

Shuai Huang

List of Publications by Year in descending order

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49
papers

1,714
citations

304602

22
h-index

289141

40
g-index

51
all docs

51
docs citations

51
times ranked

1267
citing authors

#	ARTICLE	IF	CITATIONS
1	A Light-Activated Polymer Composite Enables On-Demand Photocontrolled Motion: Transportation at the Liquid/Air Interface. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2655-2659.	7.2	151
2	Bioinspired Synergistic Photochromic Luminescence and Programmable Liquid Crystal Actuators. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11247-11251.	7.2	125
3	Supramolecular Chirality Transfer toward Chiral Aggregation: Asymmetric Hierarchical Self-Assembly. <i>Advanced Science</i> , 2021, 8, 2002132.	5.6	124
4	Covalent Adaptable Liquid Crystal Networks Enabled by Reversible Ring-Opening Cascades of Cyclic Disulfides. <i>Journal of the American Chemical Society</i> , 2021, 143, 12543-12551.	6.6	101
5	Photomechanical Motion of Liquid-Crystalline Fibers Bending Away from a Light Source. <i>Macromolecules</i> , 2017, 50, 8317-8324.	2.2	100
6	Healable and Rearrangeable Networks of Liquid Crystal Elastomers Enabled by Diselenide Bonds. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16394-16398.	7.2	92
7	Hierarchical Self-Assembly in Liquid-Crystalline Block Copolymers Enabled by Chirality Transfer. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12524-12528.	7.2	74
8	Light-driven continuous rotating Möbius strip actuators. <i>Nature Communications</i> , 2021, 12, 2334.	5.8	69
9	Flexible Solar Thermal Fuel Devices: Composites of Fabric and a Photoliquefiable Azobenzene Derivative. <i>Advanced Energy Materials</i> , 2019, 9, 1901363.	10.2	60
10	Photodeformable Liquid Crystalline Polymers Containing Functional Additives: Toward Photomanipulatable Intelligent Soft Systems. <i>Small Structures</i> , 2021, 2, 2100038.	6.9	58
11	Light-fueled transient supramolecular assemblies in water as fluorescence modulators. <i>Nature Communications</i> , 2021, 12, 4993.	5.8	56
12	Athermal and Soft Multi-Nanopatterning of Azopolymers: Phototunable Mechanical Properties. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4035-4042.	7.2	55
13	Liquid Crystal Elastomer Electric Locomotives. <i>ACS Macro Letters</i> , 2020, 9, 860-865.	2.3	55
14	Supramolecular Liquid-Crystalline Polymer Organogel: Fabrication, Multiresponsiveness, and Holographic Switching Properties. <i>Chemistry of Materials</i> , 2019, 31, 3388-3394.	3.2	51
15	A Light-Activated Polymer Composite Enables On-Demand Photocontrolled Motion: Transportation at the Liquid/Air Interface. <i>Angewandte Chemie</i> , 2019, 131, 2681-2685.	1.6	51
16	Photoinduced multi-directional deformation of azobenzene molecular crystals. <i>Journal of Materials Chemistry C</i> , 2019, 7, 503-508.	2.7	48
17	Hydrogen Bond Enhances Photomechanical Swing of Liquid-Crystalline Polymer Bilayer Films. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 6585-6596.	4.0	46
18	Vertical Orientation of Nanocylinders in Liquid-Crystalline Block Copolymers Directed by Light. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24864-24872.	4.0	42

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19	UV-Vis-NIR light-induced bending of shape-memory polyurethane composites doped with azobenzene and upconversion nanoparticles. <i>Polymer</i> , 2019, 178, 121644.	1.8	34
20	Liquid crystal elastomer actuator with serpentine locomotion. <i>Chemical Communications</i> , 2020, 56, 7597-7600.	2.2	34
21	Bioinspired Synergistic Photochromic Luminescence and Programmable Liquid Crystal Actuators. <i>Angewandte Chemie</i> , 2021, 133, 11347-11351.	1.6	28
22	Confined Self-Assembly Enables Stabilization and Patterning of Nanostructures in Liquid-Crystalline Block Copolymers. <i>Macromolecules</i> , 2019, 52, 1892-1898.	2.2	24
23	Enhanced Ordering and Efficient Photoalignment of Nanostructures in Block Copolymers Enabled by Halogen Bond. <i>Macromolecules</i> , 2020, 53, 1486-1493.	2.2	22
24	Perylene and naphthalene diimide copolymers for all-polymer solar cells: Effect of perylene/naphthalene ratio. <i>Journal of Polymer Science Part A</i> , 2017, 55, 682-689.	2.5	19
25	Designing seamless-welded liquid-crystalline soft actuators with a "glue-free" method by dynamic boroxines. <i>Polymer</i> , 2020, 208, 122962.	1.8	18
26	Hierarchical Self-Assembly in Liquid-Crystalline Block Copolymers Enabled by Chirality Transfer. <i>Angewandte Chemie</i> , 2018, 130, 12704-12708.	1.6	17
27	Healable and Rearrangeable Networks of Liquid Crystal Elastomers Enabled by Diselenide Bonds. <i>Angewandte Chemie</i> , 2021, 133, 16530-16534.	1.6	16
28	Athermal and Soft Multi-Nanopatterning of Azopolymers: Phototunable Mechanical Properties. <i>Angewandte Chemie</i> , 2020, 132, 4064-4071.	1.6	15
29	Nonfullerene acceptor with strong near-infrared absorption for polymer solar cells. <i>Dyes and Pigments</i> , 2017, 137, 553-559.	2.0	14
30	Hydrogen Bond Induces Hierarchical Self-Assembly in Liquid-Crystalline Block Copolymers. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1700783.	2.0	13
31	A copper(i)-catalyzed azide-alkyne click chemistry approach towards multifunctional two-way shape-memory actuators. <i>Polymer Chemistry</i> , 2020, 11, 3747-3755.	1.9	13
32	Nanoporous Supramolecular Liquid Crystal Polymeric Material for Specific and Selective Uptake of Melamine. <i>Macromolecules</i> , 2020, 53, 4204-4213.	2.2	13
33	A phase-dependent photoluminescent discotic liquid crystal bearing a graphdiyne substructure. <i>Chemical Communications</i> , 2021, 57, 911-914.	2.2	10
34	Ring-Opening Metathesis Polymerization of a Macrobicyclic Olefin Bearing a Sacrificial Silyloxy Bridge. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	9
35	Organic-inorganic hybrid liquid crystals of azopyridine-enabled halogen-bonding towards sensing in aquatic environment. <i>RSC Advances</i> , 2020, 10, 35873-35877.	1.7	8
36	Intelligent Surfaces Thermally Switchable between the Highly Rough and Entirely Smooth States. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021, 39, 1609-1616.	2.0	8

#	ARTICLE	IF	CITATIONS
37	Determination of refractive index increment of synthetic polybutadienes and microstructural control of grafting density and liquid crystalline properties. <i>Polymer Chemistry</i> , 2020, 11, 2559-2567.	1.9	7
38	Photodeformable Liquid Crystalline Polymers Containing Functional Additives: Toward Photomanipulatable Intelligent Soft Systems. <i>Small Structures</i> , 2021, 2, 2170024.	6.9	7
39	An ultrahigh fatigue resistant liquid crystal elastomer-based material enabled by liquid metal. <i>Science China Materials</i> , 2022, 65, 1679-1686.	3.5	6
40	Cooperative and Independent Effect of Modular Functionalization on Mesomorphic Performances and Microphase Separation of Well-Designed Liquid Crystalline Diblock Copolymers. <i>Chemistry - A European Journal</i> , 2020, 26, 11199-11208.	1.7	5
41	Optically Active Nucleobase-Functionalized Polynorbornenes Mimicking Double-Helix DNA. <i>CCS Chemistry</i> , 2021, 3, 1787-1796.	4.6	5
42	Biodegradable and crosslinkable poly(propylene fumarate) liquid crystal polymers. <i>Polymer Chemistry</i> , 2022, 13, 1267-1273.	1.9	3
43	Energy Storage: Flexible Solar Thermal Fuel Devices: Composites of Fabric and a Photoliquefiable Azobenzene Derivative (<i>Adv. Energy Mater.</i> 37/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970145.	10.2	2
44	Ring-Opening Metathesis Polymerization of a Macrobicyclic Olefin Bearing a Sacrificial Silyloxy Bridge. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2
45	Macromol. Rapid Commun. 6/2018. <i>Macromolecular Rapid Communications</i> , 2018, 39, 1870017.	2.0	1
46	An "inverted load" strategy to fabricate interface-optimized flexible electrodes with superior electrochemical performance and ultrastability. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11128-11137.	2.7	0
47	Thermal and Soft Multi-Nanopatterning of Azopolymers: Phototunable Mechanical Properties (<i>Angew. Chem.</i> 10/2020). <i>Angewandte Chemie</i> , 2020, 132, 4212-4212.	1.6	0
48	Synthesis and Self-Assembly of Alternating Heterodinucleoside Polytriazoles. <i>Macromolecules</i> , 2021, 54, 341-350.	2.2	0
49	Ring-Opening Metathesis Polymerization of a Macrobicyclic Olefin Bearing a Sacrificial Silyloxy Bridge (<i>Angew. Chem.</i> 2/2022). <i>Angewandte Chemie</i> , 2022, 134, .	1.6	0