

# Mãrio Rui Arruda

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

554  
citations

623574

14  
h-index

677027

22  
g-index

39  
all docs

39  
docs citations

39  
times ranked

436  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental characterization of the bond between externally bonded reinforcement (EBR) CFRP strips and concrete at elevated temperatures. <i>Cement and Concrete Composites</i> , 2015, 60, 44-54.	4.6	55
2	Punching behaviour of concrete slabs incorporating coarse recycled concrete aggregates. <i>Engineering Structures</i> , 2015, 100, 238-248.	2.6	54
3	Development of a novel beam-to-column connection system for pultruded GFRP tubular profiles. <i>Composite Structures</i> , 2017, 171, 263-276.	3.1	45
4	Three-dimensional finite element modelling of the fire behaviour of insulated RC beams strengthened with EBR and NSM CFRP strips. <i>Composite Structures</i> , 2018, 183, 124-136.	3.1	41
5	Numerical modelling of the bond between concrete and CFRP laminates at elevated temperatures. <i>Engineering Structures</i> , 2016, 110, 233-243.	2.6	36
6	Numerical simulation of the fire behaviour of thermally insulated reinforced concrete beams strengthened with EBR-CFRP strips. <i>Composite Structures</i> , 2015, 126, 360-370.	3.1	26
7	Bond Behavior between Near-Surface-Mounted CFRP Strips and Concrete at High Temperatures. <i>Journal of Composites for Construction</i> , 2015, 19, .	1.7	22
8	Contribution to the understanding of the mechanical behaviour of CFRP-strengthened RC beams subjected to fire: Experimental and numerical assessment. <i>Composites Part B: Engineering</i> , 2014, 66, 15-24.	5.9	21
9	Flexural behaviour of partially bonded carbon fibre reinforced polymers strengthened concrete beams: Application to fire protection systems design. <i>Materials &amp; Design</i> , 2015, 65, 1064-1074.	5.1	20
10	Numerical modelling of the creep behaviour of GFRP sandwich panels using the Carrera Unified Formulation and Composite Creep Modelling. <i>Composite Structures</i> , 2018, 183, 103-113.	3.1	19
11	Compressive transverse fracture behaviour of pultruded GFRP materials: Experimental study and numerical calibration. <i>Composite Structures</i> , 2020, 247, 112453.	3.1	19
12	Fracture toughness-based models for damage simulation of pultruded GFRP materials. <i>Composites Part B: Engineering</i> , 2020, 186, 107818.	5.9	18
13	Analysis of composite layered beams using Carrera unified formulation with Legendre approximation. <i>Composites Part B: Engineering</i> , 2018, 137, 39-50.	5.9	17
14	Structural dynamic analysis using hybrid and mixed finite element models. <i>Finite Elements in Analysis and Design</i> , 2012, 57, 43-54.	1.7	16
15	Assessment of mesh dependency in the numerical simulation of compact tension tests for orthotropic materials. <i>Composites Part C: Open Access</i> , 2020, 1, 100006.	1.5	14
16	Physically non-linear analysis of beam models using Carrera Unified Formulation. <i>Composite Structures</i> , 2018, 195, 60-73.	3.1	13
17	Finite element analysis of steel structures – a review of useful guidelines. <i>International Journal of Structural Integrity</i> , 2016, 7, 490-515.	1.8	12
18	Experimental and numerical study on the effect of repairing reinforced concrete cracked beams strengthened with carbon fibre reinforced polymer laminates. <i>Canadian Journal of Civil Engineering</i> , 2014, 41, 222-231.	0.7	11

#	ARTICLE	IF	CITATIONS
19	A new hybrid-mixed stress model for the analysis of concrete structures using damage mechanics. Computers and Structures, 2013, 125, 23-44.	2.4	10
20	Non-linear dynamic analysis of reinforced concrete structures with hybrid mixed stress finite elements. Advances in Engineering Software, 2021, 153, 102965.	1.8	10
21	Exact component-wise solutions for 3D free vibration and stress analysis of hybrid steel-concrete composite beams. Thin-Walled Structures, 2022, 174, 109094.	2.7	10
22	Experimental and numerical analysis of flexural concrete-UHPFRC/RC composite members. Mechanika, 2017, 23, .	0.3	9
23	A modified Mazars damage model with energy regularization. Engineering Fracture Mechanics, 2022, 259, 108129.	2.0	9
24	Tsai-Wu based orthotropic damage model. Composites Part C: Open Access, 2021, 4, 100122.	1.5	7
25	Proposal of Standard Wildfire Curves for the Design Protection of Dwellings against Wildland Fire. Journal of Hazardous, Toxic, and Radioactive Waste, 2022, 26, .	1.2	7
26	Rethinking How to Protect Dwellings against Wildfires. Journal of Performance of Constructed Facilities, 2021, 35, .	1.0	5
27	Static and dynamic physically non-linear analysis of concrete structures using a hybrid mixed finite element model. Advances in Engineering Software, 2013, 65, 112-131.	1.8	4
28	Structural Assessment of Reinforced-Concrete Arch Underpasses Subjected to Vehicular Overloads. Journal of Performance of Constructed Facilities, 2014, 28, 321-329.	1.0	4
29	Bond Behavior of Straight and Bent Glass Fiber-Reinforced Polymer Bars at Elevated Temperatures: Pull-Out Tests and Numerical Simulations. Journal of Composites for Construction, 2022, 26, .	1.7	4
30	Pre-design guidelines for GFRP composite sandwich panels. Engineering Solid Mechanics, 2020, , 169-186.	0.6	3
31	Energetic Convergence of a New Hybrid Mixed Finite Element. Engineering Solid Mechanics, 2019, , 291-312.	0.6	3
32	Computation of critical loads and buckling modes using hybrid-mixed stress finite element models. Computers and Structures, 2015, 154, 72-90.	2.4	2
33	On a mixed time integration procedure for non-linear structural dynamics. Engineering Computations, 2015, 32, 329-369.	0.7	2
34	Experimental and Numerical Investigations on the Structural Response of Precast Concrete Underpasses Subjected to Live Loads. Baltic Journal of Road and Bridge Engineering, 2013, 8, 48-57.	0.4	2
35	Accounting for Architectural Demands and Construction Phase in Structural Design. Practice Periodical on Structural Design and Construction, 2012, 17, 119-126.	0.7	1
36	Parametric test for the preliminary design of suspension bridges. International Journal of Advanced Structural Engineering, 2017, 9, 165-176.	1.3	1

#	ARTICLE	IF	CITATIONS
37	Time Integration Procedures with Hybrid-Mixed Stress Finite Elements. , 0, , .		1
38	Experimental and Analytical Study on Local Buckling Behavior of the Concrete-filled Thin-walled Welded Steel Columns. Periodica Polytechnica: Civil Engineering, 0, , .	0.6	1
39	Hybrid-Mixed Stress Finite Element Models for the Dynamic Analysis of Reinforced Concrete Frame Structures. , 0, , .		0