

Zhi-gang Zheng

List of Publications by Year in descending order

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82
papers

2,840
citations

201674

27
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182427

51
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84
all docs

84
docs citations

84
times ranked

2009
citing authors

#	ARTICLE	IF	CITATIONS
1	A Quadri-dimensional Manipulable Laser with an Intrinsic Chiral Photoswitch. <i>Advanced Materials</i> , 2022, 34, e2110170.	21.0	20
2	A long-term stable low-viscous self-organized blue phase liquid crystal superstructure with wide operation temperature range. <i>Liquid Crystals</i> , 2022, 49, 192-200.	2.2	7
3	Rational Co-Doping of SrZrO ₃ and BaTiO ₃ in Bi _{0.5} Na _{0.5} TiO ₃ for Extraordinary Energy Storage and Electrocaloric Performances. <i>ACS Applied Energy Materials</i> , 2022, 5, 3477-3488.	5.1	5
4	Digital photoprogramming of liquid-crystal superstructures featuring intrinsic chiral photoswitches. <i>Nature Photonics</i> , 2022, 16, 226-234.	31.4	115
5	Perfluoroalkyl acrylate functionalized soft cubic optical microstructure with enhanced electric-field responsiveness. <i>Optical Materials Express</i> , 2022, 12, 2117.	3.0	1
6	Dynamically actuated soft heliconical architecture via frequency of electric fields. <i>Nature Communications</i> , 2022, 13, 2712.	12.8	35
7	Circularly polarized perovskite luminescence with dissymmetry factor up to 1.9 by soft helix bilayer device. <i>Matter</i> , 2022, 5, 2319-2333.	10.0	40
8	Tailoring ultra-broadband vector beams via programming the electric field vector of light. <i>Optics Express</i> , 2022, 30, 28506.	3.4	4
9	Diffusionless transformation of soft cubic superstructure from amorphous to simple cubic and body-centered cubic phases. <i>Nature Communications</i> , 2021, 12, 3477.	12.8	24
10	Cholesteric Soft Matter Molded Helical Photonic Architecture toward Volatility Monitoring of Organic Solvent. <i>Advanced Photonics Research</i> , 2021, 2, 2100018.	3.6	2
11	Circularly Polarized Fluorescence Resonance Energy Transfer (C-FRET) for Efficient Chirality Transmission within an Intermolecular System. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24549-24557.	13.8	72
12	Light-rewritable geometric phase and reflectance modulations enabled by pattern-aligned photoresponsive liquid crystal superstructures. <i>Liquid Crystals</i> , 2020, 47, 255-262.	2.2	6
13	Design and fabrication of 2 kHz nematic liquid crystal variable retarder with reflection mode. <i>Liquid Crystals</i> , 2020, 47, 870-881.	2.2	1
14	Photoresponsive Materials: Photoprogrammable Mesogenic Soft Helical Architectures: A Promising Avenue toward Future Chiro-Optics (Adv. Mater. 41/2020). <i>Advanced Materials</i> , 2020, 32, 2070305.	21.0	1
15	Photoprogrammable Mesogenic Soft Helical Architectures: A Promising Avenue toward Future Chiro-Optics. <i>Advanced Materials</i> , 2020, 32, e1905318.	21.0	84
16	Reversible On-Off of Chirality and Anisotropy in Patterned Coexistence of Achiral-Anisotropic and Chiral-Isotropic Soft Materials. <i>Advanced Optical Materials</i> , 2020, 8, 2000155.	7.3	16
17	Large-area, low-cost near-infrared meta-surface reflector based on a pixelated two-dimensional silicon disk array. <i>Optics Express</i> , 2020, 28, 38355.	3.4	5
18	Electrically tunable helicity of cholesteric heliconical superstructure [Invited]. <i>Chinese Optics Letters</i> , 2020, 18, 080005.	2.9	1

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19	Low-threshold triple-wavelength lasing from a subwavelength triangle microcavity polymer laser fabricated by imaging holography. <i>Organic Electronics</i> , 2019, 75, 105319.	2.6	2
20	Stimulated transformation of soft helix among helicoidal, heliconical, and their inverse helices. <i>Science Advances</i> , 2019, 5, eaax9501.	10.3	68
21	Graphene-based chiral liquid crystal materials for optical applications. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2146-2171.	5.5	54
22	Light-Activated Liquid Crystalline Hierarchical Architecture Toward Photonics. <i>Advanced Optical Materials</i> , 2019, 7, 1900393.	7.3	29
23	Stable soft cubic superstructure enabled by hydrogen-bond complex functionalized polymer/liquid crystal system. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3952-3957.	5.5	5
24	Low-threshold organic lasing from a square optical microcavity fabricated by imaging holography. <i>Optics Express</i> , 2019, 27, 10022.	3.4	6
25	Synthesis of POSS-functionalized liquid crystalline block copolymers via RAFT polymerization for stabilizing blue phase helical soft superstructures. <i>Polymer Chemistry</i> , 2018, 9, 2101-2108.	3.9	10
26	Light-Driven Reversible Transformation between Self-Organized Simple Cubic Lattice and Helical Superstructure Enabled by a Molecular Switch Functionalized Nanocage. <i>Advanced Materials</i> , 2018, 30, e1800237.	21.0	57
27	Electrically Switchable, Hyper-Reflective Blue Phase Liquid Crystals Films. <i>Advanced Optical Materials</i> , 2018, 6, 1700891.	7.3	33
28	Adaptive Materials: Light-Driven Reversible Transformation between Self-Organized Simple Cubic Lattice and Helical Superstructure Enabled by a Molecular Switch Functionalized Nanocage (Adv.) <i>Tj ETQq0 0 0 rgB710/Overlook 10 Tf 50</i>	21.0	57
29	Micro-patterned liquid crystal Pancharatnam "Berry axilens. <i>Chinese Optics Letters</i> , 2018, 16, 062301.	2.9	7
30	Localization of blue phase liquid crystal with ordered crystallographic direction and well-defined micro-patterning. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2018, 67, 066101.	0.5	0
31	Controllable Dynamic Zigzag Pattern Formation in a Soft Helical Superstructure. <i>Advanced Materials</i> , 2017, 29, 1701903.	21.0	67
32	Stimuli-directed self-organized chiral superstructures for adaptive windows enabled by mesogen-functionalized graphene. <i>Materials Today</i> , 2017, 20, 230-237.	14.2	194
33	Room temperature stable helical blue phase enabled by a photo-polymerizable bent-shaped material. <i>Journal of Materials Chemistry C</i> , 2017, 5, 690-696.	5.5	26
34	Light-Patterned Crystallographic Direction of a Self-Organized 3D Soft Photonic Crystal. <i>Advanced Materials</i> , 2017, 29, 1703165.	21.0	120
35	Dynamically manipulated lasing enabled by a reconfigured fingerprint texture of a cholesteric self-organized superstructure. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6923-6928.	5.5	20
36	Switchable Fresnel lens based on hybrid photo-aligned dual frequency nematic liquid crystal. <i>Optical Materials Express</i> , 2017, 7, 8.	3.0	35

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37	Light-Driven Liquid Crystal Circular Dammann Grating Fabricated by a Micro-Patterned Liquid Crystal Polymer Phase Mask. <i>Polymers</i> , 2017, 9, 380.	4.5	10
38	Enhanced Low-temperature Electro-optical Kerr Effect of Stable Cubic Soft Superstructure Enabled by Fluorinated Polymer Stabilization. <i>Scientific Reports</i> , 2017, 7, 10383.	3.3	9
39	Lasing of self-organized helical cholesteric liquid crystal micro-droplets based on emulsification. <i>Optical Materials Express</i> , 2016, 6, 1256.	3.0	10
40	Liquid crystal Fresnel lens display. <i>Chinese Physics B</i> , 2016, 25, 094215.	1.4	4
41	Effect of fluorine groups and different terminal chains on the electro-isomerization of azobenzene liquid crystals. <i>Chinese Physics B</i> , 2016, 25, 096401.	1.4	2
42	The effects of asymmetric bent-shaped compounds on the temperature range and electro-optical performances of liquid crystalline blue phases. <i>RSC Advances</i> , 2016, 6, 110750-110757.	3.6	5
43	Self-organized Chiral Liquid Crystalline Nanostructures for Energy-Saving Devices. <i>Nanoscience and Technology</i> , 2016, , 513-558.	1.5	3
44	Thermally reversible full color selective reflection in a self-organized helical superstructure enabled by a bent-core oligomesogen exhibiting a twist-bend nematic phase. <i>Materials Horizons</i> , 2016, 3, 442-446.	12.2	80
45	Light-reconfigured waveband-selective diffraction device enabled by micro-patterning of a photoresponsive self-organized helical superstructure. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9325-9330.	5.5	31
46	Preparation and optical properties of Fe ₃ O ₄ nanoparticles-doped blue phase liquid crystal. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 29028-29032.	2.8	30
47	Frequency-Driven Self-Organized Helical Superstructures Loaded with Mesogen-Grafted Silica Nanoparticles. <i>Angewandte Chemie</i> , 2016, 128, 13284-13288.	2.0	24
48	Frequency-Driven Self-Organized Helical Superstructures Loaded with Mesogen-Grafted Silica Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13090-13094.	13.8	85
49	Polarity-dependent bistable optical grating in chiral bent-core nematic liquid crystals. <i>Optical Materials Express</i> , 2016, 6, 2584.	3.0	5
50	Wide blue phase range induced by bent-shaped molecules with acrylate end groups. <i>Optical Materials Express</i> , 2016, 6, 436.	3.0	9
51	Optical array generator based on blue phase liquid crystal Dammann grating. <i>Optical Materials Express</i> , 2016, 6, 1087.	3.0	30
52	Synthesis and characterisation of photochromic dithienylcyclopentene liquid crystal with thermal irreversibility. <i>Liquid Crystals</i> , 2016, 43, 803-810.	2.2	0
53	Three-dimensional control of the helical axis of a chiral nematic liquid crystal by light. <i>Nature</i> , 2016, 531, 352-356.	27.8	435
54	Electrically/optically tunable photo-aligned hybrid nematic liquid crystal Dammann grating. <i>Optics Letters</i> , 2016, 41, 5668.	3.3	22

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55	Rationally Designed Dynamic Superstructures Enabled by Photoaligning Cholesteric Liquid Crystals. <i>Advanced Optical Materials</i> , 2015, 3, 1691-1696.	7.3	58
56	Broadband tunable liquid crystal terahertz waveplates driven with porous graphene electrodes. <i>Light: Science and Applications</i> , 2015, 4, e253-e253.	16.6	148
57	Wide tunable lasing in photoresponsive chiral liquid crystal emulsion. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2462-2470.	5.5	44
58	Dichroic-dye-doped polymer stabilized optically isotropic chiral liquid crystals. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6471.	5.5	17
59	Low-voltage-modulated laser based on dye-doped polymer stabilized cholesteric liquid crystal. <i>Optical Materials Express</i> , 2013, 3, 519.	3.0	22
60	Brief review of recent research on blue phase liquid crystal materials and devices. <i>Chinese Optics Letters</i> , 2013, 11, 011601-11605.	2.9	12
61	Bistable state in polymer stabilized blue phase liquid crystal. <i>Optical Materials Express</i> , 2012, 2, 1353.	3.0	5
62	Large birefringence liquid crystal material in terahertz range. <i>Optical Materials Express</i> , 2012, 2, 1314.	3.0	104
63	Holographic polymer-dispersed liquid crystal grating with low scattering losses. <i>Liquid Crystals</i> , 2012, 39, 387-391.	2.2	13
64	Low-temperature-applicable polymer-stabilized blue-phase liquid crystal and its Kerr effect. <i>Journal of the Society for Information Display</i> , 2012, 20, 326-332.	2.1	13
65	Polarization-independent blue-phase liquid crystal gratings driven by vertical electric field. <i>Journal of the Society for Information Display</i> , 2012, 20, 341-346.	2.1	45
66	Blue phase liquid crystals induced by bent-shaped molecules based on 1,3,4-oxadiazole derivatives. <i>Liquid Crystals</i> , 2012, 39, 99-103.	2.2	50
67	Photoinduced phase transition behaviours of the liquid crystal blue phase doped with azobenzene bent-shaped molecules. <i>Liquid Crystals</i> , 2012, 39, 509-514.	2.2	25
68	Structural investigations of multiple gratings recorded in polymer-dispersed liquid crystals film by holography. <i>Liquid Crystals</i> , 2011, 38, 17-23.	2.2	6
69	Liquid crystal blue phase induced by bent-shaped molecules with allylic end groups. <i>Optical Materials Express</i> , 2011, 1, 1478.	3.0	21
70	Self-polarizing terahertz liquid crystal phase shifter. <i>AIP Advances</i> , 2011, 1, .	1.3	81
71	The liquid crystal blue phase induced by bent-shaped molecules with different terminal chain lengths. <i>New Journal of Physics</i> , 2011, 13, 063037.	2.9	17
72	Electro-optical properties of polymer stabilized cholesteric liquid crystal film. <i>Chinese Physics B</i> , 2011, 20, 024212.	1.4	12

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73	Wide blue phase range of chiral nematic liquid crystal doped with bent-shaped molecules. <i>New Journal of Physics</i> , 2010, 12, 113018.	2.9	89
74	INFLUENCE OF CHEMICAL STRUCTURE OF MONOMERS ON THERMO-STABILITY OF HOLOGRAPHIC POLYMER DISPERSED LIQUID CRYSTAL GRATINGS. <i>Acta Polymerica Sinica</i> , 2010, 010, 408-415.	0.0	0
75	Thermo-stability of acrylate based holographic polymer dispersed liquid crystal gratings. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 115504.	2.8	6
76	A multi-domain vertical alignment liquid crystal display to improve the V _a €T property. <i>Displays</i> , 2009, 30, 185-189.	3.7	27
77	Investigation of alignment direction in wide view film and rubbing angle of twisted nematic liquid crystal display mode. <i>Liquid Crystals</i> , 2009, 36, 487-492.	2.2	6
78	Low threshold and high contrast polymer dispersed liquid crystal grating based on twisted nematic polarization modulator. <i>Applied Physics B: Lasers and Optics</i> , 2008, 91, 17-20.	2.2	8
79	Molecular dynamics of the interfacial properties of partially fluorinated polymer dispersed liquid crystal gratings. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 235302.	2.8	9
80	Improvements in morphological and electro-optical properties of polymer-dispersed liquid crystal grating using a highly fluorine-substituted acrylate monomer. <i>Liquid Crystals</i> , 2008, 35, 885-893.	2.2	14
81	Single-step exposure for two-dimensional electrically-tuneable diffraction grating based on polymer dispersed liquid crystal. <i>Liquid Crystals</i> , 2008, 35, 489-499.	2.2	15
82	Influence of molecular mass on the liquid crystal alignment of photosensitive fluorinated polyester films. <i>Liquid Crystals</i> , 2007, 34, 101-106.	2.2	1