Shelby B Hutchens

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7347819/publications.pdf Version: 2024-02-01



SHELRY R HUTCHENS

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | On the relationship between cutting and tearing in soft elastic solids. Soft Matter, 2021, 17, 6728-6741. | 2.7 | 14 |
| 2 | Multi-crack formation in soft solids during high rate cavity expansion. Mechanics of Materials, 2021, 154, 103741. | 3.2 | 6 |
| 3 | Dynamic Fracture of Expanding Cavities in Nonlinear Soft Solids. Journal of Applied Mechanics, Transactions ASME, 2021, 88, . | 2.2 | 5 |
| 4 | Swelling of a non-vascular-plant-inspired soft composite. Matter, 2021, 4, 3991-4005. | 10.0 | 9 |
| 5 | Hydraulic fracture geometry in ultrasoft polymer networks. International Journal of Fracture, 2019, 219, 89-99. | 2.2 | 13 |
| 6 | Y-Shaped Cutting for the Systematic Characterization of Cutting and Tearing. Experimental Mechanics, 2019, 59, 517-529. | 2.0 | 17 |
| 7 | A device to fracture soft solids at high speeds. Extreme Mechanics Letters, 2019, 28, 69-75. | 4.1 | 8 |
| 8 | PDMS polymerized high internal phase emulsions (polyHIPEs) with closed-cell, aqueous-filled microcavities. Soft Matter, 2019, 15, 9665-9675. | 2.7 | 21 |
| 9 | Creasing in evaporation-driven cavity collapse. Soft Matter, 2017, 13, 6894-6904. | 2.7 | 18 |
| 10 | Cavitation-induced damage of soft materials by focused ultrasound bursts: A fracture-based bubble dynamics model. Journal of the Acoustical Society of America, 2016, 140, 1374-1386. | 1.1 | 42 |
| 11 | Elastic cavitation and fracture via injection. Soft Matter, 2016, 12, 2557-2566. | 2.7 | 59 |
| 12 | Vertically Aligned Carbon Nanotubes, Collective Mechanical Behavior. , 2016, , 4325-4344. | | 0 |
| 13 | Vertically Aligned Carbon Nanotubes, Collective Mechanical Behavior. , 2016, , 1-20. | | 1 |
| 14 | Puncture mechanics of soft solids. Soft Matter, 2015, 11, 4723-4730. | 2.7 | 54 |
| 15 | Directly Measuring the Complete Stress–Strain Response of Ultrathin Polymer Films. Macromolecules, 2015, 48, 6534-6540. | 4.8 | 101 |
| 16 | Soft-solid deformation mechanics at the tip of an embedded needle. Soft Matter, 2014, 10, 3679. | 2.7 | 28 |
| 17 | Buckling-driven delamination of carbon nanotube forests. Applied Physics Letters, 2013, 102, . | 3.3 | 22 |
| 18 | Effects of morphology on the micro-compression response of carbon nanotube forests. Nanoscale, 2012, 4, 3373. | 5.6 | 32 |

SHELBY B HUTCHENS

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | A microstructurally motivated description of the deformation of vertically aligned carbon nanotube structures. Applied Physics Letters, 2012, 100, . | 3.3 | 15 |
| 20 | Viscosity. , 2012, , 2819-2819. | | 0 |
| 21 | Nanoshearing. Materials Today, 2012, 15, 127. | 14.2 | 2 |
| 22 | Vertically Aligned Carbon Nanotubes, Collective Mechanical Behavior. , 2012, , 2809-2818. | | 1 |
| 23 | Analysis of uniaxial compression of vertically aligned carbon nanotubes. Journal of the Mechanics and Physics of Solids, 2011, 59, 2227-2237. | 4.8 | 80 |
| 24 | In situ Mechanical Testing Reveals Periodic Buckle Nucleation and Propagation in Carbon Nanotube Bundles. Advanced Functional Materials, 2010, 20, 2338-2346. | 14.9 | 139 |
| 25 | Metastable cluster intermediates in the condensation of charged macromolecule solutions. Journal of Chemical Physics, 2007, 127, 084912. | 3.0 | 51 |