

# Teng Zhang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/883/publications.pdf>

Version: 2024-02-01

25  
papers

1,214  
citations

759233

12  
h-index

642732

23  
g-index

29  
all docs

29  
docs citations

29  
times ranked

2076  
citing authors

#	ARTICLE	IF	CITATIONS
1	Shape-Programmable Three-Dimensional Microfluidic Structures. ACS Applied Materials & Interfaces, 2022, 14, 15599-15607.	8.0	10
2	From Static to Dynamic: A Review on the Role of Mucus Heterogeneity in Particle and Microbial Transport. ACS Biomaterials Science and Engineering, 2022, 8, 2825-2848.	5.2	8
3	Magttice: a lattice model for hard-magnetic soft materials. Soft Matter, 2021, 17, 3560-3568.	2.7	27
4	Tailoring the multistability of origami-inspired, buckled magnetic structures <i>via</i> compression and creasing. Materials Horizons, 2021, 8, 3324-3333.	12.2	4
5	Understanding and Controlling Hexagonal Patterns of Wrinkles in Neo-Hookean Elastic Bilayer Structures. International Journal of Applied Mechanics, 2021, 13, 2150024.	2.2	1
6	Analytical Models for Predicting the Nonlinear Stress–Strain Relationships and Behaviors of Two-Dimensional Carbon Materials. Journal of Applied Mechanics, Transactions ASME, 2021, 88, .	2.2	1
7	Morphing pasta and beyond. Science Advances, 2021, 7, .	10.3	43
8	Image-Based Polygonal Lattices for Mechanical Modeling of Biological Materials: 2D Demonstrations. ACS Biomaterials Science and Engineering, 2021, .	5.2	1
9	Ultrawide Frequency Tuning of Atomic Layer van der Waals Heterostructure Electromechanical Resonators. Nano Letters, 2021, 21, 5508-5515.	9.1	26
10	Dynamically Tunable Friction via Subsurface Stiffness Modulation. Frontiers in Robotics and AI, 2021, 8, 691789.	3.2	7
11	Reconfiguration of multistable 3D ferromagnetic mesostructures guided by energy landscape surveys. Extreme Mechanics Letters, 2021, 48, 101428.	4.1	8
12	Magnetically driven active topography for long-term biofilm control. Nature Communications, 2020, 11, 2211.	12.8	55
13	OpenFSI: A highly efficient and portable fluid–structure simulation package based on immersed-boundary method. Computer Physics Communications, 2020, 256, 107463.	7.5	14
14	Mesoscale structure of wrinkle patterns and defect-proliferated liquid crystalline phases. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3938-3943.	7.1	13
15	Geometry underlies the mechanical stiffening and softening of an indented floating film. Soft Matter, 2020, 16, 4121-4130.	2.7	5
16	Non-uniform curvature and anisotropic deformation control wrinkling patterns on tori. Soft Matter, 2019, 15, 5204-5210.	2.7	15
17	Deriving a lattice model for neo-Hookean solids from finite element methods. Extreme Mechanics Letters, 2019, 26, 40-45.	4.1	14
18	Symplectic Analysis of Wrinkles in Elastic Layers With Graded Stiffnesses. Journal of Applied Mechanics, Transactions ASME, 2019, 86, .	2.2	16

#	ARTICLE	IF	CITATIONS
19	Cerebellar folding is initiated by mechanical constraints on a fluid-like layer without a cellular pre-pattern. <i>ELife</i> , 2019, 8, .	6.0	26
20	Buckling without Bending: A New Paradigm in Morphogenesis. <i>Physical Review X</i> , 2018, 8, .	8.9	16
21	Tough and tunable adhesion of hydrogels: experiments and models. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2017, 33, 543-554.	3.4	62
22	Symplectic Analysis for Wrinkles: A Case Study of Layered Neo-Hookean Structures. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2017, 84, .	2.2	11
23	Transformative Appetite. , 2017, , .		127
24	A Study of Hierarchical Biological Composite Structures Via a Coarse-Grained Molecular Dynamics Simulation Approach. <i>International Journal of Applied Mechanics</i> , 2016, 08, 1650084.	2.2	3
25	Skin-inspired hydrogelâ€‘elastomer hybrids with robust interfaces and functional microstructures. <i>Nature Communications</i> , 2016, 7, 12028.	12.8	696