

# Hao Zeng

## List of Publications by Year in descending order

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49  
papers

4,825  
citations

279798

23  
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254184

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docs citations

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times ranked

3778  
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#	ARTICLE	IF	CITATIONS
1	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.	11.2	26
2	Photoelastic plasmonic metasurfaces with ultra-large near infrared spectral tuning. <i>Materials Horizons</i> , 2022, 9, 942-951.	12.2	9
3	Optically controlled grasping-slipping robot moving on tubular surfaces. <i>Multifunctional Materials</i> , 2022, 5, 024001.	3.7	5
4	Optically Controlled Latching and Launching in Soft Actuators. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	24
5	Light-driven bimorph soft actuators: design, fabrication, and properties. <i>Materials Horizons</i> , 2021, 8, 728-757.	12.2	135
6	Near-Infrared Light-Driven Shape-Morphing of Programmable Anisotropic Hydrogels Enabled by MXene Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3390-3396.	13.8	213
7	Near-Infrared Light-Driven Shape-Morphing of Programmable Anisotropic Hydrogels Enabled by MXene Nanosheets. <i>Angewandte Chemie</i> , 2021, 133, 3432-3438.	2.0	20
8	Stimulus-driven liquid metal and liquid crystal network actuators for programmable soft robotics. <i>Materials Horizons</i> , 2021, 8, 2475-2484.	12.2	142
9	Frontispiece: Near-Infrared Light-Driven Shape-Morphing of Programmable Anisotropic Hydrogels Enabled by MXene Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2021, 60, .	13.8	0
10	Frontispiz: Near-Infrared Light-Driven Shape-Morphing of Programmable Anisotropic Hydrogels Enabled by MXene Nanosheets. <i>Angewandte Chemie</i> , 2021, 133, .	2.0	0
11	Bioinspired Ultrathin Piecewise Controllable Soft Robots. <i>Advanced Materials Technologies</i> , 2021, 6, 2001095.	5.8	27
12	Multistage Reversible $T_g$ Photomodulation and Hardening of Hydrazone-Containing Polymers. <i>Journal of the American Chemical Society</i> , 2021, 143, 16348-16353.	13.7	26
13	Kirigami-Based Light-Induced Shape-Morphing and Locomotion. <i>Advanced Materials</i> , 2020, 32, e1906233.	21.0	147
14	Associative Learning by Classical Conditioning in Liquid Crystal Network Actuators. <i>Matter</i> , 2020, 2, 194-206.	10.0	51
15	Tunable Photomechanics in Diarylethene-Driven Liquid Crystal Network Actuators. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 47939-47947.	8.0	23
16	Fast Switching of Bright Whiteness in Channeled Hydrogel Networks. <i>Advanced Functional Materials</i> , 2020, 30, 2000754.	14.9	53
17	Design principles for non-reciprocal photomechanical actuation. <i>Soft Matter</i> , 2020, 16, 5951-5958.	2.7	17
18	Bioinspired underwater locomotion of light-driven liquid crystal gels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 5125-5133.	7.1	237

#	ARTICLE	IF	CITATIONS
19	Viewpoint: Pavlovian Materialsâ€™ Functional Biomimetics Inspired by Classical Conditioning. <i>Advanced Materials</i> , 2020, 32, e1906619.	21.0	21
20	Programmable responsive hydrogels inspired by classical conditioning algorithm. <i>Nature Communications</i> , 2019, 10, 3267.	12.8	47
21	Light-fuelled freestyle self-oscillators. <i>Nature Communications</i> , 2019, 10, 5057.	12.8	142
22	An Artificial Nocturnal Flower via Humidityâ€Gated Photoactuation in Liquid Crystal Networks. <i>Advanced Materials</i> , 2019, 31, e1805985.	21.0	154
23	Lightâ€Driven, Caterpillarâ€Inspired Miniature Inching Robot. <i>Macromolecular Rapid Communications</i> , 2018, 39, 1700224.	3.9	180
24	Light Robots: Bridging the Gap between Microrobotics and Photomechanics in Soft Materials. <i>Advanced Materials</i> , 2018, 30, e1703554.	21.0	270
25	Programming Photoresponse in Liquid Crystal Polymer Actuators with Laser Projector. <i>Advanced Optical Materials</i> , 2018, 6, 1700949.	7.3	62
26	Reconfigurable photoactuator through synergistic use of photochemical and photothermal effects. <i>Nature Communications</i> , 2018, 9, 4148.	12.8	233
27	Microrobotics: Light Robots: Bridging the Gap between Microrobotics and Photomechanics in Soft Materials (Adv. Mater. 24/2018). <i>Advanced Materials</i> , 2018, 30, 1870174.	21.0	8
28	Selfâ€Regulating Iris Based on Lightâ€Actuated Liquid Crystal Elastomer. <i>Advanced Materials</i> , 2017, 29, 1701814.	21.0	288
29	A light-driven artificial flytrap. <i>Nature Communications</i> , 2017, 8, 15546.	12.8	499
30	Locomotion of light-driven soft microrobots through a hydrogel via local melting. , 2017, , .		3
31	Towards photo-induced swimming: actuation of liquid crystalline elastomer in water. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
32	Lightâ€Driven Soft Robot Mimics Caterpillar Locomotion in Natural Scale. <i>Advanced Optical Materials</i> , 2016, 4, 1689-1694.	7.3	288
33	Soft Robotics: Light-Driven Soft Robot Mimics Caterpillar Locomotion in Natural Scale (Advanced) Tj ETQq1 1 0.784314 rgBT <sub>5</sub> /Overlo	7.3	288
34	Soft continuous microrobots with multiple intrinsic degrees of freedom. , 2016, , .		2
35	Free-form Light Actuators &#8212; Fabrication and Control of Actuation in Microscopic Scale. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	0
36	Photonics walking up a human hair. , 2016, , .		0

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37	Structured light enables biomimetic swimming and versatile locomotion of photoresponsive soft microrobots. <i>Nature Materials</i> , 2016, 15, 647-653.	27.5	757
38	Light-Fueled Microscopic Walkers. <i>Advanced Materials</i> , 2015, 27, 3883-3887.	21.0	355
39	Artificial Muscle: Light-Fueled Microscopic Walkers ( <i>Adv. Mater.</i> 26/2015). <i>Advanced Materials</i> , 2015, 27, 3842-3842.	21.0	1
40	Optically controlled elastic microcavities. <i>Light: Science and Applications</i> , 2015, 4, e282-e282.	16.6	61
41	Controllable light diffraction in woodpile photonic crystals filled with liquid crystal. <i>Applied Physics Letters</i> , 2015, 106, 021113.	3.3	21
42	Alignment engineering in liquid crystalline elastomers: Free-form microstructures with multiple functionalities. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	56
43	Opto-Mechanically Tunable Polymeric Microlasers. , 2014, , .		1
44	High-Resolution 3D Direct Laser Writing for Liquid-Crystalline Elastomer Microstructures. <i>Advanced Materials</i> , 2014, 26, 2319-2322.	21.0	165
45	Beam focalization in reflection from flat dielectric subwavelength gratings. <i>Optics Letters</i> , 2014, 39, 6086.	3.3	18
46	Bending the ferroelectric domain wall by a bubble. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 345901.	1.8	0
47	Transcription of domain patterns in near-stoichiometric magnesium-doped lithium niobate. <i>Applied Physics Letters</i> , 2010, 97, 201901.	3.3	8
48	Light-induced superlow electric field for domain reversal in near-stoichiometric magnesium-doped lithium niobate. <i>Journal of Applied Physics</i> , 2010, 107, 063514.	2.5	12
49	Thermo- and chemical-triggered overhand and reef knots based on liquid crystal gels. <i>Journal of Materials Chemistry C</i> , 0, , .	5.5	0