Paulo J S Cruz

List of Publications by Year
in descending order

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39 papers	1,107 citations	471061 17 h-index	395343 33 g-index
39 all docs	39 docs citations	39 times ranked	991 citing authors

#	Article	IF	Citations
1	Fiber Optic Sensors for Bridge Monitoring. Journal of Bridge Engineering, 2003, 8, 362-373.	1.4	163
2	Experimental analysis of Perfobond shear connection between steel and lightweight concrete. Journal of Constructional Steel Research, 2004, 60, 465-479.	1.7	113
3	Performance of Vibrationâ€Based Damage Detection Methods in Bridges. Computer-Aided Civil and Infrastructure Engineering, 2009, 24, 62-79.	6.3	111
4	Probabilistic Lifetime-Oriented Multiobjective Optimization of Bridge Maintenance: Single Maintenance Type. Journal of Structural Engineering, 2006, 132, 991-1005.	1.7	76
5	Probabilistic models for mechanical properties of concrete, reinforcing steel and pre-stressing steel. Structure and Infrastructure Engineering, 2012, 8, 111-123.	2.0	63
6	Nonlinear Time-Dependent Analysis of Segmentally Constructed Structures. Journal of Structural Engineering, 1998, 124, 278-287.	1.7	62
7	Structural analysis of two King-post timber trusses: Non-destructive evaluation and load-carrying tests. Construction and Building Materials, 2010, 24, 371-383.	3.2	62
8	Experimental behaviour of end-plate beam-to-column composite joints under monotonical loading. Engineering Structures, 2001, 23, 1383-1409.	2.6	57
9	Experimental evaluation of different strengthening techniques of traditional timber connections. Engineering Structures, 2011, 33, 2259-2270.	2.6	54
10	Experimental analysis of shear connection between steel and lightweight concrete. Journal of Constructional Steel Research, 2009, 65, 1954-1963.	1.7	46
11	Experimental analysis of laterally loaded nailed timber-to-concrete connections. Construction and Building Materials, 2009, 23, 400-410.	3.2	44
12	Cost of life extension of deteriorating structures under reliability-based maintenance. Computers and Structures, 2004, 82, 1077-1089.	2.4	28
13	An innovative framework for probabilistic-based structural assessment with an application to existing reinforced concrete structures. Engineering Structures, 2016, 111, 552-564.	2.6	27
14	Database for the semi-rigid behaviour of beam-to-column connections in seismic regions. Journal of Constructional Steel Research, 1998, 46, 233-234.	1.7	25
15	Practical implications of GPR investigation using 3D data reconstruction and transmission tomography. Journal of Building Appraisal, 2007, 3, 59-76.	0.4	24
16	Application of radar techniques to the verification of design plans and the detection of defects in concrete bridges. Structure and Infrastructure Engineering, 2010, 6, 395-407.	2.0	22
17	Load capacity of damaged RC slab spans of railway-bridges. Archives of Civil and Mechanical Engineering, 2011, 11, 963-978.	1.9	21
18	Probabilistic-based assessment of existing steel-concrete composite bridges â€“ Application to Sousa River Bridge. Engineering Structures, 2019, 181, 95-110.	2.6	18

#	Article	IF	Citations
19	Serviceability assessment of the GÃ³is footbridge using vibration monitoring. Case Studies in Nondestructive Testing and Evaluation, 2014, 2, 71-76.	1.7	16
20	Probability-Based Assessment of Existing Concrete Bridgesâ€"Stochastic Resistance Models and Applications. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2009, 19, 203-210.	0.5	11
21	Additive manufacturing effect on the mechanical behaviour of architectural stoneware bricks. Construction and Building Materials, 2020, 238, 117690.	3.2	11
22	Reliability analysis of steel connection components based on FEM. Engineering Failure Analysis, 2001, 8, 29-48.	1.8	9
23	Surface functionalization of 3D printed structures: Aesthetic and antibiofouling properties. Surface and Coatings Technology, 2020, 386, 125464.	2.2	9
24	Experimental analysis on steel and lightweight concrete composite beams. Steel and Composite Structures, 2010, 10, 169-185.	1.3	7
25	Audacious and Elegant 19th Century Porto Bridges. Practice Periodical on Structural Design and Construction, 2003, 8, 217-225.	0.7	4
26	Ave River Bridge - A Major Precast Prestressed Concrete U-Girder Bridge in Portugal. PCI Journal, 2004, 49, 72-86.	0.4	4
27	Innovative and Contemporary Porto Bridges. Practice Periodical on Structural Design and Construction, 2004, 9, 26-43.	0.7	3
28	Structural Grades of Timber by Bending and Compression Tests. Materials Science Forum, 2006, 514-516, 1663-1667.	0.3	3
29	Connecting through the reinforcement â€“ design, testing and construction of a folded reinforced glass structure. Journal of Facade Design and Engineering, 2014, 2, 109-122.	0.1	3
30	Probabilistic-based assessment of composite steel-concrete structures through an innovative framework. Steel and Composite Structures, 2016, 20, 1345-1368.	1.3	3
31	Deterioration and Structural Performance of Reinforced Concrete Beams. , 2003, , 59.		2
32	Design for Additive Manufacturing of Mechanical Connections Toward Hybrid Products. Advances in Intelligent Systems and Computing, 2020, , 418-427.	0.5	2
33	Cost of reliability improvement and deterioration delay of maintained structures. , 2003, , 2332-2335.		1
34	Performance of Transportation Infrastructure. Journal of Performance of Constructed Facilities, 2012, 26, 136-137.	1.0	1
35	The challenges of adopting BIM for setting and infrastructure management of University of Minho. E3S Web of Conferences, 2018, 48, 02002.	0.2	1
36	CrÃ³nica de uma pandemia. , 2020, , 97-126.		1

#	Article	IF	Citations
37	Edgar Cardoso: a tribute to a brilliant bridge engineer. Structure and Infrastructure Engineering, 2017, 13, 517-536.	2.0	0
38	Connections and joints in buildings: Revisiting the main concepts on building materials life cycleâ€™s circularity. IOP Conference Series: Earth and Environmental Science, 2019, 225, 012062.	0.2	0
39	Life cycle costs. The importance of the users' costs. IABSE Symposium Report, 2019, , .	0.0	0