

Aitor Baldomir

List of Publications by Year in descending order

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53
papers

452
citations

623734

14
h-index

713466

21
g-index

55
all docs

55
docs citations

55
times ranked

255
citing authors

#	ARTICLE	IF	CITATIONS
1	Cable optimization of a long span cable stayed bridge in La Coruña (Spain). <i>Advances in Engineering Software</i> , 2010, 41, 931-938.	3.8	53
2	A reliability study for the Messina Bridge with respect to flutter phenomena considering uncertainties in experimental and numerical data. <i>Computers and Structures</i> , 2013, 128, 91-100.	4.4	43
3	Reliability based design optimization of long-span bridges considering flutter. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2014, 135, 149-162.	3.9	37
4	Reliability-based design optimization of composite stiffened panels in post-buckling regime. <i>Structural and Multidisciplinary Optimization</i> , 2017, 55, 1121-1141.	3.5	27
5	Benchmarking of three-dimensional finite element models of CFRP single-lap bonded joints. <i>International Journal of Adhesion and Adhesives</i> , 2010, 30, 178-189.	2.9	26
6	Reliability based design optimization for bridge girder shape and plate thicknesses of long-span suspension bridges considering aeroelastic constraint. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 202, 104176.	3.9	25
7	Improved Optimization Formulations for Launching Nose of Incrementally Launched Prestressed Concrete Bridges. <i>Journal of Bridge Engineering</i> , 2011, 16, 461-470.	2.9	24
8	The importance of correlation among flutter derivatives for the reliability based optimum design of suspension bridges. <i>Engineering Structures</i> , 2018, 173, 416-428.	5.3	23
9	Optimum crossing cable system in multi-span cable-stayed bridges. <i>Engineering Structures</i> , 2018, 160, 342-355.	5.3	22
10	Multi-model reliability-based design optimization of structures considering the intact configuration and several partial collapses. <i>Structural and Multidisciplinary Optimization</i> , 2018, 57, 977-994.	3.5	22
11	Deterministic versus reliability-based topology optimization of aeronautical structures. <i>Structural and Multidisciplinary Optimization</i> , 2016, 53, 907-921.	3.5	21
12	Probabilistic optimization of the main cable and bridge deck of long-span suspension bridges under flutter constraint. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 146, 59-70.	3.9	20
13	The relevance of reliability-based topology optimization in early design stages of aircraft structures. <i>Structural and Multidisciplinary Optimization</i> , 2018, 57, 417-439.	3.5	19
14	Optimization approach for identification of dynamic parameters of localized joints of aircraft assembled structures. <i>Aerospace Science and Technology</i> , 2017, 69, 538-549.	4.8	15
15	Probability-damage approach for fail-safe design optimization (PDFSO). <i>Structural and Multidisciplinary Optimization</i> , 2020, 62, 3149-3163.	3.5	12
16	Size Optimization of Shell Structures Considering Several Incomplete Configurations. , 2012, , .		9
17	Dynamic analysis of assembled aircraft structures considering interfaces with nonlinear behavior. <i>Aerospace Science and Technology</i> , 2018, 77, 265-272.	4.8	9
18	CFD practical application in conceptual design of a 425 m cable-stayed bridge. <i>Wind and Structures, an International Journal</i> , 2010, 13, 309-326.	0.8	9

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19	Simultaneous Cross Section and Launching Nose Optimization of Incrementally Launched Bridges. Journal of Bridge Engineering, 2014, 19, 04013002.	2.9	8
20	Multi-model optimization approach of aircraft structures under uncertainty using horsetail matching and RBDO methods. , 2020, , .		4
21	Optimum size, position and number of cables in cable-stayed bridges. , 2016, , .		4
22	A methodology for identification of dynamic parameters in assembled aircraft structures. WIT Transactions on Modelling and Simulation, 2013, , .	0.0	3
23	STUDY OF PEDESTRIAN COMFORT IN A THREE SPAN STRESS RIBBON FOOTBRIDGE WITH CARBON FIBRE CABLES. , 2020, , .		3
24	DESIGN OPTIMIZATION OF STRUCTURES CONSIDERING MULTIPLE ULTIMATE LIMIT STATE. , 2010, , .		2
25	Cable optimization of a long span cable stayed bridge in La Coruña (Spain). , 2009, , .		2
26	Some applications of reliability based design optimization in engineering structures. WIT Transactions on the Built Environment, 2014, , .	0.0	2
27	Reliability index based strategy for the probability-damage approach in fail-safe design optimization (\hat{i}^2 -PDFSO). Engineering With Computers, 2023, 39, 2125-2146.	6.1	2
28	Conceptual Design of the Cable Stayed Miradoiros Bridge in La Coruna (Spain). , 2010, , .		1
29	An Efficient Approach to Structural Optimization of Aircraft Structures Considering Parameter Variation. , 2011, , .		1
30	A fast convergence approximate RBDO method considering both random and evidence variables. , 2019, , .		1
31	Probability-Damage approach for Fail-Safe design Optimization under Aleatory Uncertainty ($\langle i \rangle^2$ -PDFSO). , 2021, , .		1
32	Fast Convergence Reliability-Based Design Optimization Method Considering Random and Evidence Variables. AIAA Journal, 2022, 60, 2568-2579.	2.6	1
33	Reliability Analysis Methods Applied to Large Scale Aircraft Structures. , 2011, , .		0
34	Sensitivity analysis of optimum solutions by updating active constraints: application in aircraft structural design. Structural and Multidisciplinary Optimization, 2011, 44, 797-814.	3.5	0
35	Optimization of Cable Cross-Sectional Area in Long Span Cable Stayed Bridges. , 2012, , .		0
36	Comparison of reliability based structural optimization methodologies in the design of aircraft structures. , 2014, , 4943-4949.		0

#	ARTICLE	IF	CITATIONS
37	Assessment of Seismic Behaviour of Portal Bridges with Double Friction Pendulum Bearings. IABSE Symposium Report, 2014, , .	0.0	0
38	Structural Optimization in Civil Engineering Classroom: A Twenty-Year Experience Report. , 2015, , .		0
39	Reliability-Based Optimization of the Stacking Sequence Layup in Post-Buckled Composite Stiffened Panels. Key Engineering Materials, 2016, 713, 22-25.	0.4	0
40	The relevance of reliability-based topology optimization in preliminary phases of aerospace structural design. , 2017, , .		0
41	Dynamic analysis of assembled aircraft structures with nonlinear joints. , 2017, , .		0
42	Comparison of metamodeling techniques for uncertainty quantification and global sensitivity analysis in assembled aircraft structures. , 2018, , .		0
43	DamageCreator: A global tool for generating finite element models of damaged aircraft due to blade release or uncontained engine rotor failure. , 2021, , .		0
44	MC1 Bridge 1. Wind Engineers JAWE, 2006, 2006, 279-302.	0.1	0
45	Designing challenging bridges in northwest Spain. WIT Transactions on Engineering Sciences, 2007, , .	0.0	0
46	Seismic analyses of the Messina Bridge project. WIT Transactions on Engineering Sciences, 2007, , .	0.0	0
47	Three examples of flutter analysis of cable-stayed bridges. , 2011, , .		0
48	Some challenges on the aeroelastic analysis and design of long span bridges. , 2011, , .		0
49	Uncertainty and reliability in aircraft design and optimization. , 2012, , .		0
50	Non-conventional Cable System in Multi-span Cable-stayed Bridges. , 2018, , .		0
51	EXPERIENCES ON STRUCTURAL OPTIMIZATION UNDER UNCERTAINTY IN AEROSPACE COMPONENTS. WIT Transactions on the Built Environment, 2018, , .	0.0	0
52	Fail-safe design optimization of an aircraft fuselage-wing section using the DamageCreator software. , 2022, , .		0
53	An open-source framework for aircraft damage simulation in engine failure events. Journal of Computational Science, 2022, , 101682.	2.9	0