

# Zhigang Suo

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

312  
papers

34,913  
citations

100  
h-index

182  
g-index

324  
ext. papers

40,214  
ext. citations

7.5  
avg, IF

7.86  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 312 | A thermodynamic model of phase transition of poly(N-isopropylacrylamide) hydrogels in ionic solutions. <i>International Journal of Solids and Structures</i> , <b>2022</b> , 111434 | 3.1  | 0         |
| 311 | High-throughput experiments for rare-event rupture of materials. <i>Matter</i> , <b>2022</b> , 5, 654-665   | 12.7 | 0         |
| 310 | Adhesive anastomosis for organ transplantation.. <i>Bioactive Materials</i> , <b>2022</b> , 13, 260-268   | 16.7 | 1         |
| 309 | Polyacrylamide hydrogels. IV. Near-perfect elasticity and rate-dependent toughness. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2022</b> , 158, 104675               | 5    | 1         |
| 308 | How does a glass fabric tear under cyclic force?. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2022</b> , 158, 104659   | 5    | 0         |
| 307 | Topoarchitected polymer networks expand the space of material properties.. <i>Nature Communications</i> , <b>2022</b> , 13, 1622  | 17.4 | 6         |
| 306 | All-Solid Ionic Eye. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2021</b> , 88,   | 2.7  | 8         |
| 305 | Optoionic Sensing. <i>Small</i> , <b>2021</b> , e2103882  | 11   | 1         |
| 304 | Subdural neural interfaces for long-term electrical recording, optical microscopy and magnetic resonance imaging.. <i>Biomaterials</i> , <b>2021</b> , 281, 121352                  | 15.6 | 3         |
| 303 | Fracture, fatigue, and friction of polymers in which entanglements greatly outnumber cross-links. <i>Science</i> , <b>2021</b> , 374, 212-216                                       | 33.3 | 63        |
| 302 | Anti-icing propylene-glycol materials. <i>Extreme Mechanics Letters</i> , <b>2021</b> , 44, 101225  | 3.9  | 5         |
| 301 | Degradable Plastics are Vulnerable to Cracks. <i>Engineering</i> , <b>2021</b> ,  | 9.7  | 3         |
| 300 | Polyacrylamide hydrogels. III. Lap shear and peel. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2021</b> , 150, 104348  | 5    | 5         |
| 299 | Photoinitiator-grafted polymer chains for integrating hydrogels with various materials. <i>Cell Reports Physical Science</i> , <b>2021</b> , 2, 100463                              | 6.1  | 4         |
| 298 | Fabricating hydrogels to mimic biological tissues of complex shapes and high fatigue resistance. <i>Matter</i> , <b>2021</b> , 4, 1935-1946   | 12.7 | 23        |
| 297 | Toughness of a composite in which sliding between fibers and matrix is rate-sensitive. <i>Extreme Mechanics Letters</i> , <b>2021</b> , 46, 101317                                  | 3.9  | 2         |
| 296 | Hydrogel-mesh composite for wound closure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,                              | 11.5 | 19        |

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|-----|--|------|----|
| 295 | Functional hydrogel coatings. <i>National Science Review</i> , <b>2021</b> , 8, nwa254   | 10.8 | 51 |
| 294 | Transduction between magnets and ions. <i>Materials Horizons</i> , <b>2021</b> , 8, 1959-1965  | 14.4 | 3  |
| 293 | Fatigue-resistant adhesion II: Swell tolerance. <i>Extreme Mechanics Letters</i> , <b>2021</b> , 43, 101182  | 3.9  | 1  |
| 292 | Peel of elastomers of various thicknesses and widths. <i>Extreme Mechanics Letters</i> , <b>2021</b> , 46, 101325  | 3.9  | 2  |
| 291 | Flaw-sensitivity of a tough hydrogel under monotonic and cyclic loads. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2021</b> , 153, 104483                     | 5    | 6  |
| 290 | Composites retard hydrolytic crack growth. <i>Extreme Mechanics Letters</i> , <b>2021</b> , 48, 101433   | 3.9  | 1  |
| 289 | Fatigue-resistant polyurethane elastomer composites. <i>Extreme Mechanics Letters</i> , <b>2021</b> , 48, 101434   | 3.9  | 9  |
| 288 | A printed highly stretchable supercapacitor by a combination of carbon ink and polymer network. <i>Extreme Mechanics Letters</i> , <b>2021</b> , 49, 101459                  | 3.9  | 1  |
| 287 | Dual-primer adhesion of polymer networks of dissimilar chemistries. <i>Extreme Mechanics Letters</i> , <b>2020</b> , 38, 100756  | 3.9  | 7  |
| 286 | Low-Voltage Reversible Electrodeposition of Ionoelastomer Junctions. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001600  | 21.6 | 28 |
| 285 | Synergy of noncovalent interlink and covalent toughener for tough hydrogel adhesion. <i>Extreme Mechanics Letters</i> , <b>2020</b> , 39, 100797                             | 3.9  | 5  |
| 284 | Stretchable Electrets: Nanoparticle-Elastomer Composites. <i>Nano Letters</i> , <b>2020</b> , 20, 4580-4587  | 11.5 | 9  |
| 283 | Chemically Coupled Interfacial Adhesion in Multimaterial Printing of Hydrogels and Elastomers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 31002-31009 | 9.5  | 12 |
| 282 | Topological adhesion. I. Rapid and strong topohesives. <i>Extreme Mechanics Letters</i> , <b>2020</b> , 39, 100803   | 3.9  | 19 |
| 281 | Fatigue-resistant adhesion I. Long-chain polymers as elastic dissipaters. <i>Extreme Mechanics Letters</i> , <b>2020</b> , 39, 100813  | 3.9  | 14 |
| 280 | Strength and toughness of adhesion of soft materials measured in lap shear. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2020</b> , 143, 103988                | 5    | 20 |
| 279 | Ionoelastomer junctions between polymer networks of fixed anions and cations. <i>Science</i> , <b>2020</b> , 367, 773-776  | 33.5 | 86 |
| 278 | A Lesson from Plants: High-Speed Soft Robotic Actuators. <i>Advanced Science</i> , <b>2020</b> , 7, 1903391  | 13.6 | 32 |

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|-----|---|------|-----|
| 277 | Topological prime. <i>Science China Technological Sciences</i> , <b>2020</b> , 63, 1314-1322  | 3.5  | 5   |
| 276 | The Stiffness-Threshold Conflict in Polymer Networks and a Resolution. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2020</b> , 87,         | 2.7  | 17  |
| 275 | Electric field concentration in hydrogel-elastomer devices. <i>Extreme Mechanics Letters</i> , <b>2020</b> , 34, 100597                                   | 3.9  | 4   |
| 274 | Soft sensor for full dentition dynamic bite force. <i>Extreme Mechanics Letters</i> , <b>2020</b> , 34, 100592  | 3.9  | 7   |
| 273 | Fundamental Limits to the Electrochemical Impedance Stability of Dielectric Elastomers in Bioelectronics. <i>Nano Letters</i> , <b>2020</b> , 20, 224-233 | 11.5 | 18  |
| 272 | Cracks outrun erosion in degradable polymers. <i>Extreme Mechanics Letters</i> , <b>2020</b> , 40, 100978   | 3.9  | 5   |
| 271 | Ionotronic Luminescent Fibers, Fabrics, and Other Configurations. <i>Advanced Materials</i> , <b>2020</b> , 32, e2005545                                  | 4.5  | 31  |
| 270 | Gelation kinetics of alginate chains through covalent bonds. <i>Extreme Mechanics Letters</i> , <b>2020</b> , 40, 100898                                  | 3.9  | 3   |
| 269 | Topological adhesion II. Stretchable adhesion. <i>Extreme Mechanics Letters</i> , <b>2020</b> , 40, 100891  | 3.9  | 11  |
| 268 | Inelasticity increases the critical strain for the onset of creases on hydrogels. <i>Extreme Mechanics Letters</i> , <b>2020</b> , 40, 100966             | 3.9  | 4   |
| 267 | Hydrogel Adhesion: A Supramolecular Synergy of Chemistry, Topology, and Mechanics. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1901693       | 15.6 | 255 |
| 266 | Stretchable and fatigue-resistant materials. <i>Materials Today</i> , <b>2020</b> , 34, 7-16  | 21.8 | 78  |
| 265 | Fatigue-Resistant elastomers. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2020</b> , 134, 103751   | 5    | 36  |
| 264 | Polymer-filled macroporous hydrogel for low friction. <i>Extreme Mechanics Letters</i> , <b>2020</b> , 38, 100742   | 3.9  | 5   |
| 263 | Instant, Tough, Noncovalent Adhesion. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 40749-40757                                       | 9.5  | 34  |
| 262 | Polyacrylamide hydrogels. II. elastic dissipater. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2019</b> , 133, 103737                       | 5    | 40  |
| 261 | Fast healing of ionic bonds in tough hydrogels under an acoustic excitation. <i>Extreme Mechanics Letters</i> , <b>2019</b> , 33, 100572                  | 3.9  | 7   |
| 260 | Tearing a hydrogel of complex rheology. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2019</b> , 125, 749-761                                | 5.1  | 19  |

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|-----|---|------|-----|
| 259 | A soft ring oscillator. <i>Science Robotics</i> , <b>2019</b> , 4,  | 18.6 | 64  |
| 258 | Polyacrylamide hydrogels. I. Network imperfection. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2019</b> , 131, 43-55   | 5    | 64  |
| 257 | Covalent Topological Adhesion. <i>ACS Macro Letters</i> , <b>2019</b> , 8, 754-758  | 6.6  | 40  |
| 256 | Design Molecular Topology for Wet-Dry Adhesion. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 24802-24811   | 9.5  | 41  |
| 255 | Strong and Degradable Adhesion of Hydrogels.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 1781-1786   | 4.1  | 27  |
| 254 | Self-Healing, Adhesive, and Highly Stretchable Ionogel as a Strain Sensor for Extremely Large Deformation. <i>Small</i> , <b>2019</b> , 15, e1804651                              | 11   | 110 |
| 253 | Elastocapillary Crease. <i>Physical Review Letters</i> , <b>2019</b> , 122, 098003  | 7.4  | 13  |
| 252 | Stretchable materials of high toughness and low hysteresis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 5967-5972 | 11.5 | 142 |
| 251 | Digital logic for soft devices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 7750-7759                             | 11.5 | 89  |
| 250 | Printing Hydrogels and Elastomers in Arbitrary Sequence with Strong Adhesion. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1901721                                    | 15.6 | 67  |
| 249 | Flaw-Insensitive Hydrogels under Static and Cyclic Loads. <i>Macromolecular Rapid Communications</i> , <b>2019</b> , 40, e1800883   | 4.8  | 27  |
| 248 | Hydrogel Paint. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903062  | 24   | 64  |
| 247 | Hydrolytic crack in a rubbery network. <i>Extreme Mechanics Letters</i> , <b>2019</b> , 31, 100531  | 3.9  | 7   |
| 246 | Neural interfaces by hydrogels. <i>Extreme Mechanics Letters</i> , <b>2019</b> , 30, 100510   | 3.9  | 34  |
| 245 | Soft kink valves. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2019</b> , 131, 230-239  | 5    | 14  |
| 244 | Molecular Staples for Tough and Stretchable Adhesion in Integrated Soft Materials. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1900810                               | 10.1 | 13  |
| 243 | Giant Poisson's Effect for Wrinkle-Free Stretchable Transparent Electrodes. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902955  | 24   | 25  |
| 242 | Stick-On Large-Strain Sensors for Soft Robots. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1900985  | 4.6  | 48  |

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|-----|---|------|-----|
| 241 | Hydrogels: Hydrogel Paint (Adv. Mater. 39/2019). <i>Advanced Materials</i> , <b>2019</b> , 31, 1970276  | 24   | 2   |
| 240 | Plasticity retards the formation of creases. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2019</b> , 123, 305-314   | 3.14 | 7   |
| 239 | Fracture Toughness and Fatigue Threshold of Tough Hydrogels. <i>ACS Macro Letters</i> , <b>2019</b> , 8, 17-23  | 6.6  | 50  |
| 238 | Agile and Resilient Insect-Scale Robot. <i>Soft Robotics</i> , <b>2019</b> , 6, 133-141   | 9.2  | 56  |
| 237 | Photodetachable Adhesion. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806948  | 24   | 110 |
| 236 | Fatigue of hydrogels. <i>European Journal of Mechanics, A/Solids</i> , <b>2019</b> , 74, 337-370  | 3.7  | 104 |
| 235 | A Soft Stretchable Sensor: Towards Peripheral Nerve Signal Sensing. <i>MRS Advances</i> , <b>2018</b> , 3, 1597-1602  | 0.7  | 4   |
| 234 | Bonding dissimilar polymer networks in various manufacturing processes. <i>Nature Communications</i> , <b>2018</b> , 9, 846   | 17.4 | 136 |
| 233 | Fatigue fracture of nearly elastic hydrogels. <i>Soft Matter</i> , <b>2018</b> , 14, 3563-3571  | 3.6  | 67  |
| 232 | Bioinspired Hydrogel Interferometer for Adaptive Coloration and Chemical Sensing. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800468  | 24   | 149 |
| 231 | Fatigue Fracture of Self-Recovery Hydrogels. <i>ACS Macro Letters</i> , <b>2018</b> , 7, 312-317  | 6.6  | 79  |
| 230 | Influence of the Contact Area on the Current Density across Molecular Tunneling Junctions Measured with EGaIn Top-Electrodes. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 129-137 | 9.6  | 26  |
| 229 | Mixing by shear, dilation, swap, and diffusion. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2018</b> , 112, 253-272  | 5    | 8   |
| 228 | Topological Adhesion of Wet Materials. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800671   | 24   | 173 |
| 227 | A soft, bistable valve for autonomous control of soft actuators. <i>Science Robotics</i> , <b>2018</b> , 3,   | 18.6 | 169 |
| 226 | Fatigue of double-network hydrogels. <i>Engineering Fracture Mechanics</i> , <b>2018</b> , 187, 74-93   | 4.2  | 96  |
| 225 | Effects of Stiff Film Pattern Geometry on Surface Buckling Instabilities of Elastic Bilayers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 23406-23413             | 9.5  | 17  |
| 224 | Stretchable Seal. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 27333-27343   | 9.5  | 24  |

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| 223 | Highly Stretchable and Tough Hydrogels below Water Freezing Temperature. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801541   | 24   | 267 |
| 222 | Formation of high aspect ratio wrinkles and ridges on elastic bilayers with small thickness contrast. <i>Soft Matter</i> , <b>2018</b> , 14, 8545-8551  | 3.6  | 17  |
| 221 | Hydrogels: Hydrogel Interferometry for Ultrasensitive and Highly Selective Chemical Detection (Adv. Mater. 46/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870352                                      | 24   | 3   |
| 220 | Adhesion between Hydrophobic Elastomer and Hydrogel through Hydrophilic Modification and Interfacial Segregation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 43252-43261                 | 9.5  | 23  |
| 219 | Hydrogel Interferometry for Ultrasensitive and Highly Selective Chemical Detection. <i>Advanced Materials</i> , <b>2018</b> , 30, e1804916  | 24   | 64  |
| 218 | A Transparent Membrane for Active Noise Cancelation. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800653   | 5.6  | 13  |
| 217 | Hydrogel ionotronics. <i>Nature Reviews Materials</i> , <b>2018</b> , 3, 125-142  | 73.3 | 643 |
| 216 | Extrusion, slide, and rupture of an elastomeric seal. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2017</b> , 99, 289-303   | 5    | 16  |
| 215 | 3D Printing of Transparent and Conductive Heterogeneous Hydrogel-Elastomer Systems. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604827   | 24   | 280 |
| 214 | High-performance electromechanical transduction using laterally-constrained dielectric elastomers part I: Actuation processes. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2017</b> , 105, 81-94 | 5    | 36  |
| 213 | Post-wrinkle bifurcations in elastic bilayers with modest contrast in modulus. <i>Extreme Mechanics Letters</i> , <b>2017</b> , 11, 30-36   | 3.9  | 23  |
| 212 | Organic liquid-crystal devices based on ionic conductors. <i>Materials Horizons</i> , <b>2017</b> , 4, 1102-1109  | 14.4 | 56  |
| 211 | Fatigue fracture of tough hydrogels. <i>Extreme Mechanics Letters</i> , <b>2017</b> , 15, 91-96   | 3.9  | 136 |
| 210 | Localized Deformation in Plastic Liquids on Elastomers. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2017</b> , 84,  | 2.7  | 5   |
| 209 | Wearable and Washable Conductors for Active Textiles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 25542-25552  | 9.5  | 84  |
| 208 | Flaw sensitivity of highly stretchable materials. <i>Extreme Mechanics Letters</i> , <b>2017</b> , 10, 50-57  | 3.9  | 105 |
| 207 | Fatigue fracture of hydrogels. <i>Extreme Mechanics Letters</i> , <b>2017</b> , 10, 24-31   | 3.9  | 100 |
| 206 | Shear, dilation, and swap: Mixing in the limit of fast diffusion. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2016</b> , 96, 48-64   | 5    | 8   |

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| 205 | A transparent bending-insensitive pressure sensor. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 472-8  | 28.7 | 549 |
| 204 | Crack Tunneling in Cement Sheath of Hydrocarbon Well. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2016</b> , 83,   | 2.7  | 9   |
| 203 | Pattern formation in plastic liquid films on elastomers by ratcheting. <i>Soft Matter</i> , <b>2016</b> , 12, 3820-7   | 3.6  | 8   |
| 202 | Osmocapillary phase separation. <i>Extreme Mechanics Letters</i> , <b>2016</b> , 7, 27-33  | 3.9  | 12  |
| 201 | Phase-transforming and switchable metamaterials. <i>Extreme Mechanics Letters</i> , <b>2016</b> , 6, 1-9   | 3.9  | 50  |
| 200 | Fire-Resistant Hydrogel-Fabric Laminates: A Simple Concept That May Save Lives. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 2071-7  | 9.5  | 51  |
| 199 | Adhesion between highly stretchable materials. <i>Soft Matter</i> , <b>2016</b> , 12, 1093-9   | 3.6  | 73  |
| 198 | Electroluminescence of Giant Stretchability. <i>Advanced Materials</i> , <b>2016</b> , 28, 4480-4  | 24   | 183 |
| 197 | Buckling Pneumatic Linear Actuators Inspired by Muscle. <i>Advanced Materials Technologies</i> , <b>2016</b> , 1, 1600055  | 15   | 151 |
| 196 | Linear Actuators: Buckling Pneumatic Linear Actuators Inspired by Muscle (Adv. Mater. Technol. 3/2016). <i>Advanced Materials Technologies</i> , <b>2016</b> , 1,                                    | 6.8  | 1   |
| 195 | Reversible Electrochemically Triggered Delamination Blistering of Hydrogel Films on Micropatterned Electrodes. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 3218-3225                    | 15.6 | 22  |
| 194 | Electromechanical Catastrophe. <i>International Journal of Applied Mechanics</i> , <b>2016</b> , 08, 1640005   | 2.4  | 14  |
| 193 | Mechanistic Study for Facile Electrochemical Patterning of Surfaces with Metal Oxides. <i>ACS Nano</i> , <b>2016</b> , 10, 5321-5  | 16.7 | 3   |
| 192 | Tough photoluminescent hydrogels doped with lanthanide. <i>Macromolecular Rapid Communications</i> , <b>2015</b> , 36, 465-71  | 4.8  | 56  |
| 191 | Fatigue-free, superstretchable, transparent, and biocompatible metal electrodes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 12332-7 | 11.5 | 71  |
| 190 | Exceptionally tough and notch-insensitive magnetic hydrogels. <i>Soft Matter</i> , <b>2015</b> , 11, 8253-61   | 3.6  | 68  |
| 189 | Temporal evolution and instability in a viscoelastic dielectric elastomer. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2015</b> , 76, 47-64   | 5    | 72  |
| 188 | Smoothering creases on surfaces of strain-stiffening materials. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2015</b> , 74, 68-79  | 5    | 25  |



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| 187 | Ionic cable. <i>Extreme Mechanics Letters</i> , <b>2015</b> , 3, 59-65   | 3.9   | 148 |
| 186 | Brownian Motion of Molecular Probes in Supercooled Liquids. <i>Physical Review Letters</i> , <b>2015</b> , 114, 224301                                     | 7.4   | 12  |
| 185 | Buckling of Elastomeric Beams Enables Actuation of Soft Machines. <i>Advanced Materials</i> , <b>2015</b> , 27, 6323-24                                    | 7.4   | 182 |
| 184 | Syringe-injectable electronics. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 629-636   | 28.7  | 416 |
| 183 | Bifurcation Diagrams for the Formation of Wrinkles or Creases in Soft Bilayers. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2015</b> , 82, | 2.7   | 45  |
| 182 | Optomechanics of Soft Materials. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2015</b> , 82,  | 2.7   | 7   |
| 181 | Elastic Leak for a Better Seal. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2015</b> , 82,   | 2.7   | 7   |
| 180 | Biomaterials. Electronic dura mater for long-term multimodal neural interfaces. <i>Science</i> , <b>2015</b> , 347, 159-63                                 | 63.3  | 640 |
| 179 | Laminar Tendon Composites with Enhanced Mechanical Properties. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 2616-2625                           | 4.3   | 16  |
| 178 | A model of ideal elastomeric gels for polyelectrolyte gels. <i>Soft Matter</i> , <b>2014</b> , 10, 2582-90   | 3.6   | 60  |
| 177 | Charge localization instability in a highly deformable dielectric elastomer. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 022905                    | 3.4   | 16  |
| 176 | Highly stretchable and transparent nanomesh electrodes made by grain boundary lithography. <i>Nature Communications</i> , <b>2014</b> , 5, 3121            | 17.4  | 310 |
| 175 | Ionic skin. <i>Advanced Materials</i> , <b>2014</b> , 26, 7608-14  | 24    | 760 |
| 174 | Controlled formation and disappearance of creases. <i>Materials Horizons</i> , <b>2014</b> , 1, 207-213  | 14.4  | 31  |
| 173 | The role of substrate pre-stretch in post-wrinkling bifurcations. <i>Soft Matter</i> , <b>2014</b> , 10, 6520-9  | 3.6   | 43  |
| 172 | Creases on the interface between two soft materials. <i>Soft Matter</i> , <b>2014</b> , 10, 303-11   | 3.6   | 28  |
| 171 | Natural rubber for sustainable high-power electrical energy generation. <i>RSC Advances</i> , <b>2014</b> , 4, 27905-27913                                 | 37.13 | 104 |
| 170 | Stiff, strong, and tough hydrogels with good chemical stability. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 6708-6713                      | 7.3   | 230 |

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|-----|---|------|-----|
| 169 | Ultrasound-triggered disruption and self-healing of reversibly cross-linked hydrogels for drug delivery and enhanced chemotherapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 9762-7 | 11.5 | 282 |
| 168 | Highly stretchable and transparent ionogels as nonvolatile conductors for dielectric elastomer transducers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 7840-5   | 9.5  | 192 |
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