

Zezhou Liu

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

238
citations

933264

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996849

15
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21
all docs

21
docs citations

21
times ranked

207
citing authors

#	ARTICLE	IF	CITATIONS
1	Lubricated soft normal elastic contact of a sphere: a new numerical method and experiment. <i>Soft Matter</i> , 2022, 18, 1219-1227.	1.2	3
2	Elastocapillarity at Cell-Matrix Contacts. <i>Physical Review X</i> , 2022, 12, .	2.8	1
3	Meso-scale dislocations and friction of shape-complementary soft interfaces. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20200940.	1.5	4
4	Energetics of cracks and defects in soft materials: The role of surface stress. <i>Extreme Mechanics Letters</i> , 2021, 48, 101424.	2.0	1
5	A surface flattening method for characterizing the surface stress, drained Poisson's ratio and diffusivity of poroelastic gels. <i>Soft Matter</i> , 2021, 17, 7332-7340.	1.2	2
6	Effect of elastocapillarity on the swelling kinetics of hydrogels. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 145, 104132.	2.3	14
7	Energy release rate of a single edge cracked specimen subjected to large deformation. <i>International Journal of Fracture</i> , 2020, 226, 71-79.	1.1	8
8	How surface stress transforms surface profiles and adhesion of rough elastic bodies. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20200477.	1.0	7
9	Extreme cavity expansion in soft solids: Damage without fracture. <i>Science Advances</i> , 2020, 6, eaaz0418.	4.7	45
10	Modeling of surface mechanical behaviors of soft elastic solids: theory and examples. <i>Soft Matter</i> , 2020, 16, 6875-6889.	1.2	13
11	Droplets on an elastic membrane: Configurational energy balance and modified Young equation. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 138, 103902.	2.3	20
12	Mechanical behavior of unidirectional fiber reinforced soft composites. <i>Extreme Mechanics Letters</i> , 2020, 35, 100642.	2.0	13
13	Coupled flow and deformation fields due to a line load on a poroelastic half space: effect of surface stress and surface bending. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20190761.	1.0	6
14	Mechanics of zero degree peel test on a tape – effects of large deformation, material nonlinearity, and finite bond length. <i>Extreme Mechanics Letters</i> , 2019, 32, 100518.	2.0	16
15	Size effect on elastic stress concentrations in unidirectional fiber reinforced soft composites. <i>Extreme Mechanics Letters</i> , 2019, 33, 100573.	2.0	16
16	A surface with stress, extensional elasticity, and bending stiffness. <i>Soft Matter</i> , 2019, 15, 3817-3827.	1.2	13
17	Effects of strain-dependent surface stress on the adhesive contact of a rigid sphere to a compliant substrate. <i>Soft Matter</i> , 2019, 15, 2223-2231.	1.2	10
18	Effect of large deformation and surface stiffening on the transmission of a line load on a neo-Hookean half space. <i>Soft Matter</i> , 2018, 14, 1847-1855.	1.2	18

#	ARTICLE	IF	CITATIONS
19	Mechanics of an adhesive tape in a zero degree peel test: effect of large deformation and material nonlinearity. <i>Soft Matter</i> , 2018, 14, 9681-9692.	1.2	21
20	The effect of surface bending and surface stress on the transmission of a vertical line force in soft materials. <i>Extreme Mechanics Letters</i> , 2018, 23, 9-16.	2.0	3
21	Effect of surface bending and stress on the transmission of line force to an elastic substrate. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018, 474, 20170775.	1.0	4