

Timothy J White

List of Publications by Year in descending order

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262
papers

16,143
citations

16451

64
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19749

117
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278
all docs

278
docs citations

278
times ranked

12082
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and alignment of liquid crystalline elastomers. <i>Nature Reviews Materials</i> , 2022, 7, 23-38.	48.7	205
2	Shape Permanence in Diarylethene-Functionalized Liquid-Crystal Elastomers Facilitated by Thiol-Anhydride Dynamic Chemistry. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	22
3	Controlled Degradation of Cast and 3-D Printed Photocurable Thioester Networks via Thiol-Thioester Exchange. <i>Macromolecules</i> , 2022, 55, 1376-1385.	4.8	16
4	Electro-optic characteristics of stabilized cholesteric liquid crystals with non-liquid crystalline polymer networks. <i>Soft Matter</i> , 2022, 18, 3013-3018.	2.7	7
5	Rheology of liquid crystalline oligomers for 3-D printing of liquid crystalline elastomers. <i>Soft Matter</i> , 2022, 18, 3168-3176.	2.7	8
6	Actuation of Liquid Crystalline Elastomers at or Below Ambient Temperature. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202202577.	13.8	39
7	Biocatalytic 3D Actuation in Liquid Crystal Elastomers via Enzyme Patterning. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 26480-26488.	8.0	11
8	4D Printing of Extrudable and Degradable Poly(Ethylene Glycol) Microgel Scaffolds for Multidimensional Cell Culture. <i>Small</i> , 2022, 18, .	10.0	22
9	Molecular Engineering of Mesogenic Constituents Within Liquid Crystalline Elastomers to Sharpen Thermotropic Actuation. <i>Advanced Functional Materials</i> , 2021, 31, 2100564.	14.9	38
10	Rapid ultrasound-assisted synthesis of controllable Zn/Co-based zeolitic imidazolate framework nanoparticles for heterogeneous catalysis. <i>Microporous and Mesoporous Materials</i> , 2021, 314, 110777.	4.4	27
11	Influence of Orientational Genesis on the Actuation of Monodomain Liquid Crystalline Elastomers. <i>Macromolecules</i> , 2021, 54, 4023-4029.	4.8	15
12	Elastocaloric effect in amorphous polymer networks undergoing mechanotropic phase transitions. <i>Physical Review Materials</i> , 2021, 5, .	2.4	3
13	Retention and deformation of the blue phases in liquid crystalline elastomers. <i>Nature Communications</i> , 2021, 12, 4916.	12.8	29
14	Higher-Order Bragg Reflection Colors in Polymer-Stabilized Cholesteric Liquid Crystals. <i>Advanced Photonics Research</i> , 2021, 2, 2100112.	3.6	6
15	Chemically Triggered Changes in Mechanical Properties of Responsive Liquid Crystal Polymer Networks with Immobilized Urease. <i>Journal of the American Chemical Society</i> , 2021, 143, 16740-16749.	13.7	13
16	Liquid Crystal Elastomers with Enhanced Directional Actuation to Electric Fields. <i>Advanced Materials</i> , 2021, 33, e2103806.	21.0	49
17	The contribution of intermolecular forces to phototropic actuation of liquid crystalline elastomers. <i>Polymer Chemistry</i> , 2021, 12, 1581-1587.	3.9	24
18	Effect of Ion Concentration on the Electro-Optic Response in Polymer-Stabilized Cholesteric Liquid Crystals. <i>Crystals</i> , 2021, 11, 7.	2.2	4

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19	Polymer Network Structure, Properties, and Formation of Liquid Crystalline Elastomers Prepared via Thiol- α -Acrylate Chain Transfer Reactions. <i>Macromolecules</i> , 2021, 54, 11074-11082.	4.8	24
20	Localizing genesis in polydomain liquid crystal elastomers. <i>Soft Matter</i> , 2020, 16, 330-336.	2.7	7
21	Reconfigurable and Spatially Programmable Chameleon Skin-Like Material Utilizing Light Responsive Covalent Adaptable Cholesteric Liquid Crystal Elastomers. <i>Advanced Functional Materials</i> , 2020, 30, 2003150.	14.9	66
22	Electrically Induced Splitting of the Selective Reflection in Polymer Stabilized Cholesteric Liquid Crystals. <i>Advanced Optical Materials</i> , 2020, 8, 2000914.	7.3	23
23	Materials as Machines. <i>Advanced Materials</i> , 2020, 32, e1906564.	21.0	213
24	Reconfigurable Reflective Colors in Holographically Patterned Liquid Crystal Gels. <i>ACS Photonics</i> , 2020, 7, 1978-1982.	6.6	15
25	Effect of Cell Thickness on the Electro-optic Response of Polymer Stabilized Cholesteric Liquid Crystals with Negative Dielectric Anisotropy. <i>Materials</i> , 2020, 13, 746.	2.9	8
26	Microstructured Photopolymerization of Liquid Crystalline Elastomers in Oxygen-Rich Environments. <i>Advanced Functional Materials</i> , 2019, 29, 1903761.	14.9	29
27	Crystal Chemistry and Antibacterial Properties of Cupriferous Hydroxyapatite. <i>Materials</i> , 2019, 12, 1814.	2.9	27
28	Manipulating efficient light emission in two-dimensional perovskite crystals by pressure-induced anisotropic deformation. <i>Science Advances</i> , 2019, 5, eaav9445.	10.3	130
29	Mechanotropic Elastomers. <i>Angewandte Chemie</i> , 2019, 131, 13882-13886.	2.0	3
30	Deformation and Elastic Recovery of Acrylate-Based Liquid Crystalline Elastomers. <i>Macromolecules</i> , 2019, 52, 8248-8255.	4.8	22
31	Liquid Crystalline Elastomers: Microstructured Photopolymerization of Liquid Crystalline Elastomers in Oxygen-Rich Environments (<i>Adv. Funct. Mater.</i> 40/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970274.	14.9	2
32	Mechanotropic Elastomers. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13744-13748.	13.8	14
33	Tuned photomechanical switching of laterally constrained arches. <i>Smart Materials and Structures</i> , 2019, 28, 075009.	3.5	5
34	Light-triggered thermal conductivity switching in azobenzene polymers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5973-5978.	7.1	99
35	Crystal structure of calcium vanadate-phosphate fluoride. <i>Powder Diffraction</i> , 2019, 34, S23-S26.	0.2	0
36	Adaptive Thermochromic Windows from Active Plasmonic Elastomers. <i>Joule</i> , 2019, 3, 858-871.	24.0	128

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37	Rücktitelbild: Mechanotropic Elastomers (Angew. Chem. 39/2019). Angewandte Chemie, 2019, 131, 14136-14136.	2.0	0
38	Self-Assembled VO ₂ Mesh Film-Based Resistance Switches with High Transparency and Abrupt ON/OFF Ratio. ACS Omega, 2019, 4, 19635-19640.	3.5	9
39	Pressure-Engineered Structural and Optical Properties of Two-Dimensional (C ₄ H ₉ NH ₃) ₂ Pb ₄ Perovskite Exfoliated nm-Thin Flakes. Journal of the American Chemical Society, 2019, 141, 1235-1241.	13.7	95
40	All-Optical Control of Shape. Advanced Materials, 2019, 31, e1805750.	21.0	56
41	Light Control with Liquid Crystalline Elastomers. Advanced Optical Materials, 2019, 7, 1801683.	7.3	83
42	Spectrally tunable chiral Bragg reflectors for on-demand beam generation. Optics Express, 2019, 27, 16571.	3.4	6
43	Electrically Reconfigurable Liquid Crystalline Mirrors. ACS Omega, 2018, 3, 4453-4457.	3.5	21
44	Pressure-Induced Phase Transitions and Bandgap-Tuning Effect of Methylammonium Lead Iodide Perovskite. MRS Advances, 2018, 3, 1825-1830.	0.9	7
45	Curvature by design and on demand in liquid crystal elastomers. Physical Review E, 2018, 97, 012504.	2.1	53
46	3D Printing of Liquid Crystal Elastomeric Actuators with Spatially Programed Nematic Order. Advanced Materials, 2018, 30, 1706164.	21.0	467
47	Photomechanical effects in liquid crystalline polymer networks and elastomers. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 695-705.	2.1	94
48	Patterning nonisometric origami in nematic elastomer sheets. Soft Matter, 2018, 14, 3127-3134.	2.7	39
49	High-Pressure-Induced Comminution and Recrystallization of CH ₃ NH ₃ PbBr ₃ Nanocrystals as Large Thin Nanoplates. Advanced Materials, 2018, 30, 1705017.	21.0	89
50	Electrical Control of Shape in Voxellated Liquid Crystalline Polymer Nanocomposites. ACS Applied Materials & Interfaces, 2018, 10, 1187-1194.	8.0	43
51	Cholesteric liquid crystal paints: in situ photopolymerization of helicoidally stacked multilayer nanostructures for flexible broadband mirrors. NPG Asia Materials, 2018, 10, 1061-1068.	7.9	50
52	Electrical Control of Unpolarized Reflectivity in Polymer-Stabilized Cholesteric Liquid Crystals at Oblique Incidence. Advanced Optical Materials, 2018, 6, 1800957.	7.3	17
53	Vanadium Dioxide: Vanadium Dioxide: The Multistimuli Responsive Material and Its Applications (Small) Tj ETQq1 1 0,784314,rgBT /O	10.0	2
54	Phase Transitions of Formamidinium Lead Iodide Perovskite under Pressure. Journal of the American Chemical Society, 2018, 140, 13952-13957.	13.7	78

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55	Polymer stabilization of cholesteric liquid crystals in the oblique helicoidal state. <i>Soft Matter</i> , 2018, 14, 8883-8894.	2.7	6
56	The contribution of hydrogen bonding to the photomechanical response of azobenzene-functionalized polyamides. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5964-5974.	5.5	32
57	Layered liquid crystal elastomer actuators. <i>Nature Communications</i> , 2018, 9, 2531.	12.8	203
58	Enabling and Localizing Omnidirectional Nonlinear Deformation in Liquid Crystalline Elastomers. <i>Advanced Materials</i> , 2018, 30, e1802438.	21.0	31
59	Mechanism of CO ₂ capture in nanostructured sodium amide encapsulated in porous silica. <i>Surface and Coatings Technology</i> , 2018, 350, 227-233.	4.8	7
60	Time-dependent deformation of structurally chiral polymer networks in stabilized cholesteric liquid crystals. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 1087-1093.	2.1	11
61	Vanadium Dioxide: The Multistimuli Responsive Material and Its Applications. <i>Small</i> , 2018, 14, e1802025.	10.0	167
62	Low-energy, nanoparticle reshaping for large-area, patterned, plasmonic nanocomposites. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7157-7169.	5.5	7
63	The effects of surface topography control using liquid crystal elastomers on bodies in flow. , 2018, , .		0
64	Influence of microstructures on mechanical properties and tribology behaviors of TiN/TiAlN multilayer coatings. <i>Surface and Coatings Technology</i> , 2017, 320, 441-446.	4.8	12
65	Robust, Uniform, and Highly Emissive Quantum Dot-Polymer Films and Patterns Using Thiolene Chemistry. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17435-17448.	8.0	32
66	Refraction of light on flat boundary of liquid crystals or anisotropic metamaterials. <i>Liquid Crystals Reviews</i> , 2017, 5, 53-68.	4.1	6
67	Hydrogen-Bonding Evolution during the Polymorphic Transformations in CH ₃ NH ₃ PbBr ₃ : Experiment and Theory. <i>Chemistry of Materials</i> , 2017, 29, 5974-5981.	6.7	80
68	Voxel resolution in the directed self-assembly of liquid crystal polymer networks and elastomers. <i>Soft Matter</i> , 2017, 13, 4335-4340.	2.7	34
69	Liquid crystal elastomers: emerging trends and applications. <i>Soft Matter</i> , 2017, 13, 4320-4320.	2.7	1
70	Pixelated Polymers: Directed Self Assembly of Liquid Crystalline Polymer Networks. <i>ACS Macro Letters</i> , 2017, 6, 436-441.	4.8	63
71	Revealing Cation-Exchange-Induced Phase Transformations in Multielemental Chalcogenide Nanoparticles. <i>Chemistry of Materials</i> , 2017, 29, 9192-9199.	6.7	19
72	Relaxation Dynamics and Strain Persistency of Azobenzene-Functionalized Polymers and Actuators. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1700256.	3.6	5

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73	Controlled Formation of Hierarchical Metal-Organic Frameworks Using CO ₂ -Expanded Solvent Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7887-7893.	6.7	32
74	The Yttrium Effect on Nanoscale Structure, Mechanical Properties, and High-Temperature Oxidation Resistance of (Ti _{0.6} Al _{0.4}) _{1-x} Y _x N Multilayer Coatings. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 4097-4110.	2.2	3
75	Blue-shifting tuning of the selective reflection of polymer stabilized cholesteric liquid crystals. <i>Soft Matter</i> , 2017, 13, 5842-5848.	2.7	37
76	Photomechanical Deformation of Azobenzene-Functionalized Polyimides Synthesized with Bulky Substituents. <i>ACS Macro Letters</i> , 2017, 6, 1432-1437.	4.8	30
77	Constitutive Modeling of Patterned Liquid Crystal Elastomer for Active Flow Control. , 2017, , .		1
78	Synthesis of Elastomeric Liquid Crystalline Polymer Networks via Chain Transfer. <i>ACS Macro Letters</i> , 2017, 6, 1290-1295.	4.8	63
79	High-contrast, low-voltage variable reflector for unpolarized light. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 657, 156-166.	0.9	5
80	Reconfigurable Antennas Based on Self-Morphing Liquid Crystalline Elastomers. <i>IEEE Access</i> , 2016, 4, 2340-2348.	4.2	26
81	Phototropic Guest-Host Liquid Crystal Systems: Environmental Effects on Naphthopyran Kinetics. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12755-12767.	2.6	4
82	Numerical Investigation of Supercritical Water Flow in a 2x2 Rod Bundle Under Non-Uniform Heat Flux. , 2016, , .		0
83	Electrically tunable infrared reflector with adjustable bandwidth broadening up to 1100 nm. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6064-6069.	10.3	54
84	Discrete-state photomechanical actuators. <i>Extreme Mechanics Letters</i> , 2016, 9, 45-54.	4.1	14
85	Initiatorless Photopolymerization of Liquid Crystal Monomers. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28040-28046.	8.0	27
86	Encoding Gaussian curvature in glassy and elastomeric liquid crystal solids. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20160112.	2.1	64
87	Dynamic, infrared bandpass filters prepared from polymer-stabilized cholesteric liquid crystals. <i>Applied Optics</i> , 2016, 55, 7134.	2.1	9
88	Free-Standing and Circular-Polarizing Chirophotonic Crystal Reflectors: Photopolymerization of Helical Nanostructures. <i>ACS Nano</i> , 2016, 10, 9570-9576.	14.6	40
89	Quantification of photoinduced order increase in liquid crystals with naphthopyran guests. <i>Physical Review E</i> , 2016, 93, 032701.	2.1	6
90	Photoinduced Topographical Feature Development in Blueprinted Azobenzene-Functionalized Liquid Crystalline Elastomers. <i>Advanced Functional Materials</i> , 2016, 26, 5819-5826.	14.9	145

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91	Two-Dimensional SiO ₂ /VO ₂ Photonic Crystals with Statically Visible and Dynamically Infrared Modulated for Smart Window Deployment. ACS Applied Materials & Interfaces, 2016, 8, 33112-33120.	8.0	153
92	Photomotility of polymers. Nature Communications, 2016, 7, 13260.	12.8	189
93	Localized soft elasticity in liquid crystal elastomers. Nature Communications, 2016, 7, 10781.	12.8	132
94	Cost-effectiveness of emergency versus delayed laparoscopic cholecystectomy for acute gallbladder pathology. British Journal of Surgery, 2016, 104, 98-107.	0.3	39
95	Pressure-Dependent Polymorphism and Band-Gap Tuning of Methylammonium Lead Iodide Perovskite. Angewandte Chemie - International Edition, 2016, 55, 6540-6544.	13.8	157
96	Pressure-Dependent Polymorphism and Band-Gap Tuning of Methylammonium Lead Iodide Perovskite. Angewandte Chemie, 2016, 128, 6650-6654.	2.0	24
97	Correlation of Local Structure and Diffusion Pathways in the Modulated Anisotropic Oxide Ion Conductor CeNbO _{4.25} . Journal of the American Chemical Society, 2016, 138, 1273-1279.	13.7	34
98	Interstitial Oxide Ion Distribution and Transport Mechanism in Aluminum-Doped Neodymium Silicate Apatite Electrolytes. Journal of the American Chemical Society, 2016, 138, 4468-4483.	13.7	12
99	Photosensitivity of reflection notch tuning and broadening in polymer stabilized cholesteric liquid crystals. Soft Matter, 2016, 12, 1256-1261.	2.7	27
100	Bistable switching of polymer stabilized cholesteric liquid crystals between transparent and scattering modes. MRS Communications, 2015, 5, 223-227.	1.8	30
101	Programmed liquid crystal elastomers with tunable actuation strain. Polymer Chemistry, 2015, 6, 4835-4844.	3.9	85
102	Novel reconfigurable antennas using Liquid Crystals Elastomers. , 2015, , .		4
103	Mechanism of electrically induced photonic band gap broadening in polymer stabilized cholesteric liquid crystals with negative dielectric anisotropies. Soft Matter, 2015, 11, 1208-1213.	2.7	67
104	Twists and Turns in Glassy, Liquid Crystalline Polymer Networks. Macromolecules, 2015, 48, 1087-1092.	4.8	89
105	Voxelated liquid crystal elastomers. Science, 2015, 347, 982-984.	12.6	863
106	Programmable and adaptive mechanics with liquid crystal polymer networks and elastomers. Nature Materials, 2015, 14, 1087-1098.	27.5	1,250
107	Large range electrically-induced reflection notch tuning in polymer stabilized cholesteric liquid crystals. Journal of Materials Chemistry C, 2015, 3, 8788-8793.	5.5	45
108	Topology optimization for the design of folding liquid crystal elastomer actuators. Soft Matter, 2015, 11, 7288-7295.	2.7	72

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109	Programmable Liquid Crystal Elastomers Prepared by Thiolâ€Ene Photopolymerization. ACS Macro Letters, 2015, 4, 942-946.	4.8	120
110	39.2: <i>Invited Paper</i>: Stimuliâ€Responsive Cholesteric Liquid Crystal Composites for Optics and Photonics. Digest of Technical Papers SID International Symposium, 2014, 45, 555-558.	0.3	9
111	Inverse Design of LCN Films for Origami Applications Using Topology Optimization. , 2014, , .		2
112	Reflection spectra of distorted cholesteric liquid crystal structures in cells with interdigitated electrodes. Optics Express, 2014, 22, 16510.	3.4	9
113	Bandwidth broadening induced by ionic interactions in polymer stabilized cholesteric liquid crystals. Optical Materials Express, 2014, 4, 1465.	3.0	63
114	Ultra-fast solid state electro-optical modulator based on liquid crystal polymer and liquid crystal composites. Applied Physics Letters, 2014, 105, .	3.3	20
115	Thermally and Optically Fixable Shape Memory in Azobenzene-Functionalized Glassy Liquid Crystalline Polymer Networks. Molecular Crystals and Liquid Crystals, 2014, 596, 113-121.	0.9	15
116	Photopiezoelectric Composites of Azobenzeneâ€Functionalized Polyimides and Polyvinylidene Fluoride. Macromolecular Rapid Communications, 2014, 35, 2050-2056.	3.9	21
117	Designing light responsive bistable arches for rapid, remotely triggered actuation. Proceedings of SPIE, 2014, , .	0.8	5
118	Photomechanical effects in liquid crystal polymer networks prepared with m-fluoroazobenzene. Journal of Polymer Science Part A, 2014, 52, 876-882.	2.3	18
119	Star-like polymer click-functionalized with small capping molecules: an initial investigation into properties and improving solubility in liquid crystals. RSC Advances, 2014, 4, 50212-50219.	3.6	3
120	Azobenzene-functionalized polyimides as wireless actuators. Polymer, 2014, 55, 5915-5923.	3.8	26
121	Crystal chemical characteristics of ellestadite-type apatite: implications for toxic metal immobilization. Dalton Transactions, 2014, 43, 16031-16043.	3.3	16
122	Local Optical Spectra and Texture for Chiral Nematic Liquid Crystals in Cells with Interdigitated Electrodes. Molecular Crystals and Liquid Crystals, 2014, 595, 123-135.	0.9	0
123	Nonâ€Uniform Helix Unwinding of Cholesteric Liquid Crystals in Cells with Interdigitated Electrodes. ChemPhysChem, 2014, 15, 1311-1322.	2.1	8
124	The contribution of chirality and crosslinker concentration to reflection wavelength tuning in structurally chiral nematic gels. Journal of Materials Chemistry C, 2014, 2, 132-138.	5.5	9
125	Design of polarization-dependent, flexuralâ€torsional deformation in photo responsive liquid crystalline polymer networks. Soft Matter, 2014, 10, 1400-1410.	2.7	26
126	Impact of Backbone Rigidity on the Photomechanical Response of Glassy, Azobenzene-Functionalized Polyimides. Macromolecules, 2014, 47, 659-667.	4.8	81

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127	Molecular Engineering of Azobenzene-Functionalized Polyimides To Enhance Both Photomechanical Work and Motion. <i>Chemistry of Materials</i> , 2014, 26, 5223-5230.	6.7	45
128	The influence of stereochemically active lone-pair electrons on crystal symmetry and twist angles in lead apatite-2 <i>H</i> type structures. <i>Mineralogical Magazine</i> , 2014, 78, 325-345.	1.4	15
129	Color-Tunable Mirrors Based on Electrically Regulated Bandwidth Broadening in Polymer-Stabilized Cholesteric Liquid Crystals. <i>ACS Photonics</i> , 2014, 1, 1033-1041.	6.6	101
130	Shape-dependent dispersion and alignment of nonaggregating plasmonic gold nanoparticles in lyotropic and thermotropic liquid crystals. <i>Physical Review E</i> , 2014, 89, 052505.	2.1	33
131	Torsional mechanical responses in azobenzene functionalized liquid crystalline polymer networks. <i>Soft Matter</i> , 2013, 9, 9303.	2.7	91
132	Topography from Topology: Photoinduced Surface Features Generated in Liquid Crystal Polymer Networks. <i>Advanced Materials</i> , 2013, 25, 5880-5885.	21.0	194
133	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.	13.8	101
134	Effects of in-plane electric fields on the optical properties of cholesteric liquid crystals. , 2013, , .		4
135	Recording polarization gratings with a standing spiral wave. <i>Applied Physics Letters</i> , 2013, 103, 201101.	3.3	11
136	Tailoring the radiation tolerance of vanadate-phosphate fluorapatites by chemical composition control. <i>RSC Advances</i> , 2013, 3, 15178.	3.6	26
137	Fergusonite-type CeNbO ₄ : Single crystal growth, symmetry revision and conductivity. <i>Journal of Solid State Chemistry</i> , 2013, 204, 291-297.	2.9	25
138	Photomechanical Response of Pre-strained Azobenzene-Functionalized Polyimide Materials. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 1189-1194.	2.2	36
139	Polymer design for high temperature shape memory: Low crosslink density polyimides. <i>Polymer</i> , 2013, 54, 391-402.	3.8	90
140	Electrically Induced Color Changes in Polymer-Stabilized Cholesteric Liquid Crystals. <i>Advanced Optical Materials</i> , 2013, 1, 417-421.	7.3	63
141	Photostimulated control of laser transmission through photoresponsive cholesteric liquid crystals. <i>Optics Express</i> , 2013, 21, 1645.	3.4	10
142	Optically Reconfigurable Reflective/Scattering States Enabled with Photosensitive Cholesteric Liquid Crystal Cells. <i>Advanced Optical Materials</i> , 2013, 1, 84-91.	7.3	7
143	Contactless, photoinitiated snap-through in azobenzene-functionalized polymers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18792-18797.	7.1	92
144	Generation of Light Scattering States in Cholesteric Liquid Crystals by Optically Controlled Boundary Conditions. <i>Crystals</i> , 2013, 3, 234-247.	2.2	4

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145	Photomechanical bending mechanics of polydomain azobenzene liquid crystal polymer network films. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	55
146	All-optical diffractive/transmissive switch based on coupled cycloidal diffractive waveplates. <i>Optics Express</i> , 2012, 20, 5460.	3.4	11
147	A multi-domain gem-grade Brazilian apatite. <i>American Mineralogist</i> , 2012, 97, 1574-1581.	1.9	9
148	Optimizing the photomechanical performance of glassy azobenzene liquid crystal polymer networks. , 2012, , .		0
149	Flexuralâ€”Torsional Photomechanical Responses in Azobenzeneâ€”Containing Crosslinked Polyimides. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 1167-1174.	3.6	25
150	Tuning of the Reflection Properties of Templated Cholesteric Liquid Crystals using Phase Transitions. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 559, 115-126.	0.9	2
151	Continuous wave mirrorless lasing in cholesteric liquid crystals with a pitch gradient across the cell gap. <i>Optics Letters</i> , 2012, 37, 2904.	3.3	42
152	Tailoring the Photomechanical Response of Glassy, Azobenzene-Functionalized Polyimides by Physical Aging. <i>Macromolecules</i> , 2012, 45, 7527-7534.	4.8	45
153	Structure and Surface Reactivity of WO ₄ ²⁻ , SO ₄ ²⁻ , PO ₄ ³⁻ Modified Ca-Hydroxyapatite Catalysts and Their Activity in Ethanol Conversion. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18736-18745.	3.1	16
154	Photomechanical mechanism and structure-property considerations in the generation of photomechanical work in glassy, azobenzene liquid crystal polymer networks. <i>Journal of Materials Chemistry</i> , 2012, 22, 691-698.	6.7	108
155	Dynamic high contrast reflective coloration from responsive polymer/cholesteric liquid crystal architectures. <i>Soft Matter</i> , 2012, 8, 318-323.	2.7	38
156	Optically reconfigurable color change in chiral nematic liquid crystals based on indolyfulgide chiral dopants. <i>Journal of Materials Chemistry</i> , 2012, 22, 5751.	6.7	17
157	Photochemical Mechanism and Photothermal Considerations in the Mechanical Response of Monodomain, Azobenzene-Functionalized Liquid Crystal Polymer Networks. <i>Macromolecules</i> , 2012, 45, 7163-7170.	4.8	90
158	The role of crosslinking and polarity in the dark relaxation of azobenzene-based, polymer-stabilised cholesteric liquid crystals. <i>Liquid Crystals</i> , 2012, 39, 1450-1457.	2.2	8
159	Light to work transduction and shape memory in glassy, photoresponsive macromolecular systems: Trends and opportunities. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 877-880.	2.1	50
160	Light-induced liquid crystallinity. <i>Nature</i> , 2012, 485, 347-349.	27.8	144
161	<i>trans</i> - <i>cis</i> and <i>trans</i> - <i>cis</i> - <i>trans</i> Microstructure Evolution of Azobenzene Liquidâ€”Crystal Polymer Networks. <i>Macromolecular Theory and Simulations</i> , 2012, 21, 285-301.	1.4	19
162	Autonomous, Handsâ€”Free Shape Memory in Glassy, Liquid Crystalline Polymer Networks. <i>Advanced Materials</i> , 2012, 24, 2839-2843.	21.0	134

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163	Enhancement of Photogenerated Mechanical Force in Azobenzene-Functionalized Polyimides. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4117-4121.	13.8	99
164	Synthesis and crystal chemical evolution of fresnoite powders. <i>Journal of Solid State Chemistry</i> , 2012, 187, 165-171.	2.9	5
165	Apatite germanates doped with tungsten: synthesis, structure, and conductivity. <i>Dalton Transactions</i> , 2011, 40, 3903-3908.	3.3	29
166	Photoinduced hyper-reflective cholesteric liquid crystals enabled via surface initiated photopolymerization. <i>Chemical Communications</i> , 2011, 47, 505-507.	4.1	64
167	Photomechanical Response of Glassy Azobenzene Polyimide Networks. <i>Macromolecules</i> , 2011, 44, 3840-3846.	4.8	122
168	Nonlinear optical properties of fast, photoswitchable cholesteric liquid crystal bandgaps. <i>Optical Materials Express</i> , 2011, 1, 943.	3.0	22
169	Ordering of glass rods in nematic and cholesteric liquid crystals. <i>Optical Materials Express</i> , 2011, 1, 1536.	3.0	7
170	Single crystal growth of apatite-type Al-doped neodymium silicates by the floating zone method. <i>Journal of Crystal Growth</i> , 2011, 333, 70-73.	1.5	9
171	Liquid crystal Bragg filters. , 2011, , .		0
172	Widely Tunable, Photoinvertible Cholesteric Liquid Crystals. <i>Advanced Materials</i> , 2011, 23, 1389-1392.	21.0	89
173	Light-activated shape memory of glassy, azobenzene liquid crystalline polymer networks. <i>Soft Matter</i> , 2011, 7, 4318.	2.7	241
174	Transparent thin film polarizing and optical control systems. <i>AIP Advances</i> , 2011, 1, .	1.3	23
175	A novel room temperature synthesis of mesoporous SBA-15 from silatrane. <i>Journal of Porous Materials</i> , 2011, 18, 167-175.	2.6	9
176	Room temperature synthesis of Ti-SBA-15 from silatrane and titanium-glycolate and its catalytic performance towards styrene epoxidation. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 57, 221-228.	2.4	14
177	Photodriven, Flexural-Torsional Oscillation of Glassy Azobenzene Liquid Crystal Polymer Networks. <i>Advanced Functional Materials</i> , 2011, 21, 2913-2918.	14.9	237
178	Thermally Induced, Multicolored Hyper-Reflective Cholesteric Liquid Crystals. <i>Advanced Materials</i> , 2011, 23, 1453-1457.	21.0	84
179	Directing Dynamic Control of Red, Green, and Blue Reflection Enabled by a Light-Driven Self-Organized Helical Superstructure. <i>Advanced Materials</i> , 2011, 23, 5069-5073.	21.0	138
180	Strategies for the Optimisation of the Oxide Ion Conductivities of Apatite-Type Germanates. <i>Fuel Cells</i> , 2011, 11, 10-16.	2.4	32

#	ARTICLE	IF	CITATIONS
181	Electrically induced bandwidth broadening in polymer stabilized cholesteric liquid crystals. Journal of Applied Physics, 2011, 110, .	2.5	79
182	Photomechanical Response of Composite Structures Built from Azobenzene Liquid Crystal Polymer Networks. Polymers, 2011, 3, 1447-1457.	4.5	29
183	Non-symmetric broadening of the reflection notch in polymer stabilized cholesteric liquid crystals. Proceedings of SPIE, 2010, , .	0.8	3
184	Photoresponsive Azobenzene Liquid Crystal Polymer Networks: In Situ Photogenerated Stress Measurement. , 2010, , .		0
185	Dynamic color in stimuli-responsive cholesteric liquid crystals. Journal of Materials Chemistry, 2010, 20, 9832.	6.7	276
186	Electromechanical and light tunable cholesteric liquid crystals. Optics Communications, 2010, 283, 3434-3436.	2.1	29
187	Solution processable nanoparticles as high-k dielectric for organic field effect transistors. Organic Electronics, 2010, 11, 1660-1667.	2.6	11
188	Influence of non-reactive solvent on optical performance, photopolymerization kinetics and morphology of nanoporous polymer gratings. European Polymer Journal, 2010, 46, 937-943.	5.4	7
189	Polysomatic apatites. Acta Crystallographica Section B: Structural Science, 2010, 66, 1-16.	1.8	30
190	Photoinduced broadening of cholesteric liquid crystal reflectors. Journal of Applied Physics, 2010, 107, .	2.5	42
191	Electromechanical tuning of cholesteric liquid crystals. Journal of Applied Physics, 2010, 107, 013105.	2.5	49
192	Liquid crystalline polymer cantilever oscillators fueled by light. Soft Matter, 2010, 6, 779-783.	2.7	312
193	Nomenclature of the apatite supergroup minerals. European Journal of Mineralogy, 2010, 22, 163-179.	1.3	277
194	Microwave Synthesis of Noncentrosymmetric BaTiO ₃ Truncated Nanocubes for Charge Storage Applications. ACS Applied Materials & Interfaces, 2010, 2, 3037-3042.	8.0	28
195	Relationship between the Photomechanical Response and the Thermomechanical Properties of Azobenzene Liquid Crystalline Polymer Networks. Macromolecules, 2010, 43, 8185-8190.	4.8	111
196	Optically switchable, rapidly relaxing cholesteric liquid crystal reflectors. Optics Express, 2010, 18, 9651.	3.4	46
197	A micromechanism study of thermosonic gold wire bonding on aluminum pad. Journal of Applied Physics, 2010, 108, .	2.5	60
198	Electrically switchable, photoaddressable cholesteric liquid crystal reflectors. Optics Express, 2010, 18, 173.	3.4	61

#	ARTICLE	IF	CITATIONS
199	Crystal structure refinements of the 2H and 2M pseudomorphs of ferric carbonate-hydroxyapatite. Dalton Transactions, 2010, 39, 6488.	3.3	10
200	Light-Driven Reversible Handedness Inversion in Self-Organized Helical Superstructures. Journal of the American Chemical Society, 2010, 132, 18361-18366.	13.7	166
201	Laser initiated thermal tuning of a cholesteric liquid crystal. Applied Physics Letters, 2010, 97, 011107.	3.3	16
202	Light-driven nanoscale chiral molecular switch: reversible dynamic full range color phototuning. Chemical Communications, 2010, 46, 3463.	4.1	174
203	A New Apatite Nomenclature. Rocks and Minerals, 2010, 85, 204-205.	0.1	1
204	The Effect of Weak Polymer Stabilization on the Switching Properties of Cholesteric Liquid Crystals. Molecular Crystals and Liquid Crystals, 2009, 502, 143-153.	0.9	12
205	Phototunable Azobenzene Cholesteric Liquid Crystals with 2000 nm Range. Advanced Functional Materials, 2009, 19, 3484-3488.	14.9	141
206	Nonstoichiometry, amorphicity and microstructural evolution during phase transformations of photocatalytic titania powders. Journal of Applied Crystallography, 2009, 42, 917-924.	4.5	8
207	Electrocatalytic Activity and Interconnectivity of Pt Nanoparticles on Multiwalled Carbon Nanotubes for Fuel Cells. Journal of Physical Chemistry C, 2009, 113, 18935-18945.	3.1	239
208	Bidirectional Photoresponse of Surface Pretreated Azobenzene Liquid Crystal Polymer Networks. Optics Express, 2009, 17, 716.	3.4	41
209	Azobenzene liquid crystal polymer-based membrane and cantilever optical systems. Optics Express, 2009, 17, 15736.	3.4	27
210	Polarization-controlled, photodriven bending in monodomain liquid crystal elastomer cantilevers. Journal of Materials Chemistry, 2009, 19, 1080-1085.	6.7	178
211	Light-driven molecular switches with tetrahedral and axial chirality. Organic and Biomolecular Chemistry, 2009, 7, 3930.	2.8	50
212	Robust Gold-Decorated Silica-Titania Pebbles for Low-Temperature CO Catalytic Oxidation. Langmuir, 2009, 25, 9480-9486.	3.5	12
213	Pseudomorphic 2A ²⁺ 2M ²⁺ 2H phase transitions in lanthanum strontium germanate electrolyte apatites. Dalton Transactions, 2009, , 8280.	3.3	14
214	The crystal chemistry of the alkaline-earth apatites A ₁₀ (PO ₄) ₆ Cu _x O _y (H) _z (A = Ca, Sr and Ba). Dalton Transactions, 2009, , 6722.	3.3	39
215	Polymer stabilization of phototunable cholesteric liquid crystals. Soft Matter, 2009, 5, 3623.	2.7	39
216	Styrene oxidation with H ₂ O ₂ over Fe- and Ti-SBA-1 mesoporous silica. Catalysis Communications, 2009, 10, 1070-1073.	3.3	29

#	ARTICLE	IF	CITATIONS
217	Synthesis of gold nanoshells based on the depositionprecipitation process. Gold Bulletin, 2008, 41, 23-36.	2.7	78
218	Photogenerating work from polymers. Materials Today, 2008, 11, 34-42.	14.2	128
219	Crystal chemistry of mimetite, $Pb_{10}(AsO_4)_6Cl_{1.48}O_{0.26}$, and finnemanite, $Pb_{10}(AsO_3)_6Cl_2$. Acta Crystallographica Section B: Structural Science, 2008, 64, 34-41.	1.8	13
220	X-ray absorption spectroscopy studies of phase transformations and amorphicity in nanotitania powder and silicaâ€“titania coreâ€“shell photocatalysts. Journal of Applied Crystallography, 2008, 41, 1009-1018.	4.5	8
221	A taxonomy of apatite frameworks for the crystal chemical design of fuel cell electrolytes. Journal of Solid State Chemistry, 2008, 181, 1717-1722.	2.9	49
222	Preparation of highly ordered Fe-SBA-1 and Ti-SBA-1 cubic mesoporous silica via sol-gel processing of silatrane. Materials Letters, 2008, 62, 4545-4548.	2.6	13
223	A high frequency photodriven polymer oscillator. Soft Matter, 2008, 4, 1796.	2.7	406
224	Formation of antimony sulfide powders and thin films from single-source antimony precursors. Journal of Materials Chemistry, 2008, 18, 5399.	6.7	44
225	The Crystal Chemistry of Ferric Oxyhydroxyapatite. Inorganic Chemistry, 2008, 47, 11774-11782.	4.0	46
226	Simple Route to Monodispersed Silicaâ€“Titania Coreâ€“Shell Photocatalysts. Langmuir, 2008, 24, 6226-6231.	3.5	56
227	The crystal chemistry of martensite in NiTiHf shape memory alloys. Intermetallics, 2008, 16, 876-883.	3.9	49
228	Synthesis of Contiguous Silicaâ€“Gold Coreâ€“Shell Structures:â€‰ Critical Parameters and Processes. Langmuir, 2008, 24, 5109-5112.	3.5	73
229	THE STRUCTURE OF "ORTHORHOMBIC" $KAlSi_4O_{11}$: EVIDENCE FOR Al-Si ORDER FROM MAS NMR DATA COMBINED WITH RIETVELD REFINEMENT AND ELECTRON MICROSCOPY. Canadian Mineralogist, 2008, 46, 1511-1526.	1.0	15
230	Spark plasma sintering of silver nanopowder. , 2007, 6799, 89.		1
231	Polarization dependent photoactuation in azobenzene LC polymers. Proceedings of SPIE, 2007, , .	0.8	4
232	Cobaltâ€“ferrite nanobowl arrays: Curved magnetic nanostructures. Journal of Materials Research, 2007, 22, 1250-1254.	2.6	12
233	Contribution of monomer functionality and additives to polymerization kinetics and liquid crystal phase separation in acrylateâ€“based polymerâ€“dispersed liquid crystals (PDLCs). Liquid Crystals, 2007, 34, 1377-1385.	2.2	39
234	Monomer Functionality Effects in the Formation of Thiolâ€“Ene Holographic Polymer Dispersed Liquid Crystals. Macromolecules, 2007, 40, 1121-1127.	4.8	55

#	ARTICLE	IF	CITATIONS
235	One-Step Synthesis of Highly Dispersed Gold Nanocrystals on Silica Spheres. <i>Langmuir</i> , 2007, 23, 11421-11424.	3.5	35
236	Polymerization Kinetics and Monomer Functionality Effects in Thiol-ene Polymer Dispersed Liquid Crystals. <i>Macromolecules</i> , 2007, 40, 1112-1120.	4.8	71
237	Holographic polymer dispersed liquid crystals (HPDLCs) containing triallyl isocyanurate monomer. <i>Polymer</i> , 2007, 48, 5979-5987.	3.8	47
238	Ab initio constrained crystal-chemical Rietveld refinement of Ca ₁₀ (V _x P _{1-x})O ₄ 6F ₂ apatites. <i>Acta Crystallographica Section B: Structural Science</i> , 2007, 63, 37-48.	1.8	20
239	Triclinic apatites. <i>Acta Crystallographica Section B: Structural Science</i> , 2007, 63, 251-256.	1.8	40
240	Framework 'interstitial' oxygen in La ₁₀ (GeO ₄) ₅ (GeO ₅)O ₂ apatite electrolyte. <i>Acta Crystallographica Section B: Structural Science</i> , 2007, 63, 597-602.	1.8	64
241	The influence of N-vinyl pyrrolidone on polymerization kinetics and thermo-mechanical properties of crosslinked acrylate polymers. <i>Journal of Polymer Science Part A</i> , 2007, 45, 4062-4073.	2.3	47
242	Structural Aspects of SBA-1 Cubic Mesoporous Silica Synthesized via a Sol-Gel Process Using a Silatrane Precursor. <i>Journal of the American Ceramic Society</i> , 2007, 90, 3992-3997.	3.8	3
243	The influence of N-vinyl-2-pyrrolidinone in polymerization of holographic polymer dispersed liquid crystals (HPDLCs). <i>Polymer</i> , 2006, 47, 2289-2298.	3.8	44
244	Recycling of an industrial sludge and marine clay as light-weight aggregates. <i>Journal of Environmental Management</i> , 2006, 80, 208-213.	7.8	41
245	Thermal Stability of a Reverse-Graded SiGe Buffer Layer for Growth of Relaxed SiGe Epitaxy. <i>Electrochemical and Solid-State Letters</i> , 2006, 9, G114.	2.2	10
246	Low-dislocation-density strain relaxation of SiGe on a SiGe/SiGeC buffer layer. <i>Applied Physics Letters</i> , 2006, 88, 041915.	3.3	9
247	Electron Irradiation Induced Transformation of (Pb ₅ Ca ₅)(VO ₄) ₆ F ₂ Apatite to CaVO ₃ Perovskite. <i>Journal of the American Ceramic Society</i> , 2005, 88, 184-190.	3.8	16
248	Model Apatite Systems for the Stabilization of Toxic Metals: II, Cation and Metalloid Substitutions in Chlorapatites. <i>Journal of the American Ceramic Society</i> , 2005, 88, 1253-1260.	3.8	31
249	Nanometric modulation in apatite. <i>Physics and Chemistry of Minerals</i> , 2005, 32, 485-492.	0.8	24
250	Geometrical parameterization of the crystal chemistry of P6 ₃ /m apatites: comparison with experimental data and ab initio results. <i>Acta Crystallographica Section B: Structural Science</i> , 2005, 61, 635-655.	1.8	38
251	Template assisted assembly of cobalt nanobowl arrays. <i>Journal of Materials Chemistry</i> , 2005, 15, 4424.	6.7	62
252	Tin Oxides with Hollandite Structure as Anodes for Lithium Ion Batteries. <i>Chemistry of Materials</i> , 2005, 17, 4700-4710.	6.7	76

#	ARTICLE	IF	CITATIONS
253	Calcium-lead fluoro-vanadinite apatites. I. Disequilibrium structures. Acta Crystallographica Section B: Structural Science, 2004, 60, 138-145.	1.8	25
254	Calcium-lead fluoro-vanadinite apatites. II. Equilibrium structures. Acta Crystallographica Section B: Structural Science, 2004, 60, 146-154.	1.8	21
255	Zinc oxide nanowires and nanorods fabricated by vapour-phase transport at low temperature. Nanotechnology, 2004, 15, 839-842.	2.6	39
256	Carbon-Coated Nanophase CaMoO ₄ as Anode Material for Li Ion Batteries. Chemistry of Materials, 2004, 16, 504-512.	6.7	127
257	Composition-Tunable Zn _x Cd _{1-x} Se Nanocrystals with High Luminescence and Stability. Journal of the American Chemical Society, 2003, 125, 8589-8594.	13.7	534
258	TEM and STEM analysis on heat-treated and in vitro plasma-sprayed hydroxyapatite/Ti-6Al-4V composite coatings. Biomaterials, 2003, 24, 97-105.	11.4	66
259	Structural derivation and crystal chemistry of apatites. Acta Crystallographica Section B: Structural Science, 2003, 59, 1-16.	1.8	250
260	Model Apatite Systems for the Stabilization of Toxic Metals: I, Calcium Lead Vanadate. Journal of the American Ceramic Society, 2002, 85, 2515-2522.	3.8	35
261	Shape Permanence in Diarylethene-Functionalized Liquid-Crystal Elastomers Facilitated by Thiol-Anhydride Dynamic Chemistry. Angewandte Chemie, 0, , .	2.0	1
262	Actuation of Liquid Crystalline Elastomers at or Below Ambient Temperature. Angewandte Chemie, 0, , .	2.0	1