

Zezhou Liu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3922050/publications.pdf>

Version: 2024-02-01

21
papers

238
citations

933264

10
h-index

996849

15
g-index

21
all docs

21
docs citations

21
times ranked

207
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Extreme cavity expansion in soft solids: Damage without fracture. <i>Science Advances</i> , 2020, 6, eaaz0418. | 4.7 | 45 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | Size effect on elastic stress concentrations in unidirectional fiber reinforced soft composites. <i>Extreme Mechanics Letters</i> , 2019, 33, 100573. | 2.0 | 16 |
| 7 | 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 |
| 8 | A surface with stress, extensional elasticity, and bending stiffness. <i>Soft Matter</i> , 2019, 15, 3817-3827. | 1.2 | 13 |
| 9 | Modeling of surface mechanical behaviors of soft elastic solids: theory and examples. <i>Soft Matter</i> , 2020, 16, 6875-6889. | 1.2 | 13 |
| 10 | Mechanical behavior of unidirectional fiber reinforced soft composites. <i>Extreme Mechanics Letters</i> , 2020, 35, 100642. | 2.0 | 13 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | Meso-scale dislocations and friction of shape-complementary soft interfaces. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20200940. | 1.5 | 4 |
| 17 | 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 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | 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 |
| 20 | Energetics of cracks and defects in soft materials: The role of surface stress. <i>Extreme Mechanics Letters</i> , 2021, 48, 101424. | 2.0 | 1 |
| 21 | Elastocapillarity at Cell-Matrix Contacts. <i>Physical Review X</i> , 2022, 12, . | 2.8 | 1 |