

Innervated, Self-Sensing Liquid Crystal Elastomer Act

Advanced Materials

33, e2101814

DOI: [10.1002/adma.202101814](https://doi.org/10.1002/adma.202101814)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Multi-Photon 4D Printing of Complex Liquid Crystalline Microstructures by In Situ Alignment Using Electric Fields. <i>Advanced Materials Technologies</i> , 2022, 7, 2100944.	3.0	29
2	Biology and bioinspiration of soft robotics: Actuation, sensing, and system integration. <i>IScience</i> , 2021, 24, 103075.	1.9	34
3	Robust Jumping Actuator with a Shrimp-Shell Architecture. <i>Advanced Materials</i> , 2021, 33, e2104558.	11.1	40
4	Composites of functional polymers: Toward physical intelligence using flexible and soft materials. <i>Journal of Materials Research</i> , 2022, 37, 2-24.	1.2	6
5	Light-Fueled Polymer Film Capable of Directional Crawling, Friction-Controlled Climbing, and Self-Sustained Motion on a Human Hair. <i>Advanced Science</i> , 2022, 9, e2103090.	5.6	26
6	Liquid metals as soft electromechanical actuators. <i>Materials Advances</i> , 2022, 3, 173-185.	2.6	32
7	Multi-functional liquid crystal elastomer composites. <i>Applied Physics Reviews</i> , 2022, 9, .	5.5	87
8	Increasingly Intelligent Micromachines. <i>Annual Review of Control, Robotics, and Autonomous Systems</i> , 2022, 5, 279-310.	7.5	35
9	Multifunctional liquid metal polymer composites. <i>Journal of Polymer Science</i> , 2022, 60, 1300-1327.	2.0	39
10	Applications of liquid metals in nanotechnology. <i>Nanoscale Horizons</i> , 2022, 7, 141-167.	4.1	47
11	Progress in Utilizing Dynamic Bonds to Fabricate Structurally Adaptive Self-Healing, Shape Memory, and Liquid Crystal Polymers. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100768.	2.0	18
12	Porous Liquid-Crystalline Networks with Hydrogel-Like Actuation and Reconfigurable Function. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	22
13	Porous Liquid-Crystalline Networks with Hydrogel-Like Actuation and Reconfigurable Function. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	3
14	Three-Dimensional Printing of Liquid Crystal Elastomers and Their Applications. <i>ACS Applied Polymer Materials</i> , 2022, 4, 3153-3168.	2.0	20
15	Anisotropic mechanical behavior of 3D printed liquid crystal elastomer. <i>Additive Manufacturing</i> , 2022, 52, 102678.	1.7	9
16	Mechanics-based design strategies for 4D printing: A review. <i>Forces in Mechanics</i> , 2022, 7, 100081.	1.3	14
17	Rheology of liquid crystalline oligomers for 3-D printing of liquid crystalline elastomers. <i>Soft Matter</i> , 2022, 18, 3168-3176.	1.2	8
18	Stress-Induced Self-Alignment Monodomain Liquid Crystal Elastomer Fiber. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0

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19	Control Strategies for Soft Robot Systems. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	64
20	Design of untethered soft material micromachine for life-like locomotion. <i>Materials Today</i> , 2022, 53, 197-216.	8.3	38
21	Design, Regulation, and Applications of Soft Actuators Based on Liquid-Crystalline Polymers and Their Composites. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 12951-12963.	4.0	22
22	Biomimetic and Biologically Compliant Soft Architectures via 3D and 4D Assembly Methods: A Perspective. <i>Advanced Materials</i> , 2022, 34, e2108391.	11.1	34
23	Liquid Crystalline Elastomers Based on Click Chemistry. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 14842-14858.	4.0	20
24	Microfluidic manipulation by spiral hollow-fibre actuators. <i>Nature Communications</i> , 2022, 13, 1331.	5.8	34
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26	Liquid Crystal Elastomer with Integrated Soft Thermoelectrics for Shape Memory Actuation and Energy Harvesting. <i>Advanced Materials</i> , 2022, 34, e2200857.	11.1	52
27	Advances in 4D printing of liquid crystalline elastomers: materials, techniques, and applications. <i>Materials Horizons</i> , 2022, 9, 1825-1849.	6.4	59
28	Actuation of Liquid Crystalline Elastomers at or Below Ambient Temperature. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202202577.	7.2	39
29	Digital Fabrication of Pneumatic Actuators with Integrated Sensing by Machine Knitting. , 2022, , .		27
30	Actuation of Liquid Crystalline Elastomers at or Below Ambient Temperature. <i>Angewandte Chemie</i> , 0, , .	1.6	1
31	Micro/nanofiber fabrication technologies for wearable sensors: a review. <i>Journal of Micromechanics and Microengineering</i> , 2022, 32, 064002.	1.5	5
32	Highly tunable actuation and mechanical properties of 4D-printed nematic liquid crystal elastomers. <i>Mechanics of Materials</i> , 2022, 170, 104329.	1.7	6
33	Photopolymerisable liquid crystals for additive manufacturing. <i>Additive Manufacturing</i> , 2022, 55, 102861.	1.7	1
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35	Shape-programmable, deformation-locking, and self-sensing artificial muscle based on liquid crystal elastomer and low-melting point alloy. <i>Science Advances</i> , 2022, 8, eabn5722.	4.7	46
36	Electrically driven liquid crystal network actuators. <i>Soft Matter</i> , 2022, 18, 4850-4867.	1.2	17

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42	Photothermal-Driven Liquid Crystal Elastomers: Materials, Alignment and Applications. <i>Molecules</i> , 2022, 27, 4330.	1.7	10
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53	A dynamically reprogrammable surface with self-evolving shape morphing. <i>Nature</i> , 2022, 609, 701-708.	13.7	45
54	Liquid Metal–Elastomer Composites with Dual–Energy Transmission Mode for Multifunctional Miniature Untethered Magnetic Robots. <i>Advanced Science</i> , 2022, 9, .	5.6	15
55	Cellulose–Reinforced Programmable and Stretch–Healable Actuators for Smart Packaging. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	12

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58	3D-Printed Photoresponsive Liquid Crystal Elastomer Composites for Free-Form Actuation. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	34
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60	Continuous Flow Microfluidic Production of Arbitrarily Long Tubular Liquid Crystal Elastomer Peristaltic Pump Actuators. <i>Small</i> , 0, , 2204693.	5.2	1
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62	Femtosecond Laser 4D Printing of Light-Driven Intelligent Micromachines. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	20
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67	Mechanical assessment of interfacial stability of LCP/MWCNT nanocomposites during phase transition. <i>Composites Part A: Applied Science and Manufacturing</i> , 2023, 167, 107461.	3.8	2
68	Advanced supramolecular design for direct ink writing of soft materials. <i>Chemical Society Reviews</i> , 2023, 52, 1614-1649.	18.7	25
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76	Liquid-phase drawing of LCE/CNT composites for electrothermal actuators. <i>Sensors and Actuators B: Chemical</i> , 2023, 390, 133846.	4.0	4
88	Navigating Soft Robots through Wireless Heating. , 2023, , .		1
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