

Timothy J White

List of Publications by Year in descending order

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262
papers

16,143
citations

16451

64
h-index

19749

117
g-index

278
all docs

278
docs citations

278
times ranked

12082
citing authors

#	ARTICLE	IF	CITATIONS
1	Programmable and adaptive mechanics with liquid crystal polymer networks and elastomers. <i>Nature Materials</i> , 2015, 14, 1087-1098.	27.5	1,250
2	Voxelated liquid crystal elastomers. <i>Science</i> , 2015, 347, 982-984.	12.6	863
3	Composition-Tunable ZnxCd1-xSe Nanocrystals with High Luminescence and Stability. <i>Journal of the American Chemical Society</i> , 2003, 125, 8589-8594.	13.7	534
4	3D Printing of Liquid Crystal Elastomeric Actuators with Spatially Programed Nematic Order. <i>Advanced Materials</i> , 2018, 30, 1706164.	21.0	467
5	A high frequency photodriven polymer oscillator. <i>Soft Matter</i> , 2008, 4, 1796.	2.7	406
6	Liquid crystalline polymer cantilever oscillators fueled by light. <i>Soft Matter</i> , 2010, 6, 779-783.	2.7	312
7	Nomenclature of the apatite supergroup minerals. <i>European Journal of Mineralogy</i> , 2010, 22, 163-179.	1.3	277
8	Dynamic color in stimuli-responsive cholesteric liquid crystals. <i>Journal of Materials Chemistry</i> , 2010, 20, 9832.	6.7	276
9	Structural derivation and crystal chemistry of apatites. <i>Acta Crystallographica Section B: Structural Science</i> , 2003, 59, 1-16.	1.8	250
10	Light-activated shape memory of glassy, azobenzene liquid crystalline polymer networks. <i>Soft Matter</i> , 2011, 7, 4318.	2.7	241
11	Electrocatalytic Activity and Interconnectivity of Pt Nanoparticles on Multiwalled Carbon Nanotubes for Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18935-18945.	3.1	239
12	Photodriven, Flexuralâ€”Torsional Oscillation of Glassy Azobenzene Liquid Crystal Polymer Networks. <i>Advanced Functional Materials</i> , 2011, 21, 2913-2918.	14.9	237
13	Materials as Machines. <i>Advanced Materials</i> , 2020, 32, e1906564.	21.0	213
14	Synthesis and alignment of liquid crystalline elastomers. <i>Nature Reviews Materials</i> , 2022, 7, 23-38.	48.7	205
15	Layered liquid crystal elastomer actuators. <i>Nature Communications</i> , 2018, 9, 2531.	12.8	203
16	Topography from Topology: Photoinduced Surface Features Generated in Liquid Crystal Polymer Networks. <i>Advanced Materials</i> , 2013, 25, 5880-5885.	21.0	194
17	Photomotility of polymers. <i>Nature Communications</i> , 2016, 7, 13260.	12.8	189
18	Polarization-controlled, photodriven bending in monodomain liquid crystal elastomer cantilevers. <i>Journal of Materials Chemistry</i> , 2009, 19, 1080-1085.	6.7	178

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19	Light-driven nanoscale chiral molecular switch: reversible dynamic full range color phototuning. <i>Chemical Communications</i> , 2010, 46, 3463.	4.1	174
20	Vanadium Dioxide: The Multistimuli Responsive Material and Its Applications. <i>Small</i> , 2018, 14, e1802025.	10.0	167
21	Light-Driven Reversible Handedness Inversion in Self-Organized Helical Superstructures. <i>Journal of the American Chemical Society</i> , 2010, 132, 18361-18366.	13.7	166
22	Pressure-Dependent Polymorphism and Band-Gap Tuning of Methylammonium Lead Iodide Perovskite. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6540-6544.	13.8	157
23	Two-Dimensional SiO ₂ /VO ₂ Photonic Crystals with Statically Visible and Dynamically Infrared Modulated for Smart Window Deployment. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33112-33120.	8.0	153
24	Photoinduced Topographical Feature Development in Blueprinted Azobenzene-Functionalized Liquid Crystalline Elastomers. <i>Advanced Functional Materials</i> , 2016, 26, 5819-5826.	14.9	145
25	Light-induced liquid crystallinity. <i>Nature</i> , 2012, 485, 347-349.	27.8	144
26	Phototunable Azobenzene Cholesteric Liquid Crystals with 2000 nm Range. <i>Advanced Functional Materials</i> , 2009, 19, 3484-3488.	14.9	141
27	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
28	Autonomous, Hands-Free Shape Memory in Glassy, Liquid Crystalline Polymer Networks. <i>Advanced Materials</i> , 2012, 24, 2839-2843.	21.0	134
29	Localized soft elasticity in liquid crystal elastomers. <i>Nature Communications</i> , 2016, 7, 10781.	12.8	132
30	Manipulating efficient light emission in two-dimensional perovskite crystals by pressure-induced anisotropic deformation. <i>Science Advances</i> , 2019, 5, eaav9445.	10.3	130
31	Photogenerating work from polymers. <i>Materials Today</i> , 2008, 11, 34-42.	14.2	128
32	Adaptive Thermochromic Windows from Active Plasmonic Elastomers. <i>Joule</i> , 2019, 3, 858-871.	24.0	128
33	Carbon-Coated Nanophase CaMoO ₄ as Anode Material for Li Ion Batteries. <i>Chemistry of Materials</i> , 2004, 16, 504-512.	6.7	127
34	Photomechanical Response of Glassy Azobenzene Polyimide Networks. <i>Macromolecules</i> , 2011, 44, 3840-3846.	4.8	122
35	Programmable Liquid Crystal Elastomers Prepared by Thiol-Ene Photopolymerization. <i>ACS Macro Letters</i> , 2015, 4, 942-946.	4.8	120
36	Relationship between the Photomechanical Response and the Thermomechanical Properties of Azobenzene Liquid Crystalline Polymer Networks. <i>Macromolecules</i> , 2010, 43, 8185-8190.	4.8	111

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37	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
38	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
39	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
40	Enhancement of Photogenerated Mechanical Force in Azobenzene-Functionalized Polyimides. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4117-4121.	13.8	99
41	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
42	Pressure-Engineered Structural and Optical Properties of Two-Dimensional (C ₄ H ₉ NH ₃) ₂ PbI ₄ Perovskite Exfoliated nm-Thin Flakes. <i>Journal of the American Chemical Society</i> , 2019, 141, 1235-1241.	13.7	95
43	Photomechanical effects in liquid crystalline polymer networks and elastomers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 695-705.	2.1	94
44	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
45	Torsional mechanical responses in azobenzene functionalized liquid crystalline polymer networks. <i>Soft Matter</i> , 2013, 9, 9303.	2.7	91
46	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
47	Polymer design for high temperature shape memory: Low crosslink density polyimides. <i>Polymer</i> , 2013, 54, 391-402.	3.8	90
48	Widely Tunable, Photoinvertible Cholesteric Liquid Crystals. <i>Advanced Materials</i> , 2011, 23, 1389-1392.	21.0	89
49	Twists and Turns in Glassy, Liquid Crystalline Polymer Networks. <i>Macromolecules</i> , 2015, 48, 1087-1092.	4.8	89
50	High-Pressure-Induced Comminution and Recrystallization of CH ₃ NH ₃ PbBr ₃ Nanocrystals as Large Thin Nanoplates. <i>Advanced Materials</i> , 2018, 30, 1705017.	21.0	89
51	Programmed liquid crystal elastomers with tunable actuation strain. <i>Polymer Chemistry</i> , 2015, 6, 4835-4844.	3.9	85
52	Thermally Induced, Multicolored Hyper-Reflective Cholesteric Liquid Crystals. <i>Advanced Materials</i> , 2011, 23, 1453-1457.	21.0	84
53	Light Control with Liquid Crystalline Elastomers. <i>Advanced Optical Materials</i> , 2019, 7, 1801683.	7.3	83
54	Impact of Backbone Rigidity on the Photomechanical Response of Glassy, Azobenzene-Functionalized Polyimides. <i>Macromolecules</i> , 2014, 47, 659-667.	4.8	81

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55	Hydrogen-Bonding Evolution during the Polymorphic Transformations in $\text{CH}_3\text{NH}_3\text{PbBr}_3$: Experiment and Theory. <i>Chemistry of Materials</i> , 2017, 29, 5974-5981.	6.7	80
56	Electrically induced bandwidth broadening in polymer stabilized cholesteric liquid crystals. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	79
57	Synthesis of gold nanoshells based on the deposition/precipitation process. <i>Gold Bulletin</i> , 2008, 41, 23-36.	2.7	78
58	Phase Transitions of Formamidinium Lead Iodide Perovskite under Pressure. <i>Journal of the American Chemical Society</i> , 2018, 140, 13952-13957.	13.7	78
59	Tin Oxides with Hollandite Structure as Anodes for Lithium Ion Batteries. <i>Chemistry of Materials</i> , 2005, 17, 4700-4710.	6.7	76
60	Synthesis of Contiguous Silica-Gold Core-Shell Structures: Critical Parameters and Processes. <i>Langmuir</i> , 2008, 24, 5109-5112.	3.5	73
61	Topology optimization for the design of folding liquid crystal elastomer actuators. <i>Soft Matter</i> , 2015, 11, 7288-7295.	2.7	72
62	Polymerization Kinetics and Monomer Functionality Effects in Thiol-Ene Polymer Dispersed Liquid Crystals. <i>Macromolecules</i> , 2007, 40, 1112-1120.	4.8	71
63	Mechanism of electrically induced photonic band gap broadening in polymer stabilized cholesteric liquid crystals with negative dielectric anisotropies. <i>Soft Matter</i> , 2015, 11, 1208-1213.	2.7	67
64	TEM and STEM analysis on heat-treated and in vitro plasma-sprayed hydroxyapatite/Ti-6Al-4V composite coatings. <i>Biomaterials</i> , 2003, 24, 97-105.	11.4	66
65	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
66	Framework 'interstitial' oxygen in $\text{La}_{10}(\text{GeO}_4)_5(\text{GeO}_5)_2\text{O}_2$ apatite electrolyte. <i>Acta Crystallographica Section B: Structural Science</i> , 2007, 63, 597-602.	1.8	64
67	Photoinduced hyper-reflective cholesteric liquid crystals enabled via surface initiated photopolymerization. <i>Chemical Communications</i> , 2011, 47, 505-507.	4.1	64
68	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
69	Electrically Induced Color Changes in Polymer-Stabilized Cholesteric Liquid Crystals. <i>Advanced Optical Materials</i> , 2013, 1, 417-421.	7.3	63
70	Bandwidth broadening induced by ionic interactions in polymer stabilized cholesteric liquid crystals. <i>Optical Materials Express</i> , 2014, 4, 1465.	3.0	63
71	Pixelated Polymers: Directed Self Assembly of Liquid Crystalline Polymer Networks. <i>ACS Macro Letters</i> , 2017, 6, 436-441.	4.8	63
72	Synthesis of Elastomeric Liquid Crystalline Polymer Networks via Chain Transfer. <i>ACS Macro Letters</i> , 2017, 6, 1290-1295.	4.8	63

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73	Template assisted assembly of cobalt nanobowl arrays. <i>Journal of Materials Chemistry</i> , 2005, 15, 4424.	6.7	62
74	Electrically switchable, photoaddressable cholesteric liquid crystal reflectors. <i>Optics Express</i> , 2010, 18, 173.	3.4	61
75	A micromechanism study of thermosonic gold wire bonding on aluminum pad. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	60
76	Simple Route to Monodispersed Silica-Titania Core-Shell Photocatalysts. <i>Langmuir</i> , 2008, 24, 6226-6231.	3.5	56
77	All-Optical Control of Shape. <i>Advanced Materials</i> , 2019, 31, e1805750.	21.0	56
78	Monomer Functionality Effects in the Formation of Thiol-Ene Holographic Polymer Dispersed Liquid Crystals. <i>Macromolecules</i> , 2007, 40, 1121-1127.	4.8	55
79	Photomechanical bending mechanics of polydomain azobenzene liquid crystal polymer network films. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	55
80	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
81	Curvature by design and on demand in liquid crystal elastomers. <i>Physical Review E</i> , 2018, 97, 012504.	2.1	53
82	Light-driven molecular switches with tetrahedral and axial chirality. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 3930.	2.8	50
83	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
84	Cholesteric liquid crystal paints: in situ photopolymerization of helicoidally stacked multilayer nanostructures for flexible broadband mirrors. <i>NPG Asia Materials</i> , 2018, 10, 1061-1068.	7.9	50
85	A taxonomy of apatite frameworks for the crystal chemical design of fuel cell electrolytes. <i>Journal of Solid State Chemistry</i> , 2008, 181, 1717-1722.	2.9	49
86	The crystal chemistry of martensite in NiTiHf shape memory alloys. <i>Intermetallics</i> , 2008, 16, 876-883.	3.9	49
87	Electromechanical tuning of cholesteric liquid crystals. <i>Journal of Applied Physics</i> , 2010, 107, 013105.	2.5	49
88	Liquid Crystal Elastomers with Enhanced Directional Actuation to Electric Fields. <i>Advanced Materials</i> , 2021, 33, e2103806.	21.0	49
89	Holographic polymer dispersed liquid crystals (HPDLCs) containing triallyl isocyanurate monomer. <i>Polymer</i> , 2007, 48, 5979-5987.	3.8	47
90	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

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91	The Crystal Chemistry of Ferric Oxyhydroxyapatite. <i>Inorganic Chemistry</i> , 2008, 47, 11774-11782.	4.0	46
92	Optically switchable, rapidly relaxing cholesteric liquid crystal reflectors. <i>Optics Express</i> , 2010, 18, 9651.	3.4	46
93	Tailoring the Photomechanical Response of Glassy, Azobenzene-Functionalized Polyimides by Physical Aging. <i>Macromolecules</i> , 2012, 45, 7527-7534.	4.8	45
94	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
95	Large range electrically-induced reflection notch tuning in polymer stabilized cholesteric liquid crystals. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8788-8793.	5.5	45
96	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
97	Formation of antimony sulfide powders and thin films from single-source antimony precursors. <i>Journal of Materials Chemistry</i> , 2008, 18, 5399.	6.7	44
98	Electrical Control of Shape in Voxelated Liquid Crystalline Polymer Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1187-1194.	8.0	43
99	Photoinduced broadening of cholesteric liquid crystal reflectors. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	42
100	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
101	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
102	Bidirectional Photoresponse of Surface Pretreated Azobenzene Liquid Crystal Polymer Networks. <i>Optics Express</i> , 2009, 17, 716.	3.4	41
103	Triclinic apatites. <i>Acta Crystallographica Section B: Structural Science</i> , 2007, 63, 251-256.	1.8	40
104	Free-Standing and Circular-Polarizing Chirophotonic Crystal Reflectors: Photopolymerization of Helical Nanostructures. <i>ACS Nano</i> , 2016, 10, 9570-9576.	14.6	40
105	Zinc oxide nanowires and nanorods fabricated by vapour-phase transport at low temperature. <i>Nanotechnology</i> , 2004, 15, 839-842.	2.6	39
106	Contribution of monomer functionality and additives to polymerization kinetics and liquid crystal phase separation in acrylate-based polymer-dispersed liquid crystals (PDLCs). <i>Liquid Crystals</i> , 2007, 34, 1377-1385.	2.2	39
107	The crystal chemistry of the alkaline-earth apatites $A_{10}(PO_4)_6Cu_xO_y(H)_z$ ($A = Ca, Sr$ and Ba). <i>Dalton Transactions</i> , 2009, , 6722.	3.3	39
108	Polymer stabilization of phototunable cholesteric liquid crystals. <i>Soft Matter</i> , 2009, 5, 3623.	2.7	39

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109	Cost-effectiveness of emergency <i>versus</i> delayed laparoscopic cholecystectomy for acute gallbladder pathology. <i>British Journal of Surgery</i> , 2016, 104, 98-107.	0.3	39
110	Patterning nonisometric origami in nematic elastomer sheets. <i>Soft Matter</i> , 2018, 14, 3127-3134.	2.7	39
111	Actuation of Liquid Crystalline Elastomers at or Below Ambient Temperature. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202202577.	13.8	39
112	Geometrical parameterization of the crystal chemistry of P63/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
113	Dynamic high contrast reflective coloration from responsive polymer/cholesteric liquid crystal architectures. <i>Soft Matter</i> , 2012, 8, 318-323.	2.7	38
114	Molecular Engineering of Mesogenic Constituents Within Liquid Crystalline Elastomers to Sharpen Thermotropic Actuation. <i>Advanced Functional Materials</i> , 2021, 31, 2100564.	14.9	38
115	Blue-shifting tuning of the selective reflection of polymer stabilized cholesteric liquid crystals. <i>Soft Matter</i> , 2017, 13, 5842-5848.	2.7	37
116	Photomechanical Response of Prestrained Azobenzene-Functionalized Polyimide Materials. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 1189-1194.	2.2	36
117	Model Apatite Systems for the Stabilization of Toxic Metals: I, Calcium Lead Vanadate. <i>Journal of the American Ceramic Society</i> , 2002, 85, 2515-2522.	3.8	35
118	One-Step Synthesis of Highly Dispersed Gold Nanocrystals on Silica Spheres. <i>Langmuir</i> , 2007, 23, 11421-11424.	3.5	35
119	Correlation of Local Structure and Diffusion Pathways in the Modulated Anisotropic Oxide Ion Conductor CeNbO _{4.25} . <i>Journal of the American Chemical Society</i> , 2016, 138, 1273-1279.	13.7	34
120	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
121	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
122	Strategies for the Optimisation of the Oxide Ion Conductivities of Apatite-Type Germanates. <i>Fuel Cells</i> , 2011, 11, 10-16.	2.4	32
123	Robust, Uniform, and Highly Emissive Quantum Dot-Polymer Films and Patterns Using Thiol-Ene Chemistry. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17435-17448.	8.0	32
124	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
125	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
126	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

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127	Enabling and Localizing Omnidirectional Nonlinear Deformation in Liquid Crystalline Elastomers. <i>Advanced Materials</i> , 2018, 30, e1802438.	21.0	31
128	Polysomatic apatites. <i>Acta Crystallographica Section B: Structural Science</i> , 2010, 66, 1-16.	1.8	30
129	Bistable switching of polymer stabilized cholesteric liquid crystals between transparent and scattering modes. <i>MRS Communications</i> , 2015, 5, 223-227.	1.8	30
130	Photomechanical Deformation of Azobenzene-Functionalized Polyimides Synthesized with Bulky Substituents. <i>ACS Macro Letters</i> , 2017, 6, 1432-1437.	4.8	30
131	Styrene oxidation with H ₂ O ₂ over Fe- and Ti-SBA-1 mesoporous silica. <i>Catalysis Communications</i> , 2009, 10, 1070-1073.	3.3	29
132	Electromechanical and light tunable cholesteric liquid crystals. <i>Optics Communications</i> , 2010, 283, 3434-3436.	2.1	29
133	Apatite germanates doped with tungsten: synthesis, structure, and conductivity. <i>Dalton Transactions</i> , 2011, 40, 3903-3908.	3.3	29
134	Photomechanical Response of Composite Structures Built from Azobenzene Liquid Crystal Polymer Networks. <i>Polymers</i> , 2011, 3, 1447-1457.	4.5	29
135	Microstructured Photopolymerization of Liquid Crystalline Elastomers in Oxygen-Rich Environments. <i>Advanced Functional Materials</i> , 2019, 29, 1903761.	14.9	29
136	Retention and deformation of the blue phases in liquid crystalline elastomers. <i>Nature Communications</i> , 2021, 12, 4916.	12.8	29
137	Microwave Synthesis of Noncentrosymmetric BaTiO ₃ Truncated Nanocubes for Charge Storage Applications. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 3037-3042.	8.0	28
138	Azobenzene liquid crystal polymer-based membrane and cantilever optical systems. <i>Optics Express</i> , 2009, 17, 15736.	3.4	27
139	Initiatorless Photopolymerization of Liquid Crystal Monomers. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28040-28046.	8.0	27
140	Photosensitivity of reflection notch tuning and broadening in polymer stabilized cholesteric liquid crystals. <i>Soft Matter</i> , 2016, 12, 1256-1261.	2.7	27
141	Crystal Chemistry and Antibacterial Properties of Cupriferous Hydroxyapatite. <i>Materials</i> , 2019, 12, 1814.	2.9	27
142	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
143	Tailoring the radiation tolerance of vanadate-phosphate fluorapatites by chemical composition control. <i>RSC Advances</i> , 2013, 3, 15178.	3.6	26
144	Azobenzene-functionalized polyimides as wireless actuators. <i>Polymer</i> , 2014, 55, 5915-5923.	3.8	26

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145	Design of polarization-dependent, flexural-torsional deformation in photo responsive liquid crystalline polymer networks. <i>Soft Matter</i> , 2014, 10, 1400-1410.	2.7	26
146	Reconfigurable Antennas Based on Self-Morphing Liquid Crystalline Elastomers. <i>IEEE Access</i> , 2016, 4, 2340-2348.	4.2	26
147	Calcium-lead fluoro-vanadinite apatites. I. Disequilibrium structures. <i>Acta Crystallographica Section B: Structural Science</i> , 2004, 60, 138-145.	1.8	25
148	Flexural-Torsional Photomechanical Responses in Azobenzene-Containing Crosslinked Polyimides. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 1167-1174.	3.6	25
149	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
150	Nanometric modulation in apatite. <i>Physics and Chemistry of Minerals</i> , 2005, 32, 485-492.	0.8	24
151	Pressure-Dependent Polymorphism and Band-Gap Tuning of Methylammonium Lead Iodide Perovskite. <i>Angewandte Chemie</i> , 2016, 128, 6650-6654.	2.0	24
152	The contribution of intermolecular forces to phototropic actuation of liquid crystalline elastomers. <i>Polymer Chemistry</i> , 2021, 12, 1581-1587.	3.9	24
153	Polymer Network Structure, Properties, and Formation of Liquid Crystalline Elastomers Prepared via Thiol-Acrylate Chain Transfer Reactions. <i>Macromolecules</i> , 2021, 54, 11074-11082.	4.8	24
154	Transparent thin film polarizing and optical control systems. <i>AIP Advances</i> , 2011, 1, .	1.3	23
155	Electrically Induced Splitting of the Selective Reflection in Polymer Stabilized Cholesteric Liquid Crystals. <i>Advanced Optical Materials</i> , 2020, 8, 2000914.	7.3	23
156	Nonlinear optical properties of fast, photoswitchable cholesteric liquid crystal bandgaps. <i>Optical Materials Express</i> , 2011, 1, 943.	3.0	22
157	Deformation and Elastic Recovery of Acrylate-Based Liquid Crystalline Elastomers. <i>Macromolecules</i> , 2019, 52, 8248-8255.	4.8	22
158	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
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