Atsuo Fukuda

List of Publications by Year
in descending order

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302	11,651	39113	43601
papers	citations	52 h-index	95 g-index

305	305	305	2127
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Variety of subphase emerging sequences, the frustration of three main phases, <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Sm</mml:mi><mml:msubsup><mml:mi>C</mml:mi><mml:mn , <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Sm</mml:mi><mml:msup><mml:mi>C</mml:mi><mml:mi , and <mml:math xmlns:mml="http://www.w3.org/1998/Ma. Physical Review E, 2021, 104, 014705.	0.8	2
2	Dielectric study of a subphase stabilized in an exceptionally wide temperature range by a delicate balance of interlayer interactions and thermal fluctuations. Physical Review E, 2020, 102, 012703.	0.8	2
3	Unexpected electric-field-induced antiferroelectric liquid crystal phase in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Sm</mml:mi><mml:msubsup><mml:mi>C</mml:mi><mml:mi temperature range and the discrete flexoelectric effect. Physical Review E, 2019, 100, 010701.	0.8	4
4	Electric-field-induced transition from SmA to ferroelectric SmC* in MC881, where antiferroelectric SmCA* but not SmC* emerges just below SmA. Molecular Crystals and Liquid Crystals, 2019, 682, 1-7.	0.4	1
5	Topological defects in smectic islands formed in antiferroelectric freestanding nanofilms. Surface Innovations, 2019, 7, 168-173.	1.4	2
6	Resonant x-ray scattering observation of transitional subphases during the electric-field-induced phase transition in a mixture of Se-containing chiral smectic liquid crystals. Physical Review E, 2018, 97, 062702.	0.8	3
7	Orientational action of edge dislocations on the director field in antiferroelectric smectic-CA*films. Physical Review E, 2017, 95, 012711.	0.8	4
8	Definite existence of subphases with eight- and ten-layer unit cells as studied by complementary methods, electric-field-induced birefringence and microbeam resonant x-ray scattering. Physical Review E, 2017, 96, 012701.	0.8	11
9	Two-dimensional hexagonal smectic structure formed by topological defects. Physical Review E, 2016, 93, 032704.	0.8	7
10	Effective long-range interlayer interactions and electric-field-induced subphases in ferrielectric liquid crystals. Physical Review E, 2016, 93, 042707.	0.8	8
11	Transitional subphases near the electric-field-induced phase transition to the ferroelectric phase in Se-containing chiral smectic liquid crystals observed by resonant x-ray scattering. Physical Review E, 2016, 94, 052703.	0.8	7
12	What Are ThresholdLess AntiFerroelectric (TLAF) LCs?â€“Disordered SmC[*]-Like Phase with q_T= 1/2 in a Wide Temperature Range. Molecular Crystals and Liquid Crystals, 2015, 610, 1-22.	0.4	7
13	Degeneracy lifting due to thermal fluctuations around the frustration point between anticlinic antiferroelectric SmCA*and synclinic ferroelectric SmC*. Physical Review E, 2013, 87, 012502.	0.8	12
14	Superlattice structures observed in the extraordinary phase sequence and analyzed by the phenomenological Landau model and the partially molecular model. Physical Review E, 2013, 87, 062506.	0.8	12
15	Discovery of a novel ferrielectric phase of five-layer periodicity in binary mixtures of chiral smectic liquid crystals exhibiting unusual reversed phase sequence. Liquid Crystals, 2011, 38, 663-668.	0.9	28
16	Fin de SiÃ¨cleCompetition, Nematic Active or Smectic Passive, and Resulting Unimaginable Antiferroelectricity and Ferrielectricity â€"LCs in My Memoryâ€". Molecular Crystals and Liquid Crystals, 2011, 546, 171/[1641]-185/[1655].	0.4	0
17	X-ray diffraction study of ferroelectric and antiferroelectric liquid crystal mixtures exhibiting de VriesSmAâ^—-SmCâ^—transitions. Physical Review E, 2010, 81, 050701.	0.8	7
18	Antiferroelectric and ferroelectric orderings in frustrated chiral tilted smectics and a continuous change from anticlinic SmC A * to synclinic SmC *. Europhysics Letters, 2010, 90, 56005.	0.7	12

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19	Orientational order of a ferroelectric liquid crystal with small layer contraction. Physical Review E, 2010, 82, 031702.	0.8	11
20	Realization of Field Sequential Color in Simple Matrix Antiferroelectric Liquid Crystal Displays by Utilizing Fast Pretransitional Response. Applied Physics Express, 2009, 2, 071403.	1.1	3
21	Degeneracy lifting near the frustration points due to long-range interlayer interaction forces and the resulting varieties of polar chiral tilted smectic phases. Liquid Crystals, 2009, 36, 1101-1118.	0.9	29
22	Evolution of Subphases in a Prototype Binary Mixture System as Observed by Electric-Field-Induced Birefringence and Helical Pitch. Molecular Crystals and Liquid Crystals, 2009, 511, 36/[1506]-49/[1519].	0.4	9
23	Electro-optic and dielectric study of the de Vries-type smectic-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mi>A</mml:mi><mml:mo>â^—</mml:mo></mml:msup></mml:mrow></mml:math>ph exhibiting transitions to smectic-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"	0.8	32
24	Gradual phase transition between the smectic-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>C</mml:mi><mml:mo>*</mml:mo></mml:msup></mml:math>and smectic-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msubsup><mml:mi>C</mml:mi><mml:mi>A</mml:mi><mml:mo>*</mml:mo></mml:msubsup></mml:math>pha and the thresholdless antiferroelectricity. Physical Review E, 2008, 78, 041702.	0.8	21
25	Dynamic Mechanism of the Ferroelectric to Antiferroelectric Phase Transition in Chiral Smectic Liquid Crystals. Physical Review Letters, 2008, 101, 097801.	2.9	14
26	Solitary wave propagation in antiferroelectric liquid crystal cells and the quadrupolar term in the interlayer interaction. Physical Review E, 2007, 76, 011708.	0.8	16
27	Sign reversals in the dielectric anisotropy as functions of temperature and frequency in SmA* phase. Applied Physics Letters, 2007, 91, .	1.5	3
28	Temperature-induced sign reversal of biaxiality observed by conoscopy in some ferroelectricSmâ^'C*liquid crystals. Physical Review E, 2007, 76, 011709.	0.8	12
29	Theory of the intermediate tilted smectic phases and their helical rotation. Physical Review E, 2006, 74, 011705.	0.8	39
30	Experimental demonstration, using polarized Raman and infrared spectroscopy, that both conventional and de Vries smectic-Aphases may exist in smectic liquid crystals with a first-orderAâ^'C*transition. Physical Review E, 2006, 74, 051706.	0.8	31
31	Back to the future: 30 years in challenging smectic liquid crystal displays and in clarifying scientific wonders. Liquid Crystals, 2006, 33, 1339-1349.	0.9	2
32	Study of the SmCÎ±* Phase in the Tokyo Mixture by Conoscopy Using Tilted Cell. Ferroelectrics, 2006, 344, 41-47.	0.3	6
33	Discrete flexoelectric polarizations and biaxial subphases with periodicities other than three and four layers in chiral smectic liquid crystals frustrated between ferroelectricity and antiferroelectricity. Physical Review E, 2005, 72, 041705.	0.8	47
34	Two kinds of smectic-CÎ±*subphases in a liquid crystal and their relative stability dependent on the enantiomeric excess as elucidated by electric-field-induced birefringence experiment. Physical Review E, 2005, 71, 021711.	0.8	44
35	Evidence for de Vries structure in a smectic-Aliquid crystal observed by polarized Raman scattering. Physical Review E, 2005, 71, 041705.	0.8	36
36	2Ï€andÏ€walls in antiferroelectric smectic-CA*and smectic-Cfree-standing films. Physical Review E, 2004, 70, 041708.	0.8	11

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37	Molecular Structure of a Partly Deuterated Chiral Smectic Liquid Crystal Studied by Polarized FTIR Spectroscopy. Ferroelectrics, 2004, 311, 97-109.	0.3	3
38	Hayashiet al.Reply:. Physical Review Letters, 2003, 91, .	2.9	1
39	Intrinsic aspect of V-shaped switching in ferroelectric liquid crystals: Biaxial anchoring arising from peculiar short axis biasing in the molecular rotation around the long axis. Physical Review E, 2003, 68, 011702.	0.8	11
40	Fluctuation Forces Stabilizing Two Kinds of Staircases in Chiral Tilted Fluid Smectics Frustrated between Ferro- and Antiferro-Electricity. Molecular Crystals and Liquid Crystals, 2003, 398, 169-187.	0.4	10
41	SYNCLINIC AND ANTICLINIC ORDERING IN FRUSTRATED SMECTICS. Molecular Crystals and Liquid Crystals, 2003, 402, 9-30.	0.4	19
42	Structural transitions in thin free-standing films of an antiferroelectric liquid crystal exhibiting the smectic-CÎ±*phase in the bulk sample. Physical Review E, 2002, 65, 031702.	0.8	15
43	Orientational distributions in smectic liquid crystals showing V-shaped switching investigated by polarized Raman scattering. Physical Review E, 2002, 65, 041714.	0.8	19
44	Molecular Ordering Deformation Induced by Externally Applied Electric Field in an Antiferroelectric Liquid Crystal. Japanese Journal of Applied Physics, 2002, 41, 5292-5297.	0.8	3
45	AC Calorimetric Investigations of Heat Anomaly in Frustoelectric Liquid Crystals. Molecular Crystals and Liquid Crystals, 2001, 364, 335-345.	0.3	1
46	A Frustrated Ferroelectric SmC* Phase Characterized by Peculiar Conoscopic Melatopes and Responsible for the V-Shaped Switching in Liquid Crystals. Japanese Journal of Applied Physics, 2001, 40, L817-L819.	0.8	4
47	ALIGNMENT INSTABILITY INDUCED BY IRRADIATION OF VISIBLE LIGHT IN FRUSTOELECTRIC LIQUID CRYSTALLINE CELLS SHOWING THE V-SHAPED SWITCHING. Molecular Crystals and Liquid Crystals, 2001, 366, 785-795.	0.3	0
48	Probable Langevin-Like Director Reorientation in an Interface-Induced DisorderedSmC*-Like State of Liquid Crystals Characterized by Frustration between Ferro- and Antiferroelectricity. Physical Review Letters, 2001, 87, 015701.	2.9	13
49	V-shaped switching due to frustoelectricity in antiferroelectric liquid crystals. Ferroelectrics, 2000, 246, 1-20.	0.3	22
50	Critical Heat Anomaly in Frustoelectric Liquid Crystals. Molecular Crystals and Liquid Crystals, 2000, 346, 97-106.	0.3	0
51	Molecular model for the anticlinic smectic-CAphase. Physical Review E, 2000, 62, 3724-3735.	0.8	63
52	A Bent and Asymmetrically Hindered Chiral Alkyl Chain in Smectic-A Phase of an Antiferroelectric Liquid Crystal as Observed by2H-NMR. Journal of the Physical Society of Japan, 1999, 68, 9-11.	0.7	26
53	Molecular Rotation in an Antiferroelectric Liquid Crystal Studied by13C-Nuclear Magnetic Resonance Spin-Lattice Relaxation Time Measurement. Japanese Journal of Applied Physics, 1999, 38, 147-150.	0.8	24
54	Relationship between Flexoelectricity and Helical Pitch in Ferroelectric Liquid Crystal Mixtures Containing Host Achiral Compounds and Chiral Dopants. Japanese Journal of Applied Physics, 1999, 38, L580-L582.	0.8	2

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55	Molecular Orientational Structures with Macroscopic Helix in Antiferroelectric Liquid Crystal Subphases. Japanese Journal of Applied Physics, 1999, 38, 4832-4837.	0.8	74
56	Structure of Needlelike Defect in Homogeneously Aligned Cells of a Ferroelectric Liquid Crystal Mixture Studied Using X-Ray Microbeam. Japanese Journal of Applied Physics, 1999, 38, 4132-4135.	0.8	8
57	Target Response Times of Liquid Crystal Displays Estimated by Analyzing the Front and Rear Part Gray Levels of Moving Square Patterns. Japanese Journal of Applied Physics, 1999, 38, L646-L648.	0.8	16
58	Frustration between Ferroelectricity and Antiferroelectricity in Extremely Soft Chiral Smectic-C Like Phases of Liquid Crystals. Molecular Crystals and Liquid Crystals, 1999, 328, 1-12.	0.3	3
59	Chirality Dependence of Molecular Alignment under a High Magnetic Field in an Antiferroelectric Liquid Crystal MHPOBC. Molecular Crystals and Liquid Crystals, 1999, 330, 441-447.	0.3	1
60	A novel property caused by frustration between ferroelectricity and antiferroelectricity and its application to liquid crystal displays-frustoelectricity and V-shaped switching. Journal of Materials Chemistry, 1999, 9, 2051-2080.	6.7	129
61	High-Resolution13C NMR Study of an Antiferroelectric Liquid Crystal:Â Verification of the Bent Chain Structure. Journal of Physical Chemistry B, 1999, 103, 406-416.	1.2	34
62	Photocarrier generation in directly synthesized trans-polyacetylene. Synthetic Metals, 1998, 94, 255-260.	2.1	2
63	Stability of antiferroelectricity and molecular reorientation in the hexatic smectic IA* phase as studied by X-ray diffraction and NMR spectroscopy. Journal of Materials Chemistry, 1998, 8, 1133-1138.	6.7	9
64	Langevin Type Alignment in a Smectic Liquid Crystal Mixture Showing V-Shaped Switching As Studied by Optical Second-Harmonic Generation. Japanese Journal of Applied Physics, 1998, 37, L691-L693.	0.8	35
65	Devil' Staircase and Frustoelectricity in Chiral Smectic-C like Liquid Crystals. Liquid Crystals Today, 1998, 8, 6-8.	2.3	9
66	Evolution of Switching Characteristics from Tristable to V-Shaped in an Apparently Antiferroelectric Liquid Crystal. Japanese Journal of Applied Physics, 1997, 36, 3586-3590.	0.8	56
67	2AgExciton State below1BuExciton State in Trans-Polyacetylene Observed by Second-Harmonic-Generation Spectroscopy. Japanese Journal of Applied Physics, 1997, 36, 1099-1104.	0.8	10
68	Helicoid-Stabilized Tristable Switching in Ferroelectric Liquid Crystal Mixtures with Ultrashort Pitch. Japanese Journal of Applied Physics, 1997, 36, L784-L787.	0.8	17
69	Sign inversion of liquid-crystal-induced circular dichroism observed in the smectic-Aand chiral smectic-CÎ±phases of binary mixture systems. Physical Review E, 1997, 56, R43-R46.	0.8	23
70	Relaxation time of molecular rotation about its long axis in the smectic-A phase of ferroelectricand antiferroelectric liquid crystals as observed by picosecond optical Kerr effect. Physical Review E, 1997, 55, 1632-1636.	0.8	11
71	Synthesis of Mhpobc-d ₃ and Mhpobc-d₄₃ and Behavior of Methyl Group Attached to Chiral Carbon as Observed by FT-IR, Raman and NMR Spectroscopy. Molecular Crystals and Liquid Crystals, 1997, 303, 291-296.	0.3	4
72	Orientational Change of the Trifluoromethyl Group at the Ferroelectric-Antiferroeletric Transition Observed by NMR Spectroscopy. Molecular Crystals and Liquid Crystals, 1997, 301, 203-208.	0.3	3

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73	Synthesis of Tfmhpncbc with Deuterated Achiral Chain and Study of Extremely Bent Chiral Chain in Antiferroelectric Smectic-IA*. Molecular Crystals and Liquid Crystals, 1997, 303, 285-290.	0.3	5
74	Devilâ€™s staircase between antiferroelectric SCA* and ferroelectric SC* phases in liquid crystals observed in free-standing films under temperature gradients. Journal of Materials Chemistry, 1997, 7, 407-416.	6.7	48
75	Electric quadrupole second-harmonic generation spectra in epitaxial vanadyl and titanyl phthalocyanine films grown by molecular-beam epitaxy. Journal of Chemical Physics, 1997, 107, 1687-1691.	1.2	23
76	Surface second-harmonic generation from two interfaces of polyimide film coated on a substrate. Applied Physics Letters, 1997, 71, 2274-2276.	1.5	14
77	Polyquinoxaline as an electron injecting material for electroluminescent device. Synthetic Metals, 1997, 85, 1195-1196.	2.1	53
78	Photocarrier-transporting kinetics in poly(2,3-di(p-tolyl)quinoxaline-5,8-diyl). Synthetic Metals, 1996, 79, 149-153.	2.1	7
79	Absolute Orientation of Pendant Chromophores Attached to the Polymer Backbone in Monolayers at Interfaces Studied by Phase Measurement of Second-Harmonic Generation. Langmuir, 1996, 12, 580-583.	1.6	18
80	Stability of the antiferroelectric phase in dimeric liquid crystals having two chiral centres with CF3 or CH3 groups; evaluation of conformational and electric interactions. Journal of Materials Chemistry, 1996, 6, 753.	6.7	29
81	Thresholdless antiferroelectricity in liquid crystals and its application to displays. Journal of Materials Chemistry, 1996, 6, 671.	6.7	210
82	Etching and restoration of molecular layers in organic metals by means of scanning tunneling microscopy. Thin Solid Films, 1996, 273, 267-271.	0.8	0
83	Surface structure and orientation of polyamic acid alkylamine salt Langmuir-Blodgett films having an azobenzene pendant unit. Thin Solid Films, 1996, 273, 254-257.	0.8	8
84	Thick single crystalline vanadyl phthalocyanine film epitaxially grown on KBr crystal by molecular beam epitaxy. Journal of Crystal Growth, 1996, 160, 279-282.	0.7	12
85	Non-Landau critical behavior of heat capacity at the smectic-Aâ€“smectic-CÎ±*transition of the antiferroelectric liquid crystal methylheptyloxycarbonylphenyl octyloxycarbonylbiphenyl carboxylate. Physical Review E, 1996, 54, 4450-4453.	0.8	9
86	Polyquinoxaline as an excellent electron injecting material for electroluminescent device. Applied Physics Letters, 1996, 68, 2346-2348.	1.5	73
87	Orientational relationship among polyimide alignment layer, liquid crystal monolayer, and bulk pretilt angle. Applied Physics Letters, 1996, 69, 164-166.	1.5	25
88	Obliquely projecting chiral alkyl chains and their precession around the long core axes in the smectic-Aphase of an antiferroelectric liquid crystal. Physical Review E, 1996, 53, R4295-R4298.	0.8	65
89	Resonant enhancement of second-harmonic generation of electric quadrupole origin in phthalocyanine films. Physical Review B, 1996, 53, R13314-R13317.	1.1	37
90	Anisotropic second-harmonic generation of electric quadrupolar origin in copper phthalocyanine films epitaxially grown by molecular-beam epitaxy. Physical Review B, 1996, 53, 12663-12665.	1.1	16

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91	Surface Orientation of Cyanobiphenyl Liquid Crystal Monolayer and Pretilt Angle under Various Rubbing Strengths. Japanese Journal of Applied Physics, 1996, 35, 2275-2279.	0.8	21
92	Spontaneous Layer Twist in a Stripe Texture of Chiral Ferroelectric Smectics Observed by Synchrotron X-Ray Microdiffraction. Japanese Journal of Applied Physics, 1996, 35, 683-687.	0.8	18
93	Grating Polarizing Beam-Splitter Using Oriented Polydiacetylene Thin Film. Japanese Journal of Applied Physics, 1996, 35, 508-509.	0.8	3
94	Orientation of Vanadyl Phthalocyanine Grown by Molecular Beam Epitaxy on KBr-KCl Mixed Crystals with Various Lattice Constants. Japanese Journal of Applied Physics, 1996, 35, L1120-L1123.	0.8	11
95	Orientation of Liquid Crystal Molecules on Side-Chain Polyimide Alignment Layer Studied by Second-Harmonic Generation Interferometry. Japanese Journal of Applied Physics, 1996, 35, 3971-3974.	0.8	9
96	Observation of the Electric-Dipole-Forbidden States in Polydiacetylene by Means of Resonance Second-Harmonic Generation Spectroscopy. Japanese Journal of Applied Physics, 1996, 35, L832-L834.	0.8	8
97	Molecular Fluctuations in Smectic Phases Possessing Antiferroelectric Ordering. Japanese Journal of Applied Physics, 1996, 35, 6157-6161.	0.8	9
98	Photoinduced Destruction of Polar Structure in Dye-Pendant Polymers Studied by Second-Harmonic Generation. Japanese Journal of Applied Physics, 1996, 35, 168-174.	0.8	16
99	Determination of Optical Constants of Polyquinoxalines as Electroluminescent Materials. Japanese Journal of Applied Physics, 1996, 35, 761-764.	0.8	3
100	Observation of Molecular Layers in (2-(4,5-bis(thiomethyl)-1,3-dithiol-2-ylidene)-5-) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td ((4,5-et of Scanning Tunneling Microscopy. Japanese Journal of Applied Physics, 1996, 35, 234-241.	0.8	10
101	Spontaneous polarization parallel to the tilt plane in the antiferroelectric chiral smectic-CAphase of liquid crystals as observed by polarized infrared spectroscopy. Physical Review E, 1995, 52, R2153-R2156.	0.8	103
102	Higher smectic-layer order parameters in liquid crystals determined by x-ray diffraction and the effect of antiferroelectricity. Physical Review E, 1995, 51, 400-406.	0.8	64
103	Orientation of alkyl chains and hindered rotation of carbonyl groups in the smectic-C*phase of antiferroelectric liquid crystals studied by polarized Fourier transform infrared spectroscopy. Physical Review E, 1995, 51, 2166-2175.	0.8	116
104	Second-harmonic generation in centrosymmetric molecular films: Analysis under anisotropic conditions. Physical Review B, 1995, 52, 12355-12365.	1.1	45
105	Binary mass diffusion in smectic C and C^Aphases as observed by forced Rayleigh scattering. Liquid Crystals, 1995, 18, 639-643.	0.9	17
106	Modified Crystal Rotation Method for Measuring High Pretilt Angle in Liquid Crystal Cells. Japanese Journal of Applied Physics, 1995, 34, 4905-4906.	0.8	20
107	Accuracy of Nematic Visco-Elastic Constant Measurement Using Rayleigh Scattered Light. Japanese Journal of Applied Physics, 1995, 34, 5694-5699.	0.8	1
108	Origin of Second-Harmonic Generation in Vacuum-Evaporated Copper Phthalocyanine Film. Japanese Journal of Applied Physics, 1995, 34, L299-L302.	0.8	14

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109	Surface Orientation of Polyimide Alignment Layer Studied by Optical Second-Harmonic Generation. Japanese Journal of Applied Physics, 1995, 34, L316-L319.	0.8	27
110	The Importance of the Electric Interaction for Stabilizing the Antiferroelectric Smectic Liquid-Crystalline Phase. Japanese Journal of Applied Physics, 1995, 34, L830-L832.	0.8	7
111	Photoconductive properties of poly(2,3-di(p-tolyl)quinoxaline-5,8-diyl). Synthetic Metals, 1995, 74, 43-48.	2.1	10
112	Ir and Raman studies in three polyanilines with different oxidation level. Synthetic Metals, 1995, 69, 175-176.	2.1	87
113	In-Situ Observation of SHG and its Origin in Vacuum Deposited Copper Phthalocyanine Film. Molecular Crystals and Liquid Crystals, 1995, 267, 1-6.	0.3	9
114	Circular dichroism in ferroelectric and antiferroelectric liquid crystals. Liquid Crystals, 1995, 18, 239-250.	0.9	29
115	Phase transitions and conformational changes in an antiferroelectric liquid crystal 4-(1-methylheptyloxycarbonyl)phenyl 4â€²-octyloxybiphenyl-4-carboxylate (MHPOBC). Liquid Crystals, 1994, 16, 185-202.	0.9	34
116	Application of Antiferroelectric Liquid Crystals for Display and Photoaddressed Spatial Light Modulator. Molecular Crystals and Liquid Crystals, 1994, 255, 253-259.	0.3	2
117	Thickness Dependence of the Epitaxial Structure of Vanadyl Phthalocyanine Film. Japanese Journal of Applied Physics, 1994, 33, L1555-L1558.	0.8	32
118	Direct Synthesis of Trans Polyacetylene Films with Conjugated System of Long Average Length and Narrow Distribution. Japanese Journal of Applied Physics, 1994, 33, L953-L956.	0.8	7
119	Molecular Orientation and Switching Behavior in Antiferroelectric Liquid Crystals Studied by Polarized Raman Scattering. Japanese Journal of Applied Physics, 1994, 33, 5850-5859.	0.8	31
120	Various orientations of pendant dye attached to polyamic acid Langmuir and Langmuir-Blodgett films studied by an optical second-harmonic generation interferometry technique. Thin Solid Films, 1994, 244, 754-757.	0.8	6
121	Unusual crystal orientation and its control in 4-(N, N-dimethylamino)-3-acetamidonitrobenzene (DAN) in glass capillary. Journal of Crystal Growth, 1994, 143, 66-70.	0.7	3
122	Antiferroelectric chiral smectic liquid crystals. Journal of Materials Chemistry, 1994, 4, 997.	6.7	624
123	Devil's staircase and racemization in antiferroelectric liquid crystals. Journal of Materials Chemistry, 1994, 4, 237.	6.7	37
124	Imidization Process in a Dye-Labeled Poly(amic Acid) Langmuir-Blodgett Film Studied by Optical Second-Harmonic Generation. Langmuir, 1994, 10, 1160-1163.	1.6	9
125	Novel Orientation of Azobenzene Pendant Group in Hybrid Monolayers Composed of Polyimide Langmuir-Blodgett Film and Alkyl Polysiloxane Self-Assembled Monolayer. Langmuir, 1994, 10, 4599-4605.	1.6	10
126	Selective dissociation of merocyanine J-aggregates with linearly polarized laser light studied by optical second harmonic generation. Thin Solid Films, 1993, 226, 173-177.	0.8	3

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127	Devilâ€™s staircase formed by competing interactions stabilizing the ferroelectric smectic-C*phase and the antiferroelectric smectic-CA*phase in liquid crystalline binary mixtures. Physical Review B, 1993, 48, 13439-13450.	1.1	129
128	Dielectric relaxation modes in the antiferroelectric smectic CA* phase. Ferroelectrics, 1993, 147, 13-25.	0.3	117
129	Organic Thin Films Studied by Surface Second-Harmonic Generation. Molecular Crystals and Liquid Crystals, 1993, 227, 93-112.	0.3	6
130	Photochemical Control of Switching Behaviors of Ferroelectric Polymer Liquid Crystals: Poly(2-methylbutyl 4â€²-(10-acryloyloxydecyloxy)-biphenyl-4-carboxylate). Molecular Crystals and Liquid Crystals, 1993, 225, 67-79.	0.3	8
131	Anisotropy of Dye Diffusion in Smectic Phases Studied by Forced Rayleigh Scattering. Molecular Crystals and Liquid Crystals, 1993, 231, 153-161.	0.3	8
132	Does the disclination line exist in a homogeneously aligned SmCa* cell?. Ferroelectrics, 1993, 149, 61-68.	0.3	9
133	Combined defect of 2Ï€ wedge disclination and Ï€ dispiration in the anticlinic molecular orientation. Ferroelectrics, 1993, 149, 133-138.	0.3	5
134	Subphases in antiferroelectric liquid crystalline binary mixtures with infinite helical pitch or zero spontaneous polarization. Ferroelectrics, 1993, 147, 121-134.	0.3	17
135	Second-Harmonic Generation in Antiferroelectric Liquid Crystal. Japanese Journal of Applied Physics, 1993, 32, 4589-4593.	0.8	7
136	Molecular Orientation of Poly(2,2â€²;-Bipyridine-5,5â€²-Diyl) Film Prepared by Vacuum Deposition on the Glass Substrate as Determined with SHG Technique. Molecular Crystals and Liquid Crystals, 1993, 226, 207-212.	0.3	0
137	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
138	Construction of Dynamic Conoscope Observation System Using CCD Camera and Image Processor. Japanese Journal of Applied Physics, 1993, 32, 985-988.	0.8	27
139	Study on Molecular Dimerization Inducing the Antiferroelectric Liquid Crystalline Phase by Measuring the Smectic Layer Thickness in Various Compounds. Japanese Journal of Applied Physics, 1993, 32, L97-L100.	0.8	41
140	Optically Addressed Spatial Light Modulator Using an Antiferroelectric Liquid Crystal Doped with Azobenzene. Japanese Journal of Applied Physics, 1993, 32, L589-L592.	0.8	27
141	Photoisomerization Observed by Means of Scanning Tunneling Microscopy. Japanese Journal of Applied Physics, 1993, 32, L936-L939.	0.8	8
142	Hexatic antiferroelectric SmI_A[*]phase in MHPOCBC. Ferroelectrics, 1993, 147, 135-146.	0.3	18
143	Second harmonic generation in disperseâ€redâ€labeled poly(methyl methacrylate) Langmuirâ€“Blodgett film. Applied Physics Letters, 1993, 62, 2161-2163.	1.5	13
144	Gray scale recording by optically addressed spatial light modulator using antiferroelectric liquid crystal. Ferroelectrics, 1993, 149, 273-281.	0.3	4

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302	Ferrielectric six-layer () and several electric-field-induced subphases in AS657 studied by complementary methods, electric-field-induced birefringence and microbeam resonant X-ray scattering. Liquid Crystals, 0, , 1-19.	0.9	6