

Voxelated liquid crystal elastomers

Science

347, 982-984

DOI: [10.1126/science.1261019](https://doi.org/10.1126/science.1261019)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Light-Fueled Microscopic Walkers. <i>Advanced Materials</i> , 2015, 27, 3883-3887.	11.1	355
2	Liquid crystals with patterned molecular orientation as an electrolytic active medium. <i>Physical Review E</i> , 2015, 92, 052502.	0.8	49
3	Smart Muscle-Driven Self-Cleaning of Biomimetic Microstructures from Liquid Crystal Elastomers. <i>Advanced Materials</i> , 2015, 27, 6828-6833.	11.1	86
4	Graphene-Enabled Superior and Tunable Photomechanical Actuation in Liquid Crystalline Elastomer Nanocomposites. <i>Advanced Materials</i> , 2015, 27, 6376-6381.	11.1	149
5	Programmed liquid crystal elastomers with tunable actuation strain. <i>Polymer Chemistry</i> , 2015, 6, 4835-4844.	1.9	85
6	Direct mapping of local director field of nematic liquid crystals at the nanoscale. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15291-15296.	3.3	17
7	Stressed states and persistent defects in confined nematic elastica. <i>Nonlinearity</i> , 2015, 28, 3957-3971.	0.6	2
8	Shape-shifting liquid crystals. <i>Science</i> , 2015, 347, 949-950.	6.0	17
9	Liquid Crystal Research Highlights. <i>Liquid Crystals Today</i> , 2015, 24, 98-98.	2.3	0
10	Controlling Motion at the Nanoscale: Rise of the Molecular Machines. <i>ACS Nano</i> , 2015, 9, 7746-7768.	7.3	385
11	New liquid crystal molecule advances organic solar cells. <i>Liquid Crystals Today</i> , 2015, 24, 99-100.	2.3	1
12	Metallo-, Thermo-, and Photoresponsive Shape Memory and Actuating Liquid Crystalline Elastomers. <i>Macromolecules</i> , 2015, 48, 3239-3246.	2.2	86
13	Photopatternable Biodegradable Aliphatic Polyester with Pendent Benzophenone Groups. <i>Biomacromolecules</i> , 2015, 16, 3329-3335.	2.6	16
14	Inhomogeneous stretch induced patterning of molecular orientation in liquid crystal elastomers. <i>Extreme Mechanics Letters</i> , 2015, 5, 30-36.	2.0	33
15	Programmable and adaptive mechanics with liquid crystal polymer networks and elastomers. <i>Nature Materials</i> , 2015, 14, 1087-1098.	13.3	1,250
16	Pure Anisotropic Hydrogel with an Inherent Chiral Internal Structure Based on the Chiral Nematic Liquid Crystal Phase of Rodlike Viruses. <i>ACS Macro Letters</i> , 2015, 4, 1215-1219.	2.3	29
17	Optical patterning of magnetic domains and defects in ferromagnetic liquid crystal colloids. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	27
18	Topology optimization for the design of folding liquid crystal elastomer actuators. <i>Soft Matter</i> , 2015, 11, 7288-7295.	1.2	72

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19	Programmable Liquid Crystal Elastomers Prepared by Thiolâ€“ene Photopolymerization. ACS Macro Letters, 2015, 4, 942-946.	2.3	120
20	A mechanically driven form of Kirigami as a route to 3D mesostructures in micro/nanomembranes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11757-11764.	3.3	429
21	Modeling Defects, Shape Evolution, and Programmed Auto-Origami in Liquid Crystal Elastomers. Frontiers in Materials, 2016, 3, .	1.2	24
22	Influence of a Crosslinker Containing an Azo Group on the Actuation Properties of a Photoactuating LCE System. Polymers, 2016, 8, 435.	2.0	32
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25	Patterning of Soft Matter across Multiple Length Scales. Advanced Functional Materials, 2016, 26, 2609-2616.	7.8	25
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38	Morphing in nature and beyond: a review of natural and synthetic shape-changing materials and mechanisms. <i>Journal of Materials Science</i> , 2016, 51, 10663-10689.	1.7	109
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41	Synthesis and characterization of chiral smectic side-chain liquid crystalline elastomers containing nematic and chiral mesogens. <i>New Journal of Chemistry</i> , 2016, 40, 9352-9360.	1.4	10
42	Size-Selective Binding of Sodium and Potassium Ions in Nanoporous Thin Films of Polymerized Liquid Crystals. <i>Advanced Functional Materials</i> , 2016, 26, 8023-8030.	7.8	45
43	Curvature and defects in nematic liquid crystals. <i>Liquid Crystals</i> , 2016, 43, 1920-1936.	0.9	41
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93	Reprogrammable Chemical 3D Shaping for Origami, Kirigami, and Reconfigurable Molding. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8250-8253.	7.2	36
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135	Steering with light: indexable photomotility in liquid crystalline polymers. <i>RSC Advances</i> , 2017, 7, 52510-52516.	1.7	7

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174	Adaptable liquid crystal elastomers with transesterification-based bond exchange reactions. <i>Soft Matter</i> , 2018, 14, 951-960.	1.2	92
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