity Variation in FRP Bonded Concrete Specimens Using Brownian Motion. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-9.	1.1	4
103	Analytical Solution for Externally Bonded Joints Considering Snap-Back. <i>Journal of Composites for Construction</i> , 2015, 19, .	3.2	17
104	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
105	Analysis of Mode II debonding behavior of fiber-reinforced polymer-to-substrate bonded joints subjected to combined thermal and mechanical loading. <i>Engineering Fracture Mechanics</i> , 2015, 136, 241-264.	4.3	68
106	Identification of the interfacial fracture mechanism in the FRP laminated substrates using a modified single lap shear test set-up. <i>Engineering Fracture Mechanics</i> , 2015, 134, 317-329.	4.3	26
107	Fire behaviour of FRP-strengthened reinforced concrete structural elements: A state-of-the-art review. <i>Composites Part B: Engineering</i> , 2015, 80, 198-216.	12.0	128
108	Acoustic emission behaviors and damage mechanisms of adhesively bonded single-lap composite joints with adhesive defects. <i>Journal of Reinforced Plastics and Composites</i> , 2015, 34, 84-92.	3.1	22

#	ARTICLE	IF	CITATIONS
109	Sensitivity analysis of stress state and bond strength of fiber-reinforced polymer/concrete interface to boundary conditions in single shear pull-out test. <i>Advances in Mechanical Engineering</i> , 2015, 7, 168781401558541.	1.6	14
110	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
111	Static and fatigue behaviour of the bond interface between concrete and externally bonded CFRP in single shear. <i>Engineering Structures</i> , 2015, 97, 54-67.	5.3	19
112	Bond behavior of FRP-to-concrete interface under sulfate attack: An experimental study and modeling of bond degradation. <i>Construction and Building Materials</i> , 2015, 85, 9-21.	7.2	89
113	Periodic variation of the transferable load at the FRP-masonry interface. <i>Composite Structures</i> , 2015, 129, 90-100.	5.8	47
114	Bonding Behavior of Wet-Bonded GFRP-Concrete Interface. <i>Journal of Composites for Construction</i> , 2015, 19, .	3.2	25
115	A novel numerical model of debonding of FRP-plated concrete beam. <i>Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an</i> , 2015, 38, 24-32.	1.1	4
116	Acoustic emission monitoring and finite element analysis for torsion failure of Metal/FRP cylinder-shell adhesive joints. <i>Journal of Adhesion Science and Technology</i> , 2015, 29, 2433-2445.	2.6	6
117	Investigation of Behavior of Reinforced Concrete Elements Strengthened with FRP. <i>Procedia Engineering</i> , 2015, 111, 679-686.	1.2	11
118	Effects of water immersion on the bond behavior between CFRP plates and concrete substrate. <i>Construction and Building Materials</i> , 2015, 101, 326-337.	7.2	62
119	Prediction of the bond-slip law in externally laminated concrete substrates by an analytical based nonlinear approach. <i>Materials & Design</i> , 2015, 66, 217-226.	5.1	21
120	Introduction of a Stress State Criterion to Predict Bond Strength between FRP and Concrete Substrate. <i>Journal of Composites for Construction</i> , 2015, 19, .	3.2	17
121	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
122	Finite Element Modeling of Insulated FRP-Strengthened RC Beams Exposed to Fire. <i>Journal of Composites for Construction</i> , 2015, 19, .	3.2	47
123	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
124	Effect of Temperature Variation on Bond Characteristics between CFRP and Steel Plate. <i>International Journal of Polymer Science</i> , 2016, 2016, 1-8.	2.7	19
125	Full Debonding Process of Adhesively Bonded Composite and Metallic Pipe Joints under Torsion. <i>Mathematical Problems in Engineering</i> , 2016, 2016, 1-13.	1.1	4
126	Novel Predictive Model of the Debonding Strength for Masonry Members Retrofitted with FRP. <i>Applied Sciences (Switzerland)</i> , 2016, 6, 337.	2.5	17

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127	Influence of the Processing Techniques on the Bond Characteristics in Externally Bonded Joints: Experimental and Analytical Investigations. <i>Journal of Composites for Construction</i> , 2016, 20, .	3.2	9
128	Numerical Analysis of Interfacial Bond Behavior of Externally Bonded FRP-to-Concrete Joints. <i>Journal of Composites for Construction</i> , 2016, 20, .	3.2	27
129	Creep response of intermediate flexural cracking behavior of reinforced concrete beam strengthened with an externally bonded FRP plate. <i>International Journal of Solids and Structures</i> , 2016, 94-95, 196-205.	2.7	21
130	Development of bond strength model for CFRP-to-concrete joints at high temperatures. <i>Composites Part B: Engineering</i> , 2016, 95, 264-271.	12.0	37
131	Flexural behaviour of reinforced concrete beams strengthened with a composite reinforcement layer: BFRP grid and ECC. <i>Construction and Building Materials</i> , 2016, 115, 424-437.	7.2	123
132	Nonlinear finite element analysis of fibre-reinforced polymer/concrete joints. <i>Advances in Structural Engineering</i> , 2016, 19, 1604-1619.	2.4	0
133	IC debonding failure in RC beams strengthened with FRP: Strain-based versus stress increment-based models. <i>Engineering Structures</i> , 2016, 118, 108-124.	5.3	16
134	An Experimental Study on the Debonding of Steel and CFRP Strips Externally Bonded to Concrete in the Presence of Embedded Shear Connectors. <i>Arabian Journal for Science and Engineering</i> , 2016, 41, 4171-4186.	1.1	8
135	Experimental study on dynamic behavior of GFRP-to-concrete interface. <i>Engineering Structures</i> , 2016, 118, 371-382.	5.3	16
136	Effects of temperature and sustained loading on the mechanical response of CFRP bonded to concrete. <i>Construction and Building Materials</i> , 2016, 124, 442-452.	7.2	24
137	General cohesive zone model for prediction of interfacial stresses induced by intermediate flexural crack of FRP-plated RC beams. <i>Engineering Structures</i> , 2016, 126, 147-157.	5.3	17
138	Experimental study on shear-peeling bond strength between a CFRP plate and concrete. <i>Magazine of Concrete Research</i> , 2016, 68, 568-580.	2.0	13
139	Modeling of FRP-strengthened curved masonry specimens and proposal of a simple design formula. <i>Composite Structures</i> , 2016, 158, 281-290.	5.8	41
140	Strength and damage growth in composite bonded joints with defects. <i>Composites Part B: Engineering</i> , 2016, 100, 91-100.	12.0	59
141	Theoretical solution to fatigue bond stress distribution of NSM FRP reinforcement in concrete. <i>Composites Part B: Engineering</i> , 2016, 99, 453-464.	12.0	16
142	Experimental and analytical study of the dynamic debonding in FRP plated beams. <i>International Journal of Solids and Structures</i> , 2016, 92-93, 121-134.	2.7	16
143	Fracture Properties of CFRP-Concrete Bond Subjected to Three Environmental Conditions. <i>Journal of Composites for Construction</i> , 2016, 20, .	3.2	17
144	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

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145	Analysis of the debonding process of CFRP-to-timber interfaces. Construction and Building Materials, 2016, 113, 96-112.	7.2	41
146	Generalization of the interface law for different FRP processing techniques in FRP-to-concrete bonded interfaces. Composites Part B: Engineering, 2016, 91, 399-407.	12.0	14
147	Assessment of bond strength in CFRP retrofitted beams under marine environment. Composite Structures, 2016, 140, 463-472.	5.8	11
148	Effectiveness factors for bond strength in FRP shear-strengthened RC beams. Materials and Structures/Materiaux Et Constructions, 2016, 49, 5031-5049.	3.1	5
149	Bond-slip behavior of fiber-reinforced polymer/concrete interface in single shear pull-out and beam tests. Journal of Reinforced Plastics and Composites, 2016, 35, 375-386.	3.1	9
150	Experimental Study on Dynamic Behavior of CFRP-to-Concrete Interface. Journal of Composites for Construction, 2016, 20, .	3.2	26
151	Numerical modelling of the bond between concrete and CFRP laminates at elevated temperatures. Engineering Structures, 2016, 110, 233-243.	5.3	36
152	Fracture Analysis of FRP-Plated Notched Concrete Beams Subjected to Three-Point Bending. Journal of Engineering Mechanics - ASCE, 2016, 142, .	2.9	11
153	FRP-masonry interfacial debonding: An energy balance approach to determine the influence of the mortar joints. European Journal of Mechanics, A/Solids, 2016, 55, 122-133.	3.7	60
154	Modes of Failure in Shear Deficient RC T-Beams Strengthened with FRP. Journal of Composites for Construction, 2016, 20, .	3.2	24
155	Bond Between EBR FRP and Concrete. RILEM State-of-the-Art Reports, 2016, , 39-96.	0.7	6
156	Bond-Test Protocol for Plate-to-Concrete Interface Involving All Mechanisms. Journal of Composites for Construction, 2016, 20, .	3.2	23
157	Experimental Evaluation of Bonding between CFRP Laminates and Different Structural Materials. Journal of Composites for Construction, 2016, 20, .	3.2	56
158	Design Procedures for the Use of Composites in Strengthening of Reinforced Concrete Structures. RILEM State-of-the-Art Reports, 2016, , .	0.7	24
159	Pull-out Strengths of GFRP-Concrete Bond Exposed to Applied Environmental Conditions. International Journal of Concrete Structures and Materials, 2017, 11, 69-84.	3.2	12
160	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
161	Bond Behavior of FRP-Concrete in Presence of Intermediate Crack Debonding Failure. Journal of Composites for Construction, 2017, 21, .	3.2	34
162	Direct Measurement of Traction-Separation Law of Concrete-Epoxy Interfaces Subjected to Moisture Attack under Mode-I Loading. Journal of Composites for Construction, 2017, 21, .	3.2	7

#	ARTICLE	IF	CITATIONS
163	Experimental study of the mechanical behavior of FRP-reinforced concrete canvas panels. Composite Structures, 2017, 176, 608-616.	5.8	27
164	Nonlinear indirect identification method for cement composite-to-concrete bond. Composite Structures, 2017, 176, 72-81.	5.8	5
165	Numerical studies on the entire debonding propagation process of FRP strips externally bonded to the concrete substrate. Construction and Building Materials, 2017, 149, 218-235.	7.2	33
166	An indirect method to calibrate the interfacial cohesive material law for FRCM-concrete joints. Materials and Design, 2017, 128, 206-217.	7.0	63
167	Development of a simplified bond model used for simulating FRP strips bonded to concrete. Composite Structures, 2017, 171, 462-472.	5.8	30
168	Determination of the interfacial properties of SRP strips bonded to concrete and comparison between single-lap and notched beam tests. Engineering Fracture Mechanics, 2017, 186, 80-104.	4.3	38
169	Width factor for externally bonded FRP-to-concrete joints. Construction and Building Materials, 2017, 155, 818-829.	7.2	25
170	Bond characteristics of CFRP-to-steel joints. Journal of Constructional Steel Research, 2017, 138, 401-419.	3.9	60
171	Bond-slip behavior of fiber reinforced polymer strips-steel interface. Construction and Building Materials, 2017, 155, 250-258.	7.2	31
172	Effective bond length and bond behaviour of FRP externally bonded to timber. Construction and Building Materials, 2017, 151, 742-754.	7.2	34
173	Modelling bond of GFRP rebar and concrete. Construction and Building Materials, 2017, 153, 102-116.	7.2	40
174	Effect of grain orientation on the CFRP-to-LVL bond. Composites Part B: Engineering, 2017, 129, 187-197.	12.0	8
175	Reinforced concrete beams strengthened in flexure with near-surface mounted (NSM) CFRP strips: Current status and research needs. Composites Part B: Engineering, 2017, 131, 30-42.	12.0	113
176	Impact of Interfacial Nonuniformity on the Dynamic Debonding in FRP-Plated Beams. Journal of Engineering Mechanics - ASCE, 2017, 143, 04017084.	2.9	2
177	Determination of boundary effect on mode II fracture energy of FRP sheet-to-concrete bonded joints. Engineering Fracture Mechanics, 2017, 181, 130-142.	4.3	5
178	The effect of the shape of the cohesive material law on the stress transfer at the FRP-masonry interface. Composites Part B: Engineering, 2017, 110, 368-380.	12.0	40
179	Single-lap shear bond tests on Steel Reinforced Geopolymeric Matrix-concrete joints. Composites Part B: Engineering, 2017, 110, 62-71.	12.0	38
180	Prediction of the interfacial performance of CFRP laminates and old timber bonded joints with different strengthening techniques. Composites Part B: Engineering, 2017, 108, 1-17.	12.0	46

#	ARTICLE	IF	CITATIONS
181	Finite Element Modeling for Debonding of FRP-to-Concrete Interfaces Subjected to Mixed-Mode Loading. <i>Polymers</i> , 2017, 9, 438.	4.5	20
182	Bond-Slip Models for FPR-Concrete Interfaces Subjected to Moisture Conditions. <i>International Journal of Polymer Science</i> , 2017, 2017, 1-14.	2.7	16
183	Predicting Bond Strength between FRP Plates and Concrete Sub-strate: Applications of GMDH and MNLN Approaches. <i>Journal of Advanced Concrete Technology</i> , 2017, 15, 644-661.	1.8	13
184	Experimental Study on Performance of Short-Bonding Interface between CFRP and Concrete. <i>Key Engineering Materials</i> , 2017, 753, 331-336.	0.4	1
185	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
186	Analysis of externally bonded Carbon Fibre Reinforced Polymers sheet to timber interface. <i>Composite Structures</i> , 2018, 191, 239-250.	5.8	16
187	Effects of Freeze-Thaw Cycles on the Behavior of the Bond between CFRP Plates and Concrete Substrates. <i>Journal of Composites for Construction</i> , 2018, 22, .	3.2	25
188	Flexural behavior of reinforced concrete beams externally strengthened with Hardwire Steel-Fiber sheets. <i>Construction and Building Materials</i> , 2018, 172, 562-573.	7.2	63
189	Experimental Studies on Strengthening and Failure Mechanism for the Metal/Silicone Rubber/Metal Bonding System. <i>International Journal of Applied Mechanics</i> , 2018, 10, 1850029.	2.2	6
190	A damage model for high-cycle fatigue behavior of bond between FRP bar and concrete. <i>International Journal of Fatigue</i> , 2018, 111, 101-111.	5.7	25
191	Experimental study on tensile behaviour of steel plates with centre hole strengthened by CFRP plates under marine environment. <i>International Journal of Adhesion and Adhesives</i> , 2018, 84, 18-26.	2.9	30
192	Predicting bond behavior of HB FRP strengthened concrete structures subjected to different confining effects. <i>Composite Structures</i> , 2018, 187, 212-225.	5.8	38
193	Mechanical behaviour of fully grouted GFRP rock bolts under the joint action of pre-tension load and blast dynamic load. <i>Tunnelling and Underground Space Technology</i> , 2018, 73, 82-91.	6.2	35
194	Numerical study on notched steel beams strengthened by CFRP plates. <i>Construction and Building Materials</i> , 2018, 163, 622-633.	7.2	27
195	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
196	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
197	Effect of defects in externally bonded FRP reinforced concrete. <i>Construction and Building Materials</i> , 2018, 172, 63-76.	7.2	70
198	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

#	ARTICLE	IF	CITATIONS
199	Bond-slip models for CFRP plates externally bonded to steel substrates. <i>Composite Structures</i> , 2018, 184, 1204-1214.	5.8	80
200	A partial-interaction approach for extracting FRP-to-concrete bond characteristics from environmentally loaded flexural tests. <i>Composites Part B: Engineering</i> , 2018, 132, 214-228.	12.0	10
201	Fully probabilistic analysis of FRP-to-concrete bonded joints considering model uncertainty. <i>Composite Structures</i> , 2018, 185, 786-806.	5.8	87
202	An incremental inverse analysis procedure for identification of bond-slip laws in composites applied to textile reinforced concrete. <i>Composites Part B: Engineering</i> , 2018, 137, 111-122.	12.0	36
203	Whole-process Bond Characteristics of FRP-to-concrete Joint under Pressure. <i>KSCE Journal of Civil Engineering</i> , 2018, 22, 5114-5122.	1.9	6
204	Epoxy interlocking: A novel approach to enhance FRP-to-concrete bond behavior. <i>Construction and Building Materials</i> , 2018, 193, 643-653.	7.2	38
205	Self-Sensing CFRP Fabric for Structural Strengthening and Damage Detection of Reinforced Concrete Structures. <i>Sensors</i> , 2018, 18, 4137.	3.8	22
206	Bond behavior between basalt fibres reinforced polymer sheets and steel fibres reinforced concrete. <i>Engineering Structures</i> , 2018, 176, 812-824.	5.3	37
207	Design method of end anchored FRP strengthened concrete structures. <i>Engineering Structures</i> , 2018, 176, 143-158.	5.3	23
208	Hybrid artificial intelligence-based bond strength model of CFRP-lightweight concrete composite. <i>MATEC Web of Conferences</i> , 2018, 192, 02018.	0.2	2
209	Reliability Analysis of Bond Behaviour of CFRP-Concrete Interface under Wet-Dry Cycles. <i>Materials</i> , 2018, 11, 741.	2.9	41
210	Bond Behavior of Wet-Bonded Carbon Fiber-Reinforced Polymer-Concrete Interface Subjected to Moisture. <i>International Journal of Polymer Science</i> , 2018, 2018, 1-11.	2.7	13
211	Experimental Study on Bond-Slip Behavior of Bamboo Bolt-Modified Slurry Interface under Pull-Out Load. <i>Advances in Civil Engineering</i> , 2018, 2018, 1-23.	0.7	9
212	Effect of mechanical fastening pressure on the bond behaviors of hybrid-bonded FRP to concrete interface. <i>Composite Structures</i> , 2018, 204, 731-744.	5.8	40
213	Finite element modelling of flexural behaviour of geosynthetic cementitious composite mat (GCCM). <i>Composites Part B: Engineering</i> , 2018, 154, 33-42.	12.0	27
214	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
215	State-of-the-art review and future research directions for FRP-to-masonry bond research: Test methods and techniques for extraction of bond-slip behaviour. <i>Construction and Building Materials</i> , 2018, 183, 325-345.	7.2	45
216	Roughness Effects on the Fracture Energy between FRP and Concrete. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 389, 012016.	0.6	2

#	ARTICLE	IF	CITATIONS
217	Active and passive protection of steel reinforcement in concrete column using carbon fibre reinforced polymer against corrosion. <i>Electrochimica Acta</i> , 2018, 278, 124-136.	5.2	53
218	Flexural performance of FRP-plated RC beams using H-type end anchorage. <i>Composite Structures</i> , 2018, 206, 11-21.	5.8	39
219	Prediction of the bond strength between non-uniformly corroded steel reinforcement and deteriorated concrete. <i>Construction and Building Materials</i> , 2018, 187, 1267-1276.	7.2	45
220	Bond strength model for externally bonded FRP-to-timber interface. <i>Composite Structures</i> , 2018, 200, 328-339.	5.8	19
221	Experimental results and modelling of corrosion-damaged concrete beams strengthened with externally-bonded composites. <i>Engineering Structures</i> , 2018, 172, 172-186.	5.3	30
222	Width effect of interfacial bond characteristics. <i>Construction and Building Materials</i> , 2019, 220, 712-726.	7.2	16
223	Developing an anchored near-surface mounted (NSM) FRP system for fuller use of FRP material with less epoxy filler. <i>Composite Structures</i> , 2019, 226, 111251.	5.8	7
224	Material Mechanical Properties Necessary for the Structural Intervention of Concrete Structures. <i>Engineering</i> , 2019, 5, 1131-1138.	6.7	3
225	Numerical Analysis of RC Slab with opening strengthened with CFRP Laminates. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 603, 042038.	0.6	4
226	Influence of curing conditions on mechanical behaviour of glued joints of carbon fibre-reinforced polymer composite/concrete. <i>Construction and Building Materials</i> , 2019, 227, 116385.	7.2	9
227	Effect of aggregate size on the dynamic interfacial bond behaviour between basalt fiber reinforced polymer sheets and concrete. <i>Construction and Building Materials</i> , 2019, 227, 116584.	7.2	19
228	Approximate Evaluation of Maximum Force Transferable at FRP-Masonry Interface. <i>Journal of Composites for Construction</i> , 2019, 23, 04019050.	3.2	3
229	Cyclic performance of adhesively bonded joints using the Distinct Element Method: Damage and parametric analysis. <i>Composites Part B: Engineering</i> , 2019, 178, 107468.	12.0	5
230	Effect of adhesive properties on the bond behaviour of externally bonded FRP-to-concrete joints. <i>Composites Part B: Engineering</i> , 2019, 177, 107365.	12.0	41
231	Graphene oxide-coated Poly(vinyl alcohol) fibers for enhanced fiber-reinforced cementitious composites. <i>Composites Part B: Engineering</i> , 2019, 174, 107010.	12.0	45
232	Organic versus inorganic matrix composites for bond-critical strengthening applications of RC structures – State-of-the-art review. <i>Composites Part B: Engineering</i> , 2019, 174, 106947.	12.0	29
233	Influence of long-term outdoor exposure in a frigid zone on the CFRP-to-concrete bond behavior. <i>Construction and Building Materials</i> , 2019, 215, 462-474.	7.2	13
234	Influence of restraint thermal effects on the bond strength of externally bonded CFRP-concrete joints. <i>Composite Structures</i> , 2019, 221, 110858.	5.8	3

#	ARTICLE	IF	CITATIONS
235	Experimental and numerical study of the CFRP-to-concrete bonded joints after water immersion. <i>Composite Structures</i> , 2019, 218, 95-106.	5.8	26
236	A temperature-dependent bond-slip model for CFRP-to-steel joints. <i>Composite Structures</i> , 2019, 217, 186-205.	5.8	30
237	Modeling SRP-concrete interfacial bond behavior and strength. <i>Engineering Structures</i> , 2019, 187, 220-230.	5.3	17
238	Bond-slip behaviors of BFRP-to-concrete interfaces exposed to wet/dry cycles in chloride environment. <i>Composite Structures</i> , 2019, 219, 185-193.	5.8	37
239	A generic non-linear bond-slip model for CFRP composites bonded to concrete substrate using EBR and EBROG techniques. <i>Composite Structures</i> , 2019, 220, 31-44.	5.8	49
240	Bond behaviour between hybrid fiber reinforced polymer sheets and concrete. <i>Construction and Building Materials</i> , 2019, 210, 93-110.	7.2	44
241	Freeze-thaw resistance of epoxy/concrete interface evaluated by a novel wedge splitting test. <i>Construction and Building Materials</i> , 2019, 210, 434-441.	7.2	20
242	Durability of the Bond between CFRP and Concrete Exposed to Thermal Cycles. <i>Materials</i> , 2019, 12, 515.	2.9	11
243	State-of-the-art review on the bond properties of corroded reinforcing steel bar. <i>Construction and Building Materials</i> , 2019, 213, 216-233.	7.2	121
244	The influence of temperature variations on adhesively bonded structures: A non-linear theoretical perspective. <i>International Journal of Non-Linear Mechanics</i> , 2019, 113, 67-85.	2.6	25
245	Dual-Horizon Peridynamics Analysis of Debonding Failure in FRP-to-Concrete Bonded Joints. <i>International Journal of Concrete Structures and Materials</i> , 2019, 13, .	3.2	8
246	Numerical model for predicting the structural response of composite UHPC-concrete members considering the bond strength at the interface. <i>Composite Structures</i> , 2019, 215, 185-197.	5.8	51
247	Effects of mechanical properties of adhesive and CFRP on the bond behavior in CFRP-strengthened steel structures. <i>Composite Structures</i> , 2019, 211, 163-174.	5.8	79
248	Experimental and numerical study on the interfacial bonding characteristics of FRP-to-concrete joints with mechanical fastening. <i>Construction and Building Materials</i> , 2019, 199, 456-470.	7.2	15
249	Effect of CFRP strengthening properties with anchoring systems on P-I diagrams of RC panels under blast loads. <i>Construction and Building Materials</i> , 2019, 200, 648-663.	7.2	14
250	Experimental and analytical investigation on CFRP strengthened glulam laminated timber beams: Full-scale experiments. <i>Composites Part B: Engineering</i> , 2019, 164, 377-389.	12.0	62
251	Effect of transverse groove on bond behavior of FRP-concrete interface: Experimental study, image analysis and design. <i>Composites Part B: Engineering</i> , 2019, 161, 205-219.	12.0	33
252	Effectiveness of some technical standards for debonding analysis in FRP-concrete systems. <i>Composites Part B: Engineering</i> , 2019, 160, 254-267.	12.0	14

#	ARTICLE	IF	CITATIONS
253	Bond mechanism of EBROG method using a single groove to attach CFRP sheets on concrete. <i>Construction and Building Materials</i> , 2019, 197, 693-704.	7.2	30
254	Effect of aggregate size on bond behaviour between basalt fibre reinforced polymer sheets and concrete. <i>Composites Part B: Engineering</i> , 2019, 158, 459-474.	12.0	56
255	The combined effects of wet-dry cycles and sustained load on the bond behavior of FRP-concrete interface. <i>Polymer Composites</i> , 2019, 40, 1006-1017.	4.6	32
256	An innovative approach for bond strength modeling in FRP strip-to-concrete joints using adaptive neuro-fuzzy inference system. <i>Engineering With Computers</i> , 2020, 36, 1083-1100.	6.1	36
257	Crack based bond strength model of externally bonded steel plate and CFRP laminate to predict debonding failure of shear strengthened RC beams. <i>Journal of Building Engineering</i> , 2020, 27, 100943.	3.4	9
258	Experimental study on CFRP-concrete dynamic debonding behaviour. <i>Engineering Structures</i> , 2020, 206, 110055.	5.3	18
259	Experimental and numerical investigation of debonding process of the FRP plate-concrete interface. <i>Construction and Building Materials</i> , 2020, 235, 117457.	7.2	36
260	An empirical model to estimate FRP anchored joint strength using spike anchors. <i>Composite Structures</i> , 2020, 254, 112789.	5.8	7
261	Adhesion between SRP and masonry: Laboratory simulations of the field moisture and salt conditions. <i>Construction and Building Materials</i> , 2020, 264, 120697.	7.2	3
262	Toughening model of filled thermoplastic vulcanizates with dual-phase continuity. <i>Materials Chemistry and Physics</i> , 2020, 255, 123601.	4.0	2
263	Dynamic interfacial bond behaviour between basalt fiber reinforced polymer sheets and concrete. <i>International Journal of Solids and Structures</i> , 2020, 202, 587-604.	2.7	8
264	Fatigue behaviour of the bond interface between carbon fibre-reinforced polymer sheets and concrete. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 2116-2129.	3.4	5
265	Closed-form solutions for modelling the response of adhesively bonded joints under thermal loading through exponential softening laws. <i>Mechanics of Materials</i> , 2020, 148, 103527.	3.2	15
266	Bond characteristics and debonding mechanism of FRP-concrete interface. , 2020, , 87-185.		0
267	Modeling of the Stress-Strain State of a Composite External Strengthening of Reinforced Concrete Bending Elements. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 753, 052044.	0.6	2
268	Mode I fracture characterisation of FRP-concrete interfaces under dynamic loading. <i>Composite Structures</i> , 2020, 254, 112824.	5.8	10
269	Generalized Evaluation of Bond Behavior of the Externally Bonded FRP Reinforcement to Concrete. <i>Journal of Composites for Construction</i> , 2020, 24, .	3.2	19
270	Bond Behavior Between Steel Fiber Reinforced Polymer (SRP) and Concrete. <i>International Journal of Concrete Structures and Materials</i> , 2020, 14, .	3.2	8

#	ARTICLE	IF	CITATIONS
271	Modeling Bond Between Corrosion-Cracked Concrete and Composite Sheets. <i>International Journal of Civil Engineering</i> , 2020, 18, 1395-1409.	2.0	1
272	Assessment of Existing Bond Models for Externally Bonded SRP Composites. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8593.	2.5	3
273	An Anchoring Groove Technique to Enhance the Bond Behavior between Heat-Damaged Concrete and CFRP Composites. <i>Buildings</i> , 2020, 10, 232.	3.1	21
274	Bond-slip models for the interface between steel fabric reinforced cementitious matrix and concrete substrate. <i>Composites Part C: Open Access</i> , 2020, 3, 100078.	3.2	2
275	Shear Characteristics between FRP-Concrete Bonding Interface. <i>Materials Science Forum</i> , 0, 1005, 39-46.	0.3	0
276	Effect of Different Bond Parameters on the Mechanical Properties of FRP and Concrete Interface. <i>Polymers</i> , 2020, 12, 2466.	4.5	10
277	Interfacial response of fibre-to-matrix in textile reinforced concrete between two cracks: Analytical solution. <i>Composite Structures</i> , 2020, 245, 112380.	5.8	3
278	Flexural Behavior of Concrete Beams Strengthened with Polyurethane-Matrix Carbon-Fiber Composites. <i>Journal of Composites for Construction</i> , 2020, 24, .	3.2	16
279	Experimental and analytical investigation on the bond of SRP systems to concrete. <i>Composite Structures</i> , 2020, 242, 112090.	5.8	7
280	Experimental study on the dynamic bond behavior between CFRP and concrete under different slip rates. <i>Engineering Structures</i> , 2020, 216, 110788.	5.3	13
281	Analytical modelling of bond-slip failure between epoxy bonded FRP and concrete substrate. <i>Composite Structures</i> , 2020, 251, 112596.	5.8	9
282	Influence factors analysis of the interfacial bond behavior between GFRP plates, concrete. <i>Structures</i> , 2020, 26, 79-91.	3.6	10
283	New epoxy anchor for better bonding between FRP sheets and concrete. <i>Construction and Building Materials</i> , 2020, 248, 118628.	7.2	23
284	Flexural Behaviour of Narrow RC Beams Strengthened with Hybrid Anchored CFRP Sheets. <i>Journal of Advanced Concrete Technology</i> , 2020, 18, 54-66.	1.8	8
285	Recent developments in experimental and computational studies of hygrothermal effects on the bond between FRP and concrete. <i>Journal of Reinforced Plastics and Composites</i> , 2020, 39, 422-442.	3.1	14
286	Analytical solution for FRP-to-concrete bonded joints considering local unloading and reloading. <i>Engineering Fracture Mechanics</i> , 2020, 235, 107185.	4.3	7
287	Identification of interfacial properties of FRP plated beams using debonding dynamics. <i>Structures</i> , 2020, 25, 297-310.	3.6	1
288	Effect of liquid rubber modification on the bond behavior of externally bonded FRP laminate-concrete interface under dynamic loading. <i>Journal of Building Engineering</i> , 2020, 32, 101533.	3.4	4

#	ARTICLE	IF	CITATIONS
289	Simulation Research on the Load Transfer Mechanism of Anchoring System in Soft and Hard Composite Rock Strata under Tensile Loading Conditions. <i>Advances in Materials Science and Engineering</i> , 2020, 2020, 1-20.	1.8	5
290	Interfacial debonding detection in externally bonded bfrp reinforced concrete using stress wave-based sensing approach. <i>Smart Materials and Structures</i> , 2020, 29, 035039.	3.5	26
291	Explicit neural network model for predicting FRP-concrete interfacial bond strength based on a large database. <i>Composite Structures</i> , 2020, 240, 111998.	5.8	70
292	Bond behavior between ASR-damaged concrete and CFRP sheets: Empirical modeling. <i>Journal of Building Engineering</i> , 2020, 29, 101166.	3.4	2
293	Influence of hygrothermal ageing on the mechanical properties of CFRP-concrete joints and of their components. <i>Composite Structures</i> , 2020, 238, 111947.	5.8	22
294	Comprehensive investigation on bond mechanism of embedded through-section fiber-reinforced polymer bars to concrete for structural analysis. <i>Journal of Building Engineering</i> , 2020, 29, 101180.	3.4	12
295	Bonding Performance of Fiber-Reinforced Polymer-to-Concrete Joints under the Effect of Corrosion Cracking. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 342-357.	2.5	1
296	A study of the load transfer behavior of fully grouted rock bolts with analytical modelling. <i>International Journal of Mining Science and Technology</i> , 2020, 30, 105-109.	10.3	19
297	Analysis of interfacial stresses in concrete beams strengthened by externally bonded FRP laminates using composite beam theory. <i>Composite Structures</i> , 2020, 243, 112235.	5.8	8
298	Bond integrity of aramid, basalt and carbon fiber reinforced polymer bonded wood composites at elevated temperature. <i>Composite Structures</i> , 2020, 245, 112342.	5.8	24
299	Combined effects of wettingâ€“drying cycles and sustained load on the behaviour of FRP-strengthened RC beams. <i>Engineering Structures</i> , 2020, 213, 110570.	5.3	25
300	Effect of Subtropical Natural Exposure on the Bond Behavior of FRP-Concrete Interface. <i>Polymers</i> , 2020, 12, 967.	4.5	10
301	Width Effect in FRPâ€“Concrete Debonding Mechanism: A New Formula. <i>Journal of Composites for Construction</i> , 2020, 24, .	3.2	19
302	Effect of Temperature Variation and Pre-Sustained Loading on the Bond between Basalt FRP Sheets and Concrete. <i>Materials</i> , 2020, 13, 1530.	2.9	2
303	Effect of Uâ€“shaped anchorages on concrete cover separation in carbon fiberâ€“reinforced polymerâ€“strengthened beams with notches at the sheet end. <i>Structural Concrete</i> , 2021, 22, 50-68.	3.1	1
304	Predicting fiberâ€“reinforced polymerâ€“concrete bond strength using artificial neural networks: A comparative analysis study. <i>Structural Concrete</i> , 2021, 22, 38-49.	3.1	43
305	Interface bond between FRP systems and substrate: Analytical modeling. <i>Composite Structures</i> , 2021, 257, 112942.	5.8	9
306	Evaluating the bond strength of FRP-to-concrete composite joints using metaheuristic-optimized least-squares support vector regression. <i>Neural Computing and Applications</i> , 2021, 33, 3621-3635.	5.6	20

#	ARTICLE	IF	CITATIONS
307	A new and robust hybrid artificial bee colony algorithm “ ANN model for FRP-concrete bond strength evaluation. Composite Structures, 2021, 257, 113160.	5.8	68
308	A novel strong and durable near-surface mounted (NSM) FRP method with cost-effective fillers. Composite Structures, 2021, 255, 112952.	5.8	6
309	The bond behaviour of CFRP-to-concrete bonded joints under fatigue cyclic loading: An experimental study. Construction and Building Materials, 2021, 273, 121674.	7.2	16
310	Effects of thermal expansion coefficients discrepancy on the CFRP and steel bonding. Construction and Building Materials, 2021, 269, 121356.	7.2	10
311	Effects of adhesive property and thickness on the bond performance between carbon fiber reinforced polymer laminate and steel. Thin-Walled Structures, 2021, 158, 107176.	5.3	43
312	Insights on the adhesive properties and debonding mechanism of CFRP/concrete interface under sulfate environment: From experiments to molecular dynamics. Construction and Building Materials, 2021, 269, 121247.	7.2	29
313	Study of the Bond Capacity of FRCM- and SRG-Masonry Joints. CivilEng, 2021, 2, 68-86.	1.4	5
314	Bonding-Based Approach for Calculation of Shear Resistance of ETS FRP Bars in ETS-Strengthened Beams. Lecture Notes in Civil Engineering, 2021, , 173-185.	0.4	0
315	Experimental study of bond behavior of laminated bamboo plate to concrete interfaces. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1.	3.1	5
316	Experimental and Theoretical Research on Low-Strength Concrete Beams Reinforced with Basalt Fibre-Reinforced Plastic Sheets in a Freeze“Thaw Environment. Arabian Journal for Science and Engineering, 2021, 46, 5121-5134.	3.0	0
317	Bond durability of epoxy and cement- bonded CFRP reinforcement to concrete interfaces subject to water immersion. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1.	3.1	9
318	Finite Element Modeling of Bond Behavior of FRP and Steel Plates. Materials, 2021, 14, 757.	2.9	3
319	Comprehensive study on performance of glass fibers-based concrete. Innovative Infrastructure Solutions, 2021, 6, 1.	2.2	9
320	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
321	Bonding performance of CFRP plate and concrete with soft layer system. IOP Conference Series: Materials Science and Engineering, 2021, 1098, 022012.	0.6	0
322	An empirical FRP-concrete bond-slip model for externally-bonded reinforcement on grooves. Construction and Building Materials, 2021, 281, 122575.	7.2	25
323	Full-range bondstress-slip model for externally bonded FRP plates including a frictional component. Composite Structures, 2021, 262, 113372.	5.8	7
324	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

#	ARTICLE	IF	CITATIONS
325	Testing method of critical energy release rate for interfacial mode II crack. <i>Engineering Fracture Mechanics</i> , 2021, 248, 107708.	4.3	7
326	Bond Behavior of Carbon Fabric-Reinforced Matrix Composites: Geopolymeric Matrix versus Cementitious Mortar. <i>Buildings</i> , 2021, 11, 207.	3.1	11
327	Assessment of interfacial fracture energy between concrete and CFRP under water immersion conditions. <i>Construction and Building Materials</i> , 2021, 285, 122942.	7.2	7
328	A displacement based approach for the analysis, development, and design of reinforced concrete. <i>Structural Concrete</i> , 2021, 22, 2105-2125.	3.1	0
329	Distinguished bond behaviour of CFRP sheets in unbonded post-tensioned reinforced concrete beams versus single-lap shear tests. <i>Engineering Structures</i> , 2021, 234, 111794.	5.3	25
330	Pressure-dependent bond stress-slip model for sand-coated FRP-concrete interface. <i>Composite Structures</i> , 2021, 263, 113719.	5.8	11
331	Experimental verification of 2- and 3-D numerical models for bond-slip behavior of CFRP-concrete. <i>Construction and Building Materials</i> , 2021, 287, 122814.	7.2	13
332	Influence of concrete compressive strength on the debonding failure of externally bonded carbon fiber reinforced polymers. <i>Journal of Building Pathology and Rehabilitation</i> , 2021, 6, 1.	1.5	3
333	A coupled dynamic cohesive zone model for FRP-concrete mixed-mode separation. <i>Composite Structures</i> , 2021, 268, 113872.	5.8	8
334	ANN-Based Model for the Prediction of the Bond Strength between FRP and Concrete. <i>Fibers</i> , 2021, 9, 46.	4.0	10
335	Bond behavior of CFRP-concrete bonding interface considering degradation of epoxy primer under wet-dry cycles. <i>Construction and Building Materials</i> , 2021, 292, 123286.	7.2	20
336	Rehabilitation of RC flexural members in shear with externally bonded fiber-reinforced polymer composites: present status and future need. <i>Archives of Civil and Mechanical Engineering</i> , 2021, 21, 1.	3.8	6
337	A Theoretical Model for Debonding Prediction in the RC Beams Externally Strengthened with Steel Strip and Inorganic Matrix. <i>Materials</i> , 2021, 14, 4961.	2.9	1
338	Stochastic cohesive interface analysis of layer debonding. <i>International Journal of Solids and Structures</i> , 2021, 226-227, 111081.	2.7	3
339	Full-range behavior of FRP-to-concrete bonded joints subjected to combined effects of loading and temperature variation. <i>Engineering Fracture Mechanics</i> , 2021, 254, 107928.	4.3	20
340	Bond Properties of Carbon Fiber Reinforced Polymer and Corrosion-Cracked Reinforced Concrete Interface: Experimental Test and Nonlinear Degenerate Interface Law. <i>Materials</i> , 2021, 14, 5333.	2.9	3
341	Residual bond strengths of epoxy and cement-bonded CFRP reinforcements to concrete interfaces after elevated temperature exposure. <i>Fire Safety Journal</i> , 2021, 124, 103393.	3.1	14
342	Numerical Modeling of Response of CFRP-Concrete Interfaces Subjected to Fatigue Loading. <i>Journal of Composites for Construction</i> , 2021, 25, .	3.2	38

#	ARTICLE	IF	CITATIONS
343	Ensemble learning based approach for FRP-concrete bond strength prediction. Construction and Building Materials, 2021, 302, 124230.	7.2	36
344	Bond behavior of fully bonded CFRP-concrete interface with improved double shear tests. Journal of Building Engineering, 2021, 43, 102866.	3.4	5
345	Experimental Investigation and Modeling of FRP-Concrete Joint Bond Strength Based on Failure Depth. Journal of Composites for Construction, 2021, 25, .	3.2	16
346	Generic assessment of effective bond length of FRP-concrete joint based on the initiation of debonding: Experimental and analytical investigation. Composite Structures, 2021, 277, 114625.	5.8	24
347	Strength of Carbon Fiber-Reinforced Polymer (CFRP) Sheets Bonded to Concrete with CFRP Spike Anchors. ACI Structural Journal, 2021, 118, .	0.2	1
348	Computer Simulation of Bent Reinforced Concrete Elements with External Composite Reinforcement. Lecture Notes in Civil Engineering, 2021, , 153-159.	0.4	2
350	STATE OF THE ART REPORT ON BONDED TYPE FRP REINFORCEMENTS FOR EXISTING CONCRETE MEMBERS. Journal of Japan Society of Civil Engineers Ser A1 (Structural Engineering & Earthquake Engineering) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5		
351	The Bond-Slip Relationship at FRP-to-Brick Interfaces under Dynamic Loading. Materials, 2021, 14, 545.	2.9	5
352	Long-Term Performance of External Bonding Under Moisture and Temperature Effects. , 2018, , 1867-1876.		2
354	Experimental analysis of different anchorage solutions for laminated carbon fiber-reinforced polymers adhesively bonded to timber. Composite Structures, 2020, 243, 112228.	5.8	12
355	Simple Bond Stress and Slip Relationship between CFRP Plank and Cast-in-Place DFRCC. Journal of the Korean Society for Advanced Composite Structures, 2016, 7, 25-31.	0.3	2
356	A critical steel yielding length model for predicting intermediate crack-induced debonding in FRP-strengthened RC members. Steel and Composite Structures, 2008, 8, 457-473.	1.3	7
357	Study on push-out test and bond stress-slip relationship of circular concrete filled steel tube. Steel and Composite Structures, 2010, 10, 317-329.	1.3	9
358	Investigation of the effects of connectors to enhance bond strength of externally bonded steel plates and CFRP laminates with concrete. Steel and Composite Structures, 2016, 20, 1275-1303.	1.3	4
359	Intermediate crack-induced debonding analysis for RC beams strengthened with FRP plates. Structural Engineering and Mechanics, 2015, 56, 473-490.	1.0	1
360	Machine Learning Assessment of Fiber-Reinforced Polymer-Strengthened and Reinforced Concrete Members. ACI Structural Journal, 2020, 117, .	0.2	3
361	Axially Loaded Steel Columns Strengthened with CFRP. Jordan Journal of Civil Engineering, 2014, 8, 59-69.	0.2	12
362	Simulation of Concrete Beams Strengthened by Embedded Through-section Steel and GFRP Bars with Newly Developed Bond Model. Journal of Advanced Concrete Technology, 2020, 18, 364-385.	1.8	13

#	ARTICLE	IF	CITATIONS
363	Basic Bond Characteristics of FRP Strand Sheet-Concrete Interface with Polyurea Resin. Journal of Advanced Concrete Technology, 2020, 18, 505-520.	1.8	1
364	Moisture and Temperature Effects on Interface Mechanical Properties for External Bonding. , 2016, , .		2
366	Effect of temperature variation on the plate-end debonding of FRP-strengthened beams: A theoretical study. Advances in Structural Engineering, 2022, 25, 290-305.	2.4	11
367	Consideration of data correlation to estimate FRP-to-concrete bond capacity models. Construction and Building Materials, 2021, 308, 125106.	7.2	5
368	A unified bond-slip model for the interface between FRP and steel. Composites Part B: Engineering, 2021, 227, 109380.	12.0	17
369	Bonding characteristics between FRP and concrete substrates. , 2009, , .		0
370	Debonding Behavior of Skew FRP-Bonded Concrete Joints. , 2011, , 529-532.		1
371	Moment-Shear Interaction Mechanism for Carbon Fiber-Reinforced Polymer-Strengthened Reinforced Concrete Beams in Flexure. ACI Structural Journal, 2014, 111, .	0.2	1
372	An Experimental Study of Bond Stress between Concrete and Various Kinds of FRP Plank used as a Permanent Formwork. Journal of the Korea Institute for Structural Maintenance Inspection, 2015, 19, 92-103.	0.1	0
373	EFFECT OF LAMINATE STIFFNESS ON FAILURE MODE IN FRP WRAPPED T BEAMS. International Journal of Research in Engineering and Technology, 2015, 04, 510-520.	0.1	7
374	Simple Bond Stress-Slip Experimental Model between GFRP Plate and Cast in-place HPCRCC. , 2016, , .		0
375	The analysis of efficiency of GFRP and CFRP covers to reinforce concrete beams under various conditions. International Journal of Advanced and Applied Sciences, 2016, 3, 94-103.	0.4	0
376	Combined Effects of Sustained Load and Temperature on Pull-off Strength and Creep Response between CFRP Sheet and Concrete Using Digital Image Processing. Journal of the Korea Concrete Institute, 2016, 28, 535-544.	0.2	1
377	Mechanical Response of the Composite Materialâ€™Concrete Interface in FRP-Strengthened Concrete Elements: Finite Element Simulation. Journal of Mechanics Engineering and Automation, 2018, 8, .	0.0	0
379	Effect of Curing Conditions on Bond Behavior between Carbon Fiber-Reinforced Polymer and Concrete. ACI Materials Journal, 2019, 116, .	0.2	0
380	Experimental Investigation on the Interfacial Debonding between FRP Sheet and Concrete under Medium Strain Rate. International Journal of Polymer Science, 2019, 2019, 1-13.	2.7	55
381	Analytical Model for Bond Behavior Prediction of CFRP-Concrete Joints with End Anchorage. Polymers, 2021, 13, 3684.	4.5	3
382	Construction of Analytical Coupling Model in Reinforced Concrete Structures in the Presence of Discrete Cracks. Lecture Notes in Mechanical Engineering, 2022, , 107-120.	0.4	3

#	ARTICLE	IF	CITATIONS
383	RC beams strengthened by prestressed CFRP plate subjected to sustained loading and continuous wetting condition: Flexural behaviour. <i>Construction and Building Materials</i> , 2021, 311, 125290.	7.2	11
384	Bond strength evaluation methods of RC members strengthened with FRP composites. <i>Engineering Structures</i> , 2021, 249, 113357.	5.3	4
385	Modeling of stress-strain state of external reinforcement of single-span reinforced concrete beams. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 775, 012133.	0.6	1
386	Prediction of Shear Contribution for the FRP Strengthening Systems in RC Beams: A Simple Bonding-based Approach. <i>Journal of Advanced Concrete Technology</i> , 2020, 18, 600-617.	1.8	15
387	Generalized Method of Determining the Local Bond Slip Relationship of the Reinforcement Externally Bonded to Concrete. <i>Lecture Notes in Civil Engineering</i> , 2022, , 224-231.	0.4	5
388	Interfacial failure of circular or tubular hybrid bonded joints: A theoretical description. <i>Engineering Failure Analysis</i> , 2022, 132, 105936.	4.0	7
389	Shear transfer mechanism of perforated web connection for concrete encased steel structures. <i>Engineering Structures</i> , 2022, 252, 113418.	5.3	7
390	Influence of the Loading Mode on the Strength and Deformability of Reinforced Carbon Plastics. <i>Lecture Notes in Civil Engineering</i> , 2022, , 381-389.	0.4	1
391	Investigation on interfacial properties and calculation models of bamboo scrimber-to-concrete bonding joint. <i>Construction and Building Materials</i> , 2021, 313, 125530.	7.2	10
392	An Optimized Neuro-Bee Algorithm Approach to Predict the FRP-Concrete Bond Strength of RC Beams. <i>IEEE Access</i> , 2022, 10, 3790-3806.	4.2	26
393	Investigating the effect of steel fiber content on bond behavior between externally bonded CFRP-to-concrete joints. <i>Structures</i> , 2022, 36, 565-579.	3.6	5
394	A nonlinear analytical model for predicting bond behavior of FRP-to-concrete/steel substrate joints subjected to temperature variations. <i>Construction and Building Materials</i> , 2022, 320, 126225.	7.2	6
395	Uncertainty in debonding of layered structures with adhesive layers. <i>European Journal of Mechanics, A/Solids</i> , 2022, 93, 104507.	3.7	3
396	Ensemble Machine Learning-Based Approach for Predicting of FRP-Concrete Interfacial Bonding. <i>Mathematics</i> , 2022, 10, 231.	2.2	22
397	A semi-empirical model for bond strength between FRP composites and concrete. <i>Magazine of Concrete Research</i> , 2022, 74, 790-809.	2.0	3
398	Emerging anchored FRP systems bonded to steel subjected to monotonic and cyclic loading: A numerical study. <i>Engineering Fracture Mechanics</i> , 2022, 261, 108250.	4.3	6
399	Single-side J-integral method for interfacial cracks. <i>International Journal of Solids and Structures</i> , 2022, 241, 111476.	2.7	3
400	Influence of Coarse Aggregate Size on the Bonding between CFRP Sheets and Metakaolin-Based Geopolymer Concrete and Ordinary Concrete. <i>Journal of Composites for Construction</i> , 2022, 26, .	3.2	4

#	ARTICLE	IF	CITATIONS
401	Prediction of Bonding Strength of Externally Bonded SRP Composites Using Artificial Neural Networks. <i>Materials</i> , 2022, 15, 1314.	2.9	4
402	Experimental investigation on the effect of geopolymer adhesive on the bond behavior between <sc>CFRP</sc> and concretes. <i>Polymer Composites</i> , 0, , .	4.6	8
403	Flexural strengthening of reinforced concrete beams using geopolymer-bonded small-diameter CFRP bars. <i>Engineering Structures</i> , 2022, 256, 113992.	5.3	41
404	Probabilistic models for predicting bond strength of externally bonded FRP-to-concrete joints based on Bayesian inference. <i>Construction and Building Materials</i> , 2022, 329, 127194.	7.2	2
405	Bayesian optimization for selecting efficient machine learning regressors to determine bond-slip model of FRP-to-concrete interface. <i>Structures</i> , 2022, 39, 351-364.	3.6	9
406	Bond degradation and EMI-based monitoring of CFRP to concrete interfaces exposed to wet-dry cycling. <i>Engineering Structures</i> , 2022, 260, 114225.	5.3	11
408	Analytical modeling of composite members. , 2022, , 169-230.		0
409	Effects of Different Groove Classes Used in Externally Bonded Reinforcement on Grooves Joints on Carbon Fiber-Reinforced Polymer-to-Concrete Bond Behavior. <i>ACI Structural Journal</i> , 2022, , .	0.2	2
410	Bond between reinforcement and concrete. , 2022, , 129-168.		0
411	Bondâ€™slip model considering the interface shear stress reversal phenomenon and data dispersion for FRPâ€™concrete interface. <i>Engineering Fracture Mechanics</i> , 2022, 268, 108492.	4.3	3
412	Effects of resin pre-coating treatment and fibre reinforcement on adhesive bonding between CFRP sheet and concrete. <i>Composite Structures</i> , 2022, 292, 115610.	5.8	9
413	Static and Fatigue Bond Characteristics of Interfaces between CFRP Sheets and Frost Damage Experienced Concrete. , 2005, , .		2
414	A New Set-Up for FRP-Concrete Stable Delamination Test. , 2005, , .		0
415	Influence of Bond Behavior on the Cross Sectional Forces in Flexural RC Members Strengthened with CFRP. , 2005, , .		0
416	Precast RC Blocks with Connections Composed of Steel Shear Keys and CFRP Sheets for the Superstructure of Temporary Bridges in a Postdisaster Situation. <i>Journal of Bridge Engineering</i> , 2022, 27, .	2.9	0
417	Effect of temperature variation on the plate-end debonding of FRP-strengthened steel beams: Coupled mixed-mode cohesive zone modeling. <i>Engineering Fracture Mechanics</i> , 2022, 270, 108583.	4.3	7
418	Durability of fibre-reinforced polymer-wood composite members: An overview. <i>Composite Structures</i> , 2022, 295, 115827.	5.8	27
419	The shear stress reverse phenomenon in FRP sheetâ€™concrete interface. <i>Construction and Building Materials</i> , 2022, 344, 128192.	7.2	3

#	ARTICLE	IF	CITATIONS
420	Analytical and Numerical Investigation of Embedded Through-section GFRP-Strengthened RC Beams with a Developed Bonding-based Model. <i>Engineering Fracture Mechanics</i> , 2022, 271, 108595.	4.3	2
421	Nano-CaCO ₃ enhances PVA fiber-matrix interfacial properties: an experimental and molecular dynamics study. <i>Molecular Simulation</i> , 0, , 1-15.	2.0	3
422	Fatigue Life Prediction of CFRP-Strengthened RC Beams with Flexural Crack under Hygrothermal Environments. <i>Materials</i> , 2022, 15, 4681.	2.9	2
423	Smart ensemble machine learner with hyperparameter-free for predicting bond capacity of FRP-to-concrete interface: Multi-national data. <i>Construction and Building Materials</i> , 2022, 345, 128158.	7.2	4
424	Assessment of Diagonal Macrocrack-Induced Debonding Mechanisms in FRP-Strengthened RC Beams. <i>Journal of Composites for Construction</i> , 2022, 26, .	3.2	56
425	Bond Strength of FRP Laminates to Concrete: State-of-the-Art Review. , 0, 9, 45-61.		61
426	Using end buckles to improve debonding resistance in FRP-bonded precracked RC beams. <i>Advances in Structural Engineering</i> , 2023, 26, 108-120.	2.4	4
427	Experimental Study on the Durability of Steel Anchors for Prestressed CFRP Laminates under Accelerated Galvanostatic Corrosion. <i>Materials</i> , 2022, 15, 5665.	2.9	4
428	Generalized evaluation of the effects of wet/dry cycling on CFRP-concrete bond subjected to low-cycle fatigue loading. <i>Engineering Structures</i> , 2022, 269, 114762.	5.3	9
429	Fracture characteristics and stress transfer length of CFRP-concrete bond under field conditioning. <i>International Journal of Adhesion and Adhesives</i> , 2022, 118, 103231.	2.9	4
430	Three-dimensional numerical investigation of mixed-mode debonding of FRP-concrete interface using a cohesive zone model. <i>Construction and Building Materials</i> , 2022, 350, 128818.	7.2	37
431	Development of probabilistic FRP-to-concrete bond strength models for externally-bonded reinforcement on grooves: Bayesian approach. <i>Construction and Building Materials</i> , 2022, 350, 128857.	7.2	2
432	Enhancing bonding behavior between carbon fiber-reinforced polymer plates and concrete using carbon nanotube reinforced epoxy composites. <i>Case Studies in Construction Materials</i> , 2022, 17, e01407.	1.7	7
433	CFRP-strengthened RC beams under fire condition: numerical model. <i>Revista IBRACON De Estruturas E Materiais</i> , 2023, 16, .	0.6	0
434	Experimental and numerical analysis of CFRP-concrete joint bond behavior after exposure to wet-dry cycles. <i>Composite Structures</i> , 2023, 303, 116273.	5.8	4
435	Interfacial behavior of externally bonded BFRP-to-concrete joints using different epoxy adhesives. <i>International Journal of Adhesion and Adhesives</i> , 2022, 119, 103277.	2.9	1
436	A New Bond-Slip Model of Hybrid Bonded FRP-to-Concrete Joints. <i>KSCE Journal of Civil Engineering</i> , 0, , .	1.9	1
437	Shear strength model of the reinforced concrete beams with embedded through-section strengthening bars. <i>Frontiers of Structural and Civil Engineering</i> , 2022, 16, 843-857.	2.9	2

#	ARTICLE	IF	CITATIONS
438	Effect of concrete heterogeneity on interfacial bond behavior of externally bonded FRP-to-concrete joints. <i>Construction and Building Materials</i> , 2022, 359, 129483.	7.2	3
439	Prediction of FRP-concrete interfacial bond strength based on machine learning. <i>Engineering Structures</i> , 2023, 274, 115156.	5.3	27
440	A review on the advances of the study on FRP-Concrete bond under hygrothermal exposure. <i>Construction and Building Materials</i> , 2023, 363, 129818.	7.2	7
441	Experimental study on AFRP-to-concrete bond behavior subjected to underground water. <i>Composite Structures</i> , 2023, 306, 116565.	5.8	3
442	Analytical and Numerical Study on the Performance of the Curved Surface of a Circular Tunnel Reinforced with CFRP. <i>Buildings</i> , 2022, 12, 2042.	3.1	0
443	Bond Performance of CFRP/Steel Double Strap Joint at Elevated Temperatures. <i>Sustainability</i> , 2022, 14, 15537.	3.2	1
444	Electrochemical impedance based interfacial monitoring for concrete beams strengthened with CFRP subjected to wetting-drying cycling and sustained loading. <i>Construction and Building Materials</i> , 2023, 366, 130238.	7.2	3
445	Effect of defects in adhesive layer on the interfacial bond behaviors of externally bonded CFRP-to-concrete joints. <i>Engineering Structures</i> , 2023, 278, 115495.	5.3	8
446	EMI-based interfacial damage evolution of CFRP plates-strengthened RC beams under low-cycle fatigue loading and wetting/drying cycles. <i>Composite Structures</i> , 2023, 307, 116653.	5.8	4
447	A new flexural strength model of CFRP-strengthened RC beams with intermediate crack induced debonding failure. <i>Composite Structures</i> , 2023, 308, 116681.	5.8	3
448	Experimental evaluation of FRP-concrete bond using externally-bonded reinforcement on grooves (EBROG) method. <i>Composite Structures</i> , 2023, 310, 116693.	5.8	7
449	Multi-side Digital Image Correlation (DIC) evaluation of CFRP bonded to poplar timber. <i>Mechanics of Advanced Materials and Structures</i> , 0, , 1-10.	2.6	3
450	Influence of uniform temperature variations on hybrid bonded joints with a circular or tubular cross-sectional area. <i>Mechanics of Materials</i> , 2023, 179, 104600.	3.2	1
451	Hyperparameter optimization for interfacial bond strength prediction between fiber-reinforced polymer and concrete. <i>Structures</i> , 2023, 51, 573-601.	3.6	1
452	Evaluation of Existing FRP-to-Concrete Bond Strength Models Using Data Envelopment Analysis. <i>Journal of Composites for Construction</i> , 2023, 27, .	3.2	3
453	Bonding behavior of interface between reinforced concrete after fire and carbon fiber-reinforced polymer. <i>Construction and Building Materials</i> , 2023, 382, 131289.	7.2	0
454	Experimental and Analytical Study of Bond Stress-Slip Behavior at the CFRP-to-Concrete Interface. <i>Journal of Composites for Construction</i> , 2023, 27, .	3.2	3
455	Assessment of fib Bulletin 90 Design Provisions for Intermediate Crack Debonding in Flexural Concrete Elements Strengthened with Externally Bonded FRP. <i>Polymers</i> , 2023, 15, 769.	4.5	0

#	ARTICLE	IF	CITATIONS
456	Reliability of Externally Bonded FRP-to-Concrete Joints with Epoxy Interlocking Enhancement. Journal of Composites for Construction, 2023, 27, .	3.2	0
457	Semi-empirical models for predicting mode-II bond indicators between FRP and concrete. Magazine of Concrete Research, 2023, 75, 811-835.	2.0	0
458	Debonding model for nonlinear Fe-SMA strips bonded with nonlinear adhesives. Engineering Fracture Mechanics, 2023, 282, 109201.	4.3	7
459	Laboratory Tests on Structural Adhesive Joints. Springer Tracts in Civil Engineering, 2023, , 145-171.	0.5	0
460	Innovative Durability Tests on Construction Materials. Springer Tracts in Civil Engineering, 2023, , 53-73.	0.5	0
461	Development of a local bond shear stress-slip model of RC beams externally strengthened with FRP materials. Journal of Composite Materials, 2023, 57, 2261-2285.	2.4	1
462	Finite element modeling of bond behavior between heat-damaged concrete and carbon fiber-reinforced polymer sheets. Journal of Structural Integrity and Maintenance, 2023, 8, 121-132.	1.5	0
463	A spike-shaped anchorage for steel reinforced polymer (SRP)-strengthened concrete structures. Construction and Building Materials, 2023, 389, 131710.	7.2	0
464	Mesoscale modelling of concrete damage in FRP-concrete debonding failure. Engineering Structures, 2023, 289, 116310.	5.3	0
465	New equations of fibre reinforced polymers-concrete bond strength and bond-slip law based on mesoscale simulations. Advances in Structural Engineering, 0, , 136943322311810.	2.4	0
466	Interfacial stresses of beams hybrid strengthened by steel plate with outside taper and FRP pocket. Journal of Building Engineering, 2023, 75, 107034.	3.4	0
467	Estimation of the Ultimate Strength of FRP Strips-to-Masonry Substrates Bond. Applied Sciences (Switzerland), 2023, 13, 6955.	2.5	0
468	Analytical Modelling Rock Bolts with a Closed Nonlinear Model. SpringerBriefs in Applied Sciences and Technology, 2023, , 99-111.	0.4	0
469	Improving bonding behavior between basalt fiber-reinforced polymer sheets and concrete using multi-wall carbon nanotubes modified epoxy composites. Case Studies in Construction Materials, 2023, 18, e02216.	1.7	0
470	Nonlinear Semianalytical Prediction of Debonding at the FRP-Generic Material Interface with Mechanical End Anchorages. Journal of Composites for Construction, 2023, 27, .	3.2	0
471	ASSESSMENT ON BOND STRENGTH OF CFRP SHEET BONDED TO CONCRETE FOCUSED ON SHEET STIFFNESS. , 2023, 79, n/a.		0
472	On the Effect of Operating Conditions on the Coupling of Non-metallic External Reinforcement with Reinforced Concrete Structure. Lecture Notes in Civil Engineering, 2023, , 235-242.	0.4	0
473	Numerical study of the FRP-concrete bond behavior under thermal variations. Curved and Layered Structures, 2023, 10, .	1.3	1

#	ARTICLE	IF	CITATIONS
474	Bond behavior of FRP-concrete wet-bonding interface under lateral confinement. <i>Engineering Structures</i> , 2023, 292, 116536.	5.3	3
475	Bond behavior of CFRP sheets-to-steel shear joints with different steel surface treatments. <i>Composite Structures</i> , 2023, 322, 117376.	5.8	2
476	Nonlinear FE analysis of RC slabs strengthened with prestressed EB CFRP strips under high-cyclic fatigue loading. <i>Structures</i> , 2023, 56, 104953.	3.6	0
477	Theoretical analysis and numerical simulation of axial tensile behavior of pipe joints based on bi-linear cohesive bond-slip model. <i>Engineering Computations</i> , 0, , .	1.4	0
478	Experimental and 3D Numerical Study on CFRP-Concrete Interface Under Dynamic Loading. <i>International Journal of Civil Engineering</i> , 0, , .	2.0	0
479	Study on bonding behavior of FRP grid-ECC composite layer and concrete with quantitative interface treatment. <i>Engineering Structures</i> , 2023, 294, 116768.	5.3	4
480	Phenomenological comparison between the flexural performance of steel- and CFRP-reinforced concrete elements. <i>Engineering Structures</i> , 2023, 294, 116755.	5.3	5
481	Verification of Composite Beam Theory with Finite Element Model for Pretensioned Concrete Members with Prestressing FRP Tendons. <i>Materials</i> , 2023, 16, 6376.	2.9	1
482	Bond behaviour of Fibre Reinforced Polymers applied on masonry substrate: Analysis based on acoustic emission, digital image correlation and analytical modelling. <i>Construction and Building Materials</i> , 2023, 403, 132921.	7.2	2
483	Numerical Modeling of Single-Lap Shear Bond Tests for Composite-Reinforced Mortar Systems. <i>Journal of Composites Science</i> , 2023, 7, 329.	3.0	0
484	Numerical Study on the Influence of Bubble Defection on the Bond Strength of Externally Bonded Fiber-Reinforced Polymer-to-Concrete Joints. <i>Buildings</i> , 2023, 13, 2479.	3.1	0
485	Improved Prediction for Bond Strength of Deformed Bars in Concrete Externally Confined with Fiber-Reinforced Polymer. <i>ACI Materials Journal</i> , 2023, , .	0.2	0
486	A robust and efficient 3D mixed-mode cohesive interface model for predicting the debonding failure in FRP strengthened concrete structures. <i>Composite Structures</i> , 2023, 324, 117571.	5.8	0
487	Bond tests on concrete elements externally bonded with steel plates and assessment of bond strength models. <i>Engineering Structures</i> , 2023, 296, 116835.	5.3	1
488	Experimental investigation and analytical prediction on bond behaviour of CFRP-to-concrete interface with FRP anchors. <i>Case Studies in Construction Materials</i> , 2023, 19, e02510.	1.7	1
489	Digital-image based performance analysis of CFRP-concrete interface bond under anchorage. <i>Structures</i> , 2023, 58, 105345.	3.6	0
490	A Simplified Analytical Model for FRP-Strengthened Curved Brittle Substrates Using the Multi-Linear Bond-Slip Law. <i>Buildings</i> , 2023, 13, 2579.	3.1	0
491	Development of Efficient Prediction Model of FRP-to-Concrete Bond Strength Using Curve Fitting and ANFIS Methods. <i>Arabian Journal for Science and Engineering</i> , 0, , .	3.0	1

#	ARTICLE	IF	CITATIONS
492	Generalised analytical solutions for linear and non-linear bond-slip models for externally bonded FRP to a concrete substrate. <i>Engineering Structures</i> , 2024, 298, 117025.	5.3	0
493	Sensitivities of Interfacial Bond-Slip Properties in Predicting the Behaviour of FRP-Strengthened Concrete. <i>Lecture Notes in Civil Engineering</i> , 2024, , 81-88.	0.4	0
494	Study on the relationship between the maximum anchoring force and anchoring length of resin-anchored bolts of hard surrounding rocks based on the main slip interface. <i>Construction and Building Materials</i> , 2023, 409, 134000.	7.2	0
495	Mixed-Mode Debonding in CFRP-to-Steel Fiber-Reinforced Concrete Joints. <i>Journal of Composites for Construction</i> , 2024, 28, .	3.2	10
496	Fatigue bond behavior of FRP-to-concrete joints with various bonding adhesives. <i>Engineering Structures</i> , 2024, 301, 117311.	5.3	3
497	Experimental Study on Bond Behavior between CFRP and Concrete with a Convex-Circular Arc Interface. <i>Buildings</i> , 2023, 13, 3077.	3.1	0
498	A method using information theory to select and rank existing FRP/concrete bond strength models. <i>Construction and Building Materials</i> , 2023, 409, 133946.	7.2	0
499	Dynamic tensile behavior of fiber reinforced materials based on fiber layering modeling. <i>Advances in Structural Engineering</i> , 2024, 27, 355-372.	2.4	0
500	Investigation on interfacial shear performance of concrete strengthened with bonded steel plate. <i>Journal of Building Engineering</i> , 2024, 82, 108343.	3.4	0
502	Analysis and design recommendations for structures strengthened by prestressed bonded Fe-SMA. <i>Engineering Structures</i> , 2024, 303, 117513.	5.3	0
503	Nonlinear bond-slip model for fiber-reinforced polymer laminates externally bonded to thermally damaged concrete. <i>Advances in Structural Engineering</i> , 2024, 27, 585-605.	2.4	0
504	Degradation of Interfacial Behaviour Between AFRP and Concrete Under Sulfate Attack. <i>Lecture Notes in Civil Engineering</i> , 2024, , 337-344.	0.4	0
505	Artificial neural network optimized with PSO to estimate the interfacial properties between FRP and concrete surface. <i>Advances in Computers</i> , 2024, , 497-527.	1.6	0
506	Three-dimensional finite element modeling of debonding failure of skew FRP-bonded concrete joints. <i>Engineering Structures</i> , 2024, 303, 117537.	5.3	0
507	Enhancing bonding behavior between basalt fiber-reinforced polymer sheets and concrete using resin pre-coating method and multi-wall carbon nanotubes. <i>Journal of Building Engineering</i> , 2024, 84, 108695.	3.4	0
508	Experimental study on the mechanical properties of reinforced engineered cementitious composites. <i>Case Studies in Construction Materials</i> , 2024, 20, e02969.	1.7	0
509	Investigation of the CFRP-concrete interfacial performance under adhesive curing using the PZT-based wave propagation technique. <i>Construction and Building Materials</i> , 2024, 418, 135375.	7.2	0
510	Textile-reinforced mortar-masonry bond strength calibration using machine learning methods. , 2024, , 301-315.		0

#	ARTICLE	IF	CITATIONS
511	An optimized prediction of FRP bars in concrete bond strength employing soft computing techniques. Journal of Building Engineering, 2024, 86, 108883.	3.4	0
512	Research on the Bonding Performance of the CFRP-Concrete Interface Based on Colloid Thermosensitivity. Journal of Materials in Civil Engineering, 2024, 36, .	2.9	0
513	Experimental study on the interfacial bond behavior between CFRP and concrete using the hybrid bonding technique. Construction and Building Materials, 2024, 419, 135477.	7.2	0
514	Durability of FRP-to-concrete bonded joints subjected to 110 months accelerated laboratory and field exposure. Engineering Structures, 2024, 305, 117681.	5.3	0
515	New Mesoscale Phase Field Model for Analysis of FRP-to-Concrete Bonded Joints. Journal of Composites for Construction, 2024, 28, .	3.2	0
516	Aggregate Influence on MKG Concrete. , 2024, , 201-254.		0