

Chirality transfer across length-scales in nematic liquid applications

Chemical Society Reviews

40, 258-271

DOI: [10.1039/b924962c](https://doi.org/10.1039/b924962c)

Citation Report

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Core-Extended Terrylene Tetracarboxdiimide: Synthesis and Chiroptical Characterization. <i>Organic Letters</i> , 2011, 13, 5528-5531. | 2.4 | 74 |
| 2 | Chiral Induction via the Disassembly of Diruthenium(II,III) Tetraacetate by Chiral Diphosphines. <i>Inorganic Chemistry</i> , 2011, 50, 11862-11864. | 1.9 | 10 |
| 3 | Photo-responsive doped cholesteric liquid crystals. <i>Liquid Crystals</i> , 2011, 38, 1641-1652. | 0.9 | 60 |
| 5 | Central-to-axial chirality transfer revealed by liquid crystals: A combined experimental and computational approach for the determination of absolute configuration of carboxylic acids with an $\hat{\iota}$ ± chirality centre. <i>Chirality</i> , 2011, 23, 736-743. | 1.3 | 3 |
| 6 | Cholesteric Liquid Crystals with a Broad Light Reflection Band. <i>Advanced Materials</i> , 2012, 24, 6260-6276. | 11.1 | 438 |
| 9 | Chirality of Anisotropic Metal Nanowires with a Distinct Multihelix. <i>Chemistry - A European Journal</i> , 2012, 18, 15954-15959. | 1.7 | 22 |
| 10 | Probing the pore structure of a chiral periodic mesoporous organosilica using liquid crystals. <i>Journal of Materials Chemistry</i> , 2012, 22, 15255. | 6.7 | 15 |
| 11 | Chiral induction in thioester and oxoester liquid crystals by dispersed carbon nanotubes. <i>Liquid Crystals</i> , 2012, 39, 199-204. | 0.9 | 33 |
| 12 | Sensitive detection of enantiomeric excess in different acids through chiral induction in an oligo(p-phenylenevinylene) aggregate. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 9152. | 1.5 | 17 |
| 13 | Derivatives of menthothiophene as chiral dopants for nematic liquid crystals. <i>Liquid Crystals</i> , 2012, 39, 1320-1329. | 0.9 | 1 |
| 14 | 1,2-Di(phenylethynyl)ethenes with axially chiral, 2,2'-bridged 1,1'-binaphthyl substituents: potent cholesteric liquid-crystal inducers. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 8016. | 1.5 | 35 |
| 15 | Controlling chirality with helix inversion in cholesteric liquid crystals. <i>Journal of Materials Chemistry</i> , 2012, 22, 7088. | 6.7 | 105 |
| 16 | Influence of a Change in Helical Twisting Power of Photoresponsive Chiral Dopants on Rotational Manipulation of Micro-Objects on the Surface of Chiral Nematic Liquid Crystalline Films. <i>Chemistry - A European Journal</i> , 2012, 18, 12337-12348. | 1.7 | 58 |
| 17 | Reversible Light-Directed Red, Green, and Blue Reflection with Thermal Stability Enabled by a Self-Organized Helical Superstructure. <i>Journal of the American Chemical Society</i> , 2012, 134, 9573-9576. | 6.6 | 149 |
| 18 | Photochemically Reversible and Thermally Stable Axially Chiral Diarylethene Switches. <i>Organic Letters</i> , 2012, 14, 4362-4365. | 2.4 | 62 |
| 19 | Reversible Visible-Light Tuning of Self-Organized Helical Superstructures Enabled by Unprecedented Light-Driven Axially Chiral Molecular Switches. <i>Journal of the American Chemical Society</i> , 2012, 134, 3342-3345. | 6.6 | 137 |
| 20 | Insight into the supramolecular organization of columnar assemblies with phototunable chirality. <i>Journal of Materials Chemistry</i> , 2012, 22, 18025. | 6.7 | 22 |
| 21 | Chirality transfer from atropisomeric chiral inducers to nematic and smectic liquid crystals - synthesis and characterization of di- and tetra-substituted axially chiral binaphthyl derivatives. <i>Journal of Materials Chemistry</i> , 2012, 22, 25011. | 6.7 | 23 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 22 | The interplay of configuration and conformation in helical perylenequinones: Insights from chirality induction in liquid crystals and calculations. <i>Beilstein Journal of Organic Chemistry</i> , 2012, 8, 155-163. | 1.3 | 4 |
| 23 | Chiral nematic organo-siloxane oligopodes based on an axially chiral binaphthalene core. <i>Chemical Communications</i> , 2012, 48, 6851. | 2.2 | 11 |
| 24 | Irreversible visual sensing of humidity using a cholesteric liquid crystal. <i>Chemical Communications</i> , 2012, 48, 4579. | 2.2 | 63 |
| 27 | The Diaryl(oxy)methyl Group: More than an Innocent Bystander in Chiral Auxiliaries, Catalysts, and Dopants. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2550-2562. | 7.2 | 30 |
| 28 | Allenes in Molecular Materials. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2818-2828. | 7.2 | 330 |
| 29 | Printable Optical Sensors Based on H-Bonded Supramolecular Cholesteric Liquid Crystal Networks. <i>Journal of the American Chemical Society</i> , 2012, 134, 7608-7611. | 6.6 | 162 |
| 30 | Light-Driven Chiral Molecular Switches or Motors in Liquid Crystals. <i>Advanced Materials</i> , 2012, 24, 1926-1945. | 11.1 | 404 |
| 31 | Red, Green and Blue Reflections Enabled in an Optically Tunable Self-Organized 3D Cubic Nanostructured Thin Film. <i>Advanced Materials</i> , 2013, 25, 5050-5054. | 11.1 | 158 |
| 32 | Polymer network microstructures and electro-optical properties of a pressure-sensitive cholesteric liquid crystal device. <i>RSC Advances</i> , 2013, 3, 17822. | 1.7 | 11 |
| 34 | New Frontiers in Photochromism. , 2013, , . | | 110 |
| 35 | Azoarenes with Opposite Chiral Configurations: Light-Driven Reversible Handedness Inversion in Self-Organized Helical Superstructures. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8925-8929. | 7.2 | 101 |
| 36 | Conformation and chirality in liquid crystals. , 2013, , . | | 0 |
| 37 | Photodynamic Chiral Molecular Switches with Thermal Stability: From Reflection Wavelength Tuning to Handedness Inversion of Self-Organized Helical Superstructures. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13703-13707. | 7.2 | 129 |
| 38 | Effective cholesteric liquid crystal inducers based on axially chiral alleno-acetylenes. <i>RSC Advances</i> , 2013, 3, 22845. | 1.7 | 14 |
| 40 | Photoswitchable molecular switches featuring both axial and tetrahedral chirality. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7346. | 2.7 | 31 |
| 41 | Chiral Induction at Octahedral Ru(II) via the Disassembly of Diruthenium(II,III) Tetracarboxylates Using a Variety of Chiral Diphosphine Ligands. <i>Inorganic Chemistry</i> , 2013, 52, 11563-11572. | 1.9 | 9 |
| 42 | Nematic molecular core flexibility and chiral induction. <i>Physical Review E</i> , 2013, 88, 042501. | 0.8 | 1 |
| 43 | Hydrophobic gold nanoparticles via silane conjugation: chemically and thermally robust nanoparticles as dopants for nematic liquid crystals. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120256. | 1.6 | 33 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 44 | Chirality inversions in self-assembly of fibrillar superstructures: a computational study. <i>Soft Matter</i> , 2013, 9, 8005. | 1.2 | 13 |
| 45 | Nematic twist cell: Strong chirality induced at the surfaces. <i>Applied Physics Letters</i> , 2013, 102, . | 1.5 | 5 |
| 46 | A photoswitchable and thermally stable axially chiral dithienylperfluorocyclopentene dopant with high helical twisting power. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3917. | 2.7 | 51 |
| 47 | Tris(Î ² -diketonato) Ru(III) Complexes as Chiral Dopants for Nematic Liquid Crystals: the Effect of the Molecular Structure on the Helical Twisting Power. <i>Inorganic Chemistry</i> , 2013, 52, 11042-11050. | 1.9 | 29 |
| 48 | Waterâ€Dependent Optical Activity Inversion of Chiral DNAâ€Silica Assemblies. <i>Chemistry - A European Journal</i> , 2013, 19, 16382-16388. | 1.7 | 6 |
| 51 | 39.2: <i>Invited Paper</i>: Stimuliâ€Responsive Cholesteric Liquid Crystal Composites for Optics and Photonics. <i>Digest of Technical Papers SID International Symposium</i> , 2014, 45, 555-558. | 0.1 | 9 |
| 52 | Photoresponsive Chiral Liquid Crystal Materials: From 1D Helical Superstructures to 3D Periodic Cubic Lattices and Beyond. <i>Nanoscience and Technology</i> , 2014, , 135-177. | 1.5 | 2 |
| 53 | Photoresponsive Monodisperse Cholesteric Liquid Crystalline Microshells for Tunable Omnidirectional Lasing Enabled by a Visible Lightâ€Driven Chiral Molecular Switch. <i>Advanced Optical Materials</i> , 2014, 2, 845-848. | 3.6 | 128 |
| 54 | Nanoscience with Liquid Crystals. <i>Nanoscience and Technology</i> , 2014, , . | 1.5 | 80 |
| 55 | Nonplanar Donorâ€Acceptor Chiral Molecules with Large Second-Order Optical Nonlinearities: 1,1,4,4-Tetracyanobuta-1,3-diene Derivatives. <i>Journal of Physical Chemistry A</i> , 2014, 118, 1094-1102. | 1.1 | 15 |
| 56 | Rationally Designed Axially Chiral Diarylethene Switches with High Helical Twisting Power. <i>Chemistry - A European Journal</i> , 2014, 20, 16286-16292. | 1.7 | 32 |
| 57 | Structural Analysis of Chiral Dopants in Nematic Systems by Example of Ether-Ester-Substituted 1,4:3,6-Dianhydrohexitols. <i>Molecular Crystals and Liquid Crystals</i> , 2014, 591, 34-44. | 0.4 | 3 |
| 58 | The contribution of chirality and crosslinker concentration to reflection wavelength tuning in structurally chiral nematic gels. <i>Journal of Materials Chemistry C</i> , 2014, 2, 132-138. | 2.7 | 9 |
| 59 | Left or right cholesterics? A matter of helix handedness and curliness. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 16225-16232. | 1.3 | 30 |
| 60 | Chiroptical molecular propellers based on hexakis(phenylethynyl)benzene through the complexation-induced intramolecular transmission of local point chirality. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 9532-9538. | 1.5 | 7 |
| 61 | Reversible Near-Infrared Light Directed Reflection in a Self-Organized Helical Superstructure Loaded with Upconversion Nanoparticles. <i>Journal of the American Chemical Society</i> , 2014, 136, 4480-4483. | 6.6 | 257 |
| 62 | Simple and highly efficient chiral dopant molecules possessing both rod- and arch-like units. <i>Soft Matter</i> , 2014, 10, 6582-6588. | 1.2 | 2 |
| 63 | New azobenzene-based chiral-photochromic substances with thermally stable Z-isomers and their use for the induction of a cholesteric mesophase with a phototunable helix pitch. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8622-8629. | 2.7 | 18 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 64 | Light-Directing Chiral Liquid Crystal Nanostructures: From 1D to 3D. <i>Accounts of Chemical Research</i> , 2014, 47, 3184-3195. | 7.6 | 357 |
| 65 | Dimeric Tetrathiafulvalene Linked to <i>pseudo-ortho</i> [2.2]Paracyclophane: Chiral Electrochromic Properties and Use as a Chiral Dopant. <i>Chemistry - an Asian Journal</i> , 2014, 9, 2751-2754. | 1.7 | 34 |
| 66 | Synthesis and Properties of Cholesteric Click-Phospholes. <i>Organic Letters</i> , 2014, 16, 1366-1369. | 2.4 | 16 |
| 71 | Conformational analysis of triphenylphosphine ligands in stereogenic monometallic complexes: tools for predicting the preferred configuration of the triphenylphosphine rotor. <i>Dalton Transactions</i> , 2015, 44, 5451-5466. | 1.6 | 12 |
| 72 | Luminescence-Driven Reversible Handedness Inversion of Self-Organized Helical Superstructures Enabled by a Novel Near-Infrared Light Nanotransducer. <i>Advanced Materials</i> , 2015, 27, 2065-2069. | 11.1 | 225 |
| 73 | Light-Directing Omnidirectional Circularly Polarized Reflection from Liquid-Crystal Droplets. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2160-2164. | 7.2 | 150 |
| 74 | Organic and Hybrid Photonic Crystals. , 2015, , . | | 38 |
| 75 | Effects of auxiliary ligands of Pd(ii) dimers on induction of chiral nematic phases: chirality inversion and the photo-responsive structural change. <i>Dalton Transactions</i> , 2015, 44, 3209-3215. | 1.6 | 4 |
| 76 | Stable Ferroelectric Liquid Crystals Derived from Salicylaldimine-Core. <i>Journal of Physical Chemistry B</i> , 2015, 119, 4539-4551. | 1.2 | 15 |
| 77 | Light-directing self-organized 1D and 3D chiral liquid crystalline nanostructures. , 2015, , . | | 1 |
| 78 | Linearly, circularly, or non-polarized light induced supramolecular arrangement of diastereomer Schiff base Ni (II), Cu (II), and Zn (II) complexes by azobenzene in PMMA matrix. <i>Contemporary Engineering Sciences</i> , 0, 8, 57-70. | 0.2 | 9 |
| 79 | Hydrogen-bonded chiral molecular switches: photo- and thermally-reversible switchable full range color in the self-organized helical superstructure. <i>New Journal of Chemistry</i> , 2015, 39, 254-261. | 1.4 | 31 |
| 81 | A Dual Modulated Homochiral Helical Nanofilament Phase with Local Columnar Ordering Formed by Bent Core Liquid Crystals: Effects of Molecular Chirality. <i>Small</i> , 2016, 12, 3944-3955. | 5.2 | 27 |
| 82 | Lichtgesteuerte dynamische Chiralitätsumkehr in funktionalen selbstorganisierten helikalen Äberstrukturen. <i>Angewandte Chemie</i> , 2016, 128, 3046-3063. | 1.6 | 49 |
| 83 | Light-Driven Liquid Crystalline Materials: From Photo-Induced Phase Transitions and Property Modulations to Applications. <i>Chemical Reviews</i> , 2016, 116, 15089-15166. | 23.0 | 671 |
| 84 | 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. | 6.4 | 80 |
| 85 | Theoretical simulations of nanostructures self-assembled from copolymer systems. <i>Polymer Chemistry</i> , 2016, 7, 3783-3811. | 1.9 | 41 |
| 86 | Synthesis, characterization and liquid crystalline properties of a series of hydroxybiphenyl benzoate and biphenyl bis(benzoate). <i>Journal of Molecular Liquids</i> , 2016, 224, 265-273. | 2.3 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 87 | Molecular Dynamics Approach for Predicting Helical Twisting Powers of Metal Complex Dopants in Nematic Solvents. <i>Journal of Physical Chemistry B</i> , 2016, 120, 6858-6864. | 1.2 | 16 |
| 89 | Light-Directed Dynamic Chirality Inversion in Functional Self-Organized Helical Superstructures. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2994-3010. | 7.2 | 237 |
| 90 | Near-Infrared Light-Directed Handedness Inversion in Plasmonic Nanorod-Embedded Helical Superstructure. <i>Advanced Optical Materials</i> , 2016, 4, 247-251. | 3.6 | 49 |
| 91 | Electrophoretic Deposition for Cholesteric Liquid-Crystalline Devices with Memory and Modulation of Reflection Colors. <i>Advanced Materials</i> , 2016, 28, 4077-4083. | 11.1 | 33 |
| 92 | Significant Enhancement of the Chiral Correlation Length in Nematic Liquid Crystals by Gold Nanoparticle Surfaces Featuring Axially Chiral Binaphthyl Ligands. <i>ACS Nano</i> , 2016, 10, 1552-1564. | 7.3 | 73 |
| 93 | Chiral-Selective Formation of 1D Polymers Based on Ullmann-Type Coupling: The Role of the Metallic Substrate. <i>Small</i> , 2017, 13, 1603675. | 5.2 | 35 |
| 94 | Dynamic Orthogonal Switching of a Thermoresponsive Self-Organized Helical Superstructure. <i>Advanced Materials</i> , 2017, 29, 1700676. | 11.1 | 62 |
| 95 | Colored-inorganic dopants for inducing liquid crystal chiral nematic and blue phases: monitoring of dopant-host interaction by Raman spectroscopy. <i>Chemical Communications</i> , 2017, 53, 5103-5106. | 2.2 | 6 |
| 96 | A helical naphthopyran dopant for photoresponsive cholesteric liquid crystals. <i>Chemical Communications</i> , 2017, 53, 200-203. | 2.2 | 30 |
| 97 | Controllable Dynamic Zigzag Pattern Formation in a Soft Helical Superstructure. <i>Advanced Materials</i> , 2017, 29, 1701903. | 11.1 | 67 |
| 98 | Optically reconfigurable chiral microspheres of self-organized helical superstructures with handedness inversion. <i>Materials Horizons</i> , 2017, 4, 1190-1195. | 6.4 | 83 |
| 99 | Axially Chiral Shape-Persistent Encapsulating Agents. <i>Synthesis</i> , 2017, 49, 4111-4123. | 1.2 | 13 |
| 100 | Dynamic control of function by light-driven molecular motors. <i>Nature Reviews Chemistry</i> , 2017, 1, . | 13.8 | 162 |
| 101 | Enantiomer surface chemistry: conglomerate versus racemate formation on surfaces. <i>Chemical Society Reviews</i> , 2017, 46, 7787-7839. | 18.7 | 86 |
| 102 | Chiral organosilica particles and their use as inducers of conformational deracemization of liquid crystal phases. <i>Chemical Physics Letters</i> , 2018, 696, 112-118. | 1.2 | 1 |
| 103 | Calculation of gyrotropy coefficients in media with low-pitch helical structures. <i>Physical Review E</i> , 2018, 97, 042704. | 0.8 | 1 |
| 104 | Photochemically and Thermally Driven Full-Color Reflection in a Self-Organized Helical Superstructure Enabled by a Halogen-Bonded Chiral Molecular Switch. <i>Angewandte Chemie</i> , 2018, 130, 1643-1647. | 1.6 | 28 |
| 105 | Photochemically and Thermally Driven Full-Color Reflection in a Self-Organized Helical Superstructure Enabled by a Halogen-Bonded Chiral Molecular Switch. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1627-1631. | 7.2 | 131 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 106 | Chiroptic response of ferroelectric liquid crystals triggered with localized surface plasmon resonance of achiral gold nanorods. <i>Applied Physics Letters</i> , 2018, 112, 021102. | 1.5 | 9 |
| 107 | Visible chiral discrimination via macroscopic selective assembly. <i>Communications Chemistry</i> , 2018, 1, . | 2.0 | 23 |
| 108 | Silica aerogel films via ambient pressure drying for broadband reflectors. <i>New Journal of Chemistry</i> , 2018, 42, 6525-6531. | 1.4 | 11 |
| 109 | Stimuli-Driven Dynamic Reconfiguration in Self-Organized Helical Superstructures Enabled by Chemical Kinetics of Chiral Molecular Motors. <i>Advanced Science</i> , 2018, 5, 1700613. | 5.6 | 55 |
| 110 | Stimuli-Driven Control of the Helical Axis of Self-Organized Soft Helical Superstructures. <i>Advanced Materials</i> , 2018, 30, e1706512. | 11.1 | 205 |
| 111 | Electronic chirality inversion of lanthanide complex induced by achiral molecules. <i>Scientific Reports</i> , 2018, 8, 16395. | 1.6 | 22 |
| 112 | Comprehensive Understanding of Host- and Guest-Dependent Helix Inversion in Chiral Nematic Liquid Crystals: Experimental and Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry B</i> , 2018, 122, 10615-10626. | 1.2 | 9 |
| 113 | Redox-Responsive Chiral Dopant for Quick Electrochemical Color Modulation of Cholesteric Liquid Crystal. <i>Journal of the American Chemical Society</i> , 2018, 140, 10946-10949. | 6.6 | 54 |
| 114 | Chiral Polymeric Nanocapsules and Their Use for Conformational Deracemization of Liquid Crystals. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17936-17941. | 1.5 | 3 |
| 115 | The Halogen Bond: An Emerging Supramolecular Tool in the Design of Functional Mesomorphic Materials. <i>Chemistry - A European Journal</i> , 2019, 25, 1369-1378. | 1.7 | 73 |
| 116 | Visible-Light-Induced Self-Organized Helical Superstructure in Orientationally Ordered Fluids. <i>Advanced Materials</i> , 2019, 31, e1902958. | 11.1 | 30 |
| 117 | 1,2-Dithienyldicyanoethene-Based, Visible-Light-Driven, Chiral Fluorescent Molecular Switch: Rewritable Multimodal Photonic Devices. <i>Angewandte Chemie</i> , 2019, 131, 16198-16202. | 1.6 | 34 |
| 118 | 1,2-Dithienyldicyanoethene-Based, Visible-Light-Driven, Chiral Fluorescent Molecular Switch: Rewritable Multimodal Photonic Devices. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16052-16056. | 7.2 | 112 |
| 119 | Helical Inclusions in Phospholipid Membranes: Lipid Adaptation and Chiral Order. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5629-5633. | 2.1 | 2 |
| 120 | Chiral and orientationally ordered fluid mesophases formed by oxadiazole bisaniline based achiral bent mesogens. <i>Liquid Crystals</i> , 2019, 46, 1373-1382. | 0.9 | 10 |
| 121 | Relationship between molecular structures of uniquely designed <i>C</i> ₂ -symmetric axially chiral dopants and their helical twisting properties in cholesteric liquid crystals. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2225-2231. | 2.7 | 6 |
| 122 | Homochirality in biomineral suprastructures induced by assembly of single-enantiomer amino acids from a nonracemic mixture. <i>Nature Communications</i> , 2019, 10, 2318. | 5.8 | 21 |
| 123 | Regulation of Axial Chirality through Dynamic Covalent Bond Constrained Biaryls. <i>ACS Omega</i> , 2019, 4, 10273-10278. | 1.6 | 6 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 124 | Reversible Circularly Polarized Reflection in a Self-Organized Helical Superstructure Enabled by a Visible-Light-Driven Axially Chiral Molecular Switch. <i>Journal of the American Chemical Society</i> , 2019, 141, 8078-8082. | 6.6 | 74 |
| 125 | An Electrochemical Cholesteric Liquid Crystalline Device for Quick and Low-Voltage Color Modulation. <i>Journal of Visualized Experiments</i> , 2019, , . | 0.2 | 1 |
| 126 | Statistically-designed Liquid Crystalline Molecular Cell Sensors. , 2019, , . | | 0 |
| 127 | Reversible chirality inversion of circularly polarized luminescence in a photo-invertible helical cholesteric superstructure. <i>Chemical Communications</i> , 2019, 55, 14590-14593. | 2.2 | 65 |
| 128 | Room temperature helical fluids in single-component systems. <i>Journal of Molecular Liquids</i> , 2019, 275, 849-858. | 2.3 | 7 |
| 130 | Preparation, structure and optical properties of thermochromic liquid crystal compounds containing ($\hat{\alpha}$)-menthyl with selective reflection. <i>Journal of Molecular Liquids</i> , 2019, 275, 241-250. | 2.3 | 10 |
| 131 | Enantiospecific equilibrium adsorption and chemistry of α -proline mixtures on chiral and achiral Cu surfaces. <i>Chirality</i> , 2020, 32, 200-214. | 1.3 | 4 |
| 132 | Knotting a molecular strand can invert macroscopic effects of chirality. <i>Nature Chemistry</i> , 2020, 12, 939-944. | 6.6 | 38 |
| 133 | Sunlight-Driven Self-Organized Helical Superstructure Chromotropic Device. <i>Advanced Optical Materials</i> , 2020, 8, 2001207. | 3.6 | 11 |
| 134 | Dual Stimuli-Responsive High-Efficiency Circularly Polarized Luminescence from Light-Emitting Chiral Nematic Liquid Crystals. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56604-56614. | 4.0 | 66 |
| 135 | Photoprogrammable Mesogenic Soft Helical Architectures: A Promising Avenue toward Future Chiro-Optics. <i>Advanced Materials</i> , 2020, 32, e1905318. | 11.1 | 84 |
| 136 | Emergence of complexity in hierarchically organized chiral particles. <i>Science</i> , 2020, 368, 642-648. | 6.0 | 179 |
| 137 | Surface-induced enantiomorphic crystallization of achiral fullerene derivatives in thin films. <i>Chemical Science</i> , 2020, 11, 4702-4708. | 3.7 | 9 |
| 138 | Favourable combination of axial coordination and inclusion for effective chiral transfer from metal porphyrin to nematic liquid crystals. <i>Liquid Crystals</i> , 2021, 48, 794-805. | 0.9 | 6 |
| 139 | Chiral bis(benzo[1,2-b:4,3-b ϵ]dithiophene) atropisomers: experimental and theoretical investigations of the stereochemical and chiroptical properties. <i>New Journal of Chemistry</i> , 2021, 45, 16442-16451. | 1.4 | 0 |
| 140 | Chiral transfer from (1S, 2R, 5S)-(+)-menthol and its acetate to polar liquid crystal: Role of H-bond and dipole-dipole interaction. <i>Journal of Molecular Liquids</i> , 2021, 324, 115101. | 2.3 | 2 |
| 141 | Tuning the colour of glassy cholesteric liquid crystals using copolymerization of two left-handed menthyl- and cholesteryl-based mesogenic monomers. <i>Liquid Crystals</i> , 2021, 48, 1467-1476. | 0.9 | 2 |
| 142 | Molecular Conformation of Bent-Core Molecules Affected by Chiral Side Chains Dictates Polymorphism and Chirality in Organic Nano- and Microfilaments. <i>ACS Nano</i> , 2021, 15, 7249-7270. | 7.3 | 16 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 143 | Chiral Metal Nanoparticle Superlattices Enabled by Porphyrin-Based Supramolecular Structures. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14671-14678. | 7.2 | 32 |
| 144 | Chiral Metal Nanoparticle Superlattices Enabled by Porphyrin-Based Supramolecular Structures. <i>Angewandte Chemie</i> , 2021, 133, 14792-14799. | 1.6 | 6 |
| 145 | Chirality Transfer from an Innately Chiral Nanocrystal Core to a Nematic Liquid Crystal: Surface-Modified Cellulose Nanocrystals. <i>Angewandte Chemie</i> , 2021, 133, 17484-17489. | 1.6 | 3 |
| 146 | Influence of chiral monomer concentration on thermo-optical properties of glass-forming cyclic siloxane side chain liquid crystal oligomers. <i>Liquid Crystals</i> , 2022, 49, 123-130. | 0.9 | 0 |
| 147 | Chirality Transfer from an Innately Chiral Nanocrystal Core to a Nematic Liquid Crystal: Surface-Modified Cellulose Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17344-17349. | 7.2 | 24 |
| 148 | Circularly Polarized Fluorescence Resonance Energy Transfer (FRET) for Efficient Chirality Transmission within an Intermolecular System. <i>Angewandte Chemie</i> , 2021, 133, 24754-24762. | 1.6 | 17 |
| 149 | Circularly Polarized Fluorescence Resonance Energy Transfer (FRET) for Efficient Chirality Transmission within an Intermolecular System. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24549-24557. | 7.2 | 72 |
| 150 | Emergence and stabilization of transient twisted defect structures in confined achiral liquid crystals at a phase transition. <i>Soft Matter</i> , 2021, 17, 3848-3854. | 1.2 | 3 |
| 151 | Stimuli-Responsive Self-Organized Liquid Crystalline Nanostructures: From 1D to 3D Photonic Crystals. , 2015, , 393-430. | | 9 |
| 152 | Preparation and optical properties of linear polysiloxane-based glassy cholesteric liquid crystals with green reflected colour. <i>Liquid Crystals</i> , 2021, 48, 215-222. | 0.9 | 5 |
| 153 | Enhancement of the helical twisting power of a ruthenium complex by the introduction of an achiral bulky unit. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 647, 179-185. | 0.4 | 6 |
| 154 | Glassy Cholesteric Liquid Crystals Containing Menthyl Groups Demonstrating Tunable Visible Reflection with Temperature and Reflection Angle Dual-Mode. <i>Macromolecular Materials and Engineering</i> , 0, , 2100594. | 1.7 | 2 |
| 155 | Photocontrol of New Molecular Functions by the Isomerization of Azobenzene. , 2013, , 273-293. | | 0 |
| 156 | Effect of end groups with aliphatic chain or ring structures on the thermal properties and optical textures of achiral and chiral liquid crystal compounds. <i>Journal of Molecular Structure</i> , 2022, 1250, 131748. | 1.8 | 1 |
| 157 | Hierarchical self-assembly into chiral nanostructures. <i>Chemical Science</i> , 2022, 13, 633-656. | 3.7 | 63 |
| 158 | Effects of shape and solute-solvent compatibility on the efficacy of chirality transfer: Nanoshapes in nematics. <i>Science Advances</i> , 2022, 8, eabl4385. | 4.7 | 11 |
| 159 | Tunable Circularly Polarized Luminescent Supramolecular Systems: Approaches and Applications. <i>ChemPhotoChem</i> , 2022, 6, . | 1.5 | 18 |
| 160 | Broadband reflective films with temperature response combined with thermochromic materials. <i>Liquid Crystals</i> , 2022, 49, 1633-1642. | 0.9 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 161 | Digital photoprogramming of liquid-crystal superstructures featuring intrinsic chiral photoswitches. <i>Nature Photonics</i> , 2022, 16, 226-234. | 15.6 | 115 |
| 162 | Liquid Crystals: Versatile Self-Organized Smart Soft Materials. <i>Chemical Reviews</i> , 2022, 122, 4887-4926. | 23.0 | 288 |
| 163 | The Promise of Soft Matter-Enabled Quantum Materials. <i>Advanced Materials</i> , 2023, 35, . | 11.1 | 4 |
| 164 | Reversal of circularly polarized luminescence direction and an "on-off" switch driven by exchange between UV light irradiation and the applied direct current electric field. <i>Science China Chemistry</i> , 2022, 65, 1945-1952. | 4.2 | 11 |
| 165 | Clear Disclosure of Hierarchical Chirality Transfer Mechanism and Wide Full-Color and White-Light CPL Emissions with Both High <i>g</i> _{lum} and Intensity by TPE Helicates. <i>Advanced Optical Materials</i> , 2023, 11, . | 3.6 | 5 |
| 166 | Quantum mechanical studies of <i>p</i> -azoxyanisole and identification of its electro-optic activity. <i>Physical Chemistry Chemical Physics</i> , 2023, 25, 9576-9585. | 1.3 | 4 |
| 167 | Emergence of disordered branching patterns in confined chiral nematic liquid crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2023, 120, . | 3.3 | 3 |
| 168 | Investigating the Electro-Optic Response of Steroid Doped Liquid Crystal Devices. <i>Applied Sciences (Switzerland)</i> , 2023, 13, 5054. | 1.3 | 1 |
| 169 | Liquid Crystal Assembly for Ultra-dissymmetric Circularly Polarized Luminescence and Beyond. <i>Journal of the American Chemical Society</i> , 2023, 145, 12951-12966. | 6.6 | 21 |
| 177 | Organic chiral nano- and microfilaments: types, formation, and template applications. <i>Materials Horizons</i> , 2024, 11, 316-340. | 6.4 | 3 |
| 184 | Asymmetric Photochemical Synthesis With Circularly Polarized Light. , 2024, , . | | 0 |