

Tian Chen

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

20
papers

509
citations

9
h-index

20
g-index

20
ext. papers

710
ext. citations

8.3
avg, IF

4.88
L-index

#	Paper	IF	Citations
20	Harnessing bistability for directional propulsion of soft, untethered robots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5698-5702	11.5	171
19	A reprogrammable mechanical metamaterial with stable memory. <i>Nature</i> , 2021 , 589, 386-390	50.4	77
18	Integrated Design and Simulation of Tunable, Multi-State Structures Fabricated Monolithically with Multi-Material 3D Printing. <i>Scientific Reports</i> , 2017 , 7, 45671	4.9	61
17	Autonomous Deployment of a Solar Panel Using Elastic Origami and Distributed Shape-Memory-Polymer Actuators. <i>Physical Review Applied</i> , 2019 , 11,	4.3	51
16	Large Shape Transforming 4D Auxetic Structures. <i>3D Printing and Additive Manufacturing</i> , 2017 , 4, 133-142	4.2	44
15	An Autonomous Programmable Actuator and Shape Reconfigurable Structures Using Bistability and Shape Memory Polymers. <i>3D Printing and Additive Manufacturing</i> , 2018 , 5, 91-101	4	31
14	Programmable, active lattice structures: Unifying stretch-dominated and bending-dominated topologies. <i>Extreme Mechanics Letters</i> , 2019 , 29, 100461	3.9	23
13	Design and Computational Modeling of a 3D Printed Pneumatic Toolkit for Soft Robotics. <i>Soft Robotics</i> , 2019 , 6, 657-663	9.2	16
12	Efficient size and shape optimization of truss structures subject to stress and local buckling constraints using sequential linear programming. <i>Structural and Multidisciplinary Optimization</i> , 2018 , 58, 171-184	3.6	9
11	Bistable auxetic surface structures. <i>ACM Transactions on Graphics</i> , 2021 , 40, 1-9	7.6	6
10	A 3D, performance-driven generative design framework: automating the link from a 3D spatial grammar interpreter to structural finite element analysis and stochastic optimization. <i>Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM</i> , 2018 , 32, 189-199	1.3	5
9	Bending Response of a Book with Internal Friction. <i>Physical Review Letters</i> , 2021 , 126, 218004	7.4	5
8	Design and Fabrication of Hierarchical Multi-Stable Structures Through Multi-Material Additive Manufacturing 2016 ,		3
7	3D weaving with curved ribbons. <i>ACM Transactions on Graphics</i> , 2021 , 40, 1-15	7.6	3
6	Smooth Triaxial Weaving with Naturally Curved Ribbons. <i>Physical Review Letters</i> , 2021 , 127, 104301	7.4	2
5	Studying the Impact of Incorporating an Additive Manufacturing Based Design Exercise in a Large, First Year Technical Drawing and CAD Course 2015 ,		1
4	Computational design of multi-stable, reconfigurable surfaces. <i>Materials and Design</i> , 2021 , 205, 109688	8.1	1

- 3 3D weaving with curved ribbons. *ACM Transactions on Graphics*, **2021**, 40, 1-15 7.6 ○
- 2 Computational inverse design of surface-based inflatables. *ACM Transactions on Graphics*, **2021**, 40, 1-147.6
- 1 Bistable auxetic surface structures. *ACM Transactions on Graphics*, **2021**, 40, 1-9 7.6