

Ivan I Smalyukh

List of Publications by Year in descending order

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227
papers

10,654
citations

27035

58
h-index

49824

91
g-index

229
all docs

229
docs citations

229
times ranked

8739
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrically Powered Locomotion of Dual-Nature Colloid-Hedgehog and Colloid-Umbilic Topological and Elastic Dipoles in Liquid Crystals. <i>Langmuir</i> , 2022, 38, 689-697.	1.6	3
2	Hopfions, heliknotons, skyrmions, torons and both abelian and nonabelian vortices in chiral liquid crystals. <i>Liquid Crystals Reviews</i> , 2022, 10, 34-68.	1.1	20
3	A site-differentiated [4Fe ⁴ S] cluster controls electron transfer reactivity of <i>Clostridium acetobutylicum</i> [FeFe]-hydrogenase I. <i>Chemical Science</i> , 2022, 13, 4581-4588.	3.7	8
4	Cellulose nanocrystal chiral photonic micro-flakes for multilevel anti-counterfeiting and identification. <i>Chemical Engineering Journal</i> , 2022, 446, 136630.	6.6	23
5	Geometric transformation and three-dimensional hopping of Hopf solitons. <i>Nature Communications</i> , 2022, 13, .	5.8	11
6	Interaction and co-assembly of optical and topological solitons. <i>Nature Photonics</i> , 2022, 16, 454-461.	15.6	18
7	Fabrication of Arrays of Topological Solitons in Patterned Chiral Liquid Crystals for Real-Time Observation of Morphogenesis. <i>Advanced Materials</i> , 2022, 34, .	11.1	11
8	Biotropic liquid crystal phase transformations in cellulose-producing bacterial communities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	6
9	Thermal Management by Engineering the Alignment of Nanocellulose. <i>Advanced Materials</i> , 2021, 33, e2001228.	11.1	43
10	Anisotropic electrostatic screening of charged colloids in nematic solvents. <i>Science Advances</i> , 2021, 7, .	4.7	11
11	Thermally reconfigurable monoclinic nematic colloidal fluids. <i>Nature</i> , 2021, 590, 268-274.	13.7	25
12	Self-organization of nanoparticles and molecules in periodic Liesegang-type structures. <i>Science Advances</i> , 2021, 7, .	4.7	16
13	Transformation between elastic dipoles, quadrupoles, octupoles, and hexadecapoles driven by surfactant self-assembly in nematic emulsion. <i>Science Advances</i> , 2021, 7, .	4.7	9
14	Cylindrical Confinement of Nanocolloidal Cholesteric Liquid Crystal. <i>Journal of Physical Chemistry B</i> , 2021, 125, 8243-8250.	1.2	9
15	Nematoelasticity of hybrid molecular-colloidal liquid crystals. <i>Physical Review E</i> , 2021, 104, 014703.	0.8	3
16	Field-driven metamorphoses of isolated skyrmions within the conical state of cubic helimagnets. <i>Physical Review B</i> , 2021, 104, .	1.1	21
17	Nematic Order, Plasmonic Switching and Self-Patterning of Colloidal Gold Bipyramids. <i>Advanced Science</i> , 2021, 8, e21102854.	5.6	11
18	Elastomeric nematic colloids, colloidal crystals and microstructures with complex topology. <i>Soft Matter</i> , 2021, 17, 3037-3046.	1.2	3

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19	Morphological and Orientational Controls of Self-Assembly of Gold Nanorods Directed by Evaporative Microflows. <i>ACS Applied Materials & Interfaces</i> , 2021, , .	4.0	4
20	Colloidal interactions and unusual crystallization versus de-mixing of elastic multipoles formed by gold mesoflowers. <i>Nature Communications</i> , 2020, 11, 188.	5.8	8
21	Topological solitons, cholesteric fingers and singular defect lines in Janus liquid crystal shells. <i>Soft Matter</i> , 2020, 16, 2669-2682.	1.2	20
22	Chiral Carbon Dots Synthesized on Cellulose Nanocrystals. <i>Advanced Optical Materials</i> , 2020, 8, 1901911.	3.6	61
23	Chirality-Enhanced Periodic Self-Focusing of Light in Soft Birefringent Media. <i>Physical Review Letters</i> , 2020, 125, 077801.	2.9	9
24	Hopf Solitons in Helical and Conical Backgrounds of Chiral Magnetic Solids. <i>Physical Review Letters</i> , 2020, 125, 057201.	2.9	32
25	Interplay of Electrostatic Dipoles and Monopoles with Elastic Interactions in Nematic Liquid Crystal Nanocolloids. <i>Nano Letters</i> , 2020, 20, 7835-7843.	4.5	7
26	Control of Light by Topological Solitons in Soft Chiral Birefringent Media. <i>Physical Review X</i> , 2020, 10, .	2.8	19
27	Highly Luminescent Liquid Crystals in Aggregation Based on Platinum(II) Complexes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53058-53066.	4.0	23
28	Electrically powered motions of toron crystallites in chiral liquid crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6437-6445.	3.3	15
29	Aerogel from Sustainably Grown Bacterial Cellulose Pellicles as a Thermally Insulative Film for Building Envelopes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 34115-34121.	4.0	29
30	Surface anchoring as a control parameter for stabilizing torons, skyrmions, twisted walls, fingers, and their hybrids in chiral nematics. <i>Physical Review E</i> , 2020, 101, 042702.	0.8	34
31	Review: knots and other new topological effects in liquid crystals and colloids. <i>Reports on Progress in Physics</i> , 2020, 83, 106601.	8.1	75
32	Optically enriched and guided dynamics of active skyrmions. <i>Optics Express</i> , 2020, 28, 6306.	1.7	13
33	Control of quantum dot emission by colloidal plasmonic pyramids in a liquid crystal. <i>Optics Express</i> , 2020, 28, 5459.	1.7	3
34	Plasmonic gold-cellulose nanofiber aerogels. <i>Optics Express</i> , 2020, 28, 34237.	1.7	2
35	Morphology of Lyotropic Myelin Figures Stained with a Fluorescent Dye. <i>Journal of Physical Chemistry B</i> , 2020, 124, 11974-11979.	1.2	8
36	Controlled Multistep Self-Assembling of Colloidal Droplets at a Nematic Liquid Crystal–Air Interface. <i>Physical Review Letters</i> , 2019, 123, 087801.	2.9	9

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37	Holographic polymer nanocomposites with simultaneously boosted diffraction efficiency and upconversion photoluminescence. <i>Composites Science and Technology</i> , 2019, 181, 107705.	3.8	19
38	Schools of skyrmions with electrically tunable elastic interactions. <i>Nature Communications</i> , 2019, 10, 4744.	5.8	37
39	Plasmonic Metamaterial Gels with Spatially Patterned Orientational Order via 3D Printing. <i>ACS Omega</i> , 2019, 4, 20558-20563.	1.6	17
40	Real-space observation of skyrmion clusters with mutually orthogonal skyrmion tubes. <i>Physical Review B</i> , 2019, 100, .	1.1	28
41	Electrostatically controlled surface boundary conditions in nematic liquid crystals and colloids. <i>Science Advances</i> , 2019, 5, eaax4257.	4.7	21
42	Three-dimensional crystals of adaptive knots. <i>Science</i> , 2019, 365, 1449-1453.	6.0	59
43	High-order elastic multipoles as colloidal atoms. <i>Nature Communications</i> , 2019, 10, 1825.	5.8	18
44	Elastic colloidal monopoles and reconfigurable self-assembly in liquid crystals. <i>Nature</i> , 2019, 570, 214-218.	13.7	34
45	Self-organized nonlinear gratings for ultrafast nanophotonics. <i>Nature Photonics</i> , 2019, 13, 494-499.	15.6	60
46	Visible Light Rewritable and Long-Lived Colors in Cholesteric Liquid Crystals: A Facile Co-Doping Strategy. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900037.	2.0	17
47	Degenerate conic anchoring and colloidal elastic dipole-hexadecapole transformations. <i>Nature Communications</i> , 2019, 10, 1000.	5.8	18
48	Two-dimensional skyrmion bags in liquid crystals and ferromagnets. <i>Nature Physics</i> , 2019, 15, 655-659.	6.5	140
49	Liquid Crystalline Nanocolloids for the Storage of Electro-Optic Responsive Images. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8612-8624.	4.0	25
50	Liquid Crystalline Order and Electric Switching of Upconversion Luminescence in Colloidal Nanorod Suspensions. <i>Advanced Optical Materials</i> , 2019, 7, 1900041.	3.6	10
51	Programmable Ultralight Magnets via Orientational Arrangement of Ferromagnetic Nanoparticles within Aerogel Hosts. <i>ACS Nano</i> , 2019, 13, 13875-13883.	7.3	24
52	Light-controlled skyrmions and torons as reconfigurable particles. <i>Optics Express</i> , 2019, 27, 29055.	1.7	24
53	Colloidal plasmonic DNA-origami with photo-switchable chirality in liquid crystals. <i>Optics Letters</i> , 2019, 44, 2831.	1.7	17
54	Thermal conductivity model for nanofiber networks. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	45

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55	Tuning and Switching a Plasmonic Quantum Dot “Sandwich” in a Nematic Line Defect. ACS Nano, 2018, 12, 2580-2590.	7.3	24
56	The Effect of Thickness-Tunable ZrO ₂ Shell on Enhancing the Tunneling Magnetoresistance of Fe ₃ O ₄ Supraparticles. Advanced Materials Interfaces, 2018, 5, 1800236.	1.9	8
57	Cellulose-Based Reflective Liquid Crystal Films as Optical Filters and Solar Gain Regulators. ACS Photonics, 2018, 5, 2468-2477.	3.2	63
58	Liquid crystal self-assembly of upconversion nanorods enriched by depletion forces for mesostructured material preparation. Nanoscale, 2018, 10, 4218-4227.	2.8	24
59	Topological transformations of Hopf solitons in chiral ferromagnets and liquid crystals. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 921-926.	3.3	43
60	Dynamics of topological solitons, knotted streamlines, and transport of cargo in liquid crystals. Physical Review E, 2018, 97, 052701.	0.8	34
61	Flexible transparent aerogels as window retrofitting films and optical elements with tunable birefringence. Nano Energy, 2018, 48, 266-274.	8.2	63
62	Liquid Crystal Colloids. Annual Review of Condensed Matter Physics, 2018, 9, 207-226.	5.2	118
63	Chirality-Enabled Liquid Crystalline Physical Gels with High Modulus but Low Driving Voltage. ACS Applied Materials & Interfaces, 2018, 10, 43184-43191.	4.0	13
64	Self-assembled nematic colloidal motors powered by light. Nature Communications, 2018, 9, 5040.	5.8	38
65	Chiral liquid crystal colloids. Nature Materials, 2018, 17, 71-79.	13.3	62
66	Static Hopf Solitons and Knotted Emergent Fields in Solid-State Noncentrosymmetric Magnetic Nanostructures. Physical Review Letters, 2018, 121, 187201.	2.9	78
67	Self-Assembly of Cellulose Nanocrystals into Semi-Spherical Photonic Cholesteric Films. Advanced Functional Materials, 2018, 28, 1803852.	7.8	35
68	Electric switching of visible and infrared transmission using liquid crystals co-doped with plasmonic gold nanorods and dichroic dyes. Optics Express, 2018, 26, 22264.	1.7	13
69	Hybrid molecular-colloidal liquid crystals. Science, 2018, 360, 768-771.	6.0	65
70	Liquid Crystals under Confinement in Submicrometer Capsules. Langmuir, 2018, 34, 10955-10963.	1.6	15
71	A supramolecular hydrogel prepared from a thymine-containing artificial nucleolipid: study of assembly and lyotropic mesophases. Soft Matter, 2018, 14, 7045-7051.	1.2	10
72	Self-organized nonlinear gratings for ultrafast nanophotonics. , 2018, , .		2

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73	Super-resolution stimulated emission depletion microscopy of director structures in liquid crystals. Optics Letters, 2018, 43, 5158.	1.7	7
74	Super-resolution stimulated emission depletion microscopy of director structures in liquid crystals: publisher's note. Optics Letters, 2018, 43, 5475.	1.7	0
75	Diversity of Knot Solitons in Liquid Crystals Manifested by Linking of Preimages in Torons and Hopfions. Physical Review X, 2017, 7, .	2.8	81
76	Static three-dimensional topological solitons in fluid chiral ferromagnets and colloids. Nature Materials, 2017, 16, 426-432.	13.3	131
77	Squirring motion of baby skyrmions in nematic fluids. Nature Communications, 2017, 8, 673.	5.8	67
78	Liquid crystalline cellulose-based nematogels. Science Advances, 2017, 3, e1700981.	4.7	36
79	Repulsion-to-attraction switching of nematic colloids formed by liquid crystal dispersions of polygonal prisms. Soft Matter, 2017, 13, 7398-7405.	1.2	10
80	Symmetry control of nanorod superlattice driven by a governing force. Nature Communications, 2017, 8, 1410.	5.8	45
81	Pristine Polysulfone Networks as a Class of Polysulfide-Derived High-Performance Functional Materials. Chemistry of Materials, 2016, 28, 5102-5109.	3.2	34
82	Colloidal Surfaces with Boundaries, Apex Boojums, and Nested Elastic Self-Assembly of Nematic Colloids. Physical Review Letters, 2016, 117, 277801.	2.9	17
83	Nonsingular defects and self-assembly of colloidal particles in cholesteric liquid crystals. Physical Review E, 2016, 94, 062703.	0.8	9
84	Conventional and nonlinear optical microscopy of liquid crystal colloids. Series in Soft Condensed Matter, 2016, , 179-207.	0.1	1
85	Triclinic nematic colloidal crystals from competing elastic and electrostatic interactions. Science, 2016, 352, 69-73.	6.0	87
86	Biaxial ferromagnetic liquid crystal colloids. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10479-10484.	3.3	71
87	Reversal of helicoidal twist handedness near point defects of confined chiral liquid crystals. Physical Review E, 2016, 93, 052702.	0.8	23
88	Edge pinning and transformation of defect lines induced by faceted colloidal rings in nematic liquid crystals. Physical Review E, 2016, 93, 062704.	0.8	16
89	Electric Switching of Fluorescence Decay in Gold-Silica-Dye Nematic Nanocolloids Mediated by Surface Plasmons. ACS Nano, 2016, 10, 7064-7072.	7.3	22
90	Cellulose Nanocrystal/Poly(ethylene glycol) Composite as an Iridescent Coating on Polymer Substrates: Structure-Color and Interface Adhesion. ACS Applied Materials & Interfaces, 2016, 8, 32565-32573.	4.0	116

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91	Hexadecapolar colloids. <i>Nature Communications</i> , 2016, 7, 10659.	5.8	43
92	Self-assembly of colloidal particles in deformation landscapes of electrically driven layer undulations in cholesteric liquid crystals. <i>Physical Review E</i> , 2016, 94, 042709.	0.8	14
93	Optical Microscopy of Soft Matter Systems. , 2016, , 165-186.		6
94	Self-assembly of predesigned optical materials in nematic codispersions of plasmonic nanorods. <i>Optics Letters</i> , 2016, 41, 4899.	1.7	21
95	Mesostructured Composite Materials with Electrically Tunable Upconverting Properties. <i>Small</i> , 2015, 11, 5572-5580.	5.2	35
96	Three-dimensional patterning of solid microstructures through laser reduction of colloidal graphene oxide in liquid-crystalline dispersions. <i>Nature Communications</i> , 2015, 6, 7157.	5.8	56
97	Topological nanocolloids with facile electric switching of plasmonic properties. <i>Optics Letters</i> , 2015, 40, 5630.	1.7	11
98	Ferromagnetic Switching of Knotted Vector Fields in Liquid Crystal Colloids. <i>Physical Review Letters</i> , 2015, 115, 097802.	2.9	48
99	Topology and self-assembly of defect-colloidal superstructure in confined chiral nematic liquid crystals. <i>Physical Review E</i> , 2015, 91, 012501.	0.8	21
100	Light-driven dynamic Archimedes spirals and periodic oscillatory patterns of topological solitons in anisotropic soft matter. <i>Optics Express</i> , 2015, 23, 4591.	1.7	19
101	Self-assembly and electrostriction of arrays and chains of hopfion particles in chiral liquid crystals. <i>Nature Communications</i> , 2015, 6, 6012.	5.8	83
102	Metal Nanoparticle Dispersion, Alignment, and Assembly in Nematic Liquid Crystals for Applications in Switchable Plasmonic Color Filters and E-Polarizers. <i>ACS Nano</i> , 2015, 9, 3097-3108.	7.3	137
103	Hierarchy of Periodic Patterns in the Twist-bend Nematic Phase of Mesogenic Dimers. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 611, 180-185.	0.4	19
104	Experimental realization of crossover in shape and director field of nematic tactoids. <i>Physical Review E</i> , 2015, 91, 042507.	0.8	56
105	A tropical insight on the 9th Ibero-American Workshop on Complex Fluids and the 2nd Italian-Brazilian Workshop on Liquid Crystals. <i>Liquid Crystals Today</i> , 2015, 24, 60-62.	2.3	0
106	Stick-slip motion of surface point defects prompted by magnetically controlled colloidal-particle dynamics in nematic liquid crystals. <i>Physical Review E</i> , 2015, 91, 052503.	0.8	12
107	Linked topological colloids in a nematic host. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4546-4551.	3.3	32
108	Geometry-guided colloidal interactions and self-tiling of elastic dipoles formed by truncated pyramid particles in liquid crystals. <i>Physical Review E</i> , 2015, 91, 040501.	0.8	40

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109	Optical patterning of magnetic domains and defects in ferromagnetic liquid crystal colloids. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	27
110	Large range electrically-induced reflection notch tuning in polymer stabilized cholesteric liquid crystals. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8788-8793.	2.7	45
111	Colloidal spirals in nematic liquid crystals. <i>Soft Matter</i> , 2015, 11, 8758-8767.	1.2	12
112	Plasmon-Exciton Interactions Probed Using Spatial Coentrapment of Nanoparticles by Topological Singularities. <i>ACS Nano</i> , 2015, 9, 12392-12400.	7.3	17
113	Fluorescence Confocal Polarizing Microscopy of a Fluorescent Bent-Core Liquid Crystal Exhibiting Polarization Splay Modulated (B7) Structures and Defects. <i>ChemPhysChem</i> , 2015, 16, 243-255.	1.0	10
114	Topological Switching and Orbiting Dynamics of Colloidal Spheres Dressed with Chiral Nematic Solitons. <i>Scientific Reports</i> , 2015, 4, 7337.	1.6	24
115	Effect of plasmon-enhancement on photophysics in upconverting nanoparticles. <i>Optics Express</i> , 2014, 22, 11516.	1.7	12
116	Preparation of Nanocomposite Plasmonic Films Made from Cellulose Nanocrystals or Mesoporous Silica Decorated with Unidirectionally Aligned Gold Nanorods. <i>Materials</i> , 2014, 7, 3021-3033.	1.3	39
117	Periodic dynamics, localization metastability, and elastic interaction of colloidal particles with confining surfaces and helicoidal structure of cholesteric liquid crystals. <i>Physical Review E</i> , 2014, 90, 062502.	0.8	8
118	Mutually tangled colloidal knots and induced defect loops in nematic fields. <i>Nature Materials</i> , 2014, 13, 258-263.	13.3	158
119	Topological Polymer Dispersed Liquid Crystals with Bulk Nematic Defect Lines Pinned to Handlebody Surfaces. <i>Physical Review Letters</i> , 2014, 112, 197801.	2.9	33
120	Plasmon-Enhanced Energy Transfer for Improved Upconversion of Infrared Radiation in Doped-Lanthanide Nanocrystals. <i>Nano Letters</i> , 2014, 14, 101-106.	4.5	194
121	Splitting, linking, knotting, and solitonic escape of topological defects in nematic drops with handles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16268-16273.	3.3	37
122	Optically and elastically assembled plasmonic nanoantennae for spatially resolved characterization of chemical composition in soft matter systems using surface enhanced spontaneous and stimulated Raman scattering. <i>Journal of Applied Physics</i> , 2014, 116, 063511.	1.1	6
123	Geometrically unrestricted, topologically constrained control of liquid crystal defects using simultaneous holonomic magnetic and holographic optical manipulation. <i>Physical Review E</i> , 2014, 89, 022505.	0.8	16
124	Orientationally Ordered Colloidal Co-Dispersions of Gold Nanorods and Cellulose Nanocrystals. <i>Advanced Materials</i> , 2014, 26, 7178-7184.	11.1	127
125	Magnetically responsive gourd-shaped colloidal particles in cholesteric liquid crystals. <i>Soft Matter</i> , 2014, 10, 6014-6023.	1.2	28
126	Two-dimensional skyrmions and other solitonic structures in confinement-frustrated chiral nematics. <i>Physical Review E</i> , 2014, 90, 012505.	0.8	109

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127	Self-assembly of skyrmion-dressed chiral nematic colloids with tangential anchoring. <i>Physical Review E</i> , 2014, 89, 060502.	0.8	24
128	Towards Template-Assisted Assembly of Nematic Colloids. <i>Physical Review Letters</i> , 2014, 112, 225501.	2.9	46
129	Shape-dependent dispersion and alignment of nonaggregating plasmonic gold nanoparticles in lyotropic and thermotropic liquid crystals. <i>Physical Review E</i> , 2014, 89, 052505.	0.8	33
130	Topological defects in cholesteric liquid crystals induced by monolayer domains with orientational chirality. <i>Soft Matter</i> , 2014, 10, 8163-8170.	1.2	6
131	Electrically and Optically Tunable Plasmonic Guest-Host Liquid Crystals with Long-Range Ordered Nanoparticles. <i>Nano Letters</i> , 2014, 14, 4071-4077.	4.5	163
132	Topography from Topology: Photoinduced Surface Features Generated in Liquid Crystal Polymer Networks. <i>Advanced Materials</i> , 2013, 25, 5880-5885.	11.1	194
133	Rotational and translational diffusion of anisotropic gold nanoparticles in liquid crystals controlled by varying surface anchoring. <i>Physical Review E</i> , 2013, 88, 062507.	0.8	48
134	Topological colloids. <i>Nature</i> , 2013, 493, 200-205.	13.7	276
135	Dispersion and orientation of single-walled carbon nanotubes in a chromonic liquid crystal. <i>Liquid Crystals</i> , 2013, 40, 1628-1635.	0.9	52
136	Optical generation, templating, and polymerization of three-dimensional arrays of liquid-crystal defects decorated by plasmonic nanoparticles. <i>Physical Review E</i> , 2013, 87, .	0.8	58
137	Active Shape-Morphing Elastomeric Colloids in Short-Pitch Cholesteric Liquid Crystals. <i>Physical Review Letters</i> , 2013, 110, 187802.	2.9	42
138	Generating the Hopf Fibration Experimentally in Nematic Liquid Crystals. <i>Physical Review Letters</i> , 2013, 110, 237801.	2.9	97
139	Optical manipulation of self-aligned graphene flakes in liquid crystals. <i>Optics Express</i> , 2013, 21, 1324.	1.7	39
140	Imaging of director fields in liquid crystals using stimulated Raman scattering microscopy. <i>Optics Express</i> , 2013, 21, 12129.	1.7	11
141	Fundamentals of Condensed Matter and Crystalline Physics: An Introduction for Students of Physics and Materials Science Fundamentals of Condensed Matter and Crystalline Physics: An Introduction for Students of Physics and Materials Science, David L. Sidebottom, Cambridge U. Press, New York, 2012, \$75.00 (398 pp.), ISBN 978-1-107-01710-8. <i>Physics Today</i> , 2013, 66, 49-49.	0.3	0
142	Three-dimensional textures and defects of soft material layering revealed by thermal sublimation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19263-19267.	3.3	27
143	Nematic liquid crystal boojums with handles on colloidal handlebodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9231-9236.	3.3	67
144	Liquid-Crystal Polymers: Topography from Topology: Photoinduced Surface Features Generated in Liquid Crystal Polymer Networks (Adv. Mater. 41/2013). <i>Advanced Materials</i> , 2013, 25, 5830-5830.	11.1	0

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145	Unconventional structure-assisted optical manipulation of high-index nanowires in liquid crystals. <i>Optics Express</i> , 2012, 20, 7741.	1.7	12
146	Optically generated reconfigurable photonic structures of elastic quasiparticles in frustrated cholesteric liquid crystals. <i>Optics Express</i> , 2012, 20, 6870.	1.7	30
147	Optical generation of crystalline, quasicrystalline, and arbitrary arrays of torons in confined cholesteric liquid crystals for patterning of optical vortices in laser beams. <i>Physical Review E</i> , 2012, 86, 021703.	0.8	77
148	Plasmonic Complex Fluids of Nematiclike and Helicoidal Self-Assemblies of Gold Nanorods with a Negative Order Parameter. <i>Physical Review Letters</i> , 2012, 109, 088301.	2.9	65
149	Three-dimensional complex-shaped photopolymerized microparticles at liquid crystal interfaces. <i>Soft Matter</i> , 2012, 8, 2432.	1.2	21
150	Laser-directed hierarchical assembly of liquid crystal defects and control of optical phase singularities. <i>Scientific Reports</i> , 2012, 2, 414.	1.6	49
151	Nonlinear Photoluminescence Imaging of Isotropic and Liquid Crystalline Dispersions of Graphene Oxide. <i>ACS Nano</i> , 2012, 6, 8060-8066.	7.3	38
152	Optical manipulation of shape-morphing elastomeric liquid crystal microparticles doped with gold nanocrystals. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	76
153	Shape-Dependent Oriented Trapping and Scaffolding of Plasmonic Nanoparticles by Topological Defects for Self-Assembly of Colloidal Dimers in Liquid Crystals. <i>Nano Letters</i> , 2012, 12, 955-963.	4.5	130
154	Alignment of the columnar liquid crystal phase of nano-DNA by confinement in channels. <i>Liquid Crystals</i> , 2012, 39, 571-577.	0.9	20
155	Elastic interactions between colloidal microspheres and elongated convex and concave nanoprisms in nematic liquid crystals. <i>Soft Matter</i> , 2012, 8, 8729.	1.2	26
156	Reconfigurable interactions and three-dimensional patterning of colloidal particles and defects in lamellar soft media. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4744-4749.	3.3	62
157	Alignment of high-aspect ratio colloidal gold nanoplatelets in nematic liquid crystals. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	45
158	Templating of Self-Alignment Patterns of Anisotropic Gold Nanoparticles on Ordered SWNT Macrostructures. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 3718-3724.	4.0	22
159	Deft tricks with liquid crystals. <i>Nature</i> , 2011, 478, 330-331.	13.7	7
160	Self-Alignment of Dye Molecules in Micelles and Lamellae for Three-Dimensional Imaging of Lyotropic Liquid Crystals. <i>Langmuir</i> , 2011, 27, 7446-7452.	1.6	19
161	Homeotropic Alignment and Director Structures in Thin Films of Triphenylamine-Based Discotic Liquid Crystals Controlled by Supporting Nanostructured Substrates and Surface Confinement. <i>Journal of Physical Chemistry B</i> , 2011, 115, 609-617.	1.2	38
162	Optical manipulation of colloids and defect structures in anisotropic liquid crystal fluids. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 044001.	1.0	65

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163	Towards Reconfigurable Optical Metamaterials: Colloidal Nanoparticle Self-Assembly and Self-Alignment in Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 545, 3/[1227]-21/[1245].	0.4	63
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