Tiefeng Li

List of Publications by Year
in descending order

41 papers	4,379 citations	279701 23 h-index	276775 41 g-index
41 all docs	41 docs citations	41 times ranked	5833 citing authors

#	Article	IF	Citations
1	â€œMusical dishâ€•efficiently induces osteogenic differentiation of mesenchymal stem cells through music derived microstretch with variable frequency. Bioengineering and Translational Medicine, 2022, 7, e10291.	3.9	4
2	Culture of patient-derived multicellular clusters in suspended hydrogel capsules for pre-clinical personalized drug screening. Bioactive Materials, 2022, 18, 164-177.	8.6	14
3	Photo-triggered Sustainable Adhesive Based on Itaconic Acid. ACS Sustainable Chemistry and Engineering, 2022, 10, 6389-6401.	3.2	13
4	Global Vision-Based Formation Control of Soft Robotic Fish Swarm. Soft Robotics, 2021, 8, 310-318.	4.6	29
5	Adaptively reconstructing network of soft elastomers to increase strand rigidity: towards free-standing electro-actuation strain over 100%. Materials Horizons, 2021, 8, 2834-2841.	6.4	17
6	A Mechanically Robust and Versatile Liquidâ€Free Ionic Conductive Elastomer. Advanced Materials, 2021, 33, e2006111.	11.1	188
7	Selfâ€Strengthening Dielectric Elastomer of Triblock Copolymer with Significantly Improved Electromechanical Performance under Low Voltage. Macromolecular Materials and Engineering, 2021, 306, 2000732.	1.7	8
8	Electromechanical Model-Based Adaptive Control of Multilayered Dielectric Elastomer Bending Actuator. Journal of Applied Mechanics, Transactions ASME, 2021, 88, .	1.1	3
9	Electro-mechanically controlled assembly of reconfigurable 3D mesostructures and electronic devices based on dielectric elastomer platforms. National Science Review, 2020, 7, 342-354.	4.6	68
10	A single-cell survey of cellular hierarchy in acute myeloid leukemia. Journal of Hematology and Oncology, 2020, 13, 128.	6.9	45
11	Electromechanical analysis and simplified modeling of dielectric elastomer multilayer bending actuator. AIP Advances, 2020, 10, .	0.6	11
12	Highly Stretchable Bilayer Lattice Structures That Elongate via Inâ€Plane Deformation. Advanced Functional Materials, 2020, 30, 1909473.	7.8	3
13	Review of Soft Linear Actuator and the Design of a Dielectric Elastomer Linear Actuator. Acta Mechanica Solida Sinica, 2019, 32, 566-579.	1.0	41
14	Nonsolvent induced reconfigurable bonding configurations of ligands in nanoparticle purification. Nanoscale Horizons, 2019, 4, 1416-1424.	4.1	6
15	Experimental study on pure-shear-like cyclic deformation of VHB 4910 dielectric elastomer. Journal of Polymer Research, 2019, 26, 1.	1.2	21
16	Jellyfish-Inspired Soft Robot Driven by Fluid Electrode Dielectric Organic Robotic Actuators. Frontiers in Robotics and AI, 2019, 6, 126.	2.0	57
17	An untethered soft chemo-mechanical robot with composite structure and optimized control. Extreme Mechanics Letters, 2019, 27, 27-33.	2.0	17
18	Fabrication and modeling of dielectric elastomer soft actuator with 3D printed thermoplastic frame. Sensors and Actuators A: Physical, 2019, 292, 112-120.	2.0	51

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19	Agile and Resilient Insect-Scale Robot. Soft Robotics, 2019, 6, 133-141.	4.6	93
20	X-Mechanicsâ€”An endless frontier. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	2.0	17
21	Mapping the Mouse Cell Atlas by Microwell-Seq. Cell, 2018, 172, 1091-1107.e17.	13.5	1,068
22	Soft Artificial Bladder Detrusor. Advanced Healthcare Materials, 2018, 7, e1701014.	3.9	23
23	The energy flow and mechanical modeling of soft chemo-mechanical machines. Journal of Applied Physics, 2018, 124, .	1.1	2
24	Significantly improved electromechanical performance of dielectric elastomers via alkyl side-chain engineering. Journal of Materials Chemistry C, 2017, 5, 6834-6841.	2.7	25
25	Fast-moving soft electronic fish. Science Advances, 2017, 3, e1602045.	4.7	621
26	Tunable actuation of dielectric elastomer by electromechanical loading rates. Applied Physics Letters, 2017, 111, 181901.	1.5	1
27	Thermoplastic Dielectric Elastomer of Triblock Copolymer with High Electromechanical Performance. Macromolecular Rapid Communications, 2017, 38, 1700268.	2.0	30
28	Highly stretchable, transparent, and colorless electrodes from a diblock copolymer electrolyte. Journal of Materials Chemistry C, 2017, 5, 9865-9872.	2.7	5
29	Preparation of a white-light-emitting fluorescent supramolecular polymer gel with a single chromophore and use of the gel to fabricate a protected quick response code. Materials Chemistry Frontiers, 2017, 1, 167-171.	3.2	58
30	A bioinspired reversible snapping hydrogel assembly. Materials Horizons, 2016, 3, 422-428.	6.4	105
31	Electromechanical behavior of fiber-reinforced dielectric elastomer membrane. International Journal of Smart and Nano Materials, 2015, 6, 124-134.	2.0	6
32	EFFECTS OF STRETCHING RATE AND SIZE ON THE RUPTURE OF ACRYLIC DIELECTRIC ELASTOMER. International Journal of Applied Mechanics, 2014, 06, 1450026.	1.3	4
33	Giant voltage-induced deformation in dielectric elastomers near the verge of snap-through instability. Journal of the Mechanics and Physics of Solids, 2013, 61, 611-628.	2.3	298
34	Giant, voltage-actuated deformation of a dielectric elastomer under dead load. Applied Physics Letters, 2012, 100, .	1.5	161
35	Electromechanical and dynamic analyses of tunable dielectric elastomer resonator. International Journal of Solids and Structures, 2012, 49, 3754-3761.	1.3	118
36	Energy harvesting of dielectric elastomer generators concerning inhomogeneous fields and viscoelastic deformation. Journal of Applied Physics, 2012, 112, .	1.1	60

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37	Harnessing snap-through instability in soft dielectrics to achieve giant voltage-triggered deformation. Soft Matter, 2012, 8, 285-288.	1.2	373
38	Snap-through Expansion of a Gas Bubble in an Elastomer. Journal of Adhesion, 2011, 87, 466-481.	1.8	54
39	Method for measuring energy generation and efficiency of dielectric elastomer generators. Applied Physics Letters, 2011, 99, .	1.5	106
40	Dielectric Elastomer Generators: How Much Energy Can Be Converted?. IEEE/ASME Transactions on Mechatronics, 2011, 16, 33-41.	3.7	303
41	Mechanisms of large actuation strain in dielectric elastomers. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 504-515.	2.4	252