

# Eduardo N B S Julio

## List of Publications by Year in descending order

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Version: 2024-02-01

98  
papers

4,300  
citations

87723

38  
h-index

114278

63  
g-index

99  
all docs

99  
docs citations

99  
times ranked

3135  
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of nanosilica addition on flowability, strength and transport properties of ultra high performance concrete. <i>Materials &amp; Design</i> , 2014, 59, 1-9.	5.1	318
2	Concrete-to-concrete bond strength. Influence of the roughness of the substrate surface. <i>Construction and Building Materials</i> , 2004, 18, 675-681.	3.2	267
3	Correlation between concrete-to-concrete bond strength and the roughness of the substrate surface. <i>Construction and Building Materials</i> , 2007, 21, 1688-1695.	3.2	193
4	Effect of supplementary cementitious materials on autogenous shrinkage of ultra-high performance concrete. <i>Construction and Building Materials</i> , 2016, 127, 43-48.	3.2	187
5	A state-of-the-art review on roughness quantification methods for concrete surfaces. <i>Construction and Building Materials</i> , 2013, 38, 912-923.	3.2	172
6	RSM-based model to predict the performance of self-compacting UHPC reinforced with hybrid steel micro-fibers. <i>Construction and Building Materials</i> , 2014, 66, 375-383.	3.2	141
7	A state-of-the-art review on shear-friction. <i>Engineering Structures</i> , 2012, 45, 435-448.	2.6	140
8	Assessment of cracks on concrete bridges using image processing supported by laser scanning survey. <i>Construction and Building Materials</i> , 2017, 146, 668-678.	3.2	131
9	Statistical mixture design approach for eco-efficient UHPC. <i>Cement and Concrete Composites</i> , 2015, 55, 17-25.	4.6	117
10	Influence of nano-silica addition on durability of UHPC. <i>Construction and Building Materials</i> , 2015, 94, 181-188.	3.2	114
11	Critical review on eco-efficient ultra high performance concrete enhanced with nano-materials. <i>Construction and Building Materials</i> , 2015, 101, 201-208.	3.2	113
12	Tests and design of short steel tubes filled with rubberised concrete. <i>Engineering Structures</i> , 2016, 112, 274-286.	2.6	104
13	Influence of added concrete compressive strength on adhesion to an existing concrete substrate. <i>Building and Environment</i> , 2006, 41, 1934-1939.	3.0	95
14	Automatic crack monitoring using photogrammetry and image processing. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013, 46, 433-441.	2.5	83
15	Prediction of Fresh and Hardened State Properties of UHPC: Comparative Study of Statistical Mixture Design and an Artificial Neural Network Model. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, .	1.3	82
16	Influence of concrete strength and steel fibre geometry on the fibre/matrix interface. <i>Composites Part B: Engineering</i> , 2017, 122, 156-164.	5.9	79
17	A discrete strong discontinuity approach. <i>Engineering Fracture Mechanics</i> , 2009, 76, 1176-1201.	2.0	76
18	Influence of fibres on the mechanical behaviour of fibre reinforced concrete matrixes. <i>Construction and Building Materials</i> , 2017, 137, 548-556.	3.2	73

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19	Shear strength of recycled aggregate concrete to natural aggregate concrete interfaces. Construction and Building Materials, 2016, 109, 139-145.	3.2	66
20	A comparative study on the modelling of discontinuous fracture by means of enriched nodal and element techniques and interface elements. International Journal of Fracture, 2010, 161, 97-119.	1.1	63
21	Concrete-to-concrete bond strength: influence of an epoxy-based bonding agent on a roughened substrate surface. Magazine of Concrete Research, 2005, 57, 463-468.	0.9	59
22	Development of a laser roughness analyser to predict in situ the bond strength of concrete-to-concrete interfaces. Magazine of Concrete Research, 2008, 60, 329-337.	0.9	59
23	Characterisation of concrete cracking during laboratorial tests using image processing. Construction and Building Materials, 2012, 28, 607-615.	3.2	58
24	Experimental study on short rubberized concrete-filled steel tubes under cyclic loading. Composite Structures, 2016, 136, 394-404.	3.1	58
25	Anchorage of steel rebars to recycled aggregates concrete. Construction and Building Materials, 2014, 72, 113-123.	3.2	56
26	Finite element modelling of short steel tubes filled with rubberized concrete. Composite Structures, 2016, 150, 28-40.	3.1	55
27	Influence of nano-SiO <sub>2</sub> and nano-Al <sub>2</sub> O <sub>3</sub> additions on steel-to-concrete bonding. Construction and Building Materials, 2016, 125, 1080-1092.	3.2	55
28	Applications of Photogrammetry to Structural Assessment. Experimental Techniques, 2012, 36, 71-81.	0.9	51
29	Experimental development of low cement content and recycled construction and demolition waste aggregates concrete. Construction and Building Materials, 2021, 273, 121680.	3.2	49
30	Structural assessment of the tower of the University of Coimbra by modal identification. Engineering Structures, 2008, 30, 3468-3477.	2.6	47
31	New approach for shrinkage prediction of high-strength lightweight aggregate concrete. Construction and Building Materials, 2012, 35, 84-91.	3.2	47
32	An embedded formulation with conforming finite elements to capture strong discontinuities. International Journal for Numerical Methods in Engineering, 2013, 93, 224-244.	1.5	47
33	Behavior of reinforced concrete frame with masonry infill wall subjected to vertical load. Engineering Structures, 2018, 171, 476-487.	2.6	46
34	Towards a generalization of a discrete strong discontinuity approach. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 3670-3681.	3.4	45
35	A modified slant shear test designed to enforce adhesive failure. Construction and Building Materials, 2013, 41, 673-680.	3.2	44
36	Hybrid effect and pseudo-ductile behaviour of unidirectional interlayer hybrid FRP composites for civil engineering applications. Construction and Building Materials, 2018, 171, 871-890.	3.2	43

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37	Arbitrary bi-dimensional finite strain cohesive crack propagation. <i>Computational Mechanics</i> , 2009, 45, 61-75.	2.2	42
38	Mechanical characterization of rubberized concrete using an image-processing/XFEM coupled procedure. <i>Composites Part B: Engineering</i> , 2015, 78, 214-226.	5.9	41
39	Damage assessment on concrete surfaces using multi-spectral image analysis. <i>Construction and Building Materials</i> , 2013, 40, 971-981.	3.2	40
40	Accuracy of design code expressions for estimating longitudinal shear strength of strengthening concrete overlays. <i>Engineering Structures</i> , 2010, 32, 2387-2393.	2.6	33
41	Automatic concrete health monitoring: assessment and monitoring of concrete surfaces. <i>Structure and Infrastructure Engineering</i> , 2014, 10, 1547-1554.	2.0	31
42	Laboratorial test monitoring applying photogrammetric post-processing procedures to surface displacements. <i>Measurement: Journal of the International Measurement Confederation</i> , 2011, 44, 527-538.	2.5	30
43	Influence of nano-SiO <sub>2</sub> and nano-Al <sub>2</sub> O <sub>3</sub> additions on the shear strength and the bending moment capacity of RC beams. <i>Construction and Building Materials</i> , 2016, 123, 35-46.	3.2	29
44	Numerical study of the compressive mechanical behaviour of rubberized concrete using the eXtended Finite Element Method (XFEM). <i>Composite Structures</i> , 2017, 179, 132-145.	3.1	28
45	Hybrid FRP jacketing for enhanced confinement of circular concrete columns in compression. <i>Construction and Building Materials</i> , 2018, 184, 681-704.	3.2	28
46	FE modeling of the interfacial behaviour of composite concrete members. <i>Construction and Building Materials</i> , 2012, 26, 233-243.	3.2	27
47	3D finite element model for hybrid FRP-confined concrete in compression using modified CDPM. <i>Engineering Structures</i> , 2019, 190, 459-479.	2.6	26
48	Automatic mapping of cracking patterns on concrete surfaces with biological stains using hyper-spectral images processing. <i>Structural Control and Health Monitoring</i> , 2019, 26, e2320.	1.9	26
49	Influence of anti-corrosive coatings on the bond of steel rebars to repair mortars. <i>Engineering Structures</i> , 2012, 36, 372-378.	2.6	24
50	Enhancement of the thermal performance of perforated clay brick walls through the addition of industrial nano-crystalline aluminium sludge. <i>Construction and Building Materials</i> , 2015, 101, 227-238.	3.2	22
51	Modelling the behaviour of steel fibre reinforced concrete using a discrete strong discontinuity approach. <i>Engineering Fracture Mechanics</i> , 2016, 154, 12-23.	2.0	22
52	Crack propagation monitoring using an image deformation approach. <i>Structural Control and Health Monitoring</i> , 2017, 24, e1973.	1.9	22
53	Effect of non-structural masonry brick infill walls on the robustness of a RC framed building severely damaged due to a landslide. <i>Engineering Structures</i> , 2019, 180, 274-283.	2.6	22
54	Efficiency of cement content and of compactness on mechanical performance of low cement concrete designed with packing optimization. <i>Construction and Building Materials</i> , 2021, 266, 121077.	3.2	21

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55	Towards the development of an in situ non-destructive method to control the quality of concrete-to-concrete interfaces. <i>Engineering Structures</i> , 2010, 32, 207-217.	2.6	20
56	Durability and Time-Dependent Properties of Low-Cement Concrete. <i>Materials</i> , 2020, 13, 3583.	1.3	19
57	A method to incorporate uncertainty in the classification of remote sensing images. <i>International Journal of Remote Sensing</i> , 2009, 30, 5489-5503.	1.3	18
58	Case study: Damage of an RC building after a landslideâ€™inspection, analysis and retrofitting. <i>Engineering Structures</i> , 2010, 32, 1814-1820.	2.6	18
59	Compressive strength of micropile-to-grout connections. <i>Construction and Building Materials</i> , 2012, 26, 172-179.	3.2	18
60	Precast alkali-activated concrete towards sustainable construction. <i>Magazine of Concrete Research</i> , 2014, 66, 618-626.	0.9	17
61	CABLE TENSIONING CONTROL AND MODAL IDENTIFICATION OF A CIRCULAR CABLE-STAYED FOOTBRIDGE. <i>Experimental Techniques</i> , 2010, 34, 62-68.	0.9	16
62	MCrack-Dam: the scale-up of a method to assess cracks on concrete dams by image processing. The case study of Itaipu Dam, at the Brazilâ€™Paraguay border. <i>Journal of Civil Structural Health Monitoring</i> , 2018, 8, 857-866.	2.0	16
63	Characterization of alkali-activated binders using the maturity method. <i>Construction and Building Materials</i> , 2015, 95, 337-344.	3.2	14
64	On the sustainability of rubberized concrete filled square steel tubular columns. <i>Journal of Cleaner Production</i> , 2018, 170, 510-521.	4.6	14
65	Patch Restoration Method: A new concept for concrete heritage. <i>Construction and Building Materials</i> , 2015, 101, 643-651.	3.2	13
66	Novel composites from green unsaturated polyesters and fly ashes: Preparation and characterization. <i>Reactive and Functional Polymers</i> , 2016, 106, 24-31.	2.0	13
67	Colored concrete restoration method: For chromatic design and application of restoration mortars on smooth surfaces of colored concrete. <i>Structural Concrete</i> , 2019, 20, 1391-1401.	1.5	11
68	Durability of mortar matrices of low-cement concrete with specific additions. <i>Construction and Building Materials</i> , 2021, 309, 125060.	3.2	11
69	Numerical study towards the use of a SH wave ultrasonic-based strategy for crack detection in concrete structures. <i>Engineering Structures</i> , 2013, 49, 782-791.	2.6	10
70	A solution with low-cement-lightweight concrete and high durability for applications in prefabrication. <i>Construction and Building Materials</i> , 2021, 275, 122153.	3.2	10
71	Experimental study on the interface between low cement recycled aggregates concrete and ultra-high durability concrete. <i>Construction and Building Materials</i> , 2021, 304, 124603.	3.2	10
72	Assessment of the state of conservation of buildings through roof mapping using very high spatial resolution images. <i>Construction and Building Materials</i> , 2009, 23, 2795-2802.	3.2	9

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73	Analytical hybrid effect prediction and evolution of the tensile response of unidirectional hybrid fibre-reinforced polymers composites for civil engineering applications. Journal of Composite Materials, 2020, 54, 3205-3228.	1.2	9
74	Influence of Pozzolan, Slag and Recycled Aggregates on the Mechanical and Durability Properties of Low Cement Concrete. Materials, 2021, 14, 4173.	1.3	9
75	Bond strength of textured micropiles grouted to concrete footings. Engineering Structures, 2012, 35, 288-295.	2.6	6
76	Insights into the thermo-mechanical properties of films cast from emulsion terpolymers. Progress in Organic Coatings, 2014, 77, 790-797.	1.9	6
77	Mechanical performance of eco-efficient hollow clay bricks incorporating industrial nano-crystalline aluminium sludge. European Journal of Environmental and Civil Engineering, 2020, 24, 1921-1938.	1.0	6
78	Chromatic design and application of restoration mortars on smooth surfaces of white and GRAY concrete. Structural Concrete, 2021, 22, E535.	1.5	6
79	Design and Durability Assessment of Restoring Mortar for Concrete Heritage. Materials, 2021, 14, 4508.	1.3	6
80	Environmental Impacts and Benefits of the End-of-Life of Building Materials: Database to Support Decision Making and Contribute to Circularity. Sustainability, 2021, 13, 12659.	1.6	6
81	Influence of nanoparticles additions on the bond between steel fibres and the binding paste. Construction and Building Materials, 2017, 151, 312-318.	3.2	5
82	Influence of Nano-SiO <sub>2</sub> , Nano-Al <sub>2</sub> O <sub>3</sub> , and Nano-ZnO Additions on Cementitious Matrixes with Different Powder and Steel Fibers Content. Journal of Advanced Concrete Technology, 2021, 19, 40-52.	0.8	5
83	Methodology for the restoration of heritage built in exposed concrete. The case study of "Piscina das MarÃ©s", Portugal. Construction and Building Materials, 2022, 328, 127040.	3.2	5
84	An element enriched formulation for simulation of splitting failure. Engineering Fracture Mechanics, 2011, 78, 301-316.	2.0	4
85	Detection of cracks on concrete surfaces by hyperspectral image processing. Proceedings of SPIE, 2017, , .	0.8	3
86	Load bearing capacity of connections between innovative pre-walls designed to have high durability and eco-efficiency. Journal of Building Engineering, 2021, 44, 103356.	1.6	3
87	Evaluation of soft possibilistic classifications with non-specificity uncertainty measures. International Journal of Remote Sensing, 2010, 31, 5199-5219.	1.3	2
88	The application of uncertainty measures in the training and evaluation of supervised classifiers. International Journal of Remote Sensing, 2012, 33, 2851-2867.	1.3	2
89	Probabilistic Analysis of High Strength Concrete Girders Strengthened with CFRP. , 2014, , .		2
90	New Trends for Reinforced Concrete Structures: Some Results of Exploratory Studies. Infrastructures, 2017, 2, 17.	1.4	2

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91	Admixture tuning for high-performance concrete for the production of novel precast prestressed long-span girders for highway overpasses. <i>Structural Concrete</i> , 2020, 21, 1989-1998.	1.5	2
92	Flexural behavior of slender long-span precast prestressed high-strength concrete girders. <i>Structural Concrete</i> , 2021, 22, 2272-2288.	1.5	2
93	Coexistence server in Cognitive Networks: A real implementation. <i>Computer Standards and Interfaces</i> , 2017, 50, 223-235.	3.8	1
94	Classification of cracks of biological colonization on concrete surface using false colour HSV images, including near-infrared information. , 2018, , .		1
95	Aerial Crack View: Crack monitoring in concrete bridges through image processing acquired by UAV. , 2019, , .		1
96	Assessing Concrete-to-Concrete Bond Strength by Measuring the Roughness of the Substrate Surface. , 2006, , 17.		0
97	The MCrack-TLS method for assessing cracks on concrete bridges based on image processing and laser scanning. , 2016, , .		0
98	Strain monitoring on pre-stressed CFRP laminates through computer vision. , 2019, , .		0