

Lluís Torres Llinàs

List of Publications by Year in descending order

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72
papers

2,316
citations

218677

26
h-index

214800

47
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74
all docs

74
docs citations

74
times ranked

1251
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental study of bond behaviour between concrete and FRP bars using a pull-out test. Composites Part B: Engineering, 2009, 40, 784-797.	12.0	325
2	Flexural response of reinforced concrete (RC) beams strengthened with near surface mounted (NSM) fibre reinforced polymer (FRP) bars. Composite Structures, 2014, 109, 8-22.	5.8	166
3	An experimental study of the flexural behaviour of GFRP RC beams and comparison with prediction models. Composite Structures, 2009, 91, 286-295.	5.8	125
4	An experimental study of different factors affecting the bond of NSM FRP bars in concrete. Composite Structures, 2013, 99, 350-365.	5.8	108
5	Experimental and analytical investigation into the flexural performance of RC beams with partially and fully bonded NSM FRP bars/strips. Composite Structures, 2015, 122, 113-126.	5.8	97
6	Experimental study on crack width and crack spacing for Glass-FRP reinforced concrete beams. Engineering Structures, 2017, 131, 231-242.	5.3	82
7	Micromechanics of hemp strands in polypropylene composites. Composites Science and Technology, 2012, 72, 1209-1213.	7.8	75
8	Comparative analysis of deformations and tension-stiffening in concrete beams reinforced with GFRP or steel bars and fibers. Composites Part B: Engineering, 2013, 50, 158-170.	12.0	73
9	Cracking and deflections in GFRP RC beams: An experimental study. Composites Part B: Engineering, 2013, 55, 580-590.	12.0	63
10	Effect of axial stiffness of NSM FRP reinforcement and concrete cover confinement on flexural behaviour of strengthened RC beams: Experimental and numerical study. Engineering Structures, 2018, 173, 987-1001.	5.3	63
11	Effect of different material and construction details on the bond behaviour of NSM FRP bars in concrete. Construction and Building Materials, 2013, 38, 890-902.	7.2	61
12	Flexural behaviour of FRP reinforced concrete beams strengthened with NSM CFRP strips. Composite Structures, 2020, 241, 112059.	5.8	58
13	Tension-Stiffening Model for Cracked Flexural Concrete Members. Journal of Structural Engineering, 2004, 130, 1242-1251.	3.4	57
14	Design for SLS according to fib Model Code 2010. Structural Concrete, 2013, 14, 99-123.	3.1	55
15	Analysis of tensile and flexural modulus in hemp strands/polypropylene composites. Composites Part B: Engineering, 2013, 47, 339-343.	12.0	52
16	Bond behaviour between recycled aggregate concrete and glass fibre reinforced polymer bars. Construction and Building Materials, 2016, 106, 449-460.	7.2	51
17	Experimental study of bond-slip of GFRP bars in concrete under sustained loads. Composites Part B: Engineering, 2015, 74, 42-52.	12.0	46
18	Experimental study of immediate and time-dependent deflections of GFRP reinforced concrete beams. Composite Structures, 2013, 96, 279-285.	5.8	43

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19	Effect of sustained loading and environmental conditions on the creep behavior of an epoxy adhesive for concrete structures strengthened with CFRP laminates. <i>Composites Part B: Engineering</i> , 2017, 129, 88-96.	12.0	43
20	Full-Scale Shaking Table Tests on a Substandard RC Building Repaired and Strengthened with Post-Tensioned Metal Straps. <i>Journal of Earthquake Engineering</i> , 2014, 18, 187-213.	2.5	42
21	EXPERIMENTAL STUDY OF THE INFLUENCE OF ADHESIVE PROPERTIES AND BOND LENGTH ON THE BOND BEHAVIOUR OF NSM FRP BARS IN CONCRETE. <i>Journal of Civil Engineering and Management</i> , 2016, 22, 808-817.	3.5	34
22	An EMI-Based Clustering for Structural Health Monitoring of NSM FRP Strengthening Systems. <i>Sensors</i> , 2019, 19, 3775.	3.8	34
23	Effect of material properties on long-term deflections of GFRP reinforced concrete beams. <i>Construction and Building Materials</i> , 2013, 41, 99-108.	7.2	33
24	Short and long-term cracking behaviour of GFRP reinforced concrete beams. <i>Composites Part B: Engineering</i> , 2015, 77, 223-231.	12.0	28
25	Deformation analysis of reinforced concrete ties: Representative geometry. <i>Structural Concrete</i> , 2017, 18, 634-647.	3.1	27
26	Experimental study and code predictions of fibre reinforced polymer reinforced concrete (FRP RC) tensile members. <i>Composite Structures</i> , 2011, 93, 2511-2520.	5.8	26
27	Numerical simulation of bond-slip interface and tension stiffening in GFRP RC tensile elements. <i>Composite Structures</i> , 2016, 153, 504-513.	5.8	26
28	Influence of curing, post-curing and testing temperatures on mechanical properties of a structural adhesive. <i>Construction and Building Materials</i> , 2022, 324, 126698.	7.2	26
29	DESIGN OF FRP REINFORCED CONCRETE BEAMS FOR SERVICEABILITY REQUIREMENTS. <i>Journal of Civil Engineering and Management</i> , 2012, 18, 843-857.	3.5	24
30	Analysis of cracking behaviour and tension stiffening in FRP reinforced concrete tensile elements. <i>Composites Part B: Engineering</i> , 2013, 45, 1360-1367.	12.0	22
31	Long-term deflections of reinforced concrete elements: accuracy analysis of predictions by different methods. <i>Mechanics of Time-Dependent Materials</i> , 2013, 17, 297-313.	4.4	21
32	Experimental study of tension stiffening in GFRP RC tensile members under sustained load. <i>Engineering Structures</i> , 2014, 79, 390-400.	5.3	21
33	Bond response of NSM CFRP strips in concrete under sustained loading and different temperature and humidity conditions. <i>Composite Structures</i> , 2018, 192, 1-7.	5.8	20
34	Characterization and Simulation of the Bond Response of NSM FRP Reinforcement in Concrete. <i>Materials</i> , 2020, 13, 1770.	2.9	20
35	A simplified method to obtain time-dependent curvatures and deflections of concrete members reinforced with FRP bars. <i>Composite Structures</i> , 2010, 92, 1833-1838.	5.8	17
36	Bond behavior of NSM CFRP laminates in concrete under sustained loading. <i>Construction and Building Materials</i> , 2018, 177, 237-246.	7.2	17

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37	Flexural Behavior of Fire-Damaged Reinforced Concrete Slabs Repaired with Near-Surface Mounted (NSM) Carbon Fiber Reinforced Polymer (CFRP) Rods. <i>Journal of Advanced Concrete Technology</i> , 2015, 13, 15-29.	1.8	15
38	Standardised quantification of structural efficiency of hybrid reinforcement systems for developing concrete composites. <i>Composite Structures</i> , 2021, 274, 114357.	5.8	15
39	Design procedure and simplified equations for the flexural capacity of concrete members reinforced with fibre-reinforced polymer bars. <i>Structural Concrete</i> , 2012, 13, 119-129.	3.1	14
40	A numerical model for sequential construction, repairing and strengthening of 2-D concrete frames. <i>Engineering Structures</i> , 2003, 25, 323-336.	5.3	13
41	Serviceability Limit State of FRP RC Beams. <i>Advances in Structural Engineering</i> , 2012, 15, 653-663.	2.4	13
42	Flexural behavior of rubberized concrete beams strengthened in shear using welded wire mesh. <i>Composite Structures</i> , 2020, 247, 112485.	5.8	13
43	Experimental Study of the Effect of High Service Temperature on the Flexural Performance of Near-Surface Mounted (NSM) Carbon Fiber-Reinforced Polymer (CFRP)-Strengthened Concrete Beams. <i>Polymers</i> , 2021, 13, 920.	4.5	12
44	A rational method to predict long-term deflections of FRP reinforced concrete members. <i>Engineering Structures</i> , 2012, 40, 230-239.	5.3	11
45	Experimental study and numerical prediction of the bond response of NSM CFRP laminates in RC elements under sustained loading. <i>Construction and Building Materials</i> , 2021, 288, 123082.	7.2	11
46	Prediction of Concrete Shrinkage Occurring Prior to External Loading and Effect on Short-Term Constitutive Modeling and Design. <i>Advances in Structural Engineering</i> , 2013, 16, 1061-1080.	2.4	10
47	Diagnosis of NSM FRP reinforcement in concrete by using mixed-effects models and EMI approaches. <i>Composite Structures</i> , 2021, 273, 114322.	5.8	10
48	Modelling of tension-stiffening in bending RC elements based on equivalent stiffness of the rebar. <i>Structural Engineering and Mechanics</i> , 2015, 53, 997-1016.	1.0	10
49	Shear strain influence in the service response of FRP reinforced concrete beams. <i>Composite Structures</i> , 2015, 121, 142-153.	5.8	9
50	Performance-based slenderness limits for deformations and crack control of reinforced concrete flexural members. <i>Engineering Structures</i> , 2019, 187, 267-279.	5.3	9
51	RESEARCH ON THE SUITABILITY OF ORGANOSOLV SEMI-CHEMICAL TRITICALE FIBERS AS REINFORCEMENT FOR RECYCLED HDPE COMPOSITES. <i>BioResources</i> , 2012, 7, .	1.0	8
52	A Novel Approach to Residual Stiffness Analysis of Flexural Concrete Elements with Composite Reinforcement. <i>IABSE Symposium Report</i> , 2019, , .	0.0	8
53	An experimental study on cracking and deformations of tensile concrete elements reinforced with multiple GFRP bars. <i>Composite Structures</i> , 2018, 201, 477-485.	5.8	7
54	A proposed semi-prefabricated prestressed composite slab. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2004, 157, 309-317.	0.8	6

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55	Application of qualitative reasoning in engineering. Applied Artificial Intelligence, 1998, 12, 29-48.	3.2	5
56	Analysis of the Impact of Sustained Load and Temperature on the Performance of the Electromechanical Impedance Technique through Multilevel Machine Learning and FBG Sensors. Sensors, 2021, 21, 5755.	3.8	5
57	Shake Table Tests on Deficient RC Buildings Strengthened Using Post-Tensioned Metal Straps. Geotechnical, Geological and Earthquake Engineering, 2014, , 187-202.	0.2	5
58	The effect of steady and cyclic environmental conditions on the tensile behaviour of a structural adhesive under sustained loading. Composite Structures, 2022, 286, 115287.	5.8	5
59	Experimental Identification of Cracking Parameters of Concrete Ties with Different Reinforcement and Testing Layouts. Procedia Engineering, 2017, 172, 930-936.	1.2	4
60	Influence of Bond Characterization on Load-Mean Strain and Tension Stiffening Behavior of Concrete Elements Reinforced with Embedded FRP Reinforcement. Materials, 2022, 15, 799.	2.9	4
61	Time-dependent behavior of NSM strengthened RC beams under sustained loading. Engineering Structures, 2021, 247, 113210.	5.3	3
62	Performance of Linear Mixed Models to Assess the Effect of Sustained Loading and Variable Temperature on Concrete Beams Strengthened with NSM-FRP. Sensors, 2021, 21, 5046.	3.8	2
63	Sustained Loading Bond Response and Post-Sustained Loading Behaviour of NSM CFRP-Concrete Elements under Different Service Temperatures. Applied Sciences (Switzerland), 2021, 11, 8542.	2.5	2
64	Learning based on the project entitled "Design and construction of a wooden bridge". Journal of Technology and Science Education, 2016, 6, 135.	1.2	1
65	Extension of the $\hat{\Gamma}$ method for calculating deflections of two-way slabs based on linear elastic finite element analysis. Structural Concrete, 2021, 22, 1652-1670.	3.1	1
66	Rational Approach for Computing Long-Term Deflection of Reinforced Concrete. ACI Structural Journal, 2021, 118, .	0.2	1
67	Comparative Study of Deflection Equations for FRP RC Beams. , 2011, , 744-747.		0
68	COMPARATIVE ANALYSIS OF FLEXURAL STIFFNESS OF CONCRETE ELEMENTS WITH DIFFERENT TYPES OF COMPOSITE REINFORCEMENT SYSTEMS. Science: Future of Lithuania, 2021, 13, 1-5.	0.1	0
69	Límites de esbeltez basados en prestaciones para vigas de hormigón armado para el control de deformaciones y el control de tensiones en la armadura. Hormigon Y Acero, 2021, 72, 31-37.	0.2	0
70	Estudio de la adherencia de barras NSM FRP como refuerzo de estructuras de hormigón. , 2014, , 165-181.		0
71	Flexural Performance of NSM CFRP Strengthened Concrete Beams Under Temperature. Lecture Notes in Civil Engineering, 2022, , 836-847.	0.4	0
72	Measurement and Analysis of Cracking Behaviour of RC Beams Strengthened with NSM CFRP Strips Using Digital Image Correlation. Lecture Notes in Civil Engineering, 2022, , 1645-1656.	0.4	0