JuliÃ¡n A Norato

List of Publications by Year
in descending order

43 papers	2,111 citations	331670 21 h-index	414414 32 g-index
44 all docs	44 docs citations	44 times ranked	1202 citing authors

#	Article	IF	Citations
1	Topology optimization of structures made of fiber-reinforced plates. Structural and Multidisciplinary Optimization, 2022, 65, 1.	3.5	5
2	Topology Optimization for Buckling via Geometry Projection. , 2022, , .		2
3	Topology optimization of programmable lattices with geometric primitives. Structural and Multidisciplinary Optimization, 2022, 65, 1.	3.5	3
4	Effect of geometrical parameters on the performance of conventional Savonius VAWT: A review. Renewable and Sustainable Energy Reviews, 2022, 161, 112314.	16.4	16
5	Topology Optimization of Fail-Safe Structures via Geometry Projection. , 2021, , .		2
6	Topology optimization of lattices with anisotropic struts. Structural and Multidisciplinary Optimization, 2021, 63, 1653-1668.	3.5	5
7	Topology optimization with discrete geometric components made of composite materials. Computer Methods in Applied Mechanics and Engineering, 2021, 376, 113582.	6.6	21
8	Bone Adaptation-Driven Design of Periodic Scaffolds. Journal of Mechanical Design, Transactions of the ASME, 2021, 143, .	2.9	8
9	Direct process feedback in extrusion-based 3D bioprinting. Biofabrication, 2020, 12, 015017.	7.1	30
10	An error-in-constitutive equations strategy for topology optimization for frequency-domain dynamics. Computer Methods in Applied Mechanics and Engineering, 2020, 372, 113330.	6.6	4
11	A review on feature-mapping methods for structural optimization. Structural and Multidisciplinary Optimization, 2020, 62, 1597-1638.	3.5	72
12	A MATLAB code for topology optimization using the geometry projection method. Structural and Multidisciplinary Optimization, 2020, 62, 1579-1594.	3.5	30
13	Multi-material topology optimization of lattice structures using geometry projection. Computer Methods in Applied Mechanics and Engineering, 2020, 363, 112895.	6.6	49
14	Adaptive mesh refinement for topology optimization with discrete geometric components. Computer Methods in Applied Mechanics and Engineering, 2020, 364, 112930.	6.6	31
15	A Topology Optimization Method for the Design of Orthotropic Plate Structures. , 2020, , .		0
16	Sandwich Structures with Prismatic and Foam Cores: A Review. Advanced Engineering Materials, 2019, 21, 1800036.	3.5	61
17	A Geometry Projection Method for the Design Exploration of Wing-box Structures. , 2019, , .		3
18	Fatigue-based topology optimization with non-proportional loads. Computer Methods in Applied Mechanics and Engineering, 2019, 345, 805-825.	6.6	31

#	Article	IF	Citations
19	Topology Optimization of Multi-Material Lattices for Maximal Bulk Modulus. , 2019, , .		4
20	Geometric Constraints for the Topology Optimization of Structures Made of Primitives. , 2019, , .		9
21	3D cellular metamaterials with planar anti-chiral topology. Materials and Design, 2018, 145, 226-231.	7.0	87
22	Computational design of curvilinear bone scaffolds fabricated via direct ink writing. CAD Computer Aided Design, 2018, 95, 1-13.	2.7	20
23	Stress-based shape and topology optimization with the level set method. Computer Methods in Applied Mechanics and Engineering, 2018, 329, 1-23.	6.6	149
24	A geometry projection method for the topology optimization of curved plate structures with placement bounds. International Journal for Numerical Methods in Engineering, 2018, 114, 128-146.	2.8	32
25	Finding Better Local Optima in Topology Optimization via Tunneling. , 2018, , .		4
26	Blast-resilience of honeycomb sandwich panels. International Journal of Mechanical Sciences, 2018, 144, 1-9.	6.7	9
27	Topology Optimization of Structures Made of Discrete Geometric Components With Different Materials. Journal of Mechanical Design, Transactions of the ASME, 2018, 140, .	2.9	44
28	Topology optimization with supershapes. Structural and Multidisciplinary Optimization, 2018, 58, 415-434.	3.5	26
29	Stress Minimization Using The Level Set Topology Optimization. , 2017, , .		2
30	Stress-based topology optimization with discrete geometric components. Computer Methods in Applied Mechanics and Engineering, 2017, 325, 1-21.	6.6	65
31	Optimal Design of Panel Reinforcements With Ribs Made of Plates. Journal of Mechanical Design, Transactions of the ASME, 2017, 139, .	2.9	35
32	A Geometry Projection Method for the Optimal Design of Panel Reinforcements With Ribs Made of Plates. , 2016, , .		0
33	A geometry projection method for the topology optimization of plate structures. Structural and Multidisciplinary Optimization, 2016, 54, 1173-1190.	3.5	94
34	Special issue dedicated to Founding Editor George Rozvany. Structural and Multidisciplinary Optimization, 2016, 54, 1107-1111.	3.5	0
35	Optimal shape design of axisymmetric structures subject to asymmetric loading. Computer Methods in Applied Mechanics and Engineering, 2015, 293, 283-305.	6.6	4
36	A geometry projection method for continuum-based topology optimization with discrete elements. Computer Methods in Applied Mechanics and Engineering, 2015, 293, 306-327.	6.6	233

#	Article	IF	Citations
37	A Geometry Projection Method for Continuum-Based Topology Optimization of Structures. , 2012, , .		16
38	A Computational and Cellular Solids Approach to the Stiffness-Based Design of Bone Scaffolds. Journal of Biomechanical Engineering, 2011, 133, 091003.	1.3	24
39	Component and system reliability-based topology optimization using a single-loop method. Structural and Multidisciplinary Optimization, 2010, 41, 87-106.	3.5	94
40	Stress-based topology optimization for continua. Structural and Multidisciplinary Optimization, 2010, 41, 605-620.	3.5	557
41	Topology Optimization Under Stochastic Loads via the Single Loop Method. , 2008, , .		1
42	A topological derivative method for topology optimization. Structural and Multidisciplinary Optimization, 2007, 33, 375-386.	3.5	118
43	A geometry projection method for shape optimization. International Journal for Numerical Methods in Engineering, 2004, 60, 2289-2312.	2.8	110