

# Wan-Li He

## List of Publications by Citations

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38  
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100  
ext. papers

2,155  
ext. citations

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L-index

#	Paper	IF	Citations
97	Wide Blue Phase Range in a Hydrogen-Bonded Self-Assembled Complex of Chiral Fluoro-Substituted Benzoic Acid and Pyridine Derivative. <i>Advanced Materials</i> , <b>2009</b> , 21, 2050-2053	24	172
96	Hysteresis-free blue phase liquid-crystal-stabilized by ZnS nanoparticles. <i>Small</i> , <b>2012</b> , 8, 2189-93	11	126
95	Polymer stabilized liquid crystal films reflecting both right- and left-circularly polarized light. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 201901	3.4	89
94	Low voltage and hysteresis-free blue phase liquid crystal dispersed by ferroelectric nanoparticles. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 19629		77
93	Wide blue phase range and electro-optical performances of liquid crystalline composites doped with thiophene-based mesogens. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 2383-2386		70
92	Light-controllable reflection wavelength of blue phase liquid crystals doped with azobenzene-dimers. <i>Chemical Communications</i> , <b>2013</b> , 49, 10097-9	5.8	69
91	Broadband reflection of polymer-stabilized chiral nematic liquid crystals induced by a chiral azobenzene compound. <i>Chemical Communications</i> , <b>2014</b> , 50, 691-4	5.8	65
90	Polymer-stabilized nanoparticle-enriched blue phase liquid crystals. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 6526	7.1	62
89	Fabrication of multi-pitched photonic structure in cholesteric liquid crystals based on a polymer template with helical structure. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 4094		59
88	Effects of 1,3,4-oxadiazoles with different rigid cores on the thermal and electro-optical performances of liquid crystalline blue phases. <i>Liquid Crystals</i> , <b>2012</b> , 39, 629-638	2.3	44
87	Effects of symmetrically 2,5-disubstituted 1,3,4-oxadiazoles on the temperature range of liquid crystalline blue phases: a systematic study. <i>Liquid Crystals</i> , <b>2013</b> , 40, 354-367	2.3	42
86	Effect of lateral fluoro substituents of rodlike tolane cyano mesogens on blue phase temperature ranges. <i>Soft Matter</i> , <b>2013</b> , 9, 1172-1177	3.6	40
85	Optical intensity-driven reversible photonic bandgaps in self-organized helical superstructures with handedness inversion. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 3678-3683	7.1	33
84	Synthesis of chiral azobenzene derivatives and the performance in photochemical control of blue phase liquid crystal. <i>Liquid Crystals</i> , <b>2018</b> , 45, 370-380	2.3	32
83	Binary "island" shaped arrays with high-density hot spots for surface-enhanced Raman scattering substrates. <i>Nanoscale</i> , <b>2018</b> , 10, 14220-14229	7.7	32
82	Wide-band reflective polarizers from cholesteric liquid crystals with stable optical properties. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 105, 2973-2977	2.9	32
81	Third-order nonlinear optical properties of a novel series of D- $\pi$ A pyrene-aldehyde derivatives. <i>Journal of Nonlinear Optical Physics and Materials</i> , <b>2016</b> , 25, 1650014	0.8	30

80	Effects of a chemically modified multiwall carbon nanotubes on electro-optical properties of PDLC films. <i>Liquid Crystals</i> , <b>2018</b> , 45, 1023-1031	2.3	29
79	Bias-Polarity Dependent Bidirectional Modulation of Photonic Bandgap in a Nanoengineered 3D Blue Phase Polymer Scaffold for Tunable Laser Application. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800409	8.1	26
78	Broadband reflection characteristic of polymer-stabilised cholesteric liquid crystal with pitch gradient induced by a hydrogen bond. <i>Liquid Crystals</i> , <b>2010</b> , 37, 1275-1280	2.3	26
77	Engineering of Organic Chromophores with Large Second-Order Optical Nonlinearity and Superior Crystal Growth Ability. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 5560-5567	3.5	25
76	Photonic Shape Memory Polymer Based on Liquid Crystalline Blue Phase Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 46124-46131	9.5	25
75	Preparation and optical properties of FeO nanoparticles-doped blue phase liquid crystal. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 29028-29032	3.6	23
74	Broadband reflection in polymer stabilized cholesteric liquid crystal films with stepwise photo-polymerization. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 2353-2358	3.6	22
73	Synthesis and self-assembly behaviours of side-chain smectic thiolene polymers based on the polysiloxane backbone. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 1425-1440	7.1	22
72	Synthesis and application of reversible fluorescent photochromic molecules based on tetraphenylethylene and photochromic groups. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 617-621	3.6	21
71	Flexible H-bonded liquid-crystals with wide enantiotropic blue phases. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 5622-6	3.6	21
70	Click chemistry functionalization improving the wideband optical-limiting performance of fullerene derivatives. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 7341-8	3.6	20
69	Fabrication and photonic applications of large-domain blue phase films. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 9460-9466	7.1	20
68	The application of double click to synthesize a third-order nonlinear polymer containing donor-acceptor chromophores. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 3714-3721	4.9	19
67	Study on the electro-optical properties of polyimide-based polymer-dispersed liquid crystal films. <i>Liquid Crystals</i> , <b>2015</b> , 42, 1689-1697	2.3	18
66	Blue phase liquid crystals affected by graphene oxide modified with aminoazobenzol group. <i>Liquid Crystals</i> , <b>2016</b> , 43, 573-580	2.3	18
65	Effects of thiophene-based mesogen terminated with branched alkoxy group on the temperature range and electro-optical performances of liquid crystalline blue phases. <i>Liquid Crystals</i> , <b>2016</b> , 43, 524-534	2.3	17
64	Liquid crystalline and thermo-optical properties of cyclic siloxane tetramers containing cholesteryl-4-allyloxy-benzoate and biphenyl-4-yl 4-allyloxybenzoate. <i>Liquid Crystals</i> , <b>2011</b> , 38, 9-15	2.3	16
63	Bandwidth-controllable reflective cholesteric gels from photo- and thermally-induced processes. <i>Liquid Crystals</i> , <b>2010</b> , 37, 311-316	2.3	15

62	Nonlinear optical properties of the novel kind of organic donor-acceptor thiophene derivatives with click chemistry modification. <i>Tetrahedron</i> , <b>2017</b> , 73, 6210-6216	2.4	14
61	Pyrene-Based Small Molecular Nonlinear Optical Materials Modified by "Click-Reaction" <i>Journal of Electronic Materials</i> , <b>2015</b> , 44, 2883-2889	1.9	14
60	Liquid crystalline blue phase materials with three-dimensional nanostructures. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 13352-13366	7.1	14
59	Self-Assembled Porphyrin-Based Nanoparticles with Enhanced Near-Infrared Absorbance for Fluorescence Imaging and Cancer Photodynamic Therapy.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 999-1005	4.1	14
58	Broadband reflection mechanism of polymer stabilised cholesteric liquid crystal (PSChLC) with pitch gradient. <i>Liquid Crystals</i> , <b>2011</b> , 38, 673-677	2.3	13
57	Application of Near-IR Absorption Porphyrin Dyes Derived from Click Chemistry as Third-Order Nonlinear Optical Materials. <i>ChemistryOpen</i> , <b>2016</b> , 5, 71-7	2.3	13
56	Printable photonic polymer coating based on a monodomain blue phase liquid crystal network. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 13764-13769	7.1	13
55	Synthesis and mesophase behaviour of branched azobenzene-based supramolecular hydrogen-bonded liquid crystals. <i>Liquid Crystals</i> , <b>2017</b> , 44, 593-602	2.3	12
54	Broadband reflective liquid crystal films induced by facile temperature-dependent coexistence of chiral nematic and TGB phase. <i>Liquid Crystals</i> , <b>2017</b> , 44, 582-592	2.3	12
53	The effects of azo-oxadiazole-based bent-shaped molecules on the temperature range and the light-responsive performance of blue phase liquid crystal. <i>Liquid Crystals</i> , <b>2019</b> , 46, 1024-1034	2.3	12
52	Reversible solvent-sensitive actuator with continuous bending/debending process from liquid crystal elastomer-colloidal material. <i>Soft Matter</i> , <b>2018</b> , 14, 5547-5553	3.6	11
51	TiO <sub>2</sub> nanorod arrays induced broad-band reflection in chiral nematic liquid crystals with photo-polymerization network. <i>Liquid Crystals</i> , <b>2019</b> , 46, 210-218	2.3	11
50	Double UV polymerisation with variable temperature-controllable selective reflection of polymer-stabilised liquid crystal (PSLC) composites. <i>Liquid Crystals</i> , <b>2016</b> , 43, 1299-1306	2.3	10
49	Effect of bent-shape and calamitic-shape of hydrogen-bonded mesogens on the liquid crystalline properties. <i>Liquid Crystals</i> , <b>2015</b> , 42, 1191-1200	2.3	9
48	Facile synthesis of functional poly(vinylene sulfide)s containing donor-acceptor chromophores by a double click reaction. <i>RSC Advances</i> , <b>2016</b> , 6, 59327-59332	3.7	9
47	Large-sized benzo[e]indolium salt single crystals with high optical nonlinearity. <i>CrystEngComm</i> , <b>2019</b> , 21, 5626-5632	3.3	9
46	Third-order nonlinear optical properties of a novel series of azobenzene liquid crystal derivatives. <i>Molecular Crystals and Liquid Crystals</i> , <b>2016</b> , 630, 1-5	0.5	9
45	Spin-Dependent Charge Transport in 1D Chiral Hybrid Lead-Bromide Perovskite with High Stability. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1904605	15.6	9

44	Silica aerogel films via ambient pressure drying for broadband reflectors. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 6525-6531	3.6	8
43	Nonlinear Optical Properties of Porphyrin Derivatives with Electron-donating or Electron-withdrawing Substituents. <i>Chinese Journal of Chemistry</i> , <b>2016</b> , 34, 381-386	4.9	8
42	Effect of Monomer Composition on the Performance of Polymer-Stabilized Liquid Crystals with Two-Step Photopolymerization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2019</b> , 57, 1126-1132	2.6	8
41	Reflective Band Memory Effect of Cholesteric Polymer Networks Based on Washout/Refilling Method. <i>Macromolecular Chemistry and Physics</i> , <b>2020</b> , 221, 1900572	2.6	8
40	Polymer dispersed liquid crystals doped with CeO <sub>2</sub> nanoparticles for the smart window. <i>Liquid Crystals</i> , 1-10	2.3	8
39	3D nanomaterial silica aerogel via diffusion of chiral compound driven broadband reflection in chiral nematic liquid crystals. <i>Liquid Crystals</i> , <b>2019</b> , 46, 952-962	2.3	8
38	Super wide-band reflective polarisers from polymer stabilised liquid crystal films. <i>Liquid Crystals</i> , <b>2009</b> , 36, 497-501	2.3	7
37	Synthesis and optical behaviour of hydrogen-bonded liquid crystals based on a chiral pyridine derivative. <i>Liquid Crystals</i> , <b>2011</b> , 38, 1217-1225	2.3	7
36	Effects of donor and acceptor on optoelectronic performance for porphyrin derivatives: Nonlinear optical properties and dye-sensitized solar cells. <i>Chemical Research in Chinese Universities</i> , <b>2015</b> , 31, 992-996	3.36	6
35	Synthesis and co-assembly of gold nanoparticles functionalized by a pyrene-thiol derivative. <i>RSC Advances</i> , <b>2015</b> , 5, 140-145	3.7	6
34	Chiral hydrogen-bonded complex with different mesogens length and its effect on the performances of blue phase. <i>Optical Materials Express</i> , <b>2016</b> , 6, 868	2.6	6
33	Third-order nonlinear optical properties of the clicked-closed-ring spiropyrans. <i>Dyes and Pigments</i> , <b>2019</b> , 162, 451-458	4.6	6
32	Nanoparticle-doped chiral nematic liquid-crystal composite and its effect in magnetic-response and electric-response flexible display. <i>Liquid Crystals</i> , <b>2019</b> , 46, 249-256	2.3	5
31	Schiff base derivative doped chiral nematic liquid crystals with a large wavelength shift driven by temperature and light. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 561-566	7.1	5
30	The effects of asymmetric bent-shaped compounds on the temperature range and electro-optical performances of liquid crystalline blue phases. <i>RSC Advances</i> , <b>2016</b> , 6, 110750-110757	3.7	5
29	Detection of glucose in diabetic tears by using gold nanoparticles and MXene composite surface-enhanced Raman scattering substrates. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2022</b> , 266, 120432	4.4	5
28	Highly Efficient Spin-Filtering Transport in Chiral Hybrid Copper Halides. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 23578-23583	16.4	5
27	Energy-level tuning of poly(p-phenylenebutadiynylene) derivatives by click chemistry-type postfunctionalization of side-chain alkynes. <i>Reactive and Functional Polymers</i> , <b>2016</b> , 105, 114-121	4.6	4

26	Effect of the dimeric H-bonded mesogens of chiral acids on the mesogenic and optical properties. <i>Liquid Crystals</i> , <b>2016</b> , 43, 874-885	2.3	4
25	Influence of ZnO NPs on morphological and electro-optical properties of polymer-dispersed liquid crystals. <i>Liquid Crystals</i> , 1-10	2.3	4
24	Studies on electro-optical properties of polymer dispersed liquid crystals doped with reticular nanofiber films prepared by electrospinning. <i>Liquid Crystals</i> , 1-9	2.3	4
23	The temperature range and optical properties of the liquid crystalline blue phase in inverse opal structures. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 11071-11077	7.1	4
22	Preparation of Liquid Crystal Film Capable of Shielding Visible Light Band by Two-Phase Coexistence. <i>Journal of Polymer Science</i> , <b>2020</b> , 58, 599-606	2.4	3
21	Synthesis and Characterization of New Benzo[e]Indol Salts for Second-Order Nonlinear Optics. <i>Crystals</i> , <b>2020</b> , 10, 242	2.3	3
20	Double-click synthesis of polysiloxane third-order nonlinear optical polymers with donor-acceptor chromophores. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 3046-3053	4.9	3
19	Vitrimer enhanced carbazole-based organic room-temperature phosphorescent materials. <i>New Journal of Chemistry</i> , <b>2021</b> , 46, 276-281	3.6	3
18	Broadband reflection in polymer-stabilized cholesteric liquid crystal film with zinc oxide nanoparticles film thermal diffusion method. <i>Liquid Crystals</i> , 1-10	2.3	3
17	Thermally bandwidth-controllable reflective liquid crystal films prepared by doping nano-sized electrospun fibers. <i>Liquid Crystals</i> , 1-9	2.3	2
16	Preparation of cholesteric polymer networks with broadband reflection memory effect. <i>Liquid Crystals</i> , 1-9	2.3	2
15	Study on electro-optical and adhesion properties of polymer dispersed liquid crystal films from thiol-ene click reaction. <i>Liquid Crystals</i> , <b>2021</b> , 48, 2188-2199	2.3	2
14	Role of Fluorescent Material on Electro-optical Performance of PDLC Devices. <i>Liquid Crystals</i> , 1-10	2.3	1
13	Broadband reflection prepared by loading chiral dopants in white carbon black. <i>Liquid Crystals</i> , 1-9	2.3	1
12	Doping white carbon black particles to adjust the electro-optical properties of PDLC. <i>Liquid Crystals</i> , 1-10	2.3	1
11	Self-diffusion method for broadband reflection in polymer-stabilized cholesteric liquid crystal films. <i>Liquid Crystals</i> , 1-10	2.3	1
10	Highly Efficient Spin-Filtering Transport in Chiral Hybrid Copper Halides. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 23770	3.6	1
9	Preparation and properties of water-responsive films with color controllable based on liquid crystal and poly(ethylene glycol) interpenetrating polymer network. <i>Liquid Crystals</i> , 1-9	2.3	1

8	Broadband Reflective Liquid Crystal Films Prepared by Rapid Inkjet Printing and Superposition Polymerization. <i>Crystals</i> , <b>2022</b> , 12, 473	2.3	1
7	Mesophase properties of fluorene-core mesogens and their effects on blue phase liquid crystals. <i>Liquid Crystals</i> ,1-11	2.3	1
6	Cholesteric liquid crystal films with adjustable wavelength band and reflectance by using wash-out/refill technique and light-responsive compounds. <i>Liquid Crystals</i> ,1-11	2.3	1
5	Quantification of uric acid concentration in tears by using PDMS inverse opal structure surface-enhanced Raman scattering substrates: Application in hyperuricemia.. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2022</b> , 278, 121326	4.4	1
4	Broadband reflection cholesteric liquid crystal film fabricated by near-infrared photothermal response technology. <i>Liquid Crystals</i> ,1-11	2.3	0
3	The relationship between crosslinker, liquid crystal, and magnetic nanomaterial doping on electro-optical properties of PDLC. <i>Liquid Crystals</i> ,1-11	2.3	0
2	Acridine-based dyes as high-performance near-infrared Raman reporter molecules for cell imaging.. <i>RSC Advances</i> , <b>2022</b> , 12, 3380-3385	3.7	
1	Low voltage tunable cholesteric liquid crystal based on electrochemical process. <i>Liquid Crystals</i> ,1-11	2.3	