Nicholas Abbott

List of Publications by Year
in descending order

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368 papers	19,861 citations	11235 73 h-index	21843 118 g-index
376 all docs	376 docs citations	376 times ranked	13795 citing authors

#	Article	IF	Citations
1	Strongly Chiral Liquid Crystals in Nanoemulsions. Small, 2022, , 2105835.	5.2	4
2	Stimuliâ€Responsive Liquid Crystal Printheads for Spatial and Temporal Control of Polymerization. Advanced Materials, 2022, , 2106535.	11.1	8
3	Surfaces Decorated with Enantiomorphically Pure Polymer Nanohelices via Hierarchical Chirality Transfer across Multiple Length Scales. Advanced Materials, 2022, 34, e2108386.	11.1	9
4	Programming Solitons in Liquid Crystals Using Surface Chemistry. Langmuir, 2022, 38, 3575-3584.	1.6	5
5	Interfacial Polyelectrolyteâ€“Surfactant Complexes Regulate Escape of Microdroplets Elastically Trapped in Thermotropic Liquid Crystals. Langmuir, 2022, 38, 332-342.	1.6	2
6	Sharing of Strain Between Nanofiber Forests and Liquid Crystals Leads to Programmable Responses to Electric Fields. Advanced Functional Materials, 2022, 32, .	7.8	5
7	Formation of versus Recruitment to RNA-Rich Condensates: Controlling Effects Exerted by Peptide Side Chain Identity. Journal of the American Chemical Society, 2022, 144, 10386-10395.	6.6	11
8	Influence of multifluorophenyloxy terminus on the mesomorphism of the alkoxy and alkyl cyanobiphenyl compounds in search of new ambient nematic liquid crystals and mixtures. Liquid Crystals, 2021, 48, 672-688.	0.9	8
9	Active motion of multiphase oil droplets: emergent dynamics of squirmers with evolving internal structure. Soft Matter, 2021, 17, 2985-2993.	1.2	24
10	Designing chemically selective liquid crystalline materials that respond to oxidizing gases. Journal of Materials Chemistry C, 2021, 9, 6507-6517.	2.7	9
11	Coupling the chemical reactivity of bimetallic surfaces to the orientations of liquid crystals. Materials Horizons, 2021, 8, 2050-2056.	6.4	8
12	Using machine learning and liquid crystal droplets to identify and quantify endotoxins from different bacterial species. Analyst, The, 2021, 146, 1224-1233.	1.7	26
13	Sculpting the shapes of giant unilamellar vesicles using isotropicâ€“nematicâ€“isotropic phase cycles. Soft Matter, 2021, 17, 9078-9086.	1.2	2
14	Design of Chemoresponsive Soft Matter Using Hydrogen-Bonded Liquid Crystals. Materials, 2021, 14, 1055.	1.3	4
15	Cationic Side Chain Identity Directs the Hydrophobically Driven Self-Assembly of Amphiphilic Î²-Peptides in Aqueous Solution. Langmuir, 2021, 37, 3288-3298.	1.6	16
16	Changing the Wound: Covalent Immobilization of the Epidermal Growth Factor. ACS Biomaterials Science and Engineering, 2021, 7, 2649-2660.	2.6	2
17	Using Liquid Crystals for In Situ Optical Mapping of Interfacial Mobility and Surfactant Concentrations at Flowing Aqueousâ€“Oil Interfaces. Langmuir, 2021, 37, 5810-5822.	1.6	10
18	Using Liquid Crystals to Probe the Organization of Helical Polypeptide Brushes Induced by Solvent Pretreatment. Macromolecules, 2021, 54, 7786-7795.	2.2	4

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19	Structured Liquid Droplets as Chemical Sensors that Function Inside Living Cells. ACS Applied Materials & Interfaces, 2021, 13, 42502-42512.	4.0	11
20	Synthesis and properties of fluorine tail-terminated cyanobiphenyls and terphenyls for chemoresponsive liquid crystals. Liquid Crystals, 2020, 47, 3-16.	0.9	17
21	New room temperature nematogens by cyano tail termination of alkoxy and alkylcyanobiphenyls and their anchoring behavior on metal salt-decorated surface. Liquid Crystals, 2020, 47, 540-556.	0.9	10
22	A New Strategy for Reporting Specific Protein Binding Events at Aqueousâ€“Liquid Crystal Interfaces in the Presence of Non-Specific Proteins. ACS Applied Materials & Interfaces, 2020, 12, 7869-7878.	4.0	19
23	Steering Active Emulsions with Liquid Crystals. Langmuir, 2020, 36, 6948-6956.	1.6	14
24	Biomolecular Binding at Aqueous Interfaces of Langmuir Monolayers of Bioconjugated Amphiphilic Mesogenic Molecules: A Molecular Dynamics Study. Langmuir, 2020, 36, 12281-12287.	1.6	16
25	Dynamic and reversible shape response of red blood cells in synthetic liquid crystals. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26083-26090.	3.3	14
26	Prolate and oblate chiral liquid crystal spheroids. Science Advances, 2020, 6, eaba6728.	4.7	27
27	Areas of opportunity related to design of chemical and biological sensors based on liquid crystals. Liquid Crystals Today, 2020, 29, 24-35.	2.3	30
28	Structural and Optical Response of Polymer-Stabilized Blue Phase Liquid Crystal Films to Volatile Organic Compounds. ACS Applied Materials & Interfaces, 2020, 12, 42099-42108.	4.0	24
29	Liquid Crystal Emulsions That Intercept and Report on Bacterial Quorum Sensing. ACS Applied Materials & Interfaces, 2020, 12, 29056-29065.	4.0	13
30	Programming van der Waals interactions with complex symmetries into microparticles using liquid crystallinity. Science Advances, 2020, 6, eabb1327.	4.7	7
31	Convolutional Network Analysis of Optical Micrographs for Liquid Crystal Sensors. Journal of Physical Chemistry C, 2020, 124, 15152-15161.	1.5	39
32	Binding of Organophosphorus Nerve Agents and Their Simulants to Metal Salts. ACS Applied Materials & Interfaces, 2020, 12, 30941-30953.	4.0	8
33	Influence of immobilized cations on the thermodynamic signature of hydrophobic interactions at chemically heterogeneous surfaces. Molecular Systems Design and Engineering, 2020, 5, 835-846.	1.7	4
34	Self-Assembly of Macromolecules Within Single Topological Defects of Nematic Solvents. Chemistry of Materials, 2020, 32, 6753-6764.	3.2	5
35	Control of the Folding Dynamics of Selfâ€Reconfiguring Magnetic Microbots Using Liquid Crystallinity. Advanced Intelligent Systems, 2020, 2, 1900114.	3.3	17
36	Optical â€œBlinkingâ€•Triggered by Collisions of Single Supramolecular Assemblies of Amphiphilic Molecules with Interfaces of Liquid Crystals. Journal of the American Chemical Society, 2020, 142, 6139-6148.	6.6	20

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37	Cuboidal liquid crystal phases under multiaxial geometrical frustration. Soft Matter, 2020, 16, 870-880.	1.2	8
38	BREWing better broader impacts. MRS Bulletin, 2020, 45, 84-86.	1.7	0
39	Bacterial Quorum Sensing Signals Self-Assemble in Aqueous Media to Form Micelles and Vesicles: An Integrated Experimental and Molecular Dynamics Study. Journal of Physical Chemistry B, 2020, 124, 3616-3628.	1.2	12
40	Synthesis and properties of hydroxy tail-terminated cyanobiphenyl liquid crystals. Liquid Crystals, 2019, 46, 397-407.	0.9	22
41	Soft matter from liquid crystals. Soft Matter, 2019, 15, 6913-6929.	1.2	53
42	Toluene-induced phase transitions in blue phase liquid crystals. Liquid Crystals, 2019, 46, 1925-1936.	0.9	18
43	Amplification of Elementary Surface Reaction Steps on Transition Metal Surfaces Using Liquid Crystals: Dissociative Adsorption and Dehydrogenation. Journal of the American Chemical Society, 2019, 141, 16003-16013.	6.6	18
44	Understanding lipopolysaccharide aggregation and its influence on activation of Factor C. Journal of Colloid and Interface Science, 2019, 552, 540-553.	5.0	8
45	Thermally reconfigurable Janus droplets with nematic liquid crystalline and isotropic perfluorocarbon oil compartments. Soft Matter, 2019, 15, 2580-2590.	1.2	19
46	Reconfigurable Multicompartment Emulsion Drops Formed by Nematic Liquid Crystals and Immiscible Perfluorocarbon Oils. Langmuir, 2019, 35, 16312-16323.	1.6	12
47	Retention of Coiled-Coil Dimer Formation in the Absence of Ion Pairing at Positions Flanking the Hydrophobic Core. Biochemistry, 2019, 58, 4821-4826.	1.2	9
48	Polymeric Films Containing Sodium Chlorite That Release Disinfectant Gas upon Activation with UV Light. Advanced Functional Materials, 2019, 29, 1804851.	7.8	11
49	Molecular Order Affects Interfacial Water Structure and Temperature-Dependent Hydrophobic Interactions between Nonpolar Self-Assembled Monolayers. Langmuir, 2019, 35, 2078-2088.	1.6	38
50	Design Principles for Triggerable Polymeric Amphiphiles with Mesogenic Side Chains for Multiscale Responses with Liquid Crystals. Macromolecules, 2018, 51, 1978-1985.	2.2	11
51	Responsive superabsorbent hydrogels via photopolymerization in lyotropic liquid crystal templates. Polymer, 2018, 142, 119-126.	1.8	23
52	Multiâ€Scale Responses of Liquid Crystals Triggered by Interfacial Assemblies of Cleavable Homopolymers. ChemPhysChem, 2018, 19, 2037-2045.	1.0	16
53	Computational Chemistryâ€Guided Design of Selective Chemoresponsive Liquid Crystals Using Pyridine and Pyrimidine Functional Groups. Advanced Functional Materials, 2018, 28, 1703581.	7.8	27
54	Chiral interactions in liquid crystals. Nature Materials, 2018, 17, 14-15.	13.3	13

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55	Tough aliphatic-aromatic copolyester and chicken egg white flexible biopolymer blend with bacteriostatic effects. Food Packaging and Shelf Life, 2018, 15, 9-16.	3.3	12
56	The role of anions in adsorbate-induced anchoring transitions of liquid crystals on surfaces with discrete cation binding sites. Soft Matter, 2018, 14, 797-805.	1.2	27
57	Using a Tabletop Scanning Electron Microscope as an Outreach Tool to Engage the Public With Cutting-edge Research. Microscopy and Microanalysis, 2018, 24, 2344-2345.	0.2	0
58	Templated nanofiber synthesis via chemical vapor polymerization into liquid crystalline films. Science, 2018, 362, 804-808.	6.0	57
59	Amphiphile-Induced Phase Transition of Liquid Crystals at Aqueous Interfaces. ACS Applied Materials & Interfaces, 2018, 10, 37618-37624.	4.0	23
60	Machine Learning Algorithms for Liquid Crystal-Based Sensors. ACS Sensors, 2018, 3, 2237-2245.	4.0	44
61	Liquid Crystals with Interfacial Ordering that Enhances Responsiveness to Chemical Targets. Advanced Materials, 2018, 30, e1706707.	11.1	43
62	Redoxâ€Triggered Orientational Responses of Liquid Crystals to Chlorine Gas. Angewandte Chemie - International Edition, 2018, 57, 9665-9669.	7.2	39
63	Oligomers as Triggers for Responsive Liquid Crystals. Langmuir, 2018, 34, 10092-10101.	1.6	20
64	Self-reporting and self-regulating liquid crystals. Nature, 2018, 557, 539-544.	13.7	93
65	Phosphorylation status of peptide monolayers modulates hydrogen bonding and orientations of nematic liquid crystals. Liquid Crystals, 2018, 45, 2253-2268.	0.9	2
66	Redoxâ€Triggered Orientational Responses of Liquid Crystals to Chlorine Gas. Angewandte Chemie, 2018, 130, 9813-9817.	1.6	11
67	Design of Chemoresponsive Liquid Crystals through Integration of Computational Chemistry and Experimental Studies. Chemistry of Materials, 2017, 29, 3563-3571.	3.2	33
68	Molecular Structure of Canonical Liquid Crystal Interfaces. Journal of the American Chemical Society, 2017, 139, 3841-3850.	6.6	56
69	Engineered Surface-Immobilized Enzyme that Retains High Levels of Catalytic Activity in Air. Journal of the American Chemical Society, 2017, 139, 2872-2875.	6.6	37
70	Generation of Gaseous ClO₂ from Thin Films of Solid NaClO₂ by Sequential Exposure to Ultraviolet Light and Moisture. ACS Applied Materials & Interfaces, 2017, 9, 16594-16603.	4.0	7
71	Influence of Order within Nonpolar Monolayers on Hydrophobic Interactions. Langmuir, 2017, 33, 4628-4637.	1.6	27
72	Segregation of liquid crystal mixtures in topological defects. Nature Communications, 2017, 8, 15064.	5.8	25

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73	Redox-triggered mixing and demixing of surfactants within assemblies formed in solution and at surfaces. Journal of Colloid and Interface Science, 2017, 502, 122-133.	5.0	10
74	Strain-induced alignment and phase behavior of blue phase liquid crystals confined to thin films. Soft Matter, 2017, 13, 8999-9006.	1.2	18
75	Active Janus Particles at Interfaces of Liquid Crystals. Langmuir, 2017, 33, 10917-10926.	1.6	20
76	Nonadditive Interactions Mediated by Water at Chemically Heterogeneous Surfaces: Nonionic Polar Groups and Hydrophobic Interactions. Journal of the American Chemical Society, 2017, 139, 18536-18544.	6.6	32
77	Patterned surface anchoring of nematic droplets at miscible liquidâ€“liquid interfaces. Soft Matter, 2017, 13, 5714-5723.	1.2	23
78	A Practical Guide to the Preparation of Liquid Crystal-Templated Microparticles. Chemistry of Materials, 2017, 29, 53-61.	3.2	44
79	Controlled deformation of vesicles by flexible structured media. Science Advances, 2016, 2, e1600978.	4.7	16
80	Self-Assembly of Bioconjugated Amphiphilic Mesogens Having Specific Binding Moieties at Aqueousâ€“Liquid Crystal Interfaces. Chemistry of Materials, 2016, 28, 1170-1178.	3.2	37
81	Straining soft colloids in aqueous nematic liquid crystals. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5564-5569.	3.3	17
82	Surface-Controlled Orientational Transitions in Elastically Strained Films of Liquid Crystal That Are Triggered by Vapors of Toluene. ACS Applied Materials & Interfaces, 2016, 8, 13114-13122.	4.0	37
83	Synthesis of Optically Complex, Porous, and Anisometric Polymeric Microparticles by Templating from Liquid Crystalline Droplets. Advanced Functional Materials, 2016, 26, 7343-7351.	7.8	35
84	Species variation and spatial differences in mucin expression from corneal epithelial cells. Experimental Eye Research, 2016, 152, 43-48.	1.2	23
85	Positioning colloids at the surfaces of cholesteric liquid crystal droplets. Soft Matter, 2016, 12, 8781-8789.	1.2	19
86	Interfacial Stacks of Polymeric Nanofilms on Soft Biological Surfaces that Release Multiple Agents. ACS Applied Materials & Interfaces, 2016, 8, 26541-26551.	4.0	5
87	Experimental Insights into the Nanostructure of the Cores of Topological Defects in Liquid Crystals. Physical Review Letters, 2016, 116, 147801.	2.9	66
88	Towards first-principles molecular design of liquid crystal-based chemoresponsive systems. Nature Communications, 2016, 7, 13338.	5.8	34
89	Using Chemoattractants to Lure Bacteria to Contactâ€Killing Surfaces. Angewandte Chemie - International Edition, 2016, 55, 5698-5702.	7.2	17
90	Structural Transitions in Cholesteric Liquid Crystal Droplets. ACS Nano, 2016, 10, 6484-6490.	7.3	66

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91	Using Chemoattractants to Lure Bacteria to Contactâ€Killing Surfaces. Angewandte Chemie, 2016, 128, 5792-5796.	1.6	2
92	Design of Responsive and Active (Soft) Materials Using Liquid Crystals. Annual Review of Chemical and Biomolecular Engineering, 2016, 7, 163-196.	3.3	101
93	Interaction of the Hydrophobic Tip of an Atomic Force Microscope with Oligopeptides Immobilized Using Short and Long Tethers. Langmuir, 2016, 32, 2985-2995.	1.6	12
94	Topological defects in liquid crystals as templates for molecular self-assembly. Nature Materials, 2016, 15, 106-112.	13.3	211
95	Liquid Crystals: Liquid Crystal Interfaces Programmed with Enzyme-Responsive Polymers and Surfactants (Small 43/2015). Small, 2015, 11, 5722-5722.	5.2	1
96	Sensors: Liquid Crystal Enabled Early Stage Detection of Beta Amyloid Formation on Lipid Monolayers (Adv. Funct. Mater. 38/2015). Advanced Functional Materials, 2015, 25, 6147-6147.	7.8	1
97	Galliumâ€Loaded Dissolvable Microfilm Constructs that Provide Sustained Release of Ga³⁺ for Management of Biofilms. Advanced Healthcare Materials, 2015, 4, 2849-2859.	3.9	10
98	Importance of defining experimental conditions in a mouse excisional wound model. Wound Repair and Regeneration, 2015, 23, 251-261.	1.5	26
99	Stimuliâ€Responsive Cubosomes Formed from Blue Phase Liquid Crystals. Advanced Materials, 2015, 27, 6892-6898.	11.1	44
100	Liquid Crystal Interfaces Programmed with Enzymeâ€Responsive Polymers and Surfactants. Small, 2015, 11, 5747-5751.	5.2	21
101	Inhibition of Pseudomonas aeruginosa biofilm formation on wound dressings. Wound Repair and Regeneration, 2015, 23, 842-854.	1.5	21
102	Liquid Crystal Enabled Early Stage Detection of Beta Amyloid Formation on Lipid Monolayers. Advanced Functional Materials, 2015, 25, 6050-6060.	7.8	79
103	Effect of Stratification on Surface Properties of Corneal Epithelial Cells. , 2015, 56, 8340.		31
104	Influence of Self-Assembling Redox Mediators on Charge Transfer at Hydrophobic Electrodes. Langmuir, 2015, 31, 10638-10648.	1.6	7
105	Synthetic Mimics of Bacterial Lipid A Trigger Optical Transitions in Liquid Crystal Microdroplets at Ultralow Picogram-per-Milliliter Concentrations. Langmuir, 2015, 31, 12850-12855.	1.6	25
106	Modulation of hydrophobic interactions by proximally immobilized ions. Nature, 2015, 517, 347-350.	13.7	163
107	Hierarchical Microstructures Formed by Bidisperse Colloidal Suspensions within Colloid-in-Liquid Crystal Gels. ACS Applied Materials & Interfaces, 2015, 7, 7153-7162.	4.0	4
108	Effects of confinement, surface-induced orientations and strain on dynamical behaviors of bacteria in thin liquid crystalline films. Soft Matter, 2015, 11, 6821-6831.	1.2	44

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109	Nanoparticle self-assembly at the interface of liquid crystal droplets. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5297-5302.	3.3	98
110	Dynamic anchoring transitions at aqueousâ€“liquid crystal interfaces induced by specific and non-specific binding of vesicles to proteins. Journal of Colloid and Interface Science, 2015, 449, 452-461.	5.0	12
111	Interfacial ordering of thermotropic liquid crystals triggered by the secondary structures of oligopeptides. Chemical Communications, 2015, 51, 16844-16847.	2.2	31
112	Blue-phase liquid crystal droplets. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13195-13200.	3.3	48
113	Comparison between Free and Immobilized Ion Effects on Hydrophobic Interactions: A Molecular Dynamics Study. Journal of Physical Chemistry B, 2015, 119, 13152-13159.	1.2	18
114	Bacterial transport of colloids in liquid crystalline environments. Soft Matter, 2015, 11, 8404-8408.	1.2	49
115	Covalent Immobilization of Caged Liquid Crystal Microdroplets on Surfaces. ACS Applied Materials & Interfaces, 2015, 7, 26892-26903.	4.0	15
116	An Evolved Mxe GyrA Intein for Enhanced Production of Fusion Proteins. ACS Chemical Biology, 2015, 10, 527-538.	1.6	18
117	PDGF-BB Does Not Accelerate Healing in Diabetic Mice with Splinted Skin Wounds. PLoS ONE, 2014, 9, e104447.	1.1	39
118	Liquid Crystal-Based Sensors for Rapid Analysis of Fatty Acid Contamination in Biodiesel. Molecular Crystals and Liquid Crystals, 2014, 594, 42-54.	0.4	13
119	Reduction in Wound Bioburden using a Silverâ€Loaded Dissolvable Microfilm Construct. Advanced Healthcare Materials, 2014, 3, 916-928.	3.9	29
120	Surface Adsorption in Nonpolarizable Atomic Models. Journal of Chemical Theory and Computation, 2014, 10, 5616-5624.	2.3	4
121	Interfacial Phenomena and the Ocular Surface. Ocular Surface, 2014, 12, 178-201.	2.2	53
122	Influence of the phase state of selfâ€assembling redox mediators on their electrochemical activity. AICHE Journal, 2014, 60, 1381-1392.	1.8	2
123	Liquid crystal droplet-based amplification of microvesicles that are shed by mammalian cells. Analyst, The, 2014, 139, 2386-2396.	1.7	13
124	Liquid Crystals Anchored on Mixed Monolayers of Chiral versus Achiral Molecules: Continuous Change in Orientation as a Function of Enantiomeric Excess. Angewandte Chemie - International Edition, 2014, 53, 8079-8083.	7.2	7
125	Fullâ€thickness splinted skin wound healing models in db/db and heterozygous mice: Implications for wound healing impairment. Wound Repair and Regeneration, 2014, 22, 368-380.	1.5	48
126	Epidermal Growth Factorâ€“Functionalized Polymeric Multilayer Films: Interplay between Spatial Location and Bioavailability of EGF. Journal of Investigative Dermatology, 2014, 134, 1757-1760.	0.3	8

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127	Measuring liquid crystal elastic constants with free energy perturbations. Soft Matter, 2014, 10, 882-893.	1.2	42
128	Dynamic self-assembly of motile bacteria in liquid crystals. Soft Matter, 2014, 10, 88-95.	1.2	106
129	Colloid-in-liquid crystal gels formed via spinodal decomposition. Soft Matter, 2014, 10, 1602.	1.2	25
130	Design of Functional Materials Based on Liquid Crystalline Droplets. Chemistry of Materials, 2014, 26, 496-506.	3.2	130
131	Comparison of the Influence of Humidity and <scp>d</scp>-Mannitol on the Organization of Tetraethylene Glycol-Terminated Self-Assembled Monolayers and Immobilized Antimicrobial Peptides. Langmuir, 2014, 30, 7143-7151.	1.6	5
132	Helical versus All-Trans Conformations of Oligo(ethylene glycol)-Terminated Alkanethiol Self-Assembled Monolayers. Langmuir, 2014, 30, 10263-10269.	1.6	12
133	Surfactant-Induced Ordering and Wetting Transitions of Droplets of Thermotropic Liquid Crystals â€œCagedâ€•Inside Partially Filled Polymeric Capsules. Langmuir, 2014, 30, 14944-14953.	1.6	16
134	Hierarchical organization in liquid crystal-in-liquid crystal emulsions. Soft Matter, 2014, 10, 8627-8634.	1.2	20
135	Reversible Switching of Liquid Crystalline Order Permits Synthesis of Homogeneous Populations of Dipolar Patchy Microparticles. Advanced Functional Materials, 2014, 24, 6219-6226.	7.8	26
136	Organized assemblies of colloids formed at the poles of micrometer-sized droplets of liquid crystal. Soft Matter, 2014, 10, 8821-8828.	1.2	28
137	Using Liquid Crystals to Reveal How Mechanical Anisotropy Changes Interfacial Behaviors of Motile Bacteria. Biophysical Journal, 2014, 107, 255-265.	0.2	61
138	Adsorbate-Induced Anchoring Transitions of Liquid Crystals on Surfaces Presenting Metal Salts with Mixed Anions. ACS Applied Materials & Interfaces, 2014, 6, 2362-2369.	4.0	23
139	Raman Spectroscopy Enables Noninvasive Biochemical Characterization and Identification of the Stage of Healing of a Wound. Analytical Chemistry, 2014, 86, 3764-3772.	3.2	36
140	Liquid Crystals: Colloid-in-Liquid Crystal Gels that Respond to Biomolecular Interactions (Small) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	5.2	0
141	Facile Chemical Functionalization of Proteins through Intein-Linked Yeast Display. Bioconjugate Chemistry, 2013, 24, 1634-1644.	1.8	17
142	Colloidâ€inâ€Liquid Crystal Gels that Respond to Biomolecular Interactions. Small, 2013, 9, 2785-2792.	5.2	18
143	Chemical and biological sensing using liquid crystals. Liquid Crystals Reviews, 2013, 1, 29-51.	1.1	294
144	Analysis of the Internal Configurations of Droplets of Liquid Crystal Using Flow Cytometry. Analytical Chemistry, 2013, 85, 10296-10303.	3.2	41

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145	Nematic-Field-Driven Positioning of Particles in Liquid Crystal Droplets. Physical Review Letters, 2013, 111, 227801.	2.9	50
146	Colloid Science Collides with Liquid Crystals. Science, 2013, 342, 1326-1327.	6.0	7
147	Amplification of the Stereochemistry of Biomolecular Adsorbates by Deracemization of Chiral Domains in Bentâ€Core Liquid Crystals. Advanced Materials, 2013, 25, 245-249.	11.1	31
148	Influence of droplet size, pH and ionic strength on endotoxin-triggered ordering transitions in liquid crystalline droplets. Soft Matter, 2013, 9, 374-382.	1.2	87
149	Dynamics of the chemo-optical response of supported films of nematic liquid crystals. Sensors and Actuators B: Chemical, 2013, 183, 71-80.	4.0	35
150	Introduction to Optical Methods for Characterizing Liquid Crystals at Interfaces. Langmuir, 2013, 29, 3154-3169.	1.6	113
151	Liquid Crystal-Based Emulsions for Synthesis of Spherical and Non-Spherical Particles with Chemical Patches. Journal of the American Chemical Society, 2013, 135, 9972-9975.	6.6	63
152	Redox-Based Control of the Transformation and Activation of siRNA Complexes in Extracellular Environments Using Ferrocenyl Lipids. Journal of the American Chemical Society, 2013, 135, 9111-9120.	6.6	19
153	The use of native chemical functional groups presented by wound beds for the covalent attachment of polymeric microcarriers of bioactive factors. Biomaterials, 2013, 34, 340-352.	5.7	25
154	Liquid Crystal Chemical Sensors That Cells Can Wear. Angewandte Chemie - International Edition, 2013, 52, 14011-14015.	7.2	75
155	Spatial Control of Cell Transfection Using Soluble or Solid-Phase Redox Agents and a Redox-Active Ferrocenyl Lipid. ACS Applied Materials & Interfaces, 2013, 5, 8283-8288.	4.0	14
156	Tryptophan Inhibits Biofilm Formation by Pseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2013, 57, 1921-1925.	1.4	66
157	Antibacterial Efficacy of Silver-Impregnated Polyelectrolyte Multilayers Immobilized on a Biological Dressing in a Murine Wound Infection Model. Annals of Surgery, 2012, 256, 371-377.	2.1	38
158	Improving Liquid-Crystal-Based Biosensing in Aqueous Phases. ACS Applied Materials & Interfaces, 2012, 4, 6884-6890.	4.0	55
159	Microfluidic sensing devices employing in situ-formed liquid crystal thin film for detection of biochemical interactions. Lab on A Chip, 2012, 12, 3746.	3.1	42
160	Imide Photodissociation Investigated by X-ray Absorption Spectroscopy. Journal of Physical Chemistry B, 2012, 116, 7048-7054.	1.2	6
161	Chemical oxidation of a redox-active, ferrocene-containing cationic lipid: Influence on interactions with DNA and characterization in the context of cell transfection. Journal of Colloid and Interface Science, 2012, 387, 56-64.	5.0	15
162	Dimerization of Helical Î²-Peptides in Solution. Biophysical Journal, 2012, 102, 1435-1442.	0.2	5

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163	Liquid Crystalline Materials for Biological Applications. Chemistry of Materials, 2012, 24, 746-758.	3.2	153
164	Influence of Specific Anions on the Orientational Ordering of Thermotropic Liquid Crystals at Aqueous Interfaces. Langmuir, 2012, 28, 12796-12805.	1.6	47
165	Ordering Transitions Triggered by Specific Binding of Vesicles to Protein-Decorated Interfaces of Thermotropic Liquid Crystals. Langmuir, 2012, 28, 6364-6376.	1.6	42
166	Influence of Simple Electrolytes on the Orientational Ordering of Thermotropic Liquid Crystals at Aqueous Interfaces. Langmuir, 2012, 28, 31-36.	1.6	80
167	Liquid-crystal-mediated self-assembly at nanodroplet interfaces. Nature, 2012, 485, 86-89.	13.7	91
168	Liquid Crystal Mediated Interactions Between Nanoparticles in a Nematic Phase. Langmuir, 2012, 28, 6124-6131.	1.6	52
169	Enantiomeric Interactions between Liquid Crystals and Organized Monolayers of Tyrosine-Containing Dipeptides. Journal of the American Chemical Society, 2012, 134, 548-558.	6.6	30
170	Morphological transitions in liquid crystal nanodroplets. Soft Matter, 2012, 8, 8679.	1.2	61
171	The mobilities of micro- and nano-particles at interfaces of nematic liquid crystals. Soft Matter, 2012, 8, 2026.	1.2	17
172	Polymeric multilayers that localize the release of chlorhexidine from biologic wound dressings. Biomaterials, 2012, 33, 6783-6792.	5.7	73
173	Addition of ascorbic acid to the extracellular environment activates lipoplexes of a ferrocenyl lipid and promotes cell transfection. Journal of Controlled Release, 2012, 157, 249-259.	4.8	12
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