Huai Yang

List of Publications by Citations

243	7,046	39	72
papers	citations	h-index	g-index
253	8,227	5.8	5.98
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
243	Polymer-stabilized liquid crystal blue phases. *Nature Materials*, **2002**, 1, 64-8	27	1101
242	Recent Advances on Water-Splitting Electrocatalysis Mediated by Noble-Metal-Based Nanostructured Materials. *Advanced Energy Materials*, **2020**, 10, 1903120	21.8	273
241	Sulfur/Oxygen Codoped Porous Hard Carbon Microspheres for High-Performance Potassium-Ion Batteries. *Advanced Energy Materials*, **2018**, 8, 1800171	21.8	272
240	Wide Blue Phase Range in a Hydrogen-Bonded Self-Assembled Complex of Chiral Fluoro-Substituted Benzoic Acid and Pyridine Derivative. *Advanced Materials*, **2009**, 21, 2050-2053	24	172
239	Hysteresis-free blue phase liquid-crystal-stabilized by ZnS nanoparticles. *Small*, **2012**, 8, 2189-93	11	126
238	Electrically controllable selective reflection of chiral nematic liquid crystal/chiral ionic liquid composites. *Advanced Materials*, **2010**, 22, 468-72	24	125
237	Carbon-Oxygen-Bridged Ladder-Type Building Blocks for Highly Efficient Nonfullerene Acceptors. *Advanced Materials*, **2019**, 31, e1804790	24	117
236	Thermally bandwidth-controllable reflective polarizers from (polymer network/liquid crystal/chiral dopant) composites. *Applied Physics Letters*, **2003**, 82, 2407-2409	3.4	100
235	Multiple stimuli-responsive polymeric micelles for controlled release. *Soft Matter*, **2013**, 9, 370-373	3.6	99
234	Asymmetric Tunable Photonic Bandgaps in Self-Organized 3D Nanostructure of Polymer-Stabilized Blue Phase I Modulated by Voltage Polarity. *Advanced Functional Materials*, **2017**, 27, 1702261	15.6	92
233	Polymer stabilized liquid crystal films reflecting both right- and left-circularly polarized light. *Applied Physics Letters*, **2008**, 93, 201901	3.4	89
232	A temperature and electric field-responsive flexible smart film with full broadband optical modulation. *Materials Horizons*, **2017**, 4, 878-884	14.4	88
231	Photoresponsive liquid crystals based on halogen bonding of azopyridines. *Chemical Communications*, **2014**, 50, 9647-9	5.8	86
230	Preparation of a Thermally Light-Transmittance-Controllable Film from a Coexistent System of Polymer-Dispersed and Polymer-Stabilized Liquid Crystals. *ACS Applied Materials & Interfaces*, **2017**, 9, 2942-2947	9.5	83
229	Liquid-crystalline ordering helps block copolymer self-assembly. *Advanced Materials*, **2011**, 23, 3337-44	24	81
228	Low voltage and hysteresis-free blue phase liquid crystal dispersed by ferroelectric nanoparticles. *Journal of Materials Chemistry*, **2012**, 22, 19629		77
227	Fast Growth and Broad Applications of 25-Inch Uniform Graphene Glass. *Advanced Materials*, **2017**, 29, 1603428	24	75

226	Wide blue phase range and electro-optical performances of liquid crystalline composites doped with thiophene-based mesogens. *Journal of Materials Chemistry*, **2012**, 22, 2383-2386		70
225	Light-controllable reflection wavelength of blue phase liquid crystals doped with azobenzene-dimers. *Chemical Communications*, **2013**, 49, 10097-9	5.8	69
224	A roll-to-roll process for multi-responsive soft-matter composite films containing CsWO nanorods for energy-efficient smart window applications. *Nanoscale Horizons*, **2017**, 2, 319-325	10.8	69
223	Broadband reflection of polymer-stabilized chiral nematic liquid crystals induced by a chiral azobenzene compound. *Chemical Communications*, **2014**, 50, 691-4	5.8	65
222	Polymer-stabilized nanoparticle-enriched blue phase liquid crystals. *Journal of Materials Chemistry C*, **2013**, 1, 6526	7.1	62
221	Fabrication of multi-pitched photonic structure in cholesteric liquid crystals based on a polymer template with helical structure. *Journal of Materials Chemistry*, **2010**, 20, 4094		59
220	Polymeric infrared reflective thin films with ultra-broad bandwidth. *Liquid Crystals*, **2016**, 43, 750-757	2.3	53
219	Multi-shape-memory effects in a wavelength-selective multicomposite. *Journal of Materials Chemistry A*, **2015**, 3, 13953-13961	13	53
218	Near-Infrared Photodriven Self-Sustained Oscillation of Liquid-Crystalline Network Film with Predesignated Polydopamine Coating. *Advanced Materials*, **2020**, 32, e1906319	24	51
217	Effects of the structures of polymerizable monomers on the electro-optical properties of UV cured polymer dispersed liquid crystal films. *Journal of Polymer Science, Part B: Polymer Physics*, **2008**, 46, 1369-1375	2.6	50
216	A novel soft matter composite material for energy-saving smart windows: from preparation to device application. *Journal of Materials Chemistry A*, **2015**, 3, 10738-10746	13	48
215	Control of the microstructure of polymer network and effects of the microstructures on light scattering properties of UV-cured polymer-dispersed liquid crystal films. *Journal of Polymer Science, Part B: Polymer Physics*, **2008**, 46, 2090-2099	2.6	48
214	Controllable properties and microstructure of hydrogels based on crosslinked poly(ethylene glycol) diacrylates with different molecular weights. *Journal of Applied Polymer Science*, **2011**, 121, 531-540	2.9	47
213	Stimuli-Directed Dynamic Reconfiguration in Self-Organized Helical Superstructures Enabled by Chemical Kinetics of Chiral Molecular Motors. *Advanced Science*, **2018**, 5, 1700613	13.6	47
212	Effects of the chain length of crosslinking agents on the electro-optical properties of polymer-dispersed liquid crystal films. *Liquid Crystals*, **2010**, 37, 339-343	2.3	46
211	Effects of monomer structure on the morphology of polymer network and the electro-optical property of reverse-mode polymer-stabilized cholesteric texture. *Journal of Applied Polymer Science*, **2009**, 111, 1353-1357	2.9	46
210	Evolution of white organic light-emitting devices: from academic research to lighting and display applications. *Materials Chemistry Frontiers*, **2019**, 3, 970-1031	7.8	45
209	Dual-Band Modulation of Visible and Near-Infrared Light Transmittance in an All-Solution-Processed Hybrid Micro-Nano Composite Film. *ACS Applied Materials & Interfaces*, **2017**, 9, 40810-40819	9.5	44

208	Effects of 1,3,4-oxadiazoles with different rigid cores on the thermal and electro-optical performances of liquid crystalline blue phases. *Liquid Crystals*, **2012**, 39, 629-638	2.3	44
207	Effects of symmetrically 2,5-disubstituted 1,3,4-oxadiazoles on the temperature range of liquid crystalline blue phases: a systematic study. *Liquid Crystals*, **2013**, 40, 354-367	2.3	42
206	Effect of Network Concentration on the Performance of Polymer-Stabilized Cholesteric Liquid Crystals with a Double-Handed Circularly Polarized Light Reflection Band. *Journal of Physical Chemistry C*, **2009**, 113, 16538-16543	3.8	41
205	Effect of lateral fluoro substituents of rodlike tolane cyano mesogens on blue phase temperature ranges. *Soft Matter*, **2013**, 9, 1172-1177	3.6	40
204	Electrically addressed and thermally erased cholesteric cells. *Applied Physics Letters*, **2006**, 89, 081130	3.4	38
203	Reflectance properties of polymer-stabilised cholesteric liquid crystals cells with cholesteryl compounds of different functionality. *Liquid Crystals*, **2008**, 35, 87-97	2.3	37
202	Studies on the electro-optical and the light-scattering properties of PDLC films with the size gradient of the LC droplets. *Liquid Crystals*, **2015**, 42, 390-396	2.3	34
201	Active and passive modulation of solar light transmittance in a hybrid thermochromic soft-matter system for energy-saving smart window applications. *Journal of Materials Chemistry C*, **2018**, 6, 7054-7062	7.1	34
200	Optical intensity-driven reversible photonic bandgaps in self-organized helical superstructures with handedness inversion. *Journal of Materials Chemistry C*, **2017**, 5, 3678-3683	7.1	33
199	Broadband Reflection in Polymer-Stabilized Cholesteric Liquid Crystals via Thiol-Acrylate Chemistry. *Angewandte Chemie - International Edition*, **2019**, 58, 6698-6702	16.4	33
198	A Thieno[3,2-c]Isoquinolin-5(4H)-One Building Block for Efficient Thick-Film Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1800397	21.8	33
197	Effects of monomer structure on the morphology of polymer networks and the electro-optical properties of polymer-dispersed liquid crystal films. *Liquid Crystals*, **2012**, 39, 419-424	2.3	33
196	Stabilizing blue phases of a simple cyanobiphenyl compound by addition of achiral mesogen monomer with a branched end group and chiral hydrogen-bonded assemblies. *Journal of Materials Chemistry C*, **2013**, 1, 947-957	7.1	33
195	Effects of crosslinking agent/diluents/thiol on morphology of the polymer matrix and electro-optical properties of polymer-dispersed liquid crystal. *Liquid Crystals*, **2018**, 45, 728-735	2.3	32
194	Wide-band reflective polarizers from cholesteric liquid crystals with stable optical properties. *Journal of Applied Polymer Science*, **2007**, 105, 2973-2977	2.9	32
193	Effects of functionality of thiol monomer on electro-optical properties of polymer-dispersed liquid crystal films. *Liquid Crystals*, **2017**, 44, 1086-1092	2.3	31
192	Electrothermal switching characteristics from a hydrogen-bonded polymer network structure in cholesteric liquid crystals with a double-handed circularly polarized light reflection band. *Journal of Physical Chemistry B*, **2011**, 115, 861-8	3.4	31
191	Effects of the fluorinated liquid crystal molecules on the electro-optical properties of polymer dispersed liquid crystal films. *Liquid Crystals*, **2017**, 44, 2301-2310	2.3	30

190	A facile route towards controllable electric-optical performance of polymer-dispersed liquid crystal via the implantation of liquid crystalline epoxy network in conventional resin. *Polymer*, **2019**, 167, 67-77	3.9	30
189	Light-induced wide range color switching of liquid crystal blue phase doped with hydrogen-bonded chiral azobenzene switches. *RSC Advances*, **2014**, 4, 28597-28600	3.7	30
188	Low swelling hyperbranched poly(amine-ester) hydrogels for pH-modulated differential release of anticancer drugs. *Journal of Materials Chemistry*, **2011**, 21, 13530		30
187	Third-order nonlinear optical properties of a novel series of D-π-A pyrene-aldehyde derivatives. *Journal of Nonlinear Optical Physics and Materials*, **2016**, 25, 1650014	0.8	30
186	Electrically switchable light transmittance of epoxy-mercaptan polymer/nematic liquid crystal composites with controllable microstructures. *Polymer*, **2019**, 160, 53-64	3.9	30
185	Photoinduced hyper-reflective laminated liquid crystal film with simultaneous multicolor reflection. *ACS Applied Materials & Interfaces*, **2014**, 6, 1380-4	9.5	29
184	Stabilization of blue phases by hydrogen-bonded bent-shaped and T-shaped molecules featuring a branched terminal group. *Soft Matter*, **2013**, 9, 10186	3.6	29
183	Synthesis and characterization of thienyl-substituted pyridinium salts for second-order nonlinear optics. *CrystEngComm*, **2012**, 14, 1031-1037	3.3	29
182	A study on the polymer structures and electro-optical properties of epoxy-mercaptan-based polymer dispersed liquid crystal films. *Liquid Crystals*, **2019**, 46, 1718-1726	2.3	28
181	Recent Advances in The Polymer Dispersed Liquid Crystal Composite and Its Applications. *Molecules*, **2020**, 25,	4.8	28
180	The regulation of polymer structures and electro-optical properties of epoxy-mercaptan-based phase separated liquid crystals / polymer composites. *Polymer*, **2017**, 127, 1-7	3.9	27
179	Effects of the functionality of epoxy monomer on the electro-optical properties of thermally-cured polymer dispersed liquid crystal films. *RSC Advances*, **2012**, 2, 2144	3.7	27
178	Preparation and electro-optical properties of polymer dispersed liquid crystal films with relatively low liquid crystal content. *Polymers for Advanced Technologies*, **2013**, 24, 453-459	3.2	27
177	Realisation of cholesteric liquid-crystalline materials reflecting both right- and left-circularly polarised light using the wash-out/refill technique. *Liquid Crystals*, **2010**, 37, 171-178	2.3	27
176	Bias-Polarity Dependent Bidirectional Modulation of Photonic Bandgap in a Nanoengineered 3D Blue Phase Polymer Scaffold for Tunable Laser Application. *Advanced Optical Materials*, **2018**, 6, 1800409	8.1	26
175	Broadband reflection characteristic of polymer-stabilised cholesteric liquid crystal with pitch gradient induced by a hydrogen bond. *Liquid Crystals*, **2010**, 37, 1275-1280	2.3	26
174	Effects of the structures of epoxy monomers on the electro-optical properties of heat-cured polymer-dispersed liquid crystal films. *Liquid Crystals*, **2010**, 37, 189-193	2.3	26
173	Photothermal effect of azopyridine compounds and their applications. *RSC Advances*, **2015**, 5, 4675-4680	3.7	25

172	Novel high birefringence bistolane liquid crystals with lateral fluorosubstituent. *Liquid Crystals*, **2012**, 39, 1330-1339	2.3	25
171	Magnetite nanoparticles/chiral nematic liquid crystal composites with magnetically addressable and magnetically erasable characteristics. *Liquid Crystals*, **2010**, 37, 563-569	2.3	24
170	Studies on electro-optical properties of polymer matrix/LC/SiO2 nanoparticles composites. *Journal of Applied Polymer Science*, **2009**, 111, 1449-1453	2.9	24
169	Characterization and Morphology of Polymer-Dispersed Liquid Crystal Films. *Soft Materials*, **2014**, 12, 339-345	1.7	23
168	Effect of a Photopolymerizable Monomer Containing a Hydrogen Bond on Near-Infrared Radiation Transmittance of Nematic Liquid Crystal/Monomers Composites. *Journal of Physical Chemistry C*, **2008**, 112, 13739-13743	3.8	23
167	Preparation and optical properties of FeO nanoparticles-doped blue phase liquid crystal. *Physical Chemistry Chemical Physics*, **2016**, 18, 29028-29032	3.6	23
166	Broadband reflection in polymer stabilized cholesteric liquid crystal films with stepwise photo-polymerization. *Physical Chemistry Chemical Physics*, **2017**, 19, 2353-2358	3.6	22
165	Synthesis and self-assembly behaviours of side-chain smectic thiol□ne polymers based on the polysiloxane backbone. *Journal of Materials Chemistry C*, **2016**, 4, 1425-1440	7.1	22
164	A novel light diffuser based on the combined morphology of polymer networks and polymer balls in a polymer dispersed liquid crystals film.. *RSC Advances*, **2018**, 8, 21690-21698	3.7	22
163	Photoresponsive behaviors of smectic liquid crystals tuned by an azobenzene chromophore. *RSC Advances*, **2012**, 2, 487-493	3.7	22
162	The UV polymerisation temperature dependence of polymer-dispersed liquid crystals based on epoxies/acrylates hybrid polymer matrix components. *Liquid Crystals*, **2012**, 39, 1131-1140	2.3	22
161	Study of polymer-dispersed liquid crystal systems using epoxies / acrylates as hybrid polymer matrix components. *Liquid Crystals*, **2012**, 39, 903-909	2.3	22
160	Processing, structure, and properties of multiwalled carbon nanotube/poly(hydroxybutyrate-co-valerate) biopolymer nanocomposites. *Journal of Applied Polymer Science*, **2012**, 125, E620	2.9	22
159	New micro-structure designs of a wide band reflective polarizer with a pitch gradient. *Liquid Crystals*, **2007**, 34, 473-477	2.3	22
158	Light-Driven Liquid Crystalline Networks and Soft Actuators with Degree-of-Freedom-Controlled Molecular Motors. *Advanced Functional Materials*, **2020**, 30, 2000252	15.6	21
157	An electrically light-transmittance-controllable film with a low-driving voltage from a coexistent system of polymer-dispersed and polymer-stabilised cholesteric liquid crystals. *Liquid Crystals*, **2018**, 45, 1854-1860	2.3	21
156	Ethanol-Precipitable, Silica-Passivated Perovskite Nanocrystals Incorporated into Polystyrene Microspheres for Long-Term Storage and Reusage. *Angewandte Chemie - International Edition*, **2019**, 58, 2799-2803	16.4	21
155	Humidity-Responsive Liquid Crystalline Network Actuator Showing Synergistic Fluorescence Color Change Enabled by Aggregation Induced Emission Luminogen. *Advanced Functional Materials*, **2021**, 31, 2010578	15.6	21

154	Reverse-mode polymer dispersed liquid crystal films prepared by patterned polymer walls. *Liquid Crystals*, **2015**, 42, 1320-1328	2.3	20
153	Synthesis and mesomorphic properties of two series of new azine-type liquid crystals. *Liquid Crystals*, **2008**, 35, 581-585	2.3	20
152	3D Chiral Photonic Nanostructures Based on Blue-Phase Liquid Crystals. *Small Science*, **2021**, 1, 2100007		20
151	Reversibly and Irreversibly Humidity-Responsive Motion of Liquid Crystalline Network Gated by SO2 Gas. *Advanced Functional Materials*, **2019**, 29, 1900013	15.6	19
150	Effects of a triethylamine catalyst on curing time and electro-optical properties of PDLC films. *RSC Advances*, **2013**, 3, 23533	3.7	19
149	The influence of the structure of curable epoxy monomers on the electro-optical properties of polymer dispersed liquid crystal devices prepared by UV-initiated cationic polymerisation. *Liquid Crystals*, **2012**, 39, 433-440	2.3	19
148	Asymmetrical phenyldiacetylenes liquid crystalline compounds with high birefringence and characteristics of selective reflection. *Liquid Crystals*, **2012**, 39, 1291-1296	2.3	19
147	Thermally controllable reflective characteristics from rupture and self-assembly of hydrogen bonds in cholesteric liquid crystals. *Journal of Physical Chemistry B*, **2009**, 113, 13882-5	3.4	19
146	A study of electro-optical properties of PDLC films prepared by dual UV and heat curing. *Liquid Crystals*, **2008**, 35, 587-595	2.3	19
145	Preparation of polymer-dispersed liquid crystal doped with indium tin oxide nanoparticles. *Liquid Crystals*, **2018**, 45, 1068-1077	2.3	19
144	Effects of polymer network on electrically induced reflection band broadening of cholesteric liquid crystals. *Journal of Polymer Science, Part B: Polymer Physics*, **2017**, 55, 835-846	2.6	18
143	Study on the electro-optical properties of polyimide-based polymer-dispersed liquid crystal films. *Liquid Crystals*, **2015**, 42, 1689-1697	2.3	18
142	Electrically controllable microstructures and dynamic light scattering properties of liquid crystals with negative dielectric anisotropy. *RSC Advances*, **2015**, 5, 33489-33495	3.7	18
141	Blue phase liquid crystals affected by graphene oxide modified with aminoazobenzol group. *Liquid Crystals*, **2016**, 43, 573-580	2.3	18
140	Influence of the multi-functional epoxy monomers structure on the electro-optical properties and morphology of polymer-dispersed liquid crystal films. *Polymer Bulletin*, **2013**, 70, 2967-2980	2.4	18
139	Electro-responsive 1-D nanomaterial driven broad-band reflection in chiral nematic liquid crystals. *Journal of Materials Chemistry C*, **2013**, 1, 216-219	7.1	18
138	Triple stimuli-responsive crosslinked polymeric nanoparticles for controlled release. *RSC Advances*, **2014**, 4, 35757	3.7	18
137	Photoinduced pitch gradients and the reflection behaviour of the broadband films: influence of dye concentration, light intensity, temperature and monomer concentration. *Liquid Crystals*, **2012**, 39, 707-714	2.3	18

136	Effect of a chiral dopant on the electro-optical properties of polymer-dispersed liquid-crystal films. *Journal of Applied Polymer Science*, **2007**, 105, 2185-2189	2.9	18
135	Humidity-Responsive Blue Phase Liquid-Crystalline Film with Reconfigurable and Tailored Visual Signals. *Advanced Functional Materials*, **2020**, 30, 2004610	15.6	18
134	Elastomeric Conducting Polyaniline Formed Through Topological Control of Molecular Templates. *ACS Nano*, **2016**, 10, 5991-8	16.7	18
133	Boosting Efficiency and Curtailing the Efficiency Roll-Off in Green Perovskite Light-Emitting Diodes via Incorporating Ytterbium as Cathode Interface Layer. *ACS Applied Materials & Interfaces*, **2020**, 12, 18761-18768	9.5	17
132	Patterning of Discotic Liquid Crystals with Tunable Molecular Orientation for Electronic Applications. *Small*, **2018**, 14, e1800557	11	17
131	Effects of thiophene-based mesogen terminated with branched alkoxy group on the temperature range and electro-optical performances of liquid crystalline blue phases. *Liquid Crystals*, **2016**, 43, 524-534	2.3	17
130	Characteristics of wide-band reflection of polymer-stabilised cholesteric liquid crystal cell prepared from an unsticking technique. *Liquid Crystals*, **2009**, 36, 939-946	2.3	17
129	Switchable anti-peeping film for liquid crystal displays from polymer dispersed liquid crystals. *Liquid Crystals*, **2019**, 46, 718-724	2.3	17
128	Effects of polymer micro-structures on the thermo-optical properties of a flexible soft-mater film based on liquid crystals / polymer composite. *Polymer*, **2018**, 146, 161-168	3.9	17
127	Humidity-Induced Simultaneous Visible and Fluorescence Photonic Patterns Enabled by Integration of Covalent Bonds and Ionic Crosslinks. *Advanced Functional Materials*,2106419	15.6	17
126	Studies on electro-optical properties of polymer dispersed liquid crystal films based on epoxy resins prepared by UV-initiated cationic polymerisation. *Liquid Crystals*, **2012**, 39, 313-321	2.3	16
125	Liquid crystalline and thermo-optical properties of cyclic siloxane tetramers containing cholestryl-4-allyloxy-benzoate and biphenyl-4-yl 4-allyloxybenzoate. *Liquid Crystals*, **2011**, 38, 9-15	2.3	16
124	Traps induced memory effect in rubrene single crystal phototransistor. *Applied Physics Letters*, **2018**, 113, 103301	3.4	16
123	Photoinduced polymer-stabilised chiral nematic liquid crystal films reflecting both right- and left-circularly polarised light. *Liquid Crystals*, **2015**, 42, 1120-1123	2.3	15
122	Electrically tunable properties of wideband-absorptive and reflection-selective films based on multi-dichroic dye-doped cholesteric liquid crystals. *Liquid Crystals*, **2015**, 42, 1698-1705	2.3	15
121	High-Efficiency and Reliable Smart Photovoltaic Windows Enabled by Multiresponsive Liquid Crystal Composite Films and Semi-Transparent Perovskite Solar Cells. *Advanced Energy Materials*, **2019**, 9, 1900720	21.8	15
120	PEG/lecithin□quid-crystalline composite hydrogels for quasi-zero-order combined release of hydrophilic and lipophilic drugs. *RSC Advances*, **2013**, 3, 22927	3.7	15
119	Bandwidth-controllable reflective cholesteric gels from photo- and thermally-induced processes. *Liquid Crystals*, **2010**, 37, 311-316	2.3	15

118	Synthesis and characterization of functionalized triblock polymer: The prepared polymer is cholesteryl terminated and chain-extended PCL. *Journal of Applied Polymer Science*, **2007**, 105, 3505-3512	2.9	15
117	An electrically light-transmittance-switchable film with a low driving voltage based on liquid crystal/polymer composites. *Liquid Crystals*, **2020**, 47, 106-113	2.3	15
116	Polysiloxane-Based Side Chain Liquid Crystal Polymers: From Synthesis to Structure?Phase Transition Behavior Relationships. *Polymers*, **2018**, 10,	4.5	15
115	Reversible light-directed self-organized 3D liquid crystalline photonic nanostructures doped with azobenzene-functionalized bent-shaped molecules. *Journal of Materials Chemistry C*, **2018**, 6, 7740-7744	7.1	15
114	Liquid Crystal Elastomer Actuators from Anisotropic Porous Polymer Template. *Macromolecular Rapid Communications*, **2017**, 38, 1600699	4.8	14
113	Fabrication of a controllable anti-peeping device with a laminated structure of microlouver and polymer dispersed liquid crystals film. *Liquid Crystals*, **2019**, 46, 2235-2244	2.3	14
112	Bistable polymer-dispersed cholesteric liquid crystal thin film enabled by a stepwise polymerization. *RSC Advances*, **2015**, 5, 58959-58965	3.7	14
111	Pyrene-Based Small Molecular Nonlinear Optical Materials Modified by Click-Reaction *Journal of Electronic Materials*, **2015**, 44, 2883-2889	1.9	14
110	Photo-induced handedness inversion with opposite-handed cholesteric liquid crystal. *Optics Express* , **2015**, 23, 22658-66	3.3	14
109	Effect of cholesteric liquid crystalline elastomer with binaphthalene crosslinkings on thermal and optical properties of a liquid crystal that show smectic A-cholesteric phase transition. *Polymers for Advanced Technologies*, **2013**, 24, 228-235	3.2	14
108	Photoresponsive iodine-bonded liquid crystals based on azopyridine derivatives with a low phase-transition temperature. *Liquid Crystals*, **2019**, 46, 37-44	2.3	14
107	A Facile All-Solution-Processed Surface with High Water Contact Angle and High Water Adhesive Force. *ACS Applied Materials & Interfaces*, **2017**, 9, 23246-23254	9.5	13
106	Bandwidth-controllable reflective polarisers based on the temperature-dependent chiral conflict in binary chiral mixtures. *Liquid Crystals*, **2011**, 38, 233-239	2.3	13
105	Studies on the electro-optical properties of chiral nematic liquid crystal/aerosil particle composites. *Liquid Crystals*, **2008**, 35, 49-54	2.3	13
104	Effects of the mixture composition on the microstructure of polymer matrix and light scattering properties of liquid crystal/photo-polymerizable monomers composites. *Optical Materials*, **2008**, 31, 434-439	3.3	13
103	SnS Nanosheets Anchored on Nitrogen and Sulfur Co-Doped MXene Sheets for High-Performance Potassium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 17668-17676	9.5	13
102	A Unique Gas-Migration, Trapping, and Emitting Strategy for High-Loading Single Atomic Cd Sites for Carbon Dioxide Electroreduction. *Nano Letters*, **2021**, 21, 4262-4269	11.5	13
101	Ultrastable liquid crystalline blue phase from molecular synergistic self-assembly. *Nature Communications*, **2021**, 12, 1440	17.4	13

100	Electro-Optical Properties of a Polymer Dispersed and Stabilized Cholesteric Liquid Crystals System Constructed by a Stepwise UV-Initiated Radical/Cationic Polymerization. *Crystals*, **2019**, 9, 282	2.3	12
99	Multicolored Electrochromic Device from the Reversible Aggregation and Decentralization of Silver Nanoparticles. *Advanced Optical Materials*, **2016**, 4, 106-111	8.1	12
98	Influence of linkage and terminal group on the liquid crystalline and helical twisting behaviours of cholesteryl esters. *Liquid Crystals*, **2011**, 38, 803-812	2.3	12
97	Broadband reflection in polymer stabilized cholesteric liquid crystal cells with chiral monomers derived from cholesterol. *Polymers for Advanced Technologies*, **2008**, 19, 1504	3.2	12
96	Programmable electro-optical performances in a dual-frequency liquid crystals / polymer composite system. *Polymer*, **2018**, 149, 164-168	3.9	12
95	Unconventional High-Performance Laser Protection System Based on Dichroic Dye-Doped Cholesteric Liquid Crystals. *Scientific Reports*, **2017**, 7, 42955	4.9	11
94	Fabrication of nanofibres with azopyridine compounds in various acids and solvents. *RSC Advances*, **2015**, 5, 31219-31225	3.7	11
93	Thermally stable transparent sol□gel based active siloxane□oligomer materials with tunable high refractive index and dual reactive groups. *RSC Advances*, **2016**, 6, 70825-70831	3.7	11
92	Matched elastic constants for a perfect helical planar state and a fast switching time in chiral nematic liquid crystals. *Soft Matter*, **2016**, 12, 4483-8	3.6	11
91	The physical properties of alkene-terminated liquid crystal molecules/E8 mixture and the electro-optical properties as they doped in polymer-dispersed liquid crystal systems. *Liquid Crystals*, **2018**, 45, 1118-1128	2.3	11
90	Ethanol-Precipitable, Silica-Passivated Perovskite Nanocrystals Incorporated into Polystyrene Microspheres for Long-Term Storage and Reusage. *Angewandte Chemie*, **2019**, 131, 2825-2829	3.6	10
89	Optical and thermal properties of Fe3O4 nanoparticle-doped cholesteric liquid crystals. *Liquid Crystals*, **2018**, 45, 1111-1117	2.3	10
88	Cyano terminated tolane compounds for polymer dispersed liquid crystal application: relationship between cyano terminated tolane based molecular structures and electro-optical properties. *Liquid Crystals*, **2018**, 45, 1771-1782	2.3	10
87	Study on the helical twisting behaviour of chiral 1,2-propanediol derivatives inducing chiral nematic liquid crystals with a helix inversion and controllable pitch variation. *Liquid Crystals*, **2009**, 36, 531-540	2.3	10
86	Synthesis and phase behaviour of hydrogen-bonded liquid crystalline complexes of allyloxybenzoic acid compounds with 4,4?-bipyridine. *Liquid Crystals*, **2007**, 34, 855-860	2.3	10
85	Fluorescence enhancement and encapsulation of quantum dots via a novel crosslinked vinyl-ether liquid crystals/polymer composite film. *Polymer*, **2020**, 207, 122834	3.9	10
84	Double UV polymerisation with variable temperature-controllable selective reflection of polymer-stabilised liquid crystal (PSLC) composites. *Liquid Crystals*, **2016**, 43, 1299-1306	2.3	10
83	Effect of bent-shape and calamitic-shape of hydrogen-bonded mesogens on the liquid crystalline properties. *Liquid Crystals*, **2015**, 42, 1191-1200	2.3	9

82	Regulating content of thiol/LC and UV intensity to optimize morphology and electro-optical performance of polymer-dispersed liquid crystal. *Liquid Crystals*, **2018**, 45, 1726-1733	2.3	9
81	Thermally bandwidth-controllable reflective liquid crystal film from rupture and self-assembly of hydrogen bonds. *Liquid Crystals*, **2016**, 43, 1732-1738	2.3	9
80	Dye induced great enhancement of broadband reflection from polymer stabilized cholesteric liquid crystals. *Polymers for Advanced Technologies*, **2012**, 23, 143-148	3.2	9
79	Effects on thermo-optical properties of the composition of a polymer-stabilised liquid crystal with a smectic A–chiral nematic phase transition. *Liquid Crystals*, **2008**, 35, 1151-1160	2.3	9
78	Effects of rigid structures containing (meth)acrylate monomers and crosslinking agents with different chain length on the morphology and electro-optical properties of polymer-dispersed liquid crystal films. *Journal of Modern Optics*, **2020**, 67, 682-691	1.1	9
77	Third-order nonlinear optical properties of a novel series of azobenzene liquid crystal derivatives. *Molecular Crystals and Liquid Crystals*, **2016**, 630, 1-5	0.5	9
76	Patterning Smectic Liquid Crystals for OFETs at Low Temperature. *Advanced Functional Materials*, **2019**, 29, 1804838	15.6	9
75	Effects of the methacrylate monomers with different end groups on the morphologies, electro-optical and mechanical properties of polymer dispersed liquid crystals composite films. *Liquid Crystals*, **2021**, 48, 722-734	2.3	9
74	Effects of multifunctional acrylates and thiols on the morphology and electro-optical properties of polymer-dispersed liquid crystal films. *Liquid Crystals*, **2021**, 48, 1457-1466	2.3	9
73	An all-liquid crystal based high-performance laser protection system via linear/nonlinear dual-mechanisms. *Chemical Communications*, **2018**, 54, 397-400	5.8	9
72	Nonlinear Optical Properties of Porphyrin Derivatives with Electron-donating or Electron-withdrawing Substituents. *Chinese Journal of Chemistry*, **2016**, 34, 381-386	4.9	8
71	Triple stimuli-responsive polymers based on pyrene-functionalized poly(dimethylaminoethyl methacrylate): synthesis, self-assembled nanoparticles and controlled release. *Colloid and Polymer Science*, **2014**, 292, 2735-2744	2.4	8
70	A helix inversion from the temperature-dependent intramolecular chiral conflict. *Liquid Crystals*, **2011**, 38, 633-638	2.3	8
69	A carboxylic acid-functionalized polyfluorene as fluorescent probe for protein sensing. *Journal of Applied Polymer Science*, **2011**, 121, 3541-3546	2.9	8
68	Study on selective reflection properties of chiral nematic liquid crystalline composites with a non-uniform pitch distribution. *Liquid Crystals*, **2008**, 35, 1313-1320	2.3	8
67	Fluorescence enhancement of quantum dots from the titanium dioxide/liquid crystals/polymer composite films. *Liquid Crystals*, **2021**, 48, 322-335	2.3	8
66	Photochemically and Photothermally Controllable Liquid Crystalline Network and Soft Walkers. *ACS Applied Materials & Interfaces*, **2021**, 13, 3221-3227	9.5	8
65	Reprogrammable Assembly of Molecular Motor on Solid Surfaces via Dynamic Bonds. *Small*, **2017**, 13, 1700480	11	7

64	Broadband Reflection in Polymer-Stabilized Cholesteric Liquid Crystals via Thiol–Acrylate Chemistry. *Angewandte Chemie*, **2019**, 131, 6770-6774	3.6	7
63	Facet-dependent Cu2O nanocrystals in manipulating alignment of liquid crystals and photomechanical behaviors. *Nano Research*, **2016**, 9, 2581-2589	10	7
62	Stabilized electrically induced Helfrich deformation and enhanced color tuning in cholesteric liquid crystals. *Soft Matter*, **2017**, 13, 8728-8735	3.6	7
61	Graphene Oxide Modified with Mesogenic Groups and Its Effect in Broad-Band Reflectors. *ChemPlusChem*, **2015**, 80, 673-678	2.8	7
60	Chiral nematic liquid crystals with helix inversion from (R)-1,1?-binaphthyl and cholesteryl ester moieties. *Liquid Crystals*, **2012**, 39, 1284-1290	2.3	7
59	Synthesis and Mesomorphic Properties of Two Series of Hydrogen-Bonded Liquid Crystals Based on Laterally Fluorinated Benzoic Acid and 4, 4?-Bipyridine With a Molar Ratio of 2:1. *Molecular Crystals and Liquid Crystals*, **2012**, 557, 1-10	0.5	7
58	Super wide-band reflective polarisers from polymer stabilised liquid crystal films. *Liquid Crystals*, **2009**, 36, 497-501	2.3	7
57	Synthesis and optical behaviour of hydrogen-bonded liquid crystals based on a chiral pyridine derivative. *Liquid Crystals*, **2011**, 38, 1217-1225	2.3	7
56	The influence of crosslinking agents on the morphology and electro-optical performances of PDLC films. *Journal of Applied Polymer Science*, **2010**, 117, n/a-n/a	2.9	7
55	Effect of Polymer Network Topology on the Electro-Optical Performance of Polymer Stabilized Liquid Crystal (PSLC) Devices. *Macromolecular Chemistry and Physics*, **2020**, 221, 2000185	2.6	7
54	A greener electrochromic liquid crystal based on ionic liquid electrolytes. *Liquid Crystals*, **2016**, 43, 1110-1119	2.3	7
53	A UV-Responsive Multifunctional Photoelectric Device Based on Discotic Columnar Nanostructures and Molecular Motors. *Advanced Materials*, **2019**, 31, e1806016	24	7
52	Study on the effects of isotropic cross-linked pristine morphology and electro-optical properties of PDLC films. *Polymer Bulletin*, **2015**, 72, 2917-2930	2.4	6
51	Effects of donor and acceptor on optoelectronic performance for porphyrin derivatives: Nonlinear optical properties and dye-sensitized solar cells. *Chemical Research in Chinese Universities*, **2015**, 31, 992-996	2.3	6
50	Synthesis and co-assembly of gold nanoparticles functionalized by a pyrene-thiol derivative. *RSC Advances*, **2015**, 5, 140-145	3.7	6
49	The influence of charged ions on the electro-optical properties of polymer-dispersed liquid crystal films prepared by ultraviolet-initiated cationic polymerization. *Journal of Applied Physics*, **2012**, 112, 043106	2.5	6
48	Fluorescence study of interaction between an anionic conjugated polyelectrolyte and bovine serum albumin. *Polymer Bulletin*, **2011**, 67, 1907-1915	2.4	6
47	PHOTO-CATALYTIC PROPERTIES OF TiO2–Fe2O3–La2O3 NANO-COMPOSITE FILMS. *Surface Review and Letters*, **2009**, 16, 315-321	1.1	6

46	Effect of specific rotation of chiral dopant and polymerization temperature on reflectance properties of polymer stabilized cholesteric liquid crystal cells. *Journal of Polymer Science, Part B: Polymer Physics*, **2008**, 46, 1562-1570	2.6	6
45	Synthesis and characterisation of liquid crystalline anthraquinone dyes with excellent dichroism and solubility. *Liquid Crystals*, **2016**, 43, 1307-1314	2.3	6
44	Fluorescent Azobenzene-Containing Compounds: From Structure to Mechanism. *Crystals*, **2021**, 11, 840	2.3	6
43	Electro-switchable characteristics of broadband absorptive films based on multi-dichroic dye-doped nematic liquid crystal. *Liquid Crystals*, **2015**, 42, 309-315	2.3	5
42	Influence of shorter backbone and cholesteric monomer percentage on the phase structures and thermal-optical properties of linear siloxane tetramers containing cholesterol and benzene methyl ether groups. *RSC Advances*, **2016**, 6, 87502-87512	3.7	5
41	Influence of different spacer length and cholesteric monomer percentage on phase behaviors and thermo-optical properties of cyclic siloxane tetramers containing cholesteric and biphenyl groups. *Journal of Materials Science*, **2014**, 49, 4927-4937	4.3	5
40	Electrically induced and thermally erased properties of side-chain liquid crystalline polymer/liquid crystal/chiral dopant composites. *Liquid Crystals*, **2007**, 34, 949-954	2.3	5
39	Modulation of Chirality and Intensity of Circularly Polarized Luminescence Emitting from Cholesteric Liquid Crystals Triggered by Photoresponsive Molecular Motor. *Advanced Optical Materials*,2101910	8.1	5
38	Organic-inorganic hybrid liquid crystals of azopyridine-enabled halogen-bonding towards sensing in aquatic environment.. *RSC Advances*, **2020**, 10, 35873-35877	3.7	5
37	Effect of biaxiality on chirality in chiral nematic liquid crystals. *Soft Matter*, **2018**, 14, 6530-6536	3.6	4
36	Studies on the electro-optical properties of polymer stabilised cholesteric liquid crystal/aerosil particles composites. *Liquid Crystals*, **2009**, 36, 93-100	2.3	4
35	Programmable Chromism and Photoluminescence of Spiropyran-Based Liquid Crystalline Polymer with Tunable Glass Transition Temperature. *Angewandte Chemie - International Edition*, **2021**, 60, 19406-19412	16.4	4
34	Effective increase in the refractive index of novel transparent silicone hybrid films by introduction of functionalized silicon nanoparticles. *RSC Advances*, **2015**, 5, 62128-62133	3.7	3
33	Controllable alignment of liquid crystals based on the surface relief gratings from a photocross-linkable organic monomer. *Liquid Crystals*, **2014**, 41, 1510-1515	2.3	3
32	Broadband reflective liquid crystalline films prepared from liquid crystals with negative dielectric anisotropy. *Liquid Crystals*, **2012**, 39, 839-845	2.3	3
31	Helical twisting behaviour of new chiral dopants with (S)-1, 2-propanediol units for nematic liquid crystals. *Liquid Crystals*, **2010**, 37, 317-324	2.3	3
30	Preparation and reflectance properties of new cholesteric liquid crystalline copolymers containing cholesteryl group. *Polymer Engineering and Science*, **2009**, 49, 937-944	2.3	3
29	Inclusion complexes of (hbox{cholesteryl-(}varepsilonhbox{-caprolactone})_{overline{10}}) functionalized polymer with □cyclodextrin. *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, **2008**, 60, 95-101		3

28	Tunable Circularly Polarized Luminescence with a High Dissymmetry Factor Emitted from Luminogen-Bonded and Electrically Controlled Polymer-Stabilized Cholesteric Liquid Crystals.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	3
27	Cu12Sb4S13 Quantum Dots/Few-Layered Ti3C2 Nanosheets with Enhanced K+ Diffusion Dynamics for Efficient Potassium Ion Storage. *Advanced Functional Materials*,2108574	15.6	3
26	Remotely Controlling Drug Release by Light-Responsive Cholesteric Liquid Crystal Microcapsules Triggered by Molecular Motors. *ACS Applied Materials & Interfaces*, **2021**,	9.5	3
25	Sunlight-Driven Self-Organized Helical Superstructure Chromotropic Device. *Advanced Optical Materials*, **2020**, 8, 2001207	8.1	3
24	Light-Driven Self-Oscillating Behavior of Liquid-Crystalline Networks Triggered by Dynamic Isomerization of Molecular Motors. *Advanced Functional Materials*, **2021**, 31, 2103311	15.6	3
23	Effects of terpene alcohol dopant on the morphology and electro-optical properties of polymer-dispersed liquid-crystal composite films. *Polymers for Advanced Technologies*, **2021**, 32, 4153-4161	3.2	3
22	Precipitation polymerization in liquid crystals to prepare uniform epoxy microspheres. *Polymer*, **2018**, 154, 291-297	3.9	3
21	Luminescence Enhancement, Encapsulation, and Patterning of Quantum Dots Toward Display Applications. *Advanced Functional Materials*, **2022**, 32, 2109472	15.6	3
20	Disk-shaped symmetric hexa-substituted triphenylene derivatives: Synthesis, physical properties and self-assembly. *Chemical Research in Chinese Universities*, **2013**, 29, 495-499	2.2	2
19	Pitch gradient induced by disklike chiral molecular diffusion in chiral-nematic liquid crystals. *Journal of Applied Physics*, **2010**, 107, 063711	2.5	2
18	Effects of 2-Hydroxypropyl Acrylate on Electro-Optical Properties of Polymer-Dispersed Liquid Crystal Films and Elasticity of Polymer Network. *Molecular Crystals and Liquid Crystals*, **2010**, 518, 3-11	0.5	2
17	Sub-5 nm homeotropically aligned columnar structures of hybrids constructed by porphyrin and oligo(dimethylsiloxane). *Chemical Communications*, **2021**,	5.8	2
16	Periodic electro-optical characteristics of ion-doped Smectic A phase liquid crystals driven by a low-frequency electric field. *Liquid Crystals*, **2019**, 46, 905-912	2.3	2
15	Study on electro-optical and adhesion properties of polymer dispersed liquid crystal films from thiol-ene click reaction. *Liquid Crystals*, **2021**, 48, 2188-2199	2.3	2
14	Freestanding Helical Nanostructured Chiro-Photonic Crystal Film and Anticounterfeiting Label Enabled by a Cholesterol-Grafted Light-Driven Molecular Motor.. *Small Methods*, **2022**, e2200269	12.8	2
13	Effects of the preparing condition of a polymer-stabilised liquid crystal with a smectic-A□chiral nematic phase transition on its properties. *Liquid Crystals*, **2009**, 36, 165-172	2.3	1
12	Synthesis and Mesomorphic Properties of Fluorinated Schiff's Base Esters Containing Alkyl and Alkoxy End Groups. *Molecular Crystals and Liquid Crystals*, **2008**, 487, 31-38	0.5	1
11	Supramolecular inclusion complexes of biodegradable cholesteryl-(?-caprolactone)n functionalized polymer with □cyclodextrin. *Journal of Applied Polymer Science*, **2007**, 105, 1700-1706	2.9	1

10	Effects of chemically functionalized TiO 2 nanoparticles on the UV -shielding characteristics of polymer-dispersed liquid crystals. *Polymers for Advanced Technologies*,	3.2	1
9	Electrically modulated large range tuning of self-assembled photonic bandgaps in polymer-stabilised blue phases. *Liquid Crystals*,1-9	2.3	1
8	Liquid Crystalline Composite Stabilized by Epoxy Polymer with Boscage-Like Morphology for Energy-Efficient Smart Windows with High Stability. *Macromolecular Materials and Engineering*,2100991	3.9	1
7	Synthesis, characterisation and comparative study of the hydroxyl, acrylate and vinyl-ether terminated cyanobiphenyl bridged with different spacer lengths. *Liquid Crystals*, **2021**, 48, 168-181	2.3	0
6	Combined effect of hydroxylated and fluorinated acrylate monomers on improving the electro-optical and mechanical performances of PDLC-films. *Liquid Crystals*,1-11	2.3	0
5	TiO2 doped polymer dispersed and stabilised liquid crystal smart film with high contrast ratio, low driving voltage and short response time. *Liquid Crystals*,1-10	2.3	0
4	Smart Photovoltaic Windows: High-Efficiency and Reliable Smart Photovoltaic Windows Enabled by Multiresponsive Liquid Crystal Composite Films and Semi-Transparent Perovskite Solar Cells (Adv. Energy Mater. 33/2019). *Advanced Energy Materials*, **2019**, 9, 1970129	21.8	
3	Photomechanics: Wrinkled Liquid-Crystalline Microparticle-Enhanced Photoresponse of PDLC-Like Films by Coupling with Mechanical Stretching (Small 21/2011). *Small*, **2011**, 7, 3038-3038	11	
2	Programmable Chromism and Photoluminescence of Spiropyran-Based Liquid Crystalline Polymer with Tunable Glass Transition Temperature. *Angewandte Chemie*, **2021**, 133, 19555-19561	3.6	
1	40.1: Invited Paper: Free-standing Cholesteric Liquid Crystal Polymeric Label with Responsive Visible and Fluorescence Patterns. *Digest of Technical Papers SID International Symposium*, **2021**, 52, 495-495	0.5	