

Dick Jan Broer

List of Publications by Year in descending order

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310
papers

18,890
citations

15504

65
h-index

14208

128
g-index

338
all docs

338
docs citations

338
times ranked

10758
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	Printed artificial cilia from liquid-crystal network actuators modularly driven by light. <i>Nature Materials</i> , 2009, 8, 677-682.	27.5	890
3	Nanomotor rotates microscale objects. <i>Nature</i> , 2006, 440, 163-163.	27.8	781
4	Making waves in a photoactive polymer film. <i>Nature</i> , 2017, 546, 632-636.	27.8	738
5	Wide-band reflective polarizers from cholesteric polymer networks with a pitch gradient. <i>Nature</i> , 1995, 378, 467-469.	27.8	671
6	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1989, 190, 2255-2268.	1.1	431
7	Large amplitude light-induced motion in high elastic modulus polymer actuators. <i>Journal of Materials Chemistry</i> , 2005, 15, 5043.	6.7	331
8	A chaotic self-oscillating sunlight-driven polymer actuator. <i>Nature Communications</i> , 2016, 7, 11975.	12.8	329
9	Engineering of Complex Order and the Macroscopic Deformation of Liquid Crystal Polymer Networks. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12469-12472.	13.8	297
10	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.	13.7	280
11	4D Printed Actuators with Soft-Robotic Functions. <i>Macromolecular Rapid Communications</i> , 2018, 39, 1700710.	3.9	268
12	Thermo-Mechanical Responses of Liquid-Crystal Networks with a Splayed Molecular Organization. <i>Advanced Functional Materials</i> , 2005, 15, 1155-1159.	14.9	256
13	Artificial cilia for active micro-fluidic mixing. <i>Lab on A Chip</i> , 2008, 8, 533.	6.0	250
14	In-situ photopolymerization of an oriented liquid-crystalline acrylate. <i>Die Makromolekulare Chemie</i> , 1988, 189, 185-194.	1.1	241
15	Chiral nematic order in liquid crystals imposed by an engineered inorganic nanostructure. <i>Nature</i> , 1999, 399, 764-766.	27.8	236
16	Large Area Liquid Crystal Monodomain Field-Effect Transistors. <i>Journal of the American Chemical Society</i> , 2006, 128, 2336-2345.	13.7	222
17	Glassy photomechanical liquid-crystal network actuators for microscale devices. <i>European Physical Journal E</i> , 2007, 23, 329-336.	1.6	220
18	Functional Organic Materials Based on Polymerized Liquid-Crystal Monomers: Supramolecular Hydrogen-Bonded Systems. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7102-7109.	13.8	219

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19	Accordion-like Actuators of Multiple 3D Patterned Liquid Crystal Polymer Films. <i>Advanced Functional Materials</i> , 2014, 24, 1251-1258.	14.9	206
20	Rotational Reorganization of Doped Cholesteric Liquid Crystalline Films. <i>Journal of the American Chemical Society</i> , 2006, 128, 14397-14407.	13.7	200
21	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1989, 190, 3201-3215.	1.1	197
22	Mastering the Photothermal Effect in Liquid Crystal Networks: A General Approach for Self-Sustained Mechanical Oscillators. <i>Advanced Materials</i> , 2017, 29, 1606712.	21.0	191
23	Liquid Crystal Polymer Networks: Preparation, Properties, and Applications of Films with Patterned Molecular Alignment. <i>Langmuir</i> , 2014, 30, 13499-13509.	3.5	188
24	Single-substrate liquid-crystal displays by photo-enforced stratification. <i>Nature</i> , 2002, 417, 55-58.	27.8	181
25	Bending Dynamics and Directionality Reversal in Liquid Crystal Network Photoactuators. <i>Macromolecules</i> , 2008, 41, 8592-8596.	4.8	180
26	Photo-Induced Diffusion in Polymerizing Chiral-Nematic Media. <i>Advanced Materials</i> , 1999, 11, 573-578.	21.0	167
27	Printable Optical Sensors Based on H-Bonded Supramolecular Cholesteric Liquid Crystal Networks. <i>Journal of the American Chemical Society</i> , 2012, 134, 7608-7611.	13.7	162
28	Photo-Switchable Surface Topologies in Chiral Nematic Coatings. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 892-896.	13.8	158
29	Self-Assembled Dynamic 3D Fingerprints in Liquid-Crystal Coatings Towards Controllable Friction and Adhesion. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4542-4546.	13.8	139
30	Self-Assembled Polymer Films for Controlled Agent-Driven Motion. <i>Nano Letters</i> , 2005, 5, 1857-1860.	9.1	136
31	Three-dimensionally ordered polymer networks with a helicoidal structure. <i>Macromolecules</i> , 1990, 23, 2474-2477.	4.8	135
32	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1991, 192, 59-74.	1.1	135
33	Synthesis and photopolymerization of a liquid-crystalline diepoxide. <i>Macromolecules</i> , 1993, 26, 1244-1247.	4.8	135
34	Stimuli-Responsive Materials Based on Interpenetrating Polymer Liquid Crystal Hydrogels. <i>Advanced Functional Materials</i> , 2015, 25, 3314-3320.	14.9	132
35	A Rewritable, Reprogrammable, Dual Light-Responsive Polymer Actuator. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13436-13439.	13.8	127
36	New insights into photoactivated volume generation boost surface morphing in liquid crystal coatings. <i>Nature Communications</i> , 2015, 6, 8334.	12.8	123

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37	Stimuli-responsive photonic polymer coatings. <i>Chemical Communications</i> , 2014, 50, 15839-15848.	4.1	119
38	Programmed morphing of liquid crystal networks. <i>Polymer</i> , 2014, 55, 5885-5896.	3.8	119
39	Dynamic mechanical properties of anisotropic networks formed by liquid crystalline acrylates. <i>Polymer</i> , 1991, 32, 1627-1632.	3.8	118
40	Photoresponsive Fiber Array: Toward Mimicking the Collective Motion of Cilia for Transport Applications. <i>Advanced Functional Materials</i> , 2016, 26, 5322-5327.	14.9	116
41	Optical Monitoring of Gases with Cholesteric Liquid Crystals. <i>Journal of the American Chemical Society</i> , 2010, 132, 2961-2967.	13.7	114
42	Liquid crystal elastomer coatings with programmed response of surface profile. <i>Nature Communications</i> , 2018, 9, 456.	12.8	114
43	Controlling Light Emission in Luminescent Solar Concentrators Through Use of Dye Molecules Aligned in a Planar Manner by Liquid Crystals. <i>Advanced Functional Materials</i> , 2009, 19, 2714-2719.	14.9	113
44	TiO ₂ Nanoparticle-Photopolymer Composites for Volume Holographic Recording. <i>Advanced Functional Materials</i> , 2005, 15, 1623-1629.	14.9	112
45	In situ photopolymerization of an oriented liquid-crystalline acrylate, 2. <i>Die Makromolekulare Chemie</i> , 1989, 190, 19-30.	1.1	111
46	Synthesis and photopolymerization of cholesteric liquid crystalline diacrylates. <i>Liquid Crystals</i> , 1995, 18, 319-326.	2.2	111
47	Room temperature preparation of conductive silver features using spin-coating and inkjet printing. <i>Journal of Materials Chemistry</i> , 2010, 20, 543-546.	6.7	104
48	Photoinduced Plasticity in Cross-Linked Liquid Crystalline Networks. <i>Advanced Materials</i> , 2017, 29, 1606509.	21.0	103
49	Fully Reversible Transition from Wenzel to Cassie-Baxter States on Corrugated Superhydrophobic Surfaces. <i>Langmuir</i> , 2010, 26, 3335-3341.	3.5	102
50	Responsive Nanoporous Smectic Liquid Crystal Polymer Networks as Efficient and Selective Adsorbents. <i>Advanced Functional Materials</i> , 2014, 24, 5045-5051.	14.9	102
51	Light-Induced Formation of Dynamic and Permanent Surface Topologies in Chiral Nematic Polymer Networks. <i>Macromolecules</i> , 2012, 45, 8005-8012.	4.8	101
52	Anisotropic thermal expansion of densely cross-linked oriented polymer networks. <i>Polymer Engineering and Science</i> , 1991, 31, 625-631.	3.1	91
53	High-Contrast Thin-Film Polarizers by Photo-Crosslinking of Smectic Guest-Host Systems. <i>Advanced Materials</i> , 2006, 18, 2412-2417.	21.0	91
54	A four-blade light-driven plastic mill based on hydrazone liquid-crystal networks. <i>Tetrahedron</i> , 2017, 73, 4963-4967.	1.9	90

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55	Oriented polymer networks obtained by photopolymerization of liquid-crystalline monomers. <i>Angewandte Makromolekulare Chemie</i> , 1990, 183, 45-66.	0.2	80
56	Oscillating Chiral Nematic Fingerprints Wipe Away Dust. <i>Advanced Materials</i> , 2018, 30, 1704970.	21.0	80
57	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.	7.1	78
58	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.	5.5	78
59	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.	8.0	77
60	Stimuli Responsive Delivery Vehicles for Cardiac Microtissue Transplantation. <i>Advanced Functional Materials</i> , 2011, 21, 1624-1630.	14.9	75
61	Progress in phosphors and filters for luminescent solar concentrators. <i>Optics Express</i> , 2012, 20, A395.	3.4	71
62	Temperature-Responsive, Multicolor-Changing Photonic Polymers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28172-28179.	8.0	70
63	Circular dichroism of cholesteric polymers and the orbital angular momentum of light. <i>Physical Review A</i> , 2011, 83, .	2.5	68
64	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.	2.6	68
65	Regulating the modulus of a chiral liquid crystal polymer network by light. <i>Soft Matter</i> , 2016, 12, 3196-3201.	2.7	68
66	Block Copolymer Thermoplastic Elastomers for Microcontact Printing. <i>Langmuir</i> , 2003, 19, 10957-10961.	3.5	67
67	Nanoporous Membranes of Hydrogen-Bridged Smectic Networks with Nanometer Transverse Pore Dimensions. <i>Advanced Materials</i> , 2008, 20, 1246-1252.	21.0	67
68	Alcohol-Responsive, Hydrogen-Bonded, Cholesteric Liquid-Crystal Networks. <i>Advanced Functional Materials</i> , 2012, 22, 2855-2859.	14.9	64
69	Photoswitchable Ratchet Surface Topographies Based on Self-Protonating Spiropyran-NIPAAm Hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7268-7274.	8.0	64
70	Sub-5 nm Patterning by Directed Self-Assembly of Oligo(Dimethylsiloxane) Liquid Crystal Thin Films. <i>Advanced Materials</i> , 2016, 28, 10068-10072.	21.0	64
71	3D Helix Engineering in Chiral Photonic Materials. <i>Advanced Materials</i> , 2019, 31, e1903120.	21.0	64
72	Irreversible visual sensing of humidity using a cholesteric liquid crystal. <i>Chemical Communications</i> , 2012, 48, 4579.	4.1	63

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73	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.	14.9	63
74	Effect on the output of a luminescent solar concentrator on application of organic wavelength-selective mirrors. <i>Applied Optics</i> , 2010, 49, 745.	2.1	62
75	Temperature effects on the kinetics of photoinitiated polymerization of dimethacrylates. <i>Polymer</i> , 1991, 32, 690-695.	3.8	61
76	Chemical vapour deposition of poly(1,4-phenylenevinylene) films. <i>Synthetic Metals</i> , 1994, 67, 71-75.	3.9	61
77	Reaction-diffusion model for the preparation of polymer gratings by patterned ultraviolet illumination. <i>Journal of Applied Physics</i> , 2004, 95, 4125-4139.	2.5	61
78	Patterned Alignment of Liquid Crystals by γ -Rubbing. <i>Advanced Materials</i> , 2004, 16, 1600-1605.	21.0	60
79	Simplified spectropolarimetry using reactive mesogen polarization gratings. , 2006, 6302, 21.		60
80	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.	7.3	60
81	Anisotropic networks formed by photopolymerization of liquid-crystalline molecules. <i>Advanced Materials</i> , 1991, 3, 392-394.	21.0	59
82	Anisotropic polymerization shrinkage behaviour of liquid-crystalline diacrylates. <i>Polymer</i> , 1992, 33, 89-95.	3.8	59
83	Photopatterned liquid crystalline polymers for microactuators. <i>Journal of Materials Chemistry</i> , 2006, 16, 2903.	6.7	59
84	Optical generation, templating, and polymerization of three-dimensional arrays of liquid-crystal defects decorated by plasmonic nanoparticles. <i>Physical Review E</i> , 2013, 87, .	2.1	58
85	Light controlled friction at a liquid crystal polymer coating with switchable patterning. <i>Soft Matter</i> , 2014, 10, 7952-7958.	2.7	58
86	Photoembossing of Periodic Relief Structures Using Polymerization- Induced Diffusion: A Combinatorial Study. <i>Advanced Materials</i> , 2005, 17, 2567-2571.	21.0	57
87	Reconfiguring Nanocomposite Liquid Crystal Polymer Films with Visible Light. <i>Macromolecules</i> , 2016, 49, 1575-1581.	4.8	55
88	A Scattering Electro-Optical Switch Based on Dendrimers Dispersed in Liquid Crystals. <i>Advanced Materials</i> , 2000, 12, 715-719.	21.0	54
89	Isotropic "islands" in a Cholesteric "sea": Patterned Thermal Expansion for Responsive Surface Topologies. <i>Advanced Materials</i> , 2006, 18, 1842-1845.	21.0	54
90	Nanoporous membranes based on liquid crystalline polymers. <i>Liquid Crystals</i> , 2011, 38, 1627-1639.	2.2	54

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91	Physical Properties of Anisotropically Swelling Hydrogen-Bonded Liquid Crystal Polymer Actuators. <i>Journal of Microelectromechanical Systems</i> , 2007, 16, 480-488.	2.5	53
92	Protruding organic surfaces triggered by in-plane electric fields. <i>Nature Communications</i> , 2017, 8, 1526.	12.8	53
93	Azeotropic Binary Solvent Mixtures for Preparation of Organic Single Crystals. <i>Advanced Functional Materials</i> , 2009, 19, 3610-3617.	14.9	52
94	Liquid crystal polymer networks: switchable surface topographies. <i>Liquid Crystals Reviews</i> , 2013, 1, 20-28.	4.1	52
95	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.	14.9	51
96	Polymer-Filled Nematics: A New Class of Light-Scattering Materials for Electro-Optical Switches. <i>Advanced Materials</i> , 2000, 12, 753-757.	21.0	50
97	Preparation and Characterization of Structured Hydrogel Microparticles Based on Cross-Linked Hyperbranched Polyglycerol. <i>Langmuir</i> , 2007, 23, 11819-11825.	3.5	50
98	Photoresponsive Sponge-Like Coating for On-Demand Liquid Release. <i>Advanced Functional Materials</i> , 2018, 28, 1705942.	14.9	50
99	Formation of Optical Films by Photo-Polymerisation of Liquid Crystalline Acrylates and Application of These Films in Liquid Crystal Display Technology. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 429, 77-99.	0.9	49
100	Photo-Responsive Helical Motion by Light-Driven Molecular Motors in a Liquid-Crystal Network. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8251-8257.	13.8	49
101	Microrubbing technique to produce high pretilt multidomain liquid crystal alignment. <i>Applied Physics Letters</i> , 2004, 85, 230-232.	3.3	48
102	Light-Induced Orientation of Liquid Crystalline Terpolymers Containing Azobenzene and Dye Moieties. <i>Macromolecules</i> , 2005, 38, 2213-2222.	4.8	48
103	Photoinduced Opposite Diffusion of Nematic and Isotropic Monomers during Patterned Photopolymerization. <i>Chemistry of Materials</i> , 1998, 10, 135-145.	6.7	46
104	Alignment and switching of nematic liquid crystals embedded in porous chiral thin films. <i>Liquid Crystals</i> , 2000, 27, 387-391.	2.2	44
105	Photoswitchable Hydrogel Surface Topographies by Polymerisation-Induced Diffusion. <i>Chemistry - A European Journal</i> , 2013, 19, 10922-10927.	3.3	44
106	Design and applications of light responsive liquid crystal polymer thin films. <i>Applied Physics Reviews</i> , 2020, 7, .	11.3	44
107	Coupled liquid crystalline oscillators in Huygens's synchrony. <i>Nature Materials</i> , 2021, 20, 1702-1706.	27.5	44
108	A Glassy Bending-Mode Polymeric Actuator Which Deforms in Response to Solvent Polarity. <i>Macromolecular Rapid Communications</i> , 2006, 27, 1323-1329.	3.9	43

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109	Patterned Full-Color Reflective Coatings Based on Photonic Cholesteric Liquid-Crystalline Particles. ACS Applied Materials & Interfaces, 2019, 11, 14376-14382.	8.0	42
110	Monodisperse, Polymeric Nano- and Microsieves Produced with Interference Holography. Advanced Materials, 2009, 21, 1751-1755.	21.0	41
111	Patterned dye structures limit reabsorption in luminescent solar concentrators. Optics Express, 2010, 18, A536.	3.4	41
112	Laser-induced optical recording in thin films. Applied Physics A: Solids and Surfaces, 1983, 32, 107-123.	1.4	40
113	Hydrophilic Elastomers for Microcontact Printing of Polar Inks. Langmuir, 2004, 20, 4738-4742.	3.5	39
114	Increased efficiency of luminescent solar concentrators after application of organic wavelength selective mirrors. Optics Express, 2012, 20, A655.	3.4	39
115	Discrimination of Alcohol Molecules Using Hydrogen-Bridged Cholesteric Polymer Networks. Macromolecules, 2012, 45, 4550-4555.	4.8	39
116	Water-responsive dual-coloured photonic polymer coatings based on cholesteric liquid crystals. RSC Advances, 2015, 5, 94650-94653.	3.6	39
117	InP-based two-dimensional photonic crystals filled with polymers. Applied Physics Letters, 2006, 88, 161112.	3.3	38
118	A Birefringent and Transparent Electrical Conductor. Advanced Functional Materials, 2008, 18, 2147-2153.	14.9	38
119	Patterned Silver Nanoparticles embedded in a Nanoporous Smectic Liquid Crystalline Polymer Network. Journal of the American Chemical Society, 2013, 135, 10922-10925.	13.7	38
120	A real time optical strain sensor based on a cholesteric liquid crystal network. RSC Advances, 2013, 3, 18794.	3.6	38
121	New functional polymers for liquid crystal displays review of some recent developments. Macromolecular Symposia, 2000, 154, 1-14.	0.7	37
122	Anisotropic wetting and de-wetting of drops on substrates patterned with polygonal posts. Soft Matter, 2013, 9, 674-683.	2.7	37
123	Light-Driven Electrohydrodynamic Instabilities in Liquid Crystals. Advanced Functional Materials, 2018, 28, 1707436.	14.9	35
124	Light Tracking and Light Guiding Fiber Arrays by Adjusting the Location of Photoresponsive Azobenzene in Liquid Crystal Networks. Advanced Optical Materials, 2020, 8, 2000732.	7.3	35
125	Electric Field Confinement Effect on Charge Transport in Organic Field-Effect Transistors. Physical Review Letters, 2012, 108, 066601.	7.8	34
126	Liquid Crystal Alignment and Switching in Porous Chiral Thin Films. Advanced Materials, 2000, 12, 371-373.	21.0	33

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127	Self-sustained actuation from heat dissipation in liquid crystal polymer networks. <i>Journal of Polymer Science Part A</i> , 2018, 56, 1331-1336.	2.3	33
128	Creation of Supramolecular Thin Film Architectures with Liquid-Crystalline Networks. <i>Molecular Crystals and Liquid Crystals</i> , 1995, 261, 513-523.	0.3	32
129	Two-dimensional pH-responsive printable smectic hydrogels. <i>Chemical Communications</i> , 2012, 48, 4555.	4.1	32
130	(Photo-)Thermally Induced Formation of Dynamic Surface Topographies in Polymer Hydrogel Networks. <i>Langmuir</i> , 2013, 29, 5622-5629.	3.5	32
131	Light-Triggered Formation of Surface Topographies in Azo Polymers. <i>Crystals</i> , 2017, 7, 231.	2.2	32
132	Consequences of Chirality in Directing the Pathway of Cholesteric Helix Inversion of π -Conjugated Polymers by Light. <i>Advanced Materials</i> , 2021, 33, e2005720.	21.0	32
133	Electroconvection in Zwitterion-Doped Nematic Liquid Crystals and Application as Smart Windows. <i>Advanced Optical Materials</i> , 2021, 9, 2001465.	7.3	32
134	The Use of Cholesterically-Ordered Polymer Networks in Practical Applications. <i>Molecular Crystals and Liquid Crystals</i> , 1991, 203, 113-126.	0.7	30
135	Optical activity of chiral thin film and liquid crystal hybrids. <i>Liquid Crystals</i> , 2001, 28, 1799-1803.	2.2	29
136	Mass transport phenomena during lithographic polymerization of nematic monomers monitored with interferometry. <i>Journal of Applied Physics</i> , 2005, 97, 123519.	2.5	29
137	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.	4.8	29
138	Penetration of p-xylene vapor into small channels prior to polymerization. <i>Journal of Applied Polymer Science</i> , 1981, 26, 2415-2422.	2.6	28
139	Linearly polarized light-emitting backlight. <i>Journal of the Society for Information Display</i> , 2002, 10, 107.	2.1	28
140	High aspect ratio surface relief structures by photoembossing. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	28
141	Reconfigurable and Preconfigurable Multistable Visible Light Responsive Surface Topographies. <i>Small</i> , 2018, 14, e1803274.	10.0	28
142	A self-sustained soft actuator able to rock and roll. <i>Chemical Communications</i> , 2019, 55, 11029-11032.	4.1	28
143	Combined Light and Electric Response of Topographic Liquid Crystal Network Surfaces. <i>Advanced Functional Materials</i> , 2020, 30, 1901681.	14.9	28
144	Synthesis and Polymerization of Liquid Crystals Containing Vinyl and Mercapto Groups. <i>Liebigs Annalen</i> , 1997, 1997, 2281-2288.	0.8	27

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145	New Approach toward Reflective Films and Fibers Using Cholesteric Liquid-Crystal Coatings. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7117-7121.	8.0	27
146	Single-composition three-dimensionally morphing hydrogels. <i>Soft Matter</i> , 2013, 9, 588-596.	2.7	27
147	Patterned oscillating topographical changes in photoresponsive polymer coatings. <i>Soft Matter</i> , 2017, 13, 4321-4327.	2.7	27
148	The formation of a liquid crystalline main chain polymer by means of photopolymerization. <i>Liquid Crystals</i> , 1998, 24, 375-379.	2.2	26
149	Viscoelastic liquid crystal colloids for the continuous processing of twisted nematic electro-optical cells. <i>Journal of Applied Physics</i> , 2001, 89, 838-842.	2.5	25
150	Deformed chiral-nematic networks obtained by polarized excitation of a dichroic photoinitiator. <i>Current Opinion in Solid State and Materials Science</i> , 2002, 6, 553-561.	11.5	25
151	Four-domain twisted vertically aligned liquid crystal pixels using microrubbing. <i>Applied Physics Letters</i> , 2005, 86, 1819-14.	3.3	25
152	Improved Microcontact Printing of Proteins using Hydrophilic Thermoplastic Elastomers as Stamp Materials. <i>Advanced Engineering Materials</i> , 2007, 9, 1123-1128.	3.5	25
153	Printing of Monolithic Polymeric Microstructures Using Reactive Mesogens. <i>Advanced Materials</i> , 2008, 20, 74-78.	21.0	25
154	Patterns of Diacetylene-Containing Peptide Amphiphiles Using Polarization Holography. <i>Journal of the American Chemical Society</i> , 2009, 131, 15014-15017.	13.7	25
155	Thermo-reversible Liquid-Crystal Gels: Towards a New Processing Route for Twisted Nematic Displays. <i>Japanese Journal of Applied Physics</i> , 2000, 39, 2721-2726.	1.5	24
156	Improving the Brightness and Daylight Contrast of Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2005, 15, 138-142.	14.9	24
157	Synthesis, Properties, and Polymerization of New Liquid Crystalline Monomers for Highly Ordered Guest-Host Systems. <i>Chemistry of Materials</i> , 2008, 20, 6076-6086.	6.7	24
158	Electrically controlled light scattering from thermoreversible liquid-crystal gels. <i>Journal of Applied Physics</i> , 2000, 88, 161-167.	2.5	23
159	Synthesis and properties of phenyl benzoate-based and biphenyl-based liquid crystalline thiol-ene monomers. <i>Liquid Crystals</i> , 2003, 30, 93-108.	2.2	23
160	Simulations with a dynamic reaction-diffusion model of the polymer grating preparation by patterned ultraviolet illumination. <i>Journal of Applied Physics</i> , 2004, 95, 8352-8356.	2.5	23
161	High-Throughput Screening and Optimization of Photoembossed Relief Structures. <i>ACS Combinatorial Science</i> , 2006, 8, 184-191.	3.3	23
162	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.	3.9	23

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163	Artificial Organic Skin Wets Its Surface by Field-Induced Liquid Secretion. <i>Matter</i> , 2020, 3, 782-793.	10.0	23
164	Photo-Initiated Polymerization of Liquid Crystalline Thiol-Ene Monomers in Isotropic and Anisotropic Solvents. <i>Journal of Physical Chemistry B</i> , 2002, 106, 12874-12883.	2.6	22
165	Large-area microfabrication of three-dimensional, helical polymer structures. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 49-54.	2.6	22
166	Optimizing Photo-Embossed Gratings: A Gradient Library Approach. <i>ACS Combinatorial Science</i> , 2006, 8, 228-236.	3.3	22
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