

# Yoichi Takanishi

## List of Publications by Year in descending order

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53660

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259  
all docs

259  
docs citations

259  
times ranked

2906  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bent-Core Liquid Crystals: Their Mysterious and Attractive World. Japanese Journal of Applied Physics, 2006, 45, 597-625.	0.8	774
2	Antiferroelectric chiral smectic liquid crystals. Journal of Materials Chemistry, 1994, 4, 997.	6.7	624
3	Electro-tunable optical diode based on photonic bandgap liquid-crystal heterojunctions. Nature Materials, 2005, 4, 383-387.	13.3	296
4	Origin of Helix in Achiral Banana-Shaped Molecular Systems. Japanese Journal of Applied Physics, 1997, 36, 6455-6463.	0.8	269
5	Stability of Antiferroelectricity and Causes for its Appearance in $SmC^*_A$ and $SmCA^*$ Phases of a Chiral Smectic Liquid Crystal, MHPOBC. Japanese Journal of Applied Physics, 1991, 30, 2023-2027.	0.8	237
6	Thresholdless antiferroelectricity in liquid crystals and its application to displays. Journal of Materials Chemistry, 1996, 6, 671.	6.7	210
7	Fabrication of a simultaneous red-green-blue reflector using single-pitched cholesteric liquid crystals. Nature Materials, 2008, 7, 43-47.	13.3	207
8	Blue phases induced by doping chiral nematic liquid crystals with nonchiral molecules. Physical Review E, 2003, 68, 041710.	0.8	143
9	How doping a cholesteric liquid crystal with polymeric dye improves an order parameter and makes possible low threshold lasing. Journal of Applied Physics, 2003, 94, 279-283.	1.1	134
10	Electric-Field-Induced Apparent Tilt Angle and Devil's Staircase in $SmC^*_A$ of an Antiferroelectric Chiral Smectic Liquid Crystal. Japanese Journal of Applied Physics, 1991, 30, L1819-L1822.	0.8	118
11	Spontaneous polarization parallel to the tilt plane in the antiferroelectric chiral smectic-C phase of liquid crystals as observed by polarized infrared spectroscopy. Physical Review E, 1995, 52, R2153-R2156.	0.8	103
12	Low-Birefringent, Chiral Banana Phase below Calamitic Nematic and/or Smectic C Phases in Oxadiazole Derivatives. Journal of Physical Chemistry B, 2006, 110, 5205-5214.	1.2	102
13	Circular-Polarization-Induced Enantiomeric Excess in Liquid Crystals of an Achiral, Bent-Shaped Mesogen. Angewandte Chemie - International Edition, 2006, 45, 1382-1385.	7.2	102
14	Controlled Fabrication and Photonic Structure of Cholesteric Liquid Crystalline Shells. Advanced Materials, 2013, 25, 3234-3237.	11.1	99
15	Ferroelectric Properties in Banana-Shaped Achiral Liquid Crystalline Molecular Systems. Japanese Journal of Applied Physics, 1997, 36, L1201-L1203.	0.8	97
16	A binaphthyl derivative with a wide temperature range of a blue phase. Journal of Materials Chemistry, 2009, 19, 5759.	6.7	94
17	Electric-Field-Induced Polar Biaxial Order in a Nontilted Smectic Phase of an Asymmetric Bent-Core Liquid Crystal. Physical Review Letters, 2006, 97, 113901.	2.9	87
18	Visual observation of dispirations in liquid crystals. Physical Review B, 1992, 45, 7684-7689.	1.1	84

#	ARTICLE	IF	CITATIONS
19	Simple method for confirming the antiferroelectric structure of smectic liquid crystals. <i>Journal of Materials Chemistry</i> , 1992, 2, 71.	6.7	84
20	Induced and spontaneous deracemization in bent-core liquid crystal phases and in other phases doped with bent-core molecules. <i>Physical Review E</i> , 2005, 71, 021706.	0.8	84
21	Conoscopic study of the $S_C^*$ phase and the Devil's staircase in an antiferroelectric liquid crystal. <i>Liquid Crystals</i> , 1992, 12, 59-70.	0.9	80
22	Molecular Orientational Structures with Macroscopic Helix in Antiferroelectric Liquid Crystal Subphases. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 4832-4837.	0.8	74
23	Spontaneous Formation of Quasi-Bookshelf Layer Structure in New Ferroelectric Liquid Crystals Derived from a Naphthalene Ring. <i>Japanese Journal of Applied Physics</i> , 1990, 29, L984-L986.	0.8	71
24	Collective Molecular Motion during V-Shaped Switching in a Smectic Liquid Crystal. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 1474-1481.	0.8	69
25	Observation of very large chiral domains in a liquid crystal phase formed by mixtures of achiral bent-core and rod molecules. <i>Journal of Materials Chemistry</i> , 2005, 15, 4020.	6.7	68
26	Ideal Liquid Crystal Display Mode Using Achiral Banana-Shaped Liquid Crystals. <i>Japanese Journal of Applied Physics</i> , 2006, 45, L282-L284.	0.8	67
27	First Order Paraelectric-Antiferroelectric Phase Transition in a Chiral Smectic Liquid Crystal of a Fluorine Containing Phenyl Pyrimidine Derivative. <i>Japanese Journal of Applied Physics</i> , 1990, 29, L987-L990.	0.8	66
28	Obliquely projecting chiral alkyl chains and their precession around the long core axes in the smectic-A phase of an antiferroelectric liquid crystal. <i>Physical Review E</i> , 1996, 53, R4295-R4298.	0.8	65
29	Higher smectic-layer order parameters in liquid crystals determined by x-ray diffraction and the effect of antiferroelectricity. <i>Physical Review E</i> , 1995, 51, 400-406.	0.8	64
30	Chevron Layer Structure in the Smectic A Phase of 8CB. <i>Japanese Journal of Applied Physics</i> , 1989, 28, L487-L489.	0.8	60
31	Advantages of Highly Ordered Polymer-Dyes for Lasing in Chiral Nematic Liquid Crystals. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 631-636.	0.8	58
32	Highly circularly polarized electroluminescence from organic light-emitting diodes with wide-band reflective polymeric cholesteric liquid crystal films. <i>Applied Physics Letters</i> , 2007, 90, 211106.	1.5	58
33	Evolution of Switching Characteristics from Tristable to V-Shaped in an Apparently Antiferroelectric Liquid Crystal. <i>Japanese Journal of Applied Physics</i> , 1997, 36, 3586-3590.	0.8	56
34	Toward practical application of cholesteric liquid crystals to tunable lasers. <i>Journal of Materials Chemistry</i> , 2008, 18, 3040.	6.7	56
35	Odd~Even Behavior of Ferroelectricity and Antiferroelectricity in Two Homologous Series of Bent-Core Mesogens. <i>Journal of the American Chemical Society</i> , 2005, 127, 11085-11091.	6.6	55
36	Antiferroelectric Smectic Liquid Crystal Formed by Achiral Twin Dimer with Two Mesogenic Groups Linked by Alkylene Spacer. <i>Japanese Journal of Applied Physics</i> , 1998, 37, L401-L403.	0.8	54

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37	Organic field-effect transistors based on new TTF-based liquid crystalline materials. <i>Synthetic Metals</i> , 2005, 149, 219-223.	2.1	52
38	Effect of the terminal branching structure of some liquid-crystalline biphenyl carboxylates on the stability of the antiferroelectric phase. <i>Journal of Materials Chemistry</i> , 1995, 5, 2297.	6.7	51
39	Important role played by interlayer steric interactions for the emergence of the ferroelectric phase in bent-core mesogens. <i>Journal of Materials Chemistry</i> , 2004, 14, 157.	6.7	51
40	Partial mixing of opposite chirality in a bent-shaped liquid crystal molecular system. <i>Journal of Materials Chemistry</i> , 1999, 9, 2775-2778.	6.7	49
41	Induced Antiferroelectric Smectic-CA*Phase by Doping Ferroelectric-C*Phase with Bent-Shaped Molecules. <i>Physical Review Letters</i> , 2000, 85, 2526-2529.	2.9	49
42	Devil's staircase between antiferroelectric SCA* and ferroelectric SC* phases in liquid crystals observed in free-standing films under temperature gradients. <i>Journal of Materials Chemistry</i> , 1997, 7, 407-416.	6.7	48
43	Intrinsic Chirality in a Bent-Core Mesogen Induced by Extrinsic Chiral Structures. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6503-6506.	7.2	48
44	Molecular manipulator driven by spatial variation of liquid-crystalline order. <i>Nature Materials</i> , 2010, 9, 816-820.	13.3	46
45	Chevron Layer Structure and Parabolic Focal Conics in Smectic A Liquid Crystals. <i>Japanese Journal of Applied Physics</i> , 1989, 28, 2547-2551.	0.8	45
46	Polarization switching in a columnar liquid crystalline urea as studied by optical second-harmonic generation interferometry. <i>Physical Review E</i> , 2005, 72, 020701.	0.8	45
47	Position-Sensitive Cholesteric Liquid Crystal Dye Laser Covering a Full Visible Range. <i>Japanese Journal of Applied Physics</i> , 2007, 46, L874-L876.	0.8	45
48	Self-Recovery from Alignment Damage under AC Fields in Antiferroelectric and Ferroelectric Liquid Crystal Cells. <i>Japanese Journal of Applied Physics</i> , 1991, 30, 735-740.	0.8	42
49	Spontaneous Enantiomeric Resolution in a Fluid Smectic Phase of a Racemate. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 2353-2356.	7.2	42
50	Frustration of polarity and chirality in a binary mixture of bent-core mesogens. <i>Journal of Materials Chemistry</i> , 2001, 11, 2694-2699.	6.7	42
51	Study on Molecular Dimerization Inducing the Antiferroelectric Liquid Crystalline Phase by Measuring the Smectic Layer Thickness in Various Compounds. <i>Japanese Journal of Applied Physics</i> , 1993, 32, L97-L100.	0.8	41
52	Defect mode lasing from a double-layered dye-doped polymeric cholesteric liquid crystal films with a thin rubbed defect layer. <i>Applied Physics Letters</i> , 2007, 90, 261108.	1.5	41
53	Self-Assembly and One-Dimensional Alignment of a Conducting Polymer Nanofiber in a Nematic Liquid Crystal. <i>Macromolecules</i> , 2009, 42, 4366-4368.	2.2	41
54	Photoinduced circular anisotropy in a photochromic W-shaped-molecule-doped polymeric liquid crystal film. <i>Physical Review E</i> , 2006, 73, 021702.	0.8	40

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55	Molecular motion in a smectic liquid crystal showing V-shaped switching as studied by optical second-harmonic generation. <i>Physical Review E</i> , 1999, 59, R3815-R3818.	0.8	38
56	Field-induced molecular reorientation keeping a frustrated structure in an achiral bent-shaped liquid crystal. <i>Journal of Materials Chemistry</i> , 1999, 9, 2771-2774.	6.7	38
57	Dielectric Behavior and the Devil's Staircase in the $SmC^*_A$ Phase of an Antiferroelectric Liquid Crystal, 4-(1-methylheptyloxycarbonyl)phenyl 4'-octylcarbonyloxybiphenyl-4-carboxylate. <i>Japanese Journal of Applied Physics</i> , 1992, 31, 3394-3398.	0.8	37
58	Structure and Switching in Bent-Shaped Molecular Liquid Crystal Systems with Two Mesogenic Groups Linked by Alkylene Spacer. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 328, 185-192.	0.3	37
59	Competitive effects of grooves and photoalignment on nematic liquid-crystal alignment using azobenzene polymer. <i>Journal of Applied Physics</i> , 2002, 92, 1841-1844.	1.1	37
60	Simultaneous RGB reflections from single-pitched cholesteric liquid crystal films with Fibonacci defects. <i>Optics Express</i> , 2007, 15, 1024.	1.7	37
61	On the appearance of the antiferroelectric phase. <i>Ferroelectrics</i> , 1991, 122, 167-176.	0.3	36
62	An Unusual Endothermic Transition to an Optically Isotropic Phase Organized by Chiral Molecular Recognition. <i>Japanese Journal of Applied Physics</i> , 1998, 37, L942-L944.	0.8	36
63	Polar order in columnar phase made of polycatenar bent-core molecules. <i>Physical Review E</i> , 2006, 73, 031704.	0.8	36
64	Alternating twist structures formed by electroconvection in the nematic phase of an achiral bent-core molecule. <i>Physical Review E</i> , 2008, 77, 041708.	0.8	36
65	Low threshold lasing from dye-doped cholesteric liquid crystal multi-layered structures. <i>Optics Express</i> , 2010, 18, 12909.	1.7	36
66	Langevin Type Alignment in a Smectic Liquid Crystal Mixture Showing V-Shaped Switching As Studied by Optical Second-Harmonic Generation. <i>Japanese Journal of Applied Physics</i> , 1998, 37, L691-L693.	0.8	35
67	Enhancement of Light Extraction from Organic Light-Emitting Diodes with Two-Dimensional Hexagonally Nanoimprinted Periodic Structures Using Sequential Surface Relief Grating. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 4566-4571.	0.8	35
68	Phase transitions and conformational changes in an antiferroelectric liquid crystal 4-(1-methylheptyloxycarbonyl)phenyl 4'-octyloxybiphenyl-4-carboxylate (MHPOBC). <i>Liquid Crystals</i> , 1994, 16, 185-202.	0.9	34
69	High-Resolution $^{13}C$ NMR Study of an Antiferroelectric Liquid Crystal: Verification of the Bent Chain Structure. <i>Journal of Physical Chemistry B</i> , 1999, 103, 406-416.	1.2	34
70	Electrooptic and Dielectric Properties in Bent-Shaped Liquid Crystals. <i>Japanese Journal of Applied Physics</i> , 2000, 39, 3536-3541.	0.8	34
71	Structures in optically isotropic and bluish colored cubic phases formed by enantiomeric association in an (R,S) dichiral compound and a stereoisomeric (R,R) and (S,S) mixture. <i>Journal of Materials Chemistry</i> , 2002, 12, 1325-1330.	6.7	33
72	Smectic Mesophase Properties of Dimeric Compounds. 2. Distinct Formation of Smectic Structures with Antiferroelectric Ordering and Frustration. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 346, 77-86.	0.3	31

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73	Finite Enantiomeric Excess Nucleated in an Achiral Banana Mesogen by Chiral Alignment Surfaces. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1948-1951.	7.2	31
74	Electric-field-induced transition between the polarization-modulated and ferroelectric smectic-CSPF*liquid crystalline states studied using microbeam x-ray diffraction. <i>Physical Review E</i> , 2005, 71, 011705.	0.8	31
75	MOLECULAR CHIRALITY DUE TO TWISTED CONFORMATION IN A BENT-SHAPED LIQUID CRYSTAL STUDIED BY POLARIZED FT-IR SPECTROSCOPY. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 366, 693-701.	0.3	30
76	Stability of the antiferroelectric phase in dimeric liquid crystals having two chiral centres with CF <sub>3</sub> or CH <sub>3</sub> groups; evaluation of conformational and electric interactions. <i>Journal of Materials Chemistry</i> , 1996, 6, 753.	6.7	29
77	Monodomain Film Formation and Lasing in Dye-Doped Polymer Cholesteric Liquid Crystals. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 6142-6144.	0.8	29
78	Frustrated smectic layer structures in bent-shaped dimer liquid crystals studied by x-ray microbeam diffraction. <i>Physical Review E</i> , 2006, 74, 051703.	0.8	28
79	Simple electro-tunable optical diode using photonic and anisotropic liquid crystal films. <i>Thin Solid Films</i> , 2006, 509, 49-52.	0.8	28
80	Smectic Mesophase Behavior of Dimeric Compounds Showing Antiferroelectricity, Frustration and Chirality. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 1506-1514.	0.8	28
81	Optically Addressed Spatial Light Modulator Using an Antiferroelectric Liquid Crystal Doped with Azobenzene. <i>Japanese Journal of Applied Physics</i> , 1993, 32, L589-L592.	0.8	27
82	Grazing Incidence In-Plane X-Ray Diffraction Study on Oriented Copper Phthalocyanine Thin Films. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 5467-5471.	0.8	27
83	Polarization characteristics of phase retardation defect mode lasing in polymeric cholesteric liquid crystals. <i>Science and Technology of Advanced Materials</i> , 2004, 5, 437-441.	2.8	27
84	Intrinsic chiral domains enantioselectively segregated from twisted nematic cells of bent-core mesogens. <i>Chirality</i> , 2007, 19, 250-254.	1.3	27
85	A Bent and Asymmetrically Hindered Chiral Alkyl Chain in Smectic-A Phase of an Antiferroelectric Liquid Crystal as Observed by <sup>2</sup> H-NMR. <i>Journal of the Physical Society of Japan</i> , 1999, 68, 9-11.	0.7	26
86	A novel smectic liquid crystalline phase exhibited by W-shaped molecules. <i>Journal of Materials Chemistry</i> , 2003, 13, 2880.	6.7	25
87	Molecular Rotation in an Antiferroelectric Liquid Crystal Studied by <sup>13</sup> C-Nuclear Magnetic Resonance Spin-Lattice Relaxation Time Measurement. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 147-150.	0.8	24
88	Sign inversion of liquid-crystal-induced circular dichroism observed in the smectic-A and chiral smectic-C <sub>1</sub> ± phases of binary mixture systems. <i>Physical Review E</i> , 1997, 56, R43-R46.	0.8	23
89	Defect-Mode Lasing from a Three-Layered Helical Cholesteric Liquid Crystal Structure. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 3510-3513.	0.8	23
90	Lasing from Thick Anisotropic Layer Sandwiched between Polymeric Cholesteric Liquid Crystal Films. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 8165-8167.	0.8	22

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91	Several Types of Bilayer Smectic Liquid Crystals with Ferroelectric and Antiferroelectric Properties in Binary Mixture of Dimeric Compounds. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23911-23919.	1.2	22
92	Interpretation of the odd-even behavior for the emergence of ferroelectricity and antiferroelectricity in bent-core mesogens. <i>Physical Review E</i> , 2006, 74, 021704.	0.8	22
93	Molecular design for a cybotactic nematic phase. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3677-3685.	2.7	22
94	Critical Behavior of Layer Compression Modulus near the Smectic-A $\leftrightarrow$ Smectic-C $\pm$ Transition. <i>Physical Review Letters</i> , 2000, 85, 1670-1673.	2.9	21
95	Novel chiral filament in an achiral W-shaped liquid crystalline compound. <i>Journal of Materials Chemistry</i> , 2005, 15, 4688.	6.7	21
96	Achiral flexible liquid crystal trimers exhibiting chiral conglomerates. <i>Soft Matter</i> , 2016, 12, 3331-3339.	1.2	21
97	Magnetic Field Effect on the Alignment of a Discotic Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 329, 589-595.	0.3	20
98	Electrogyration effect in a chiral bent-core molecular system. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003, 20, 314.	0.9	20
99	Smectic- $C^*$ liquid crystals with six-layer periodicity appearing between the ferroelectric and antiferroelectric chiral smectic phases. <i>Physical Review E</i> , 2013, 87, 050503.	0.8	20
100	Local Orientational Analysis of Helical Filaments and Nematic Director in a Nanoscale Phase Separation Composed of Rod-Like and Bent-Core Liquid Crystals Using Small- and Wide-Angle X-ray Microbeam Scattering. <i>Journal of Physical Chemistry B</i> , 2014, 118, 3998-4004.	1.2	20
101	Lowering Threshold by Energy Transfer between Two Dyes in Cholesteric Liquid Crystal Distributed Feedback Lasers. <i>Applied Physics Express</i> , 0, 1, 032002.	1.1	19
102	Influence of the Optical Purity on the Smectic Layer Thickness and the Transition Order in Enantiomeric Mixtures of an Antiferroelectric Liquid Crystal. <i>Japanese Journal of Applied Physics</i> , 1991, 30, L1032-L1035.	0.8	18
103	Hexatic antiferroelectric Sml <sub>A</sub> <sup>*</sup> phase in MHPOCBC. <i>Ferroelectrics</i> , 1993, 147, 135-146.	0.3	18
104	Spontaneous Layer Twist in a Stripe Texture of Chiral Ferroelectric Smectics Observed by Synchrotron X-Ray Microdiffraction. <i>Japanese Journal of Applied Physics</i> , 1996, 35, 683-687.	0.8	18
105	Alignment Mechanism of Nematic Liquid Crystal on Rubbed Polymer Surface Studied by Subsequent Processes of Rubbing and Photoalignment. <i>Japanese Journal of Applied Physics</i> , 2000, 39, L185-L187.	0.8	18
106	Intralayer molecular orientation in the B1 phase of a prototype bent-core molecule P-6-O-PIMB studied by X-ray microbeam diffraction. <i>Journal of Materials Chemistry</i> , 2006, 16, 816-818.	6.7	18
107	Binary mass diffusion in smectic C and C <sub>A</sub> <sup>*</sup> phases as observed by forced Rayleigh scattering. <i>Liquid Crystals</i> , 1995, 18, 639-643.	0.9	17
108	Helicoid-Stabilized Tristable Switching in Ferroelectric Liquid Crystal Mixtures with Ultrashort Pitch. <i>Japanese Journal of Applied Physics</i> , 1997, 36, L784-L787.	0.8	17

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109	Lowering the Lasing Threshold by Introducing Cholesteric Liquid Crystal Films to Dye-Doped Cholesteric Liquid Crystal Cell Surfaces. Japanese Journal of Applied Physics, 2005, 44, 7966-7971.	0.8	17
110	Terahertz spectroscopy in smectic phases of a bent-core molecule. Physical Review E, 2005, 71, 061701.	0.8	17
111	Chiral smectic transition phases appearing near the electric-field-induced phase transition observed by resonant microbeam x-ray scattering. Physical Review E, 2014, 89, 032503.	0.8	17
112	Optically Isotropic Homochiral Structure Produced by Intercalation of Achiral Liquid Crystal Trimers. Journal of Physical Chemistry B, 2016, 120, 4843-4851.	1.2	17
113	Spontaneous Formation of Quasi-Book-shelf Layer Structure in New Ferroelectric Liquid Crystals Derived from a Naphthalene Ring. Molecular Crystals and Liquid Crystals, 1991, 199, 111-118.	0.7	16
114	Patterns in Hybrid Nematic Liquid-Crystal Films: Topography and Topology. Physical Review Letters, 2001, 87, 195507.	2.9	16
115	Lasing in Cholesteric Liquid Crystals Doped with Oligothiophene Derivatives. Japanese Journal of Applied Physics, 2004, 43, 6084-6087.	0.8	16
116	Structure of a $B_6$ -like phase formed from bent-core liquid crystals determined by microbeam x-ray diffraction. Physical Review E, 2007, 76, 042701.	0.8	16
117	Light-Induced Macroscopic Chirality in Thin Films of Achiral Main-Chain Amorphous Polyazourea System. Japanese Journal of Applied Physics, 2006, 45, 447-450.	0.8	15
118	Achiral flexible liquid crystal trimers exhibiting gyroid-like surfaces in chiral conglomerate phases. Soft Matter, 2017, 13, 6521-6528.	1.2	15
119	Dielectric Properties in Ferroelectric Liquid Crystal Mixtures with Ultrashort Pitch. Japanese Journal of Applied Physics, 1998, 37, 6071-6076.	0.8	14
120	Flexoelectric polarization in hybrid nematic films. Physical Review E, 2001, 65, 010701.	0.8	14
121	Synthesis and mesomorphic properties of new chiral banana-shaped liquid crystals with chiral $\beta$ -(alkoxy)prooxy terminal groups. Liquid Crystals, 2005, 32, 1205-1212.	0.9	14
122	Optical cavity with a double-layered cholesteric liquid crystal mirror and its prospective application to solid state laser. Applied Physics Letters, 2006, 89, 241116.	1.5	14
123	Longer-Terminal-Chain-Sensitive Phase Structures in Mixtures and Nonsymmetric Molecules of Bent-Core Mesogens. Japanese Journal of Applied Physics, 2006, 45, L329-L331.	0.8	14
124	Tristable Switching in $SmO^*$ of 1-Methylheptyl-Terephthalidene-Bis-Aminocinnamate (MHTAC) and Its Miscibility with $SmCA^*$ of Antiferroelectric Chiral Smectic Liquid Crystal. Japanese Journal of Applied Physics, 1993, 32, 4605-4610.	0.8	13
125	Tandem (Domino) and Two-Directional Asymmetric Catalysis of Carbonyl-Ene Reaction with Fluoral: Fluoral-Ene Approach to Modeling of Inter-Smectic Layer Interaction of Antiferroelectric Liquid Crystals. Synlett, 1999, 1999, 1895-1898.	1.0	13
126	Effect of optical purity on the critical heat capacity at the smectic-A $\rightarrow$ (chiral)-smectic-C transition in an antiferroelectric liquid crystal. Physical Review E, 2000, 61, 1585-1592.	0.8	13



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127	Helix unwinding process in the chiral smectic C phase of MHPOBC as observed by conoscopy. <i>Liquid Crystals</i> , 2003, 30, 499-505.	0.9	13
128	Electrically controllable polarization-dependent phase grating from photocurable liquid crystals. <i>Journal of Applied Physics</i> , 2004, 95, 5241-5243.	1.1	13
129	Microscopic Orientational Order of Polymer Chains in Helical Polyacetylene Thin Films Studied by Confocal Laser Raman Microscopy. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 1710-1713.	0.8	13
130	Synthesis and Solution-processed Field Effect Transistors of Liquid Crystalline Oligothiophenes. <i>Chemistry Letters</i> , 2007, 36, 708-709.	0.7	13
131	Sharply directed emission in microcavity organic light-emitting diodes with a cholesteric liquid crystal film. <i>Optics Communications</i> , 2007, 273, 167-172.	1.0	13
132	Supermolecular Bent Configuration Composed of Achiral Flexible Liquid Crystal Trimers Exhibiting Chiral Domains with Opposite Handedness. <i>Journal of Physical Chemistry B</i> , 2015, 119, 4531-4538.	1.2	13
133	Linear symmetric liquid crystal trimers exhibiting supramolecular chiral architectures. <i>Soft Matter</i> , 2019, 15, 3179-3187.	1.2	13
134	Layer structure deformation and electro-optic response in electroclinic effect. <i>Ferroelectrics</i> , 1991, 114, 123-130.	0.3	12
135	Layer Compression Modulus in Smectic Liquid Crystals. <i>Journal of the Physical Society of Japan</i> , 2002, 71, 802-807.	0.7	12
136	Characterization of Nematic Phase of Banana Liquid Crystal. <i>Japanese Journal of Applied Physics</i> , 2006, 45, L1013-L1015.	0.8	12
137	Microbeam resonant x-ray scattering from bromine-substituted bent-core liquid crystals. <i>Physical Review E</i> , 2010, 81, 011701.	0.8	12
138	Interlayer Interactions Induced by Amphiphilicities of a Rod-Like Molecule Produce Frustrated Structures in Conventional Calamitic Phases. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13304-13311.	1.2	12
139	Anchoring and alignment in a liquid crystal cell: self-alignment of homogeneous nematic. <i>Soft Matter</i> , 2012, 8, 11526.	1.2	12
140	Chiral conglomerates observed for a binary mixture of a nematic liquid crystal trimer and 6OCB. <i>Soft Matter</i> , 2015, 11, 8827-8833.	1.2	12
141	Unique Superparamagnetic-like Behavior Observed in Non- $\pi$ -Conjugated delocalized Nitroxide Diradical Compounds Showing Discotic Liquid Crystalline Phase. <i>Chemistry - A European Journal</i> , 2018, 24, 17293-17302.	1.7	12
142	Relaxation time of molecular rotation about its long axis in the smectic-A phase of ferroelectric and antiferroelectric liquid crystals as observed by picosecond optical Kerr effect. <i>Physical Review E</i> , 1997, 55, 1632-1636.	0.8	11
143	Helix Unwinding Process in a Short-Pitch Ferroelectric Liquid Crystal Mixture Studied by Conoscopy. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 1335-1337.	0.8	11
144	Dynamic local-layer response of surface-stabilized ferroelectric liquid crystals to a high electric field by time-resolved x-ray microdiffraction. <i>Physical Review E</i> , 2003, 67, 051706.	0.8	11

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146	Amplification of Twisting Power in Chiral Mesophase by Introducing Achiral Rod-like Compound with Ester Group. <i>Chemistry Letters</i> , 2006, 35, 896-897.	0.7	11
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