

Ruben Ansola

List of Publications by Year in descending order

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papers

614
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567144

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42
all docs

42
docs citations

42
times ranked

405
citing authors

#	ARTICLE	IF	CITATIONS
1	Infill topology optimization of porous structures with discrete variables by the sequential element rejection and admission method. <i>Engineering Optimization</i> , 2023, 55, 457-475.	1.5	1
2	Mechanical research to optimize parameter selection for PPS material processed by FDM. <i>Materials and Manufacturing Processes</i> , 2022, 37, 1332-1338.	2.7	8
3	Identifying Elastic Constants for PPS Technical Material When Designing and Printing Parts Using FDM Technology. <i>Materials</i> , 2021, 14, 1123.	1.3	5
4	On preventing the dripping effect of overhang constraints in topology optimization for additive manufacturing. <i>Structural and Multidisciplinary Optimization</i> , 2021, 64, 4065-4078.	1.7	7
5	Optimum dimensional synthesis of planar mechanisms with geometric constraints. <i>Meccanica</i> , 2020, 55, 2135-2158.	1.2	8
6	INFILL OPTIMIZATION WITH THE SEQUENTIAL ELEMENT REJECTION AND ADMISSION METHOD: POROUS STRUCTURES FOR ADDITIVE MANUFACTURING. <i>WIT Transactions on the Built Environment</i> , 2020, , .	0.0	1
7	Optimization of planar mechanisms by using a minimum distance function. <i>Mechanism and Machine Theory</i> , 2019, 138, 149-168.	2.7	13
8	A Flexible Overhang Constraint for Topology Optimization of Compliant Mechanisms. <i>Advantages of Controlling the Additive Manufacturability/Performance Ratio.</i> , 2019, , 372-380.		2
9	Overhang constraint for topology optimization of self-supported compliant mechanisms considering additive manufacturing. <i>CAD Computer Aided Design</i> , 2019, 109, 33-48.	1.4	48
10	A sequential element rejection and admission (SERA) topology optimization code written in Matlab. <i>Structural and Multidisciplinary Optimization</i> , 2018, 58, 1297-1310.	1.7	26
11	A new overhang constraint for topology optimization of self-supporting structures in additive manufacturing. <i>Structural and Multidisciplinary Optimization</i> , 2018, 58, 2003-2017.	1.7	66
12	Discrete Method of Structural Optimization * *Additional author for this chapter is Prof. Dr.-Ing. Dr.-Habil. George I. N. Rozvany.. , 2017, , 27-46.		1
13	User Guides for Enclosed Software * *Additional author for this chapter is Dr. Pedro Jesús Martínez Castejón.. , 2017, , 113-184.		0
14	Growth Method for the Size, Topology, and Geometry Optimization of Truss Structures * *Additional author for this chapter is Dr. Pedro Jesús Martínez Castejón.. , 2017, , 15-26.		0
15	Continuous Method of Structural Optimization. , 2017, , 47-70.		11
16	Topology Optimization as a Digital Design Tool. , 2017, , 93-111.		2
17	Hands-On Applications of Structural Optimization. , 2017, , 71-91.		1
18	Topology optimization of 3D compliant actuators by a sequential element rejection and admission method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 108, 012035.	0.3	1

#	ARTICLE	IF	CITATIONS
19	STUDY OF TOPOLOGY OPTIMIZATION PARAMETERS AND SCAFFOLD STRUCTURES IN ADDITIVE MANUFACTURING. , 2016, , .		0
20	An alternative full-pivoting algorithm for the factorization of indefinite symmetric matrices. Journal of Computational and Applied Mathematics, 2015, 274, 44-57.	1.1	6
21	Topology synthesis of Multi-Input“Multi-Output compliant mechanisms. Advances in Engineering Software, 2014, 76, 125-132.	1.8	18
22	Topology synthesis of multi-material compliant mechanisms with a Sequential Element Rejection and Admission method. Finite Elements in Analysis and Design, 2014, 85, 11-19.	1.7	22
23	On introducing restrictions for mechanism design. , 2014, , 1035-1038.		0
24	A Sequential Element Rejection and Admission (SERA) method for compliant mechanisms design. Structural and Multidisciplinary Optimization, 2013, 47, 795-807.	1.7	28
25	Electro-thermal compliant mechanisms design by an evolutionary topology optimization method. Engineering Computations, 2013, 30, 961-981.	0.7	8
26	Dental Implants with Conical Implant-Abutment Interface: Influence of the Conical Angle Difference on the Mechanical Behavior of the Implant. International Journal of Oral and Maxillofacial Implants, 2013, 28, e72-e82.	0.6	20
27	Second order mobility analysis of mechanisms using closure equations. Meccanica, 2012, 47, 1695-1704.	1.2	16
28	Evolutionary optimization of compliant mechanisms subjected to non-uniform thermal effects. Finite Elements in Analysis and Design, 2012, 57, 1-14.	1.7	22
29	Parameter study of a SERA method to design compliant mechanism. , 2012, , .		3
30	An element addition strategy for thermally actuated compliant mechanism topology optimization. Engineering Computations, 2010, 27, 694-711.	0.7	15
31	3D compliant mechanisms synthesis by a finite element addition procedure. Finite Elements in Analysis and Design, 2010, 46, 760-769.	1.7	32
32	A simple evolutionary topology optimization procedure for compliant mechanism design. Finite Elements in Analysis and Design, 2007, 44, 53-62.	1.7	74
33	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.	1.7	30
34	Combined shape and reinforcement layout optimization of shell structures. Structural and Multidisciplinary Optimization, 2004, 27, 219-227.	1.7	40
35	On simultaneous shape and material layout optimization of shell structures. Structural and Multidisciplinary Optimization, 2002, 24, 175-184.	1.7	26
36	An integrated approach for shape and topology optimization of shell structures. Computers and Structures, 2002, 80, 449-458.	2.4	50

#	ARTICLE	IF	CITATIONS
37	Design of Structures subject to Multiple Loading or Multiple Support Conditions with a SERA Method. , 0, , .		1
38	DESIGN OF COMPLIANT MECHANISMS WITH A SEQUENTIAL ELEMENT REJECTION AND ADMISSION METHOD. , 0, , .		0
39	An Evolutionary Approach for the Topology Synthesis of Compliant Mechanisms. , 0, , .		0
40	On the Design of a Compliant Mechanism with Non-Uniform Thermal Effects using Evolutionary Structural Optimization. , 0, , .		0