

Javier Canales

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

425
citations

840728

11
h-index

752679

20
g-index

27
all docs

27
docs citations

27
times ranked

321
citing authors

#	ARTICLE	IF	CITATIONS
1	A simple evolutionary topology optimization procedure for compliant mechanism design. Finite Elements in Analysis and Design, 2007, 44, 53-62.	3.2	74
2	An integrated approach for shape and topology optimization of shell structures. Computers and Structures, 2002, 80, 449-458.	4.4	50
3	Combined shape and reinforcement layout optimization of shell structures. Structural and Multidisciplinary Optimization, 2004, 27, 219-227.	3.5	40
4	3D compliant mechanisms synthesis by a finite element addition procedure. Finite Elements in Analysis and Design, 2010, 46, 760-769.	3.2	32
5	An efficient sensitivity computation strategy for the evolutionary structural optimization (ESO) of continuum structures subjected to self-weight loads. Finite Elements in Analysis and Design, 2006, 42, 1220-1230.	3.2	30
6	On simultaneous shape and material layout optimization of shell structures. Structural and Multidisciplinary Optimization, 2002, 24, 175-184.	3.5	26
7	Evolutionary optimization of compliant mechanisms subjected to non-uniform thermal effects. Finite Elements in Analysis and Design, 2012, 57, 1-14.	3.2	22
8	Effect of microwave heating damage on the electrical, thermal and mechanical properties of fibre-reinforced cement mortars. Construction and Building Materials, 2018, 186, 31-41.	7.2	17
9	An element addition strategy for thermally actuated compliant mechanism topology optimization. Engineering Computations, 2010, 27, 694-711.	1.4	15
10	Wear and MnS Layer Adhesion in Uncoated Cutting Tools When Dry and Wet Turning Free-Cutting Steels. Metals, 2019, 9, 556.	2.3	15
11	Lime mud waste from the paper industry as a partial replacement of cement in mortars used on radiant floor heating systems. Journal of Building Engineering, 2021, 41, 102408.	3.4	15
12	Experimental evaluation of cement mortars with recycled brass fibres from the electrical discharge machining process. Construction and Building Materials, 2020, 246, 118522.	7.2	11
13	Thermal and mechanical properties of mortars reinforced with recycled brass fibres. Construction and Building Materials, 2021, 284, 122832.	7.2	11
14	An adaptive mesh refinement procedure for shape optimal design. Advances in Engineering Software, 1993, 18, 131-145.	3.8	10
15	A segregated method for compressible flow computation. Part II: general divariant compressible flows. International Journal for Numerical Methods in Fluids, 2005, 49, 183-209.	1.6	10
16	Theoretical analysis of the pumping effect of rotary hydrodynamic seals with elastomeric lips. Tribology International, 2007, 40, 896-905.	5.9	9
17	On the thermodynamics, stability and hierarchy of entropy functions in fluid flow. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 4473-4489.	6.6	8
18	Electro-thermal compliant mechanisms design by an evolutionary topology optimization method. Engineering Computations, 2013, 30, 961-981.	1.4	8

#	ARTICLE	IF	CITATIONS
19	A segregated method for compressible flow computation Part I: isothermal compressible flows. International Journal for Numerical Methods in Fluids, 2005, 47, 271-323.	1.6	6
20	Stamping die design based on numerical simulation and knowledge systematization. International Journal of Computer Integrated Manufacturing, 1999, 12, 427-438.	4.6	5
21	Análisis plástico y Ensayos de Losas multidireccionales de HRFA. Informes De La Construcción, 2014, 66, e031.	0.3	5
22	Codisys: An integrated system for optimal structural design. Computers and Structures, 1994, 52, 1221-1241.	4.4	3
23	Optimization of structures with frequency and mode shape constraints. Engineering Computations, 1994, 11, 81-91.	1.4	3
24	DESIGN OF COMPLIANT MECHANISMS WITH A SEQUENTIAL ELEMENT REJECTION AND ADMISSION METHOD. , 0, , .		0
25	Harea berdeen erabilera morteroen eroankortasun termikoa aldatzeko. Ekaia (journal), 0, , .	0.0	0
26	An Evolutionary Approach for the Topology Synthesis of Compliant Mechanisms. , 0, , .		0
27	On the Design of a Compliant Mechanism with Non-Uniform Thermal Effects using Evolutionary Structural Optimization. , 0, , .		0