

D Zeb Rocklin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6366687/publications.pdf>

Version: 2024-02-01

19
papers

654
citations

623734

14
h-index

888059

17
g-index

19
all docs

19
docs citations

19
times ranked

709
citing authors

#	ARTICLE	IF	CITATIONS
1	Conformal elasticity of mechanism-based metamaterials. Nature Communications, 2022, 13, 211.	12.8	26
2	Flexible Mechanical Structures and Their Topologically Protected Deformations. , 2022, , 1-16.		2
3	Flexible Mechanical Structures and Their Topologically Protected Deformations. , 2022, , 213-227.		0
4	Elasticity of colloidal gels: structural heterogeneity, floppy modes, and rigidity. Soft Matter, 2021, 17, 6929-6934.	2.7	17
5	Soft topological modes protected by symmetry in rigid mechanical metamaterials. Physical Review B, 2021, 103, .	3.2	5
6	Topological Elasticity of Flexible Structures. Physical Review X, 2020, 10, .	8.9	9
7	Hidden symmetries generate rigid folding mechanisms in periodic origami. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30252-30259.	7.1	17
8	Correlated Rigidity Percolation and Colloidal Gels. Physical Review Letters, 2019, 123, 058001.	7.8	56
9	Curved boundaries and chiral instabilities – two sources of twist in homeotropic nematic tori. Soft Matter, 2019, 15, 1210-1214.	2.7	6
10	Mechanical diffraction reveals the role of passive dynamics in a slithering snake. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4798-4803.	7.1	42
11	Curvature-Induced Twist in Homeotropic Nematic Tori. Physical Review Letters, 2018, 121, 247803.	7.8	17
12	Topology and Geometry of Spin Origami. Physical Review Letters, 2018, 121, 177201.	7.8	15
13	Transformable topological mechanical metamaterials. Nature Communications, 2017, 8, 14201.	12.8	137
14	Deformation of Crystals: Connections with Statistical Physics. Annual Review of Materials Research, 2017, 47, 217-246.	9.3	61
15	Directional mechanical response in the bulk of topological metamaterials. New Journal of Physics, 2017, 19, 065004.	2.9	27
16	Fiber networks below the isostatic point: Fracture without stress concentration. Physical Review Materials, 2017, 1, .	2.4	24
17	Mechanical Weyl Modes in Topological Maxwell Lattices. Physical Review Letters, 2016, 116, 135503.	7.8	136
18	Rigidity percolation by next-nearest-neighbor bonds on generic and regular isostatic lattices. Physical Review E, 2015, 91, 032124.	2.1	25

#	ARTICLE	IF	CITATIONS
19	Self-assembly of three-dimensional open structures using patchy colloidal particles. <i>Soft Matter</i> , 2014, 10, 7569-7576.	2.7	32