Atsuo Fukuda

List of Publications by Year
in descending order

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302	11,651	34105	38395
papers	citations	52 h-index	95 g-index

305	305	305	1919
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Antiferroelectric Chiral Smectic Phases Responsible for the Trislable Switching in MHPOBC. Japanese Journal of Applied Physics, 1989, 28, L1265-L1268.	1.5	697
2	Antiferroelectric chiral smectic liquid crystals. Journal of Materials Chemistry, 1994, 4, 997.	6.7	624
3	Direct Method with Triangular Waves for Measuring Spontaneous Polarization in Ferroelectric Liquid Crystals. Japanese Journal of Applied Physics, 1983, 22, L661-L663.	1.5	542
4	Novel Phases Exhibiting Tristable Switching. Japanese Journal of Applied Physics, 1989, 28, L1261-L1264.	1.5	411
5	Tristable Switching in Surface Stabilized Ferroelectric Liquid Crystals with a Large Spontaneous Polarization. Japanese Journal of Applied Physics, 1988, 27, L729-L732.	1.5	400
6	Jahn-Teller Effect on the Structure of the Emission Produced by Excitation in theABand of KI: Tl-Type Phosphors. Two Kinds of Minima on theÎ“4â^'(T1u3)Adiabatic Potential-Energy Surface. Physical Review B, 1970, 1, 4161-4178.	3.2	253
7	Molecular Orientational Structures in Ferroelectric, Ferrielectric and Antiferroelectric Smectic Liquid Crystal Phases as Studied by Conoscope Observation. Japanese Journal of Applied Physics, 1990, 29, 131-137.	1.5	239
8	Stability of Antiferroelectricity and Causes for its Appearance in SmCÎ±*and SmCA*Phases of a Chiral Smectic Liquid Crystal, MHPOBC. Japanese Journal of Applied Physics, 1991, 30, 2023-2027.	1.5	237
9	Thresholdless antiferroelectricity in liquid crystals and its application to displays. Journal of Materials Chemistry, 1996, 6, 671.	6.7	210
10	Switching Process in Ferroelectric Liquid Crystals; Disclination Dynamics of the Surface Stabilized States. Japanese Journal of Applied Physics, 1987, 26, 1-14.	1.5	152
11	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.	3.2	129
12	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
13	Observation of Three Subphases in Smectic C*of MHPOBC by Dielectric Measurements. Japanese Journal of Applied Physics, 1990, 29, L103-L106.	1.5	127
14	Frequency-Dependent Switching Behavior under Triangular Waves in Antiferroelectric and Ferrielectric Chiral Smectic Phases. Japanese Journal of Applied Physics, 1990, 29, 1122-1127.	1.5	120
15	Electric-Field-Induced Apparent Tilt Angle and Devil's Staircase in SmCÎ±*of an Antiferroelectric Chiral Smectic Liquid Crystal. Japanese Journal of Applied Physics, 1991, 30, L1819-L1822.	1.5	118
16	Dielectric relaxation modes in the antiferroelectric smectic CA* phase. Ferroelectrics, 1993, 147, 13-25.	0.6	117
17	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.	2.1	116
18	Zig-Zag Defects and Disclinations in the Surface-Stabilized Ferroelectric Liquid Crystals. Japanese Journal of Applied Physics, 1988, 27, 1-7.	1.5	111

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19	Temporal and Spatial Behavior of the Field-Induced Transition between Antiferroelectric and Ferroelectric Phases in Chiral Smectics. Japanese Journal of Applied Physics, 1990, 29, L107-L110.	1.5	108
20	Smectic C*Chevron Layer Structure Studied by X-Ray Diffraction. Japanese Journal of Applied Physics, 1988, 27, L725-L728.	1.5	103
21	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.	2.1	103
22	Novel Temperature Dependences of Helical Pitch in Ferroelectric and Antiferroelectric Chiral Smectic Liquid Crystals. Japanese Journal of Applied Physics, 1991, 30, 532-536.	1.5	100
23	Competition between Ferroelectric and Antiferroelectric Interactions Stabilizing Varieties of Phases in Binary Mixtures of Smectic Liquid Crystals. Japanese Journal of Applied Physics, 1992, 31, L1435-L1438.	1.5	100
24	Polarization of luminescence in KBr:T1 type crystals due to the Jahn-Teller effect. Journal of Physics and Chemistry of Solids, 1967, 28, 1763-1780.	4.0	96
25	Determination of Ki (i = 1â€“3) and Î¼j (j = 2â€“6) in 5CB by observing the angular dependence of Rayleigh line spectral widths. Liquid Crystals, 1989, 5, 341-347.	2.2	90
26	Ir and Raman studies in three polyanilines with different oxidation level. Synthetic Metals, 1995, 69, 175-176.	3.9	87
27	Temperature Sensitive Helical Pitches and Wall Anchoring Effects in Homogeneous Monodomains of Ferroelectric Sm C*Liquid Crystals,nOBAMBC (n=6-10). Japanese Journal of Applied Physics, 1982, 21, 224-229.	1.5	85
28	High Quality Ferroelectric Liquid Crystal Display with Quasi-Bookshelf Layer Structure. Japanese Journal of Applied Physics, 1989, 28, L483-L486.	1.5	84
29	Visual observation of dispirations in liquid crystals. Physical Review B, 1992, 45, 7684-7689.	3.2	84
30	Simple method for confirming the antiferroelectric structure of smectic liquid crystals. Journal of Materials Chemistry, 1992, 2, 71.	6.7	84
31	Structure of the C Absorption Band of Tl+-Type Centers in Alkali Halides Due to the Jahn-Teller Effect. Journal of the Physical Society of Japan, 1969, 27, 96-109.	1.6	83
32	Antiferroelectric phase and tristable-switching in MHPOBC. Ferroelectrics, 1991, 114, 187-197.	0.6	83
33	Two Kinds of Switching Processes in Surface Stabilized Ferroelectric Liquid Crystals. Japanese Journal of Applied Physics, 1987, 26, L21-L24.	1.5	82
34	Experimental Studies on Reflection Spectra in Monodomain Cholesteric Liquid Crystal Cells: Total Reflection, Subsidiary Oscillation and Its Beat or Swell Structure. Japanese Journal of Applied Physics, 1983, 22, 1080-1091.	1.5	81
35	Conoscopic study of the ScÎ±â^— phase and the Devil's staircase in an antiferroelectric liquid crystal. Liquid Crystals, 1992, 12, 59-70.	2.2	80
36	Giant Electroclinic Effect in Chiral Smectic A Phase of Ferroelectric Liquid Crystals. Japanese Journal of Applied Physics, 1987, 26, L1787-L1789.	1.5	76

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37	Electric-Field-Induced Transitions among Antiferroelectric, Ferrielectric and Ferroelectric Phases in a Chiral Smectic MHPOBC. Japanese Journal of Applied Physics, 1990, 29, L1473-L1476.	1.5	75
38	Molecular Orientational Structures with Macroscopic Helix in Antiferroelectric Liquid Crystal Subphases. Japanese Journal of Applied Physics, 1999, 38, 4832-4837.	1.5	74
39	Polyquinoxaline as an excellent electron injecting material for electroluminescent device. Applied Physics Letters, 1996, 68, 2346-2348.	3.3	73
40	A, B and C Bands in KCl : In and KCl : Sn. Journal of the Physical Society of Japan, 1964, 19, 1274-1280.	1.6	68
41	First Order Paraelectric-Antiferroelectric Phase Transition in a Chiral Smectic Liquid Crystal of a Fluorine Containing Phenyl Pyrimidine Derivative. Japanese Journal of Applied Physics, 1990, 29, L987-L990.	1.5	66
42	Layer structure and electro-optic properties in surface stabilized ferroelectric liquid crystal cells. Ferroelectrics, 1988, 85, 99-109.	0.6	65
43	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.	2.1	65
44	Angle Phase Matching in Second Harmonic Generation from a Ferroelectric Liquid Crystal. Japanese Journal of Applied Physics, 1989, 28, L997-L999.	1.5	64
45	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.	2.1	64
46	Determination of Helical Pitch in Homeotropic Cell of Chiral Smectic C Liquid Crystal Using F-Center Laser. Japanese Journal of Applied Physics, 1982, 21, L627-L629.	1.5	63
47	Molecular model for the anticlinic smectic-CAphase. Physical Review E, 2000, 62, 3724-3735.	2.1	63
48	Reentrant Antiferroelectric Phase in 4-(1-Methylheptyloxycarbonyl) phenyl 4'-Octylbiphenyl-4-Carboxylate. Japanese Journal of Applied Physics, 1992, 31, L793-L796.	1.5	62
49	Chevron Layer Structure in the Smectic A Phase of 8CB. Japanese Journal of Applied Physics, 1989, 28, L487-L489.	1.5	60
50	Viscosity Measurement in Ferroelectric Liquid Crystals Using a Polarization Switching Current. Japanese Journal of Applied Physics, 1987, 26, L255-L257.	1.5	59
51	Invited Lecture. Complexities in the structure of ferroelectric liquid crystal cells The chevron structure and twisted states. Liquid Crystals, 1989, 5, 1055-1073.	2.2	59
52	Evolution of Switching Characteristics from Tristable to V-Shaped in an Apparently Antiferroelectric Liquid Crystal. Japanese Journal of Applied Physics, 1997, 36, 3586-3590.	1.5	56
53	Polyquinoxaline as an electron injecting material for electroluminescent device. Synthetic Metals, 1997, 85, 1195-1196.	3.9	53
54	Alignment Controls and Switching Characteristics in a Ferroelectric Liquid Crystal with the Phase Sequence of N*-SC*. Japanese Journal of Applied Physics, 1986, 25, 1762-1767.	1.5	51

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55	Symmetry and Second-Order Susceptibility of Hemicyanine Monolayer Studied by Surface Second-Harmonic Generation. Japanese Journal of Applied Physics, 1991, 30, 1050-1062.	1.5	49
56	A Practical Method of Preparing Thin Homogeneous Ferroelectric Smectic Cells for Electro-Optical Microsecond Switches (II): Sm A Liquid Crystal Growth under a Temperature Gradient. Japanese Journal of Applied Physics, 1984, 23, L211-L213.	1.5	48
57	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
58	Preparation of Monodomain Cells of Ferroelectric Liquid Crystals and Their Evaluation with an Optical Microscope. Japanese Journal of Applied Physics, 1981, 20, 1773-1777.	1.5	47
59	A Practical Method of Preparing Thin Homogeneous Ferroelectric Smectic Cells for Electro-Optical Microsecond Switches: Alignment Control of Liquid Crystal Molecules by Utilizing Spacer Edges. Japanese Journal of Applied Physics, 1983, 22, L85-L87.	1.5	47
60	Binary Mass Diffusion Constants in Nematic Liquid Crystals Studied by Forced Rayleigh Scattering. Japanese Journal of Applied Physics, 1984, 23, 1420-1425.	1.5	47
61	Correspondence between Stroboscopic Micrographs and Spontaneous Polarization Measurements in Surface Stabilized Ferroelectric Liquid Crystal Cells. Japanese Journal of Applied Physics, 1985, 24, L235-L238.	1.5	47
62	Smectic Layer Switching by an Electric Field in Ferroelectric Liquid Crystal Cells. Japanese Journal of Applied Physics, 1989, 28, L119-L120.	1.5	47
63	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.	2.1	47
64	Relation between Spontaneous Polarization and Rotational Viscosity in Enantiomeric Mixtures of Ferroelectric Liquid Crystals. Japanese Journal of Applied Physics, 1988, 27, L276-L279.	1.5	45
65	Chevron Layer Structure and Parabolic Focal Conics in Smectic A Liquid Crystals. Japanese Journal of Applied Physics, 1989, 28, 2547-2551.	1.5	45
66	Second-harmonic generation in centrosymmetric molecular films: Analysis under anisotropic conditions. Physical Review B, 1995, 52, 12355-12365.	3.2	45
67	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.	2.1	44
68	Light Propagation in Williams Domains as Analyzed Numerically by Geometrical Optics. Japanese Journal of Applied Physics, 1983, 22, 394-399.	1.5	43
69	Smectic Layer Structure of Thin Ferroelectric Liquid Crystal Cells Aligned by SiO Oblique Evaporation Technique. Japanese Journal of Applied Physics, 1988, 27, L1993-L1995.	1.5	43
70	Self-Recovery from Alignment Damage under AC Fields in Antiferroelectric and Ferroelectric Liquid Crystal Cells. Japanese Journal of Applied Physics, 1991, 30, 735-740.	1.5	42
71	Numerical Calculation of Optical Eigenmodes in Cholesteric Liquid Crystals by 4Ã—4 Matrix Method. Japanese Journal of Applied Physics, 1982, 21, 1543-1546.	1.5	41
72	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.	1.5	41

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73	Determination of Twist Elastic ConstantK22in 5CB by Four Independent Light-Scattering Techniques. Japanese Journal of Applied Physics, 1987, 26, 1959-1966.	1.5	40
74	Correspondence between Smectic Layer Switching and DC Hysteresis of Apparent Tilt Angle in an Antiferroelectric Liquid Crystal Mixture. Japanese Journal of Applied Physics, 1990, 29, L111-L114.	1.5	39
75	Theory of the intermediate tilted smectic phases and their helical rotation. Physical Review E, 2006, 74, 011705.	2.1	39
76	Forced Rayleigh Scattering innCB's (n=5-9) with Methyl Red and Binary Mass Diffusion Constants. Japanese Journal of Applied Physics, 1986, 25, 1756-1761.	1.5	38
77	Molecular Orientation Structures of Surface Stablized States and Their Switching Processes in Ferroelectric Liquid Crystals. Molecular Crystals and Liquid Crystals, 1986, 139, 27-46.	0.8	37
78	Dielectric Behavior and the Devil's Staircase in the SmCÎ±*Phase of an Antiferroelectric Liquid Crystal, 4-(1-methylheptyloxycarbonyl)phenyl 4â€²-octylcarbonyloxybiphenyl-4-carboxylate. Japanese Journal of Applied Physics, 1992, 31, 3394-3398.	1.5	37
79	Devil's staircase and racemization in antiferroelectric liquid crystals. Journal of Materials Chemistry, 1994, 4, 237.	6.7	37
80	Resonant enhancement of second-harmonic generation of electric quadrupole origin in phthalocyanine films. Physical Review B, 1996, 53, R13314-R13317.	3.2	37
81	Effect of a Vacancy on the Jahn-Teller-DistortedÎ“4â^'Excited States in KI:Sn2+as Observed in Polarized Luminescence. Physical Review Letters, 1971, 26, 314-318.	7.8	36
82	Cotton-Mouton Effect of Alkyl- and Alkoxy-Cyanobiphenyls in Isotropic Phase. Japanese Journal of Applied Physics, 1979, 18, 2073-2080.	1.5	36
83	Methods for Preparing SSFLC Cells and their Electro-Optical Properties. Molecular Crystals and Liquid Crystals, 1985, 122, 175-190.	0.8	36
84	On the appearance of the antiferroelectric phase. Ferroelectrics, 1991, 122, 167-176.	0.6	36
85	Evidence for de Vries structure in a smectic-Aliquid crystal observed by polarized Raman scattering. Physical Review E, 2005, 71, 041705.	2.1	36
86	Experimental Observation of the Total Reflection by a Monodomain Cholesteric Liquid Crystal. Japanese Journal of Applied Physics, 1982, 21, L390-L392.	1.5	35
87	Determination of the Frank Elastic Constant Ratios in Nematic Liquid Crystals (nCB) by Observing Angular Dependence of Rayleigh Light Scattering Intensity. Molecular Crystals and Liquid Crystals, 1985, 122, 161-168.	0.8	35
88	Molecular Orientation in Mixed Monolayers of Hemicyanine and Fatty Acid at an Air/Water Interface Studied by Second Harmonic Generation. Japanese Journal of Applied Physics, 1990, 29, 750-755.	1.5	35
89	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.	1.5	35
90	Absorption Bands of Paired-Ion Centers (Ga+)2, (In+)2and (Tl+)2in KI. Journal of the Physical Society of Japan, 1969, 26, 1006-1013.	1.6	34

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91	Two Kinds of Boundary Motions in Thin Ferroelectric Smectic C*Liquid Crystals. Japanese Journal of Applied Physics, 1985, 24, L230-L232.	1.5	34
92	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.	2.2	34
93	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.	2.6	34
94	Dielectric Studies on Antiferroelectric Liquid Crystals. Molecular Crystals and Liquid Crystals, 1991, 199, 197-205.	0.7	33
95	Mirrorless Microcavity Spontaneously Formed in Ferroelectric Liquid Crystals. Japanese Journal of Applied Physics, 1992, 31, L679-L681.	1.5	33
96	Unusually Large Change in Radiative Lifetime of theA-Band Emission in KI:In+and KI:Sn2+Induced by a Magnetic Field. Physical Review Letters, 1972, 28, 1032-1034.	7.8	32
97	Thickness Dependence of the Epitaxial Structure of Vanadyl Phthalocyanine Film. Japanese Journal of Applied Physics, 1994, 33, L1555-L1558.	1.5	32
98	Electro-optic and dielectric study of the de Vriesâ€“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>pha exhibiting transitions to smectic-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msubsup><mml:mi>C</mml:mi><mml:mi>A</mml:mi><mml:mo>â^—</mml:mo></mml:msubsup><mml:mo></mml:mo></mml:mrow></mml:math> smectic-<mml:math xmlns:mml="http://www.w3.org/1998/Ma. Physical Review E, 2008, 77, 041707.	2.1	32
99	Molecular Orientation and Switching Behavior in Antiferroelectric Liquid Crystals Studied by Polarized Raman Scattering. Japanese Journal of Applied Physics, 1994, 33, 5850-5859.	1.5	31
100	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.	2.1	31
101	Relaxed excited states determined by Jahn-Teller effect in Ti+-type centers in alkali halides. Journal of Luminescence, 1976, 12-13, 139-149.	3.1	30
102	Temperature Variation of Helical Pitches in Chiral Smectic C Liquid Crystals as Observed with an Optical Microscope. Japanese Journal of Applied Physics, 1980, 19, 2293-2294.	1.5	29
103	Surface-Induced Helix-Unwinding Process in Thin Homogeneous Ferroelectric Smectic Cells of DOBAMBC. Japanese Journal of Applied Physics, 1983, 22, L294-L296.	1.5	29
104	Importance of Controlling Material Constants to Realize Bistable Uniform States in Surface Stabilized Ferroelectric Liquid Crystal Cells. Japanese Journal of Applied Physics, 1986, 25, L27-L29.	1.5	29
105	Circular dichroism in ferroelectric and antiferroelectric liquid crystals. Liquid Crystals, 1995, 18, 239-250.	2.2	29
106	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
107	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.	2.2	29
108	Reentrant Distorted Sm C*Observed under Electric Field in Ferroelectric Smectic Liquid Crystals, nOBAMBC. Japanese Journal of Applied Physics, 1983, 22, L43-L45.	1.5	28

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109	Molecular Selective Pre-Tilt on Glass Surfaces and Color Difference between Two Twisted States in Surface Stabilized Ferroelectric Liquid Crystal Cells. Japanese Journal of Applied Physics, 1986, 25, L206-L208.	1.5	28
110	Structure of Twisted States in Ferroelectric Liquid Crystals Studied by Microspectrophotometry and Numerical Calculations. Japanese Journal of Applied Physics, 1988, 27, 8-13.	1.5	28
111	Noncentrosymmetric Structure of Merocyanine J-Aggregate Assembly Studied by Second-Harmonic Generation. Japanese Journal of Applied Physics, 1991, 30, L1525-L1528.	1.5	28
112	Investigations of Soft-Mode and Electroclinic Response in a Ferroelectric Liquid Crystal withPsâ‰ˆ5 mC/m2. Japanese Journal of Applied Physics, 1992, 31, 1409-1413.	1.5	28
113	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.	2.2	28
114	Magnetic Field Effect on the Triplet Relaxed Excited States Responsible for the ATand AXEmission Bands of Ga+and In+Centers in Alkali Halides. Journal of the Physical Society of Japan, 1976, 40, 776-783.	1.6	27
115	Birefringence in the Sm A Phase and the Disappearance of Helicoidal Structure in the Sm C*Phase Caused by an Electric Field in DOBAMBC. Japanese Journal of Applied Physics, 1978, 17, 1219-1224.	1.5	27
116	Determination of the Frank Elastic Constant Ratios in MBBA by Observing the Angular Dependence of Rayleigh Scattering. Japanese Journal of Applied Physics, 1979, 18, 1599-1600.	1.5	27
117	Construction of Dynamic Conoscope Observation System Using CCD Camera and Image Processor. Japanese Journal of Applied Physics, 1993, 32, 985-988.	1.5	27
118	Optically Addressed Spatial Light Modulator Using an Antiferroelectric Liquid Crystal Doped with Azobenzene. Japanese Journal of Applied Physics, 1993, 32, L589-L592.	1.5	27
119	Fluctuations in the ferrielectric smectic-Cî³* phase as observed by laser beam diffraction and photon correlation spectroscopy. Ferroelectrics, 1993, 147, 147-157.	0.6	27
120	Surface Orientation of Polyimide Alignment Layer Studied by Optical Second-Harmonic Generation. Japanese Journal of Applied Physics, 1995, 34, L316-L319.	1.5	27
121	Experimental Study on Higher Order Reflection by Monodomain Cholesteric Liquid Crystals. Molecular Crystals and Liquid Crystals, 1983, 101, 329-340.	0.8	26
122	Binary Mass Diffusion Measurements in Nematic and Smectic Liquid Crystals by Forced Rayleigh Scattering. Molecular Crystals and Liquid Crystals, 1985, 122, 169-174.	0.8	26
123	Accurate Determination ofK1/î·splay,K2/î·twistandK3/î·bendin Nematic Liquid Crystalsby Using Photon Correlation Spectroscopy. Japanese Journal of Applied Physics, 1986, 25, L607-L610.	1.5	26
124	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.	1.6	26
125	Hydrostatic Pressure Effects on the Triplet Relaxed Excited States of KI: Tl+-Type Phosphors through the Quadratic Jahn-Teller Interaction. Journal of the Physical Society of Japan, 1977, 43, 2013-2020.	1.6	25
126	Causes for the Appearance of Fringes in Cholesterics, Williams Domains and Chiral Smectic C Liquid Crystals. Japanese Journal of Applied Physics, 1981, 20, 1779-1785.	1.5	25

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127	Orientational relationship among polyimide alignment layer, liquid crystal monolayer, and bulk pretilt angle. Applied Physics Letters, 1996, 69, 164-166.	3.3	25
128	Optical Second Harmonic Generation from Poled Thin Films of Aromatic Polyurea Prepared by Vapor Deposition Polymerization. Japanese Journal of Applied Physics, 1991, 30, L1737-L1740.	1.5	24
129	Second-Harmonic Generation in Poly(vinylidene fluoride) Films Prepared by Vapor Deposition under an Electric Field. Japanese Journal of Applied Physics, 1992, 31, L1195-L1197.	1.5	24
130	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.	1.5	24
131	Determination of Chevron Direction and Sign of the Boat-Shaped Disclination in Surface-Stabilized Ferroelectric Liquid Crystals. Japanese Journal of Applied Physics, 1988, 27, L1-L4.	1.5	23
132	Temperature Dependence of Molecular Orientation and Hyperpolarizability in Hemicyanine LB Films Studied by Second-Harmonic Generation. Japanese Journal of Applied Physics, 1990, 29, 913-917.	1.5	23
133	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.	2.1	23
134	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.	3.0	23
135	V-shaped switching due to frustoelectricity in antiferroelectric liquid crystals. Ferroelectrics, 2000, 246, 1-20.	0.6	22
136	Dependence of Rayleigh Line Intensity on Scattering Angle in Aligned Nematie Liquid Crystals. Japanese Journal of Applied Physics, 1980, 19, 1937-1945.	1.5	21
137	Surface Orientation of Cyanobiphenyl Liquid Crystal Monolayer and Pretilt Angle under Various Rubbing Strengths. Japanese Journal of Applied Physics, 1996, 35, 2275-2279.	1.5	21
138	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.	2.1	21
139	Anomalous Electric Field Dependence of Helical Pitches in Ferroelectric Sm C*at Temperatures Close to the Phase Transition to Sm A. Japanese Journal of Applied Physics, 1981, 20, L871-L873.	1.5	20
140	Modified Crystal Rotation Method for Measuring High Pretilt Angle in Liquid Crystal Cells. Japanese Journal of Applied Physics, 1995, 34, 4905-4906.	1.5	20
141	An ESR study of polymer-Cu(II) complexes in poly(vinyl alcohol), polyacrylamide, and poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock	1.0	19
142	Anisotropy of Binary Mass Diffusion Constants in Nematic, Smectic A and Smectic B Phases Studied by Forced Rayleigh Scattering. Japanese Journal of Applied Physics, 1985, 24, L777-L780.	1.5	19
143	Orientational distributions in smectic liquid crystals showing V-shaped switching investigated by polarized Raman scattering. Physical Review E, 2002, 65, 041714.	2.1	19
144	SYNCLINIC AND ANTICLINIC ORDERING IN FRUSTRATED SMECTICS. Molecular Crystals and Liquid Crystals, 2003, 402, 9-30.	0.9	19

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145	Dispersion Relation of Optical Eigen Modes in Chiral Smectic C by 4Ã—4 Matrix Method. Japanese Journal of Applied Physics, 1984, 23, L660-L662.	1.5	18
146	Influence of the Optical Purity on the Smectic Layer Thickness and the Transition Order in Enantiomeric Mixtures of an Antiferroelectric Liquid Crystal. Japanese Journal of Applied Physics, 1991, 30, L1032-L1035.	1.5	18
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