

Dick Jan Broer

List of Publications by Year in descending order

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310
papers

18,890
citations

15466

65
h-index

14156

128
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338
all docs

338
docs citations

338
times ranked

10758
citing authors

#	ARTICLE	IF	CITATIONS
1	Versatile homeotropic liquid crystal alignment with tunable functionality prepared by one-step method. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 2290-2297.	5.0	10
2	Photoimprinting of the Helical Organization in Liquid Crystal Networks Using Achiral Monomers and Circularly Polarized Light. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	13
3	Patterned and Collective Motion of Densely Packed Tapered Multiresponsive Liquid Crystal Cilia. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	7
4	Biomimetic Liquid Crystal Cilia and Flagella. <i>Polymers</i> , 2022, 14, 1384.	2.0	3
5	Phototriggered Complex Motion by Programmable Construction of Light-Driven Molecular Motors in Liquid Crystal Networks. <i>Journal of the American Chemical Society</i> , 2022, 144, 6851-6860.	6.6	15
6	Light- and Field-Controlled Diffusion, Ejection, Flow and Collection of Liquid at a Nanoporous Liquid Crystal Membrane. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	5
7	Functional Liquid Crystal Polymer Surfaces with Switchable Topographies. <i>Small Structures</i> , 2021, 2, 2000107.	6.9	14
8	Consequences of Chirality in Directing the Pathway of Cholesteric Helix Inversion of π -Conjugated Polymers by Light. <i>Advanced Materials</i> , 2021, 33, e2005720.	11.1	32
9	Electroconvection in Zwitterion-Doped Nematic Liquid Crystals and Application as Smart Windows. <i>Advanced Optical Materials</i> , 2021, 9, 2001465.	3.6	32
10	Programmed topographical features generated on command in confined electroactive films. <i>Soft Matter</i> , 2021, 17, 7247-7251.	1.2	2
11	Photoswitching between Water-Tolerant Adhesion and Swift Release by Inverting Liquid Crystal Fingerprint Topography. <i>Advanced Science</i> , 2021, 8, 2004051.	5.6	18
12	Translating 2D Director Profile to 3D Topography in a Liquid Crystal Polymer. <i>Advanced Science</i> , 2021, 8, 2004749.	5.6	11
13	'Smart' light-reflective windows based on temperature responsive twisted nematic liquid crystal polymers. <i>Journal of Polymer Science</i> , 2021, 59, 1278-1284.	2.0	14
14	Coupled liquid crystalline oscillators in Huygens TM synchrony. <i>Nature Materials</i> , 2021, 20, 1702-1706.	13.3	44
15	Photoresponsive Helical Motion by Light-Driven Molecular Motors in a Liquid Crystal Network. <i>Angewandte Chemie</i> , 2021, 133, 8332-8338.	1.6	10
16	Photoresponsive Helical Motion by Light-Driven Molecular Motors in a Liquid Crystal Network. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8251-8257.	7.2	49
17	Photopolymerization-enforced stratification in liquid crystal materials. <i>Progress in Polymer Science</i> , 2021, 114, 101365.	11.8	18
18	Nano-Second Laser Interference Photoembossed Microstructures for Enhanced Cell Alignment. <i>Polymers</i> , 2021, 13, 2958.	2.0	2

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19	Combined Light and Electric Response of Topographic Liquid Crystal Network Surfaces. <i>Advanced Functional Materials</i> , 2020, 30, 1901681.	7.8	28
20	Static and Dynamic Control of Fingerprint Landscapes of Liquid Crystal Network Coatings. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 5265-5273.	4.0	9
21	On the History of Reactive Mesogens: Interview with Dirk J. Broer. <i>Advanced Materials</i> , 2020, 32, e1905144.	11.1	14
22	Design and applications of light responsive liquid crystal polymer thin films. <i>Applied Physics Reviews</i> , 2020, 7, .	5.5	44
23	Localized Liquid Secretion from a Photopatterned Liquid-Crystal Polymer Skin. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4071-4077.	2.0	10
24	Magnetic Resonance Monitoring of Opaque Temperature-Sensitive Polymeric Scaffolds. <i>ACS Applied Bio Materials</i> , 2020, 3, 7639-7645.	2.3	0
25	Four-Dimensional Printed Liquid Crystalline Elastomer Actuators with Fast Photoinduced Mechanical Response toward Light-Driven Robotic Functions. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44195-44204.	4.0	77
26	Direct Ink Writing of a Light-Responsive Underwater Liquid Crystal Actuator with Atypical Temperature-Dependent Shape Changes. <i>Advanced Functional Materials</i> , 2020, 30, 2005560.	7.8	51
27	Light Tracking and Light Guiding Fiber Arrays by Adjusting the Location of Photoresponsive Azobenzene in Liquid Crystal Networks. <i>Advanced Optical Materials</i> , 2020, 8, 2000732.	3.6	35
28	Artificial Organic Skin Wets Its Surface by Field-Induced Liquid Secretion. <i>Matter</i> , 2020, 3, 782-793.	5.0	23
29	Electroplasticization of Liquid Crystal Polymer Networks. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19927-19937.	4.0	15
30	Pavlovian Polymers. <i>Matter</i> , 2020, 2, 19-20.	5.0	1
31	Morphing of liquid crystal surfaces by emergent collectivity. <i>Nature Communications</i> , 2019, 10, 3501.	5.8	19
32	Temperature-Responsive, Multicolor-Changing Photonic Polymers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28172-28179.	4.0	70
33	Travelling waves on photo-switchable patterned liquid crystal polymer films directed by rotating polarized light. <i>Soft Matter</i> , 2019, 15, 8040-8050.	1.2	12
34	Cholesteric Flakes in Motion Driven by the Elastic Force from Nematic Liquid Crystals. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40916-40922.	4.0	6
35	Oscillating Surfaces Fueled by a Continuous AC Electric Field. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901292.	1.9	9
36	Unravelling the photothermal and photomechanical contributions to actuation of azobenzene-doped liquid crystal polymers in air and water. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13502-13509.	2.7	78

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37	A self-sustained soft actuator able to rock and roll. <i>Chemical Communications</i> , 2019, 55, 11029-11032.	2.2	28
38	Temperature-Responsive Polymer Wave Plates as Tunable Polarization Converters. <i>Advanced Optical Materials</i> , 2019, 7, 1901103.	3.6	9
39	3D Helix Engineering in Chiral Photonic Materials. <i>Advanced Materials</i> , 2019, 31, e1903120.	11.1	64
40	Light-regulated molecular diffusion in a liquid crystal network. <i>Soft Matter</i> , 2019, 15, 4737-4742.	1.2	6
41	Temperature- and Light-Regulated Gas Transport in a Liquid Crystal Polymer Network. <i>Advanced Functional Materials</i> , 2019, 29, 1900857.	7.8	12
42	Patterned Full-Color Reflective Coatings Based on Photonic Cholesteric Liquid-Crystalline Particles. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14376-14382.	4.0	42
43	Light-Driven Electrohydrodynamic Instabilities in Liquid Crystals. <i>Advanced Functional Materials</i> , 2018, 28, 1707436.	7.8	35
44	Liquid crystal elastomer coatings with programmed response of surface profile. <i>Nature Communications</i> , 2018, 9, 456.	5.8	114
45	Photoresponsive Sponge-Like Coating for On-Demand Liquid Release. <i>Advanced Functional Materials</i> , 2018, 28, 1705942.	7.8	50
46	Oscillating Chiral-Nematic Fingerprints Wipe Away Dust. <i>Advanced Materials</i> , 2018, 30, 1704970.	11.1	80
47	Easily Processable and Programmable Responsive Semi-Interpenetrating Liquid Crystalline Polymer Network Coatings with Changing Reflectivities and Surface Topographies. <i>Advanced Functional Materials</i> , 2018, 28, 1704756.	7.8	63
48	Re- and Preconfigurable Multistable Visible Light Responsive Surface Topographies. <i>Small</i> , 2018, 14, e1803274.	5.2	28
49	Self-sustained actuation from heat dissipation in liquid crystal polymer networks. <i>Journal of Polymer Science Part A</i> , 2018, 56, 1331-1336.	2.5	33
50	4D Printed Actuators with Soft-Robotic Functions. <i>Macromolecular Rapid Communications</i> , 2018, 39, 1700710.	2.0	268
51	Compliance-Mediated Topographic Oscillation of Polarized Light Triggered Liquid Crystal Coating. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800810.	1.9	10
52	Oscillatory dynamic surface structures in patterned liquid crystal network coatings. , 2018, , .		1
53	Electric field switched surface topography of fingerprint liquid-crystal network polymer coating. , 2018, , .		0
54	Mastering the Photothermal Effect in Liquid Crystal Networks: A General Approach for Self-Sustained Mechanical Oscillators. <i>Advanced Materials</i> , 2017, 29, 1606712.	11.1	191

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55	Photoinduced Plasticity in Cross-Linked Liquid Crystalline Networks. <i>Advanced Materials</i> , 2017, 29, 1606509.	11.1	103
56	Morphing dynamics in light-triggered LC polymers (Conference Presentation). , 2017, , .		0
57	Reactive oligo(dimethylsiloxane) mesogens and their nanostructured thin films. <i>Soft Matter</i> , 2017, 13, 4357-4362.	1.2	4
58	Patterned oscillating topographical changes in photoresponsive polymer coatings. <i>Soft Matter</i> , 2017, 13, 4321-4327.	1.2	27
59	A Rewritable, Reprogrammable, Dual Light-Responsive Polymer Actuator. <i>Angewandte Chemie</i> , 2017, 129, 13621-13624.	1.6	19
60	A Rewritable, Reprogrammable, Dual Light-Responsive Polymer Actuator. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13436-13439.	7.2	127
61	Preparation of Liquid Crystal Networks for Macroscopic Oscillatory Motion Induced by Light. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	5
62	On the Dimensional Control of 2D Hybrid Nanomaterials. <i>Chemistry - A European Journal</i> , 2017, 23, 12534-12541.	1.7	4
63	Protruding organic surfaces triggered by in-plane electric fields. <i>Nature Communications</i> , 2017, 8, 1526.	5.8	53
64	A four-blade light-driven plastic mill based on hydrazone liquid-crystal networks. <i>Tetrahedron</i> , 2017, 73, 4963-4967.	1.0	90
65	Fabrication and Postmodification of Nanoporous Liquid Crystalline Networks via Dynamic Covalent Chemistry. <i>Chemistry of Materials</i> , 2017, 29, 6601-6605.	3.2	22
66	Making waves in a photoactive polymer film. <i>Nature</i> , 2017, 546, 632-636.	13.7	738
67	Light-Triggered Formation of Surface Topographies in Azo Polymers. <i>Crystals</i> , 2017, 7, 231.	1.0	32
68	Forming Spacers in Situ by Photolithography to Mechanically Stabilize Electrofluidic-Based Switchable Optical Elements. <i>Materials</i> , 2016, 9, 250.	1.3	8
69	Sub-5 nm Patterning by Directed Self-Assembly of Oligo(Dimethylsiloxane) Liquid Crystal Thin Films. <i>Advanced Materials</i> , 2016, 28, 10068-10072.	11.1	64
70	Liquid Crystal Polymer Membranes. , 2016, , 1103-1104.		0
71	A chaotic self-oscillating sunlight-driven polymer actuator. <i>Nature Communications</i> , 2016, 7, 11975.	5.8	329
72	Polarization-Selective Patterning in an Anisotropic Smectic B Film. <i>Advanced Optical Materials</i> , 2016, 4, 677-681.	3.6	3

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73	Nanoporous polymer particles made by suspension polymerization: spontaneous symmetry breaking in hydrogen bonded smectic liquid crystalline droplets and high adsorption characteristics. <i>Polymer Chemistry</i> , 2016, 7, 4712-4716.	1.9	23
74	Photoresponsive Fiber Array: Toward Mimicking the Collective Motion of Cilia for Transport Applications. <i>Advanced Functional Materials</i> , 2016, 26, 5322-5327.	7.8	116
75	Regulating the modulus of a chiral liquid crystal polymer network by light. <i>Soft Matter</i> , 2016, 12, 3196-3201.	1.2	68
76	Reconfiguring Nanocomposite Liquid Crystal Polymer Films with Visible Light. <i>Macromolecules</i> , 2016, 49, 1575-1581.	2.2	55
77	Photoresponsive Nanoporous Smectic Liquid Crystalline Polymer Networks: Changing the Number of Binding Sites and Pore Dimensions in Polymer Adsorbents by Light. <i>Macromolecules</i> , 2015, 48, 4073-4080.	2.2	29
78	Special dispersion chiral nematic reflectors for luminescent solar concentrators. , 2015, , .		2
79	Enhanced lithographic resolution using longitudinal polarization state of light. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , 2015, 14, 043509.	1.0	3
80	New insights into photoactivated volume generation boost surface morphing in liquid crystal coatings. <i>Nature Communications</i> , 2015, 6, 8334.	5.8	123
81	Surface dynamics and mechanics in liquid crystal polymer coatings. <i>Proceedings of SPIE</i> , 2015, , .	0.8	2
82	Stimuli-Responsive Materials Based on Interpenetrating Polymer Liquid Crystal Hydrogels. <i>Advanced Functional Materials</i> , 2015, 25, 3314-3320.	7.8	132
83	Reverse switching of surface roughness in a self-organized polydomain liquid crystal coating. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3880-3885.	3.3	78
84	Water-responsive dual-coloured photonic polymer coatings based on cholesteric liquid crystals. <i>RSC Advances</i> , 2015, 5, 94650-94653.	1.7	39
85	Thermoresponsive scattering coating for smart white LEDs. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
86	Programmable and adaptive mechanics with liquid crystal polymer networks and elastomers. <i>Nature Materials</i> , 2015, 14, 1087-1098.	13.3	1,250
87	Liquid Crystal Polymer Membranes. , 2015, , 1-3.		1
88	Polarization-selective polymerization in a photo-crosslinking monomer film. <i>RSC Advances</i> , 2014, 4, 62499-62504.	1.7	9
89	Thermoresponsive scattering coating for smart white LEDs. <i>Optics Express</i> , 2014, 22, A1868.	1.7	5
90	Selective Adsorption: Responsive Nanoporous Smectic Liquid Crystal Polymer Networks as Efficient and Selective Adsorbents (<i>Adv. Funct. Mater.</i> 32/2014). <i>Advanced Functional Materials</i> , 2014, 24, 5022-5022.	7.8	1

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91	Responsive Nanoporous Smectic Liquid Crystal Polymer Networks as Efficient and Selective Adsorbents. <i>Advanced Functional Materials</i> , 2014, 24, 5045-5051.	7.8	102
92	Optical and topographic changes in water-responsive patterned cholesteric liquid crystalline polymer coatings. <i>Proceedings of SPIE</i> , 2014, , .	0.8	3
93	Self-assembled Dynamic 3D Fingerprints in Liquid-Crystal Coatings Towards Controllable Friction and Adhesion. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4542-4546.	7.2	139
94	An Optical Sensor for Volatile Amines Based on an Inkjet-Printed, Hydrogen-Bonded, Cholesteric Liquid Crystalline Film. <i>Advanced Optical Materials</i> , 2014, 2, 459-464.	3.6	60
95	Liquid Crystal Polymer Networks: Preparation, Properties, and Applications of Films with Patterned Molecular Alignment. <i>Langmuir</i> , 2014, 30, 13499-13509.	1.6	188
96	Stimuli-responsive photonic polymer coatings. <i>Chemical Communications</i> , 2014, 50, 15839-15848.	2.2	119
97	Light controlled friction at a liquid crystal polymer coating with switchable patterning. <i>Soft Matter</i> , 2014, 10, 7952-7958.	1.2	58
98	Programmed morphing of liquid crystal networks. <i>Polymer</i> , 2014, 55, 5885-5896.	1.8	119
99	Photoswitchable Ratchet Surface Topographies Based on Self-Protonating Spiropyran-NIPAAm Hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7268-7274.	4.0	64
100	Humidity-Responsive Liquid Crystalline Polymer Actuators with an Asymmetry in the Molecular Trigger That Bend, Fold, and Curl. <i>Journal of the American Chemical Society</i> , 2014, 136, 10585-10588.	6.6	280
101	A new view on displays. <i>Nature</i> , 2014, 511, 159-160.	13.7	4
102	Accordion-Like Actuators of Multiple 3D Patterned Liquid Crystal Polymer Films. <i>Advanced Functional Materials</i> , 2014, 24, 1251-1258.	7.8	206
103	Anisotropic light emission from aligned luminophores. <i>EPJ Applied Physics</i> , 2014, 67, 10201.	0.3	19
104	Frontispiece: Self-assembled Dynamic 3D Fingerprints in Liquid-Crystal Coatings Towards Controllable Friction and Adhesion. <i>Angewandte Chemie - International Edition</i> , 2014, 53, n/a-n/a.	7.2	1
105	Frontispiz: Self-assembled Dynamic 3D Fingerprints in Liquid-Crystal Coatings Towards Controllable Friction and Adhesion. <i>Angewandte Chemie</i> , 2014, 126, n/a-n/a.	1.6	0
106	Patterned Silver Nanoparticles embedded in a Nanoporous Smectic Liquid Crystalline Polymer Network. <i>Journal of the American Chemical Society</i> , 2013, 135, 10922-10925.	6.6	38
107	New Approach toward Reflective Films and Fibers Using Cholesteric Liquid-Crystal Coatings. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7117-7121.	4.0	27
108	A real time optical strain sensor based on a cholesteric liquid crystal network. <i>RSC Advances</i> , 2013, 3, 18794.	1.7	38

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109	Manufacturing of Surface Relief Structures in Moving Substrates Using Photoembossing and Pulsed Interference Holography. <i>Macromolecular Materials and Engineering</i> , 2013, 298, 33-37.	1.7	10
110	Single-composition three-dimensionally morphing hydrogels. <i>Soft Matter</i> , 2013, 9, 588-596.	1.2	27
111	Using Lenses to Improve the Output of a Patterned Luminescent Solar Concentrator. <i>Advanced Energy Materials</i> , 2013, 3, 337-341.	10.2	12
112	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
113	(Photo-)Thermally Induced Formation of Dynamic Surface Topographies in Polymer Hydrogel Networks. <i>Langmuir</i> , 2013, 29, 5622-5629.	1.6	32
114	Influence of Solid-State Microstructure on the Electronic Performance of 5,11-Bis(triethylsilylethynyl) Anthradithiophene. <i>Chemistry of Materials</i> , 2013, 25, 1823-1828.	3.2	21
115	Anisotropic wetting and de-wetting of drops on substrates patterned with polygonal posts. <i>Soft Matter</i> , 2013, 9, 674-683.	1.2	37
116	CHAPTER 7. Light-actuated Artificial Cilia Based on Liquid Crystal Networks. <i>RSC Nanoscience and Nanotechnology</i> , 2013, , 142-161.	0.2	0
117	Anisotropic light emissions in luminescent solar concentrators – isotropic systems. <i>Optics Express</i> , 2013, 21, A485.	1.7	20
118	Photoswitchable Hydrogel Surface Topographies by Polymerisation-Induced Diffusion. <i>Chemistry - A European Journal</i> , 2013, 19, 10922-10927.	1.7	44
119	Liquid crystal polymer networks: switchable surface topographies. <i>Liquid Crystals Reviews</i> , 2013, 1, 20-28.	1.1	52
120	Nano-textured polymers for future architectural needs. <i>Journal of Facade Design and Engineering</i> , 2013, 1, 97-104.	0.1	6
121	Engineered complex molecular order in liquid crystals towards unusual optics and responsive mechanics. , 2013, , .		0
122	Progress in phosphors and filters for luminescent solar concentrators. <i>Optics Express</i> , 2012, 20, A395.	1.7	71
123	Increased efficiency of luminescent solar concentrators after application of organic wavelength selective mirrors. <i>Optics Express</i> , 2012, 20, A655.	1.7	39
124	Light-Induced Formation of Dynamic and Permanent Surface Topologies in Chiral Nematic Polymer Networks. <i>Macromolecules</i> , 2012, 45, 8005-8012.	2.2	101
125	Engineering of Complex Order and the Macroscopic Deformation of Liquid Crystal Polymer Networks. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12469-12472.	7.2	297
126	Surface structuring of bi-component fibres with photoembossing. <i>RSC Advances</i> , 2012, 2, 9964.	1.7	2

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127	Two-dimensional pH-responsive printable smectic hydrogels. <i>Chemical Communications</i> , 2012, 48, 4555.	2.2	32
128	Discrimination of Alcohol Molecules Using Hydrogen-Bridged Cholesteric Polymer Networks. <i>Macromolecules</i> , 2012, 45, 4550-4555.	2.2	39
129	Programmable polymer light emitting transistors with ferroelectric polarization-enhanced channel current and light emission. <i>Organic Electronics</i> , 2012, 13, 1742-1749.	1.4	3
130	Electric Field Confinement Effect on Charge Transport in Organic Field-Effect Transistors. <i>Physical Review Letters</i> , 2012, 108, 066601.	2.9	34
131	Organic wavelength selective mirrors for luminescent solar concentrators. , 2012, , .		3
132	Photo-responsive surface topology in chiral nematic media. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
133	Irreversible visual sensing of humidity using a cholesteric liquid crystal. <i>Chemical Communications</i> , 2012, 48, 4579.	2.2	63
134	Alcohol-Responsive, Hydrogen-Bonded, Cholesteric Liquid-Crystal Networks. <i>Advanced Functional Materials</i> , 2012, 22, 2855-2859.	7.8	64
135	Functional Organic Materials Based on Polymerized Liquid-Crystal Monomers: Supramolecular Hydrogen-Bonded Systems. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7102-7109.	7.2	219
136	Printable Optical Sensors Based on H-Bonded Supramolecular Cholesteric Liquid Crystal Networks. <i>Journal of the American Chemical Society</i> , 2012, 134, 7608-7611.	6.6	162
137	Real time quantitative amplification detection on a microarray: towards high multiplex quantitative PCR. <i>Lab on A Chip</i> , 2012, 12, 1897.	3.1	8
138	Photo-Switchable Surface Topologies in Chiral Nematic Coatings. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 892-896.	7.2	158
139	Circular dichroism of cholesteric polymers and the orbital angular momentum of light. <i>Physical Review A</i> , 2011, 83, .	1.0	68
140	Search for Hermite-Gauss mode rotation in cholesteric liquid crystals. <i>Optics Express</i> , 2011, 19, 12978.	1.7	10
141	Generation of Anisotropic Emission by Light-Induced Orientation of Liquid Crystalline Polymers. <i>Macromolecules</i> , 2011, 44, 1438-1449.	2.2	13
142	In-situ fabrication of polymer microsieves for $\frac{1}{4}$ TAS by slanted angle holography. <i>Microfluidics and Nanofluidics</i> , 2011, 10, 1299-1304.	1.0	2
143	Stimuli Responsive Delivery Vehicles for Cardiac Microtissue Transplantation. <i>Advanced Functional Materials</i> , 2011, 21, 1624-1630.	7.8	75
144	Charge transport in high-performance ink-jet printed single-droplet organic transistors based on a silylethynyl substituted pentacene/insulating polymer blend. <i>Organic Electronics</i> , 2011, 12, 1319-1327.	1.4	68

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145	Polarization-independent filters for luminescent solar concentrators. Applied Physics Letters, 2011, 98, 021111.	1.5	18
146	Nanoporous membranes based on liquid crystalline polymers. Liquid Crystals, 2011, 38, 1627-1639.	0.9	54
147	Rapid Genotyping of Human Papillomavirus by Post-PCR Array-Based Hybridization Techniques. Journal of Clinical Microbiology, 2011, 49, 1395-1402.	1.8	8
148	Polymer MEMS. Liquid Crystals Book Series, 2011, , 251-285.	0.0	1
149	Optical Monitoring of Gases with Cholesteric Liquid Crystals. Journal of the American Chemical Society, 2010, 132, 2961-2967.	6.6	114
150	Polarization-dependent Goos-Hänchen shift at a graded dielectric interface. Optics Communications, 2010, 283, 3367-3370.	1.0	14
151	Defects dictated. Nature Materials, 2010, 9, 99-100.	13.3	2
152	ON OPTIMUM PUPIL FIELDS WITH MAXIMUM ELECTRIC FIELD COMPONENT IN FOCUS. Journal of Nonlinear Optical Physics and Materials, 2010, 19, 189-201.	1.1	0
153	Fully Reversible Transition from Wenzel to Cassie-Baxter States on Corrugated Superhydrophobic Surfaces. Langmuir, 2010, 26, 3335-3341.	1.6	102
154	Immobilization of Oligonucleotides with Homo-oligomer Tails onto Amine-Functionalized Solid Substrates and the Effects on Hybridization. Analytical Chemistry, 2010, 82, 1191-1199.	3.2	4
155	Effect on the output of a luminescent solar concentrator on application of organic wavelength-selective mirrors. Applied Optics, 2010, 49, 745.	2.1	62
156	Patterned dye structures limit reabsorption in luminescent solar concentrators. Optics Express, 2010, 18, A536.	1.7	41
157	Room temperature preparation of conductive silver features using spin-coating and inkjet printing. Journal of Materials Chemistry, 2010, 20, 543-546.	6.7	104
158	Controlling Light Emission in Luminescent Solar Concentrators Through Use of Dye Molecules Aligned in a Planar Manner by Liquid Crystals. Advanced Functional Materials, 2009, 19, 2714-2719.	7.8	113
159	Azeotropic Binary Solvent Mixtures for Preparation of Organic Single Crystals. Advanced Functional Materials, 2009, 19, 3610-3617.	7.8	52
160	Monodisperse, Polymeric Nano- and Microsieves Produced with Interference Holography. Advanced Materials, 2009, 21, 1751-1755.	11.1	41
161	Printed artificial cilia from liquid-crystal network actuators modularly driven by light. Nature Materials, 2009, 8, 677-682.	13.3	890
162	Patterns of Diacetylene-Containing Peptide Amphiphiles Using Polarization Holography. Journal of the American Chemical Society, 2009, 131, 15014-15017.	6.6	25

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163	Photo-embossed Surface Relief Structures with an Increased Aspect Ratio by Addition of Kinetic Interfering Compounds. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2009, 22, 667-670.	0.1	4
164	Highly Efficient Surface Relief Formation via Photoembossing of a Supramolecular Polymer. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 2094-2099.	1.1	21
165	A Birefringent and Transparent Electrical Conductor. <i>Advanced Functional Materials</i> , 2008, 18, 2147-2153.	7.8	38
166	Printing of Monolithic Polymeric Microstructures Using Reactive Mesogens. <i>Advanced Materials</i> , 2008, 20, 74-78.	11.1	25
167	Nanoporous Membranes of Hydrogen-Bridged Smectic Networks with Nanometer Transverse Pore Dimensions. <i>Advanced Materials</i> , 2008, 20, 1246-1252.	11.1	67
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