

# 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	Transformable topological mechanical metamaterials. <i>Nature Communications</i> , 2017, 8, 14201.	12.8	137
2	Mechanical Weyl Modes in Topological Maxwell Lattices. <i>Physical Review Letters</i> , 2016, 116, 135503.	7.8	136
3	Deformation of Crystals: Connections with Statistical Physics. <i>Annual Review of Materials Research</i> , 2017, 47, 217-246.	9.3	61
4	Correlated Rigidity Percolation and Colloidal Gels. <i>Physical Review Letters</i> , 2019, 123, 058001.	7.8	56
5	Mechanical diffraction reveals the role of passive dynamics in a slithering snake. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4798-4803.	7.1	42
6	Self-assembly of three-dimensional open structures using patchy colloidal particles. <i>Soft Matter</i> , 2014, 10, 7569-7576.	2.7	32
7	Directional mechanical response in the bulk of topological metamaterials. <i>New Journal of Physics</i> , 2017, 19, 065004.	2.9	27
8	Conformal elasticity of mechanism-based metamaterials. <i>Nature Communications</i> , 2022, 13, 211.	12.8	26
9	Rigidity percolation by next-nearest-neighbor bonds on generic and regular isostatic lattices. <i>Physical Review E</i> , 2015, 91, 032124.	2.1	25
10	Fiber networks below the isostatic point: Fracture without stress concentration. <i>Physical Review Materials</i> , 2017, 1, .	2.4	24
11	Curvature-Induced Twist in Homeotropic Nematic Tori. <i>Physical Review Letters</i> , 2018, 121, 247803.	7.8	17
12	Elasticity of colloidal gels: structural heterogeneity, floppy modes, and rigidity. <i>Soft Matter</i> , 2021, 17, 6929-6934.	2.7	17
13	Hidden symmetries generate rigid folding mechanisms in periodic origami. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 30252-30259.	7.1	17
14	Topology and Geometry of Spin Origami. <i>Physical Review Letters</i> , 2018, 121, 177201.	7.8	15
15	Topological Elasticity of Flexible Structures. <i>Physical Review X</i> , 2020, 10, .	8.9	9
16	Curved boundaries and chiral instabilities – two sources of twist in homeotropic nematic tori. <i>Soft Matter</i> , 2019, 15, 1210-1214.	2.7	6
17	Soft topological modes protected by symmetry in rigid mechanical metamaterials. <i>Physical Review B</i> , 2021, 103, .	3.2	5
18	Flexible Mechanical Structures and Their Topologically Protected Deformations. , 2022, , 1-16.		2

#	ARTICLE	IF	CITATIONS
19	Flexible Mechanical Structures and Their Topologically Protected Deformations. , 2022, , 213-227.		0