

# Carlos Rebelo

## List of Publications by Year in descending order

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93  
papers

1,782  
citations

257429

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302107

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100  
docs citations

100  
times ranked

1146  
citing authors

#	ARTICLE	IF	CITATIONS
1	Seismic Performance of Steel MRFs Designed to the Provisions of the Latest Draft Eurocode 8: Case Studies. Lecture Notes in Civil Engineering, 2022, , 1056-1063.	0.4	1
2	Concrete-filled cold-formed steel (CF-CFS) built-up columns under compression: Test and design. Thin-Walled Structures, 2022, 179, 109603.	5.3	36
3	Eurocode 8 revision “ Implications on the design and performance of steel moment-resisting frames: Case study. Soil Dynamics and Earthquake Engineering, 2022, 161, 107411.	3.8	4
4	Fatigue crack growth modelling for S355 structural steel considering plasticity-induced crack-closure by means of UniGrow model. International Journal of Fatigue, 2022, 164, 107120.	5.7	2
5	Fatigue experimental characterization of preloaded injection bolts in a metallic bridge strengthening scenario. Engineering Structures, 2021, 234, 112005.	5.3	3
6	Component-based method for quasi-static cyclic behaviour of steel joints. Journal of Constructional Steel Research, 2021, 181, 106551.	3.9	7
7	Cyclic behaviour of steel beam-column joints and calculation tools. Ce/Papers, 2021, 4, 1974-1981.	0.3	0
8	Fatigue life of preloaded injection bolts in a bridge strengthening scenario “ sensitivity analysis of fatigue life estimators. Ce/Papers, 2021, 4, 125-130.	0.3	0
9	Experimental assessment of bolted T-stubs under cyclic loading. Ce/Papers, 2021, 4, 1982-1991.	0.3	1
10	Fatigue of Preloaded Bolted Connections with Injection Bolts. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2020, 30, 102-108.	0.8	5
11	Assessment Procedure and Rehabilitation Criteria for Riveted Road Bridges. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2020, 30, 109-118.	0.8	4
12	Safety Assessment of Eurocode 3 Stability Design Rules for Prismatic Members in Bending and Compression. International Journal of Steel Structures, 2020, 20, 343-354.	1.3	4
13	Understanding the cyclic performance of composite steel-concrete connections on steel bridges. Engineering Structures, 2020, 224, 111213.	5.3	27
14	Life Cycle Assessment of Tall Onshore Hybrid Steel Wind Turbine Towers. Energies, 2020, 13, 3950.	3.1	22
15	Innovative Strengthening Method for Steel Truss Nodes “Experimental Results. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2019, 29, 542-546.	0.8	2
16	Modal Identification and Strengthening Techniques on Centenary Portela Bridge. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2019, 29, 586-594.	0.8	2
17	Fatigue characterization of a beam-to-column riveted joint. Engineering Failure Analysis, 2019, 103, 95-123.	4.0	15
18	Alternative steel lattice structures for wind energy converters. International Journal of Structural Integrity, 2019, 12, 48-69.	3.3	8

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19	Fatigue resistance curves for single and double shear riveted joints from old portuguese metallic bridges. <i>Engineering Failure Analysis</i> , 2019, 96, 255-273.	4.0	28
20	Ductility-Equivalent Viscous Damping Relationships for Beam-to-Column Partial-Strength Steel Joints. <i>Journal of Earthquake Engineering</i> , 2019, 23, 810-836.	2.5	3
21	Numerical study of monopile offshore foundation dynamic behaviour using coupled simulation. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2019, 172, 580-589.	0.8	4
22	A year-long monitoring of preloaded free-maintenance bolts – Estimation of preload loss on BobTail bolts. <i>Renewable Energy</i> , 2018, 116, 123-135.	8.9	13
23	Transition piece design for an onshore hybrid wind turbine with multiaxial fatigue life estimation. <i>Wind Engineering</i> , 2018, 42, 286-303.	1.9	11
24	Steel hybrid onshore wind towers installed with minimal effort: Development of lifting process. <i>Wind Engineering</i> , 2018, 42, 335-352.	1.9	8
25	Wind energy technology (WINERCOST). <i>Wind Engineering</i> , 2018, 42, 267-267.	1.9	5
26	Axial Monotonic and Cyclic Testing of Micropiles in Loose Sand. <i>Geotechnical Testing Journal</i> , 2018, 41, 526-542.	1.0	8
27	Cyclic behaviour characterization of web panel components in bolted end-plate steel joints. <i>Journal of Constructional Steel Research</i> , 2017, 133, 310-333.	3.9	24
28	Mixed mode (I+II) fatigue crack growth in puddle iron. <i>Engineering Fracture Mechanics</i> , 2017, 185, 175-192.	4.3	46
29	Parametric finite element analyses on flush end-plate joints under column removal. <i>Journal of Constructional Steel Research</i> , 2017, 137, 77-92.	3.9	41
30	Statistical evaluation of fatigue strength of double shear riveted connections and crack growth rates of materials from old bridges. <i>Engineering Fracture Mechanics</i> , 2017, 185, 241-257.	4.3	43
31	01.02: Bobtail® bolt preload loss in wind turbine tower prototype: Hammerstein-Wiener identification model. <i>Ce/Papers</i> , 2017, 1, 175-184.	0.3	1
32	11.12: Derivation of the cyclic behaviour of components in bolted end-plate beam-to-column joints using FEM. <i>Ce/Papers</i> , 2017, 1, 2926-2935.	0.3	0
33	01.15: Numerical investigation of preloaded gusset plate connections between polygonal built-up members. <i>Ce/Papers</i> , 2017, 1, 292-297.	0.3	0
34	Fatigue Strength Evaluation of Resin-Injected Bolted Connections Using Statistical Analysis. <i>Engineering</i> , 2017, 3, 795-805.	6.7	16
35	18.06: Preliminary transition piece design for an onshore wind turbine. <i>Ce/Papers</i> , 2017, 1, 4400-4409.	0.3	0
36	New Lattice-Tubular Tower for Onshore WEC – Part 1: Structural Optimization. <i>Procedia Engineering</i> , 2017, 199, 3236-3241.	1.2	11

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37	01.04: Joints between open section beams and tubular columns: New configuration for semi-rigid and moment resistant bolted joints. Ce/Papers, 2017, 1, 195-204.	0.3	0
38	NUMERICAL ANALYSIS OF A DOUBLE SHEAR STANDARD BOLTED CONNECTION CONSIDERING MONOTONIC LOADINGS. Engineering Structures and Technologies, 2017, 9, 183-194.	0.1	3
39	Dual-concentrically Braced Frames Using High Strength Steel " Seismic Response. Open Civil Engineering Journal, 2017, 11, 496-512.	0.8	2
40	Statistical analysis of fatigue crack propagation data of materials from ancient portuguese metallic bridges. Frattura Ed Integrita Strutturale, 2017, 11, 136-146.	0.9	7
41	Innovative strengthening of steel truss nodes by Ultra-High Performance Concrete. IABSE Symposium Report, 2017, , .	0.0	0
42	Robustness Assessment of Steel Moment Resisting Frames. Open Civil Engineering Journal, 2017, 11, 420-433.	0.8	1
43	Resistance of cold-formed high strength steel circular and polygonal sections - Part 2: Numerical investigations. Journal of Constructional Steel Research, 2016, 125, 227-238.	3.9	5
44	Fatigue assessment of steel half-pipes bolted connections using local approaches. Procedia Structural Integrity, 2016, 1, 118-125.	0.8	4
45	Structural behaviour of prestressed stayed columns with single and double cross-arms using normal and high strength steel. Archives of Civil and Mechanical Engineering, 2016, 16, 618-633.	3.8	20
46	Mixed Mode (I+II) Fatigue Crack Growth of Long Term Operating Bridge Steel. Procedia Engineering, 2016, 160, 262-269.	1.2	16
47	Design S-N Curves for Old Portuguese and French Riveted Bridges Connection Based on Statistical Analyses. Procedia Engineering, 2016, 160, 77-84.	1.2	12
48	Characterization of the Cyclic Behavior of the Web Components in End-plate Beam-to-column Joints. Procedia Engineering, 2016, 160, 101-108.	1.2	6
49	Global Fatigue Life Modelling of Steel Half-pipes Bolted Connections. Procedia Engineering, 2016, 160, 278-284.	1.2	3
50	High strength steel in chevron concentrically braced frames designed according to Eurocode 8. Engineering Structures, 2016, 124, 167-185.	5.3	56
51	Resistance of cold-formed high strength steel circular and polygonal sections " Part 1: Experimental investigations. Journal of Constructional Steel Research, 2016, 120, 245-257.	3.9	23
52	Improved design of tubular wind tower foundations using steel micropiles. Structure and Infrastructure Engineering, 2016, 12, 1038-1050.	3.7	4
53	Development of a facial expression scale using footrot and mastitis as models of pain in sheep. Applied Animal Behaviour Science, 2016, 176, 19-26.	1.9	128
54	Characterization of web panel components in double-extended bolted end-plate steel joints. Journal of Constructional Steel Research, 2016, 116, 271-293.	3.9	33

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55	Influence of seismic design rules on the robustness of steel moment resisting frames. <i>Steel and Composite Structures</i> , 2016, 21, 479-500.	1.3	50
56	SAFETY ASSESSMENT OF EUROCODE 3 STABILITY DESIGN RULES FOR THE FLEXURAL BUCKLING OF COLUMNS. , 2016, , 328-358.		3
57	Steel-concrete composite structures. , 2016, , 129-172.		0
58	Friction connection vs. ring flange connection in steel towers for wind converters. <i>Engineering Structures</i> , 2015, 98, 151-162.	5.3	19
59	Cyclic Performance of Single and Group Micropiles on Loose Sand. , 2015, , .		2
60	A full scale experimental study of prestressed stayed columns. <i>Engineering Structures</i> , 2015, 100, 490-510.	5.3	40
61	Technical note: Validation of an automatic recording system to assess behavioural activity level in sheep ( <i>Ovis aries</i> ). <i>Small Ruminant Research</i> , 2015, 127, 92-96.	1.2	25
62	Connections in towers for wind converters, Part II: The friction connection behaviour. <i>Journal of Constructional Steel Research</i> , 2015, 115, 458-466.	3.9	18
63	Connections in towers for wind converters, part I: Evaluation of down-scaled experiments. <i>Journal of Constructional Steel Research</i> , 2015, 115, 445-457.	3.9	29
64	Comparative life cycle assessment of tubular wind towers and foundations – Part 1: Structural design. <i>Engineering Structures</i> , 2014, 74, 283-291.	5.3	23
65	Comparative life cycle assessment of tubular wind towers and foundations – Part 2: Life cycle analysis. <i>Engineering Structures</i> , 2014, 74, 292-299.	5.3	13
66	Towards a standardized procedure for the safety assessment of stability design rules. <i>Journal of Constructional Steel Research</i> , 2014, 103, 290-302.	3.9	37
67	Seismic performance of dual-steel moment resisting frames. <i>Journal of Constructional Steel Research</i> , 2014, 101, 437-454.	3.9	58
68	Extension of EC3-1-1 interaction formulae for the stability verification of tapered beam-columns. <i>Journal of Constructional Steel Research</i> , 2014, 100, 122-135.	3.9	19
69	Rayleigh-Ritz procedure for determination of the critical load of tapered columns. <i>Steel and Composite Structures</i> , 2014, 16, 45-58.	1.3	9
70	Development of a consistent design procedure for lateral-torsional buckling of tapered beams. <i>Journal of Constructional Steel Research</i> , 2013, 89, 213-235.	3.9	25
71	Design of slip resistant lap joints with long open slotted holes. <i>Journal of Constructional Steel Research</i> , 2013, 82, 223-233.	3.9	34
72	RESISTANCE OF DOOR OPENINGS IN TOWERS FOR WIND TURBINES. , 2013, , .		0

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73	Serious Game in Security: A Solution for Security Trainees. Procedia Computer Science, 2012, 15, 274-282.	2.0	6
74	A comparison of the fatigue behavior between S355 and S690 steel grades. Journal of Constructional Steel Research, 2012, 79, 140-150.	3.9	150
75	Development of a consistent buckling design procedure for tapered columns. Journal of Constructional Steel Research, 2012, 72, 61-74.	3.9	43
76	Application of Endurance Time method in seismic assessment of mid-rise and high-rise steel moment and braced frames. , 2012, , 131-136.		1
77	Structural monitoring of a wind turbine steel tower - Part I: system description and calibration. Wind and Structures, an International Journal, 2012, 15, 285-299.	0.8	13
78	Structural monitoring of a wind turbine steel tower - Part II: monitoring results. Wind and Structures, an International Journal, 2012, 15, 301-311.	0.8	8
79	Wind turbine tower design, erection and maintenance. , 2011, , 274-300.		11
80	Flexural Buckling Behaviour of Non-Prismatic Columns. , 2011, , .		0
81	CABLE TENSIONING CONTROL AND MODAL IDENTIFICATION OF A CIRCULAR CABLE-STAYED FOOTBRIDGE. Experimental Techniques, 2010, 34, 62-68.	1.5	16
82	Numerical validation of the general method in EC3-1-1 for prismatic members. Journal of Constructional Steel Research, 2010, 66, 575-590.	3.9	30
83	Influence of ballast models in the dynamic response of railway viaducts. Journal of Sound and Vibration, 2010, 329, 3030-3040.	3.9	57
84	Friction connection in tubular towers for a wind turbine. Stahlbau, 2010, 79, 660-668.	0.1	21
85	Statistical evaluation of the lateral-torsional buckling resistance of steel I-beams, Part 2: Variability of steel properties. Journal of Constructional Steel Research, 2009, 65, 832-849.	3.9	83
86	Statistical evaluation of the lateral-torsional buckling resistance of steel I-beams, Part 1: Variability of the Eurocode 3 resistance model. Journal of Constructional Steel Research, 2009, 65, 818-831.	3.9	65
87	Dynamic behaviour of twin single-span ballasted railway viaducts - Field measurements and modal identification. Engineering Structures, 2008, 30, 2460-2469.	5.3	82
88	Structural assessment of the tower of the University of Coimbra by modal identification. Engineering Structures, 2008, 30, 3468-3477.	5.3	47
89	Long-term monitoring of a eighty meters high wind turbine steel tower. , 2008, , .		0
90	Statistical Evaluation of the Eurocode 3 Design Rules for Lateral-Torsional Buckling of I-Beams. , 2006, , 700-700.		2

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91	Vibration Assessment of Railway Viaducts Under Real Traffic Using Bridge-Track Models. , 2006, , 328-328.		1
92	Extension of the Component Method to End-Plate Beam-to-Column Steel Joints Subjected to Seismic Loading. Computational Science, Engineering and Technology Series, 0, , 149-167.	0.2	2
93	Influence of Track Irregularities on the Dynamic Behaviour of Medium Span Viaducts. , 0, , .		0