

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	Skin-inspired hydrogel-elastomer hybrids with robust interfaces and functional microstructures. <i>Nature Communications</i> , 2016, 7, 12028.	12.8	696
2	Transformative Appetite. , 2017, , .		127
3	Tough and tunable adhesion of hydrogels: experiments and models. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2017, 33, 543-554.	3.4	62
4	Magnetically driven active topography for long-term biofilm control. <i>Nature Communications</i> , 2020, 11, 2211.	12.8	55
5	Morphing pasta and beyond. <i>Science Advances</i> , 2021, 7, .	10.3	43
6	Magttice: a lattice model for hard-magnetic soft materials. <i>Soft Matter</i> , 2021, 17, 3560-3568.	2.7	27
7	Ultrawide Frequency Tuning of Atomic Layer van der Waals Heterostructure Electromechanical Resonators. <i>Nano Letters</i> , 2021, 21, 5508-5515.	9.1	26
8	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
9	Buckling without Bending: A New Paradigm in Morphogenesis. <i>Physical Review X</i> , 2018, 8, .	8.9	16
10	Symplectic Analysis of Wrinkles in Elastic Layers With Graded Stiffnesses. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2019, 86, .	2.2	16
11	Non-uniform curvature and anisotropic deformation control wrinkling patterns on tori. <i>Soft Matter</i> , 2019, 15, 5204-5210.	2.7	15
12	Deriving a lattice model for neo-Hookean solids from finite element methods. <i>Extreme Mechanics Letters</i> , 2019, 26, 40-45.	4.1	14
13	OpenFSI: A highly efficient and portable fluid-structure simulation package based on immersed-boundary method. <i>Computer Physics Communications</i> , 2020, 256, 107463.	7.5	14
14	Mesoscale structure of wrinkle patterns and defect-proliferated liquid crystalline phases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 3938-3943.	7.1	13
15	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
16	Shape-Programmable Three-Dimensional Microfluidic Structures. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 15599-15607.	8.0	10
17	Reconfiguration of multistable 3D ferromagnetic mesostructures guided by energy landscape surveys. <i>Extreme Mechanics Letters</i> , 2021, 48, 101428.	4.1	8
18	From Static to Dynamic: A Review on the Role of Mucus Heterogeneity in Particle and Microbial Transport. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 2825-2848.	5.2	8

#	ARTICLE	IF	CITATIONS
19	Dynamically Tunable Friction via Subsurface Stiffness Modulation. <i>Frontiers in Robotics and AI</i> , 2021, 8, 691789.	3.2	7
20	Geometry underlies the mechanical stiffening and softening of an indented floating film. <i>Soft Matter</i> , 2020, 16, 4121-4130.	2.7	5
21	Tailoring the multistability of origami-inspired, buckled magnetic structures <i>via</i> compression and creasing. <i>Materials Horizons</i> , 2021, 8, 3324-3333.	12.2	4
22	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
23	Understanding and Controlling Hexagonal Patterns of Wrinkles in Neo-Hookean Elastic Bilayer Structures. <i>International Journal of Applied Mechanics</i> , 2021, 13, 2150024.	2.2	1
24	Analytical Models for Predicting the Nonlinear Stress–Strain Relationships and Behaviors of Two-Dimensional Carbon Materials. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2021, 88, .	2.2	1
25	Image-Based Polygonal Lattices for Mechanical Modeling of Biological Materials: 2D Demonstrations. <i>ACS Biomaterials Science and Engineering</i> , 2021, , .	5.2	1