Daniel V Oliveira

List of Publications by Year
in descending order

144 papers	5,021 citations	76322 40 h-index	106340 65 g-index
156 all docs	156 docs citations	156 times ranked	2722 citing authors

#	Article	IF	Citations
1	Mortar-based systems for externally bonded strengthening of masonry. Materials and Structures/Materiaux Et Constructions, 2014, 47, 2021-2037.	3.1	210
2	Numerical models for the seismic assessment of an old masonry tower. Engineering Structures, 2010, 32, 1466-1478.	5.3	201
3	Analysis of Masonry Structures Without Box Behavior. International Journal of Architectural Heritage, 2011, 5, 369-382.	3.1	195
4	Glass fabric reinforced cementitious matrix: Tensile properties and bond performance on masonry substrate. Composites Part B: Engineering, 2017, 127, 196-214.	12.0	188
5	Round Robin Test for composite-to-brick shear bond characterization. Materials and Structures/Materiaux Et Constructions, 2012, 45, 1761-1791.	3.1	172
6	Soil stabilisation using alkaline activation of fly ash for self compacting rammed earth construction. Construction and Building Materials, 2012, 36, 727-735.	7.2	151
7	Mechanical performance of natural fiber-reinforced composites for the strengthening of masonry. Composites Part B: Engineering, 2015, 77, 74-83.	12.0	141
8	Experimental Behavior of FRP Strengthened Masonry Arches. Journal of Composites for Construction, 2010, 14, 312-322.	3.2	129
9	Implementation and validation of a constitutive model for the cyclic behaviour of interface elements. Computers and Structures, 2004, 82, 1451-1461.	4.4	117
10	Application of digital image correlation in investigating the bond between FRP and masonry. Composite Structures, 2013, 106, 340-349.	5.8	115
11	Structural assessment of masonry arch bridges by combination of non-destructive testing techniques and three-dimensional numerical modelling: Application to Vilanova bridge. Engineering Structures, 2017, 148, 621-638.	5.3	114
12	Recommendation of RILEM Technical Committee 250-CSM: Test method for Textile Reinforced Mortar to substrate bond characterization. Materials and Structures/Materiaux Et Constructions, 2018, 51, 1.	3.1	114
13	Dry Joint Stone Masonry Walls Subjected to In-Plane Combined Loading. Journal of Structural Engineering, 2005, 131, 1665-1673.	3.4	111
14	Static behaviour of rammed earth: experimental testing and finite element modelling. Materials and Structures/Materiaux Et Constructions, 2015, 48, 3443-3456.	3.1	95
15	Geometric issues and ultimate load capacity of masonry arch bridges from the northwest Iberian Peninsula. Engineering Structures, 2010, 32, 3955-3965.	5.3	94
16	Experimental Bond Behavior of FRP Sheets Glued on Brick Masonry. Journal of Composites for Construction, 2011, 15, 32-41.	3.2	93
17	Numerical analysis of bond behavior between masonry bricks and composite materials. Engineering Structures, 2012, 43, 210-220.	5.3	92
18	Rammed earth construction with granitic residual soils: The case study of northern Portugal. Construction and Building Materials, 2013, 47, 181-191.	7.2	83

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19	Bond behavior of SRG-strengthened masonry units: Testing and numerical modeling. Construction and Building Materials, 2014, 64, 387-397.	7.2	77
20	Development of novel auxetic structures based on braided composites. Materials & Design, 2014, 61, 286-295.	5.1	74
21	Numerical study of the role of mortar joints in the bond behavior of FRP-strengthened masonry. Composites Part B: Engineering, 2013, 46, 21-30.	12.0	70
22	Water degrading effects on the bond behavior in FRP-strengthened masonry. Composites Part B: Engineering, 2013, 54, 11-19.	12.0	68
23	Modelling the nonlinear behaviour of masonry walls strengthened with textile reinforced mortars. Engineering Structures, 2017, 134, 11-24.	5.3	65
24	Strengthening of three-leaf stone masonry walls: an experimental research. Materials and Structures/Materiaux Et Constructions, 2012, 45, 1259-1276.	3.1	62
25	The effect of skew angle on the mechanical behaviour of masonry arches. Mechanics Research Communications, 2014, 61, 53-59.	1.8	61
26	Cyclic behaviour of stone and brick masonry under uniaxial compressive loading. Materials and Structures/Materiaux Et Constructions, 2007, 39, 247-257.	3.1	59
27	Simplified indexes for the seismic assessment of masonry buildings: International database and validation. Engineering Failure Analysis, 2013, 34, 585-605.	4.0	57
28	Quantitative and qualitative assessment of the amorphous phase of a Class F fly ash dissolved during alkali activation reactions â€“ Effect of mechanical activation, solution concentration and temperature. Composites Part B: Engineering, 2016, 103, 1-14.	12.0	57
29	Fiber-to-mortar bond behavior in TRM composites: Effect of embedded length and fiber configuration. Composites Part B: Engineering, 2018, 152, 43-57.	12.0	57
30	Characterization of debonding in FRP-strengthened masonry using the acoustic emission technique. Engineering Structures, 2014, 66, 24-34.	5.3	55
31	Experimental tests for the characterization of sisal fiber reinforced cementitious matrix for strengthening masonry structures. Construction and Building Materials, 2019, 219, 44-55.	7.2	55
32	FRPâ€“brick masonry bond degradation under hygrothermal conditions. Composite Structures, 2016, 147, 143-154.	5.8	54
33	Automatic Morphologic Analysis of Quasiâ€Periodic Masonry Walls from LiDAR. Computer-Aided Civil and Infrastructure Engineering, 2016, 31, 305-319.	9.8	52
34	Rheological properties of alkaline activated fly ash used in jet grouting applications. Construction and Building Materials, 2013, 48, 925-933.	7.2	51
35	Multi-level characterization of steel reinforced mortars for strengthening of masonry structures. Materials and Design, 2016, 110, 903-913.	7.0	51
36	Web-GIS approach to preventive conservation of heritage buildings. Automation in Construction, 2020, 118, 103304.	9.8	51

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37	A Parametric Scan-to-FEM Framework for the Digital Twin Generation of Historic Masonry Structures. Sustainability, 2021, 13, 11088.	3.2	49
38	Effect of test setup on the fiber-to-mortar pull-out response in TRM composites: Experimental and analytical modeling. Composites Part B: Engineering, 2018, 143, 250-268.	12.0	48
39	Pushover analysis and failure pattern of a typical masonry residential building in Bosnia and Herzegovina. Engineering Structures, 2013, 50, 13-29.	5.3	47
40	Assessing the production of jet mix columns using alkali activated waste based on mechanical and financial performance and CO2 (eq) emissions. Journal of Cleaner Production, 2015, 102, 447-460.	9.3	47
41	Shear strengthening of masonry wallettes resorting to structural repointing and FRCM composites. Construction and Building Materials, 2019, 206, 19-34.	7.2	44
42	Experimental behavior of masonry wall-to-timber elements connections strengthened with injection anchors. Engineering Structures, 2014, 81, 98-109.	5.3	41
43	Mechanical characterisation of dry-stack masonry made of CEBs stabilised with alkaline activation. Construction and Building Materials, 2015, 75, 349-358.	7.2	40
44	Reliability-based assessment of existing masonry arch railway bridges. Construction and Building Materials, 2016, 115, 544-554.	7.2	40
45	Moisture-induced degradation of interfacial bond in FRP-strengthened masonry. Composites Part B: Engineering, 2016, 87, 47-58.	12.0	39
46	Repair of composite-to-masonry bond using flexible matrix. Materials and Structures/Materiaux Et Constructions, 2016, 49, 2563-2580.	3.1	39
47	A Digital-based Integrated Methodology for the Preventive Conservation of Cultural Heritage: The Experience of HeritageCare Project. International Journal of Architectural Heritage, 2021, 15, 844-863.	3.1	39
48	Development and characterization of novel auxetic structures based on re-entrant hexagon design produced from braided composites. Composites Part B: Engineering, 2016, 93, 132-142.	12.0	38
49	Evaluating the seismic behaviour of rammed earth buildings from Portugal: From simple tools to advanced approaches. Engineering Structures, 2018, 157, 144-156.	5.3	37
50	Characterization of the response of quasi-periodic masonry: Geometrical investigation, homogenization and application to the GuimarÃ£es castle, Portugal. Engineering Structures, 2013, 56, 621-641.	5.3	36
51	Development, characterization and analysis of auxetic structures from braided composites and study the influence of material and structural parameters. Composites Part A: Applied Science and Manufacturing, 2016, 87, 86-97.	7.6	36
52	ICEBs stabilised with alkali-activated fly ash as a renewed approach for green building: Exploitation of the masonry mechanical performance. Construction and Building Materials, 2017, 155, 65-78.	7.2	34
53	ONE-SIDED rocking analysis of corner mechanisms in masonry structures: Influence of geometry, energy dissipation, boundary conditions. Soil Dynamics and Earthquake Engineering, 2019, 123, 357-370.	3.8	30
54	Fibrous and composite materials for blast protection of structural elementsâ€"A state-of-the-art review. Journal of Reinforced Plastics and Composites, 2013, 32, 1477-1500.	3.1	29

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55	Probabilistic-based assessment of a masonry arch bridge considering inferential procedures. Engineering Structures, 2017, 134, 61-73.	5.3	29
56	Textile-to-mortar bond behaviour in lime-based textile reinforced mortars. Construction and Building Materials, 2019, 227, 116682.	7.2	29
57	Evaluation of the bond performance in FRPâ€“brick components re-bonded after initial delamination. Composite Structures, 2015, 123, 271-281.	5.8	28
58	Wall-to-horizontal diaphragm connections in historical buildings: A state-of-the-art review. Engineering Structures, 2019, 199, 109559.	5.3	28
59	Effectiveness of the repair of unstabilised rammed earth with injection of mud grouts. Construction and Building Materials, 2016, 127, 861-871.	7.2	27
60	Numerical modeling of the seismic out-of-plane response of a plain and TRM-strengthened rammed earth subassembly. Engineering Structures, 2019, 193, 43-56.	5.3	25
61	Expeditious damage index for arched structures based on dynamic identification testing. Construction and Building Materials, 2020, 265, 120236.	7.2	25
62	On the development of unmodified mud grouts for repairing earth constructions: rheology, strength and adhesion. Materials and Structures/Materiaux Et Constructions, 2012, 45, 1497-1512.	3.1	23
63	Accelerated Hygrothermal Aging of Bond in FRPâ€“Masonry Systems. Journal of Composites for Construction, 2015, 19, .	3.2	23
64	Shear capacity assessment of tuff panels strengthened with FRP diagonal layout. Composites Part B: Engineering, 2011, 42, 1956-1965.	12.0	20
65	Experimental and Numerical Investigations on the Behaviour of Masonry Walls Reinforced with an Innovative Sisal FRCM System. Key Engineering Materials, 0, 747, 190-195.	0.4	20
66	The use of natural fibers in repairing and strengthening of cultural heritage buildings. Materials Today: Proceedings, 2020, 31, S321-S328.	1.8	20
67	Development and Demonstration of an HBIM Framework for the Preventive Conservation of Cultural Heritage. International Journal of Architectural Heritage, 2022, 16, 1451-1473.	3.1	20
68	Seismic Assessment of St James Church by Means of Pushover Analysis â€“ Before and After the New Zealand Earthquake. Open Civil Engineering Journal, 2012, 6, 160-172.	0.8	20
69	Hygrothermal durability of bond in FRP-strengthened masonry. Materials and Structures/Materiaux Et Constructions, 2014, 47, 2039-2050.	3.1	19
70	Numerical study on the performance of improved masonry-to-timber connections in traditional masonry buildings. Engineering Structures, 2014, 80, 501-513.	5.3	17
71	FRP-to-Masonry Bond Durability Assessment with Infrared Thermography Method. Journal of Nondestructive Evaluation, 2014, 33, 427-437.	2.4	17
72	Bond behavior degradation between FRP and masonry under aggressive environmental conditions. Mechanics of Advanced Materials and Structures, 2019, 26, 6-14.	2.6	17

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73	Seismic Evaluation and Strengthening of an Existing Masonry Building in Sarajevo, B&H. Buildings, 2019, 9, 30.	3.1	17
74	Physical and mechanical characterization of vernacular dry stone heritage materials: Schist and granite from Northwest Portugal. Construction and Building Materials, 2020, 259, 119705.	7.2	17
75	Experimental characterization of physical and mechanical properties of schist from Portugal. Construction and Building Materials, 2014, 50, 617-630.	7.2	15
76	Comparison of the performance of hydraulic lime- and clay-based grouts in the repair of rammed earth. Construction and Building Materials, 2018, 193, 384-394.	7.2	14
77	Vernacular schist farm walls: materials, construction techniques and sustainable rebuilding solutions. Journal of Building Engineering, 2018, 15, 334-352.	3.4	13
78	Experimental Investigation on the Bond Behavior of a Compatible TRM-based Solution for Rammed Earth Heritage. International Journal of Architectural Heritage, 2019, 13, 1042-1060.	3.1	13
79	Probabilistic-based structural assessment of a historic stone arch bridge. Structure and Infrastructure Engineering, 2021, 17, 379-391.	3.7	13
80	Effect of Environmental Aging on the Numerical Response of FRP-Strengthened Masonry Walls. Journal of Structural Engineering, 2016, 142, .	3.4	12
81	Characterization of a Compatible Low Cost Strengthening Solution Based on the TRM Technique for Rammed Earth. Key Engineering Materials, 0, 747, 150-157.	0.4	12
82	Modelling of the In-Plane and Out-of-Plane Performance of TRM-Strengthened Masonry Walls. Key Engineering Materials, 0, 747, 60-68.	0.4	12
83	Static Behavior of Cob: Experimental Testing and Finite-Element Modeling. Journal of Materials in Civil Engineering, 2019, 31, .	2.9	12
84	Integration of Laser Scanning Technologies and 360Âº Photography for the Digital Documentation and Management of Cultural Heritage Buildings. International Journal of Architectural Heritage, 2023, 17, 56-75.	3.1	12
85	Seismic performance of historical vaulted adobe constructions: a numerical case study from Yazd, Iran. International Journal of Architectural Heritage, 2018, 12, 879-897.	3.1	11
86	Aging of lime-based TRM composites under natural environmental conditions. Construction and Building Materials, 2021, 270, 121853.	7.2	11
87	Textile-to-mortar bond behavior: An analytical study. Construction and Building Materials, 2021, 282, 122639.	7.2	11
88	Insight into the Effects of Solvent Treatment of Natural Fibers Prior to Structural Composite Casting: Chemical, Physical and Mechanical Evaluation. Fibers, 2021, 9, 54.	4.0	11
89	Experimental Behavior of Natural Fiber-Based Composites Used for Strengthening Masonry Structures. Conference Papers in Materials Science, 2013, 2013, 1-6.	0.1	10
90	Numerical modelling and parametric analysis of bond strength of masonry members retrofitted with FRP. Construction and Building Materials, 2014, 73, 713-727.	7.2	10

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91	The Use of Contact Sponge Method to Measure Water Absorption in Earthen Heritage Treated with Water Repellents. International Journal of Architectural Heritage, 2022, 16, 85-96.	3.1	10
92	Slip rate effects and cyclic behaviour of textile-to-matrix bond in textile reinforced mortar composites. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1.	3.1	10
93	A multi-level investigation on the mechanical response of TRM-strengthened masonry. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1.	3.1	9
94	Experimental characterization of adobe vaults strengthened with a TRM-based compatible composite. Construction and Building Materials, 2021, 271, 121568.	7.2	8
95	Human error impact in structural safety of a reinforced concrete bridge. Structure and Infrastructure Engineering, 2022, 18, 836-850.	3.7	7
96	Modelling the Structural Behaviour of Rammed Earth Components. , 0, , .		7
97	An analytical bond stress-slip model for a TRM composite compatible with rammed earth. Construction and Building Materials, 2021, 310, 125228.	7.2	7
98	Influence of freezeâ€“thaw cycles on the pull-out response of lime-based TRM composites. Construction and Building Materials, 2021, 313, 125473.	7.2	7
99	Nonlinear Dynamic Analysis for Safety Assessment of Heritage Buildings: Church of Santa Maria de BelÃ©m. Journal of Structural Engineering, 2019, 145, 04019153.	3.4	6
100	The Application of Sonic Testing on Double-Leaf Historical Portuguese Masonry to Obtain Morphology and Mechanical Properties. RILEM Bookseries, 2019, , 661-668.	0.4	6
101	Numerical Investigation of the In-Plane seismic Performance of Unstrengthened and TRM-Strengthened Rammed Earth Walls. International Journal of Architectural Heritage, 2021, 15, 548-566.	3.1	6
102	Human Errorâ€“Induced Risk in Reinforced Concrete Bridge Engineering. Journal of Performance of Constructed Facilities, 2021, 35, .	2.0	6
103	Analytical Modeling of the Bond Behavior between â€ŽTextile â€Žand Mortar Based on Pull-Out â€ŽTests. Key Engineering Materials, 0, 817, 112-117.	0.4	5
104	Experimental Shear Behaviour of Rammed Earth Strengthened with a TRM-Based Compatible Technique. Key Engineering Materials, 0, 817, 544-551.	0.4	5
105	Macromodeling approach for pushover analysis of textile-reinforced mortar-strengthened masonry. , 2019, , 745-778.		5
106	Performance of rammed earth subjected to in-plane cyclic displacement. Materials and Structures/Materiaux Et Constructions, 2022, 55, 1.	3.1	5
107	Experimental Characterization of Masonry Panels Strengthened with NFRCM. Key Engineering Materials, 0, 898, 43-48.	0.4	4
108	IN-PLANE BEHAVIOUR OF EARTHEN MATERIALS: A NUMERICAL COMPARISON BETWEEN ADOBE MASONRY, RAMMED EARTH AND COB. , 2017, , .		4

#	ARTICLE	IF	CITATIONS
109	Design Parameters for Seismically Retrofitted Masonry-To-Timber Connections: Injection Anchors. International Journal of Architectural Heritage, 2015, , .	3.1	3
110	Application of Acoustic Emission Technique for Bond Characterization in FRP-Masonry Systems. Key Engineering Materials, 0, 624, 534-541.	0.4	2
111	Probabilistic structural assessment of railway masonry arch bridges. IABSE Symposium Report, 2015, , .	0.0	2
112	Natural and Synthetic Consolidants for Earth Heritage: A Review. RILEM Bookseries, 2019, , 2007-2015.	0.4	2
113	HeritageCare: "Prevenir mejor que curar". PH, 0, , 16-18.	0.0	2
114	On the Mechanical Behavior of Masonry. Advances in Civil and Industrial Engineering Book Series, 2016, , 1-27.	0.2	2
115	DIGITAL MODELS OF STONE SAMPLES FOR DIDACTICAL PURPOSES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W15, 1007-1013.	0.2	2
116	Assessment of a Medieval Arch Bridge Resorting to Non-destructive Techniques and Numerical Tools. Structural Integrity, 2020, , 464-472.	1.4	2
117	PREVENTIVE CONSERVATION OF VERNACULAR ADOBE HERITAGE LOCATED IN SEISMIC-PRONE REGIONS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIV-M-1-2020, 855-860.	0.2	2
118	Cyclic Load Effects on the Bond Behavior of Textile Reinforced Mortar (TRM) Composites. Key Engineering Materials, 0, 916, 74-81.	0.4	2
119	The Potential of Beeswax Colloidal Emulsion/Films for Hydrophobization of Natural Fibers Prior to NTRM Manufacturing. Key Engineering Materials, 0, 916, 82-90.	0.4	2
120	A TRM-Based Compatible Strengthening Solution for Rammed Earth Heritage: Investigation of the Bond Behavior. RILEM Bookseries, 2019, , 1594-1602.	0.4	1
121	MITIGATION OF AMPLIFIED RESPONSE OF RESTRAINED ROCKING WALLS THROUGH HORIZONTAL DAMPERS. , 2020, , .		1
122	Robustness-based assessment of railway masonry arch bridges. IABSE Symposium Report, 2017, , .	0.0	1
123	Modelling the Seismic Out-of-plane Behaviour of Rammed Earth Components. IABSE Symposium Report, 2018, , .	0.0	1
124	Structural analysis of a stone arch bridge under incremental railway static loading. IABSE Symposium Report, 2019, , .	0.0	1
125	A proactive approach to the conservation of historic and cultural Heritage: the HeritageCare methodology. , 2019, , .		1
126	In-Plane Seismic Performance of Plain and TRM-Strengthened Rammed Earth Components. , 2019, , .		1

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127	Seismic Assessment of Earthen Structures. RILEM State-of-the-Art Reports, 2022, , 181-210.	0.7	1
128	Tensile Behavior of Textile-Reinforced Mortar: Influence of the Number of Layers and their Arrangement. Key Engineering Materials, 0, 916, 91-97.	0.4	1
129	Preliminary Results on Natural Aging of GFRP-Reinforced Masonry Components Exposed to Outdoor Environmental Conditions. Key Engineering Materials, 0, 916, 11-18.	0.4	1
130	Probabilistic-based nonlinear analysis of a reinforced concrete railway bridge. IABSE Symposium Report, 2015, , .	0.0	0
131	Strengthening of masonry vaults with transversal diaphragms: a numerical approach. International Journal of Masonry Research and Innovation, 2017, 2, 241.	0.4	0
132	Pushover analysis of fiber-reinforced polymer-strengthened masonry. , 2019, , 629-657.		0
133	Editorial: Recent Advances in Seismic Risk Assessment and Its Applications. Frontiers in Built Environment, 2020, 6, .	2.3	0
134	Tensile and Bond Characterization of Natural Fibers Embeeded in Inorganic Matrices. RILEM Bookseries, 2016, , 305-314.	0.4	0
135	Seismic assessment of a vernacular rammed earth building. IABSE Symposium Report, 2017, , .	0.0	0
136	Strengthening of masonry vaults with transversal diaphragms: a numerical approach. International Journal of Masonry Research and Innovation, 2017, 2, 241.	0.4	0
137	Corbelled dome buildings of the GerÃªs-XurÃ©s transborder region: methodologies and characterization. Conservar Patrimonio, 0, 28, 39-48.	0.4	0
138	An infrastructure management system for railway bridges: overview and application to a case study. IABSE Symposium Report, 2019, , .	0.0	0
139	Experimental Out-of-Plane Behaviour of a Rammed Earth Sub-Assemblage Subjected to Seismic Inputs. , 0, , .		0
140	Limit Analysis of Loaded Out-of-Plane Rubble Masonry : A Case Study in Portugal. , 0, , .		0
141	In-Plane Shear Behaviour of Stone Masonry Piers: A Numerical Study. , 0, , .		0
142	Nonlinear Finite Element Analysis of Strengthened Masonry Buildings subject to Seismic Action. , 0, , .		0
143	In-Plane Behavior of Tuff Masonry Panels Strengthened with Fibre-Reinforced Plastic Cross Layout. , 0, , .		0
144	Numerical Validation of the Experimental Cyclic Response of Reinforced Concrete Frames. Computational Science, Engineering and Technology Series, 0, , 267-291.	0.2	0