

Fumito Araoka

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

147 papers	4,501 citations	35 h-index	61 g-index
169 ext. papers	4,994 ext. citations	7.9 avg, IF	5.4 L-index

#	Paper	IF	Citations
147	Anisotropic fluid with phototunable dielectric permittivity.. <i>Nature Communications</i> , 2022 , 13, 1142	17.4	2
146	Propagating wave in a fluid by coherent motion of 2D colloids. <i>Nature Communications</i> , 2021 , 12, 6771	17.4	2
145	Controlled Release of Photoresponsive Nematic Liquid Crystalline Microcapsules. <i>Advanced Photonics Research</i> , 2021 , 2, 2170008	1.9	
144	Anchoring and molecular conformation of liquid crystalline dendrimer. <i>Journal of Molecular Liquids</i> , 2021 , 321, 114379	6	3
143	Conformation-Changeable π -Electronic Systems with Metastable Bent-Core Conformations and Liquid-Crystalline-State Electric-Field-Responsive Properties. <i>Organic Letters</i> , 2021 , 23, 305-310	6.2	2
142	Controlled Release of Photoresponsive Nematic Liquid Crystalline Microcapsules. <i>Advanced Photonics Research</i> , 2021 , 2, 2000079	1.9	3
141	A New Class of Chiral Nematic Phase with Helical Polar Order. <i>Advanced Materials</i> , 2021 , 33, e2101305	24	8
140	Photo-reconfigurable twisting structure in chiral liquid crystals triggered by photoresponsive surface. <i>Journal of Chemical Physics</i> , 2021 , 155, 061101	3.9	1
139	Reconfigurable Large-Scale Pattern Formation Driven by Topological Defect Separation in Liquid Crystals. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000139	4.6	1
138	Inverse Helical Nanofilament Networks Serving as a Chiral Nanotemplate. <i>ACS Nano</i> , 2020 , 14, 5243-5250	16.7	11
137	Kinetics of motile solitons in nematic liquid crystals. <i>Nature Communications</i> , 2020 , 11, 3248	17.4	17
136	Noncentrosymmetric Columnar Liquid Crystals with the Bulk Photovoltaic Effect for Organic Photodetectors. <i>Journal of the American Chemical Society</i> , 2020 , 142, 3326-3330	16.4	21
135	Chirality-induced effective magnetic field in a phthalocyanine molecule. <i>Applied Physics Express</i> , 2020 , 13, 113001	2.4	1
134	Differential rotation in cholesteric pillars under a temperature gradient. <i>Scientific Reports</i> , 2020 , 10, 17246	4.9	2
133	Spherical-cap droplets of a photo-responsive bent liquid crystal dimer. <i>Soft Matter</i> , 2019 , 15, 989-998	3.6	21
132	Circularly Polarized Luminescence Induced by Chiral Super Nanospaces. <i>Advanced Functional Materials</i> , 2019 , 29, 1903246	15.6	14
131	Supramolecular Polymerization in Liquid Crystalline Media: Toward Modular Synthesis of Multifunctional Core-Shell Columnar Liquid Crystals. <i>Journal of the American Chemical Society</i> , 2019 , 141, 10033-10038	16.4	3

130	Fast-and-Giant Photorheological Effect in a Liquid Crystal Dimer. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1802032	4.6	41
129	The role of structural anisotropy in the magneto-optical response of an organoferrogel with mobile magnetic nanoparticles. <i>Soft Matter</i> , 2019 , 15, 3788-3795	3.6	3
128	High-Contrast and Fast Photorheological Switching of a Twist-Bend Nematic Liquid Crystal. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	1
127	An Electrochemical Cholesteric Liquid Crystalline Device for Quick and Low-Voltage Color Modulation. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	1
126	Development of a liquid crystal laser using a simple cubic liquid crystalline blue phase platform.. <i>RSC Advances</i> , 2019 , 9, 32922-32927	3.7	7
125	Nematic-to-columnar mesophase transition by in situ supramolecular polymerization. <i>Science</i> , 2019 , 363, 161-165	33.3	39
124	Randomization and Constraint of Molecular Alignment and Orientation: Temperature-Dependent Anisotropy and Phase Transition in Vapor-Deposited Thin Films of an Organic Cross-Shaped Molecule. <i>ACS Omega</i> , 2019 , 4, 39-47	3.9	3
123	Topology-dependent self-structure mediation and efficient energy conversion in heat-flux-driven rotors of cholesteric droplets. <i>Nature Communications</i> , 2018 , 9, 432	17.4	24
122	Redox-Responsive Chiral Dopant for Quick Electrochemical Color Modulation of Cholesteric Liquid Crystal. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10946-10949	16.4	38
121	Reversible Switching of the Magnetic Orientation of Titanate Nanosheets by Photochemical Reduction and Autoxidation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16396-16401	16.4	9
120	Tunable two-dimensional polarization grating using a self-organized micropixelated liquid crystal structure.. <i>RSC Advances</i> , 2018 , 8, 41472-41479	3.7	6
119	Tunable Optical Vortices Generated by Self-Assembled Defect Structures in Nematics. <i>Physical Review Applied</i> , 2018 , 10,	4.3	13
118	Dynamics of phototunable two-dimensional polar wetting sheets of a dendritic liquid crystal. <i>Physical Review E</i> , 2018 , 98,	2.4	3
117	An Anisotropic Hydrogel Actuator Enabling Earthworm-Like Directed Peristaltic Crawling. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15772-15776	16.4	96
116	Photoresponsive smart surface of LC azo-dendrimer: photomanipulation of topological structures and real-time imaging at a nano-scale 2017 ,		1
115	Polar Dynamics at a Functional Group Level: Infrared-Visible Sum-Frequency Generation Study on Polar Columnar Liquid Crystals. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600503	6.4	4
114	Polymer Stabilization of Liquid-Crystal Blue Phase II toward Photonic Crystals. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8941-8947	9.5	35
113	Photomanipulation of the anchoring strength using a spontaneously adsorbed layer of azo dendrimers. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 7597-7606	3.6	16

112	Chiral Superstructure Mesophases of Achiral Bent-Shaped Molecules - Hierarchical Chirality Amplification and Physical Properties. <i>Advanced Materials</i> , 2017 , 29, 1602737	24	65
111	Nanosegregated Chiral Materials with Self-Assembled Hierarchical Mesophases: Effect of Thermotropic and Photoinduced Polymorphism in Rodlike Molecules. <i>Chemistry - A European Journal</i> , 2017 , 23, 17794-17799	4.8	8
110	Polymer-Stabilized Micropixelated Liquid Crystals with Tunable Optical Properties Fabricated by Double Templating. <i>Advanced Materials</i> , 2017 , 29, 1703054	24	21
109	Anomalous temperature-dependent anchoring in liquid crystals mediated by thermodynamic smectic wetting sheets. <i>Applied Physics Letters</i> , 2017 , 111, 201604	3.4	2
108	An autonomous actuator driven by fluctuations in ambient humidity. <i>Nature Materials</i> , 2016 , 15, 1084-9	27	249
107	Large-scale self-organization of reconfigurable topological defect networks in nematic liquid crystals. <i>Nature Communications</i> , 2016 , 7, 13238	17.4	44
106	Unusual Electro-Optic Kerr Response in a Self-Stabilized Amorphous Blue Phase with Nanoscale Smectic Clusters. <i>ChemPhysChem</i> , 2016 , 17, 1425-9	3.2	10
105	Electrophoretic Deposition for Cholesteric Liquid-Crystalline Devices with Memory and Modulation of Reflection Colors. <i>Advanced Materials</i> , 2016 , 28, 4077-83	24	27
104	A supramolecular helix that disregards chirality. <i>Nature Chemistry</i> , 2016 , 8, 80-9	17.6	113
103	Lasing properties of polymerized chiral nematic Bragg onion microlasers. <i>Optics Express</i> , 2016 , 24, 19237-34	3.4	12
102	Thermodynamically Anchoring-Frustrated Surface to Trigger Bulk Discontinuous Orientational Transition. <i>Langmuir</i> , 2016 , 32, 10545-10550	4	8
101	Macroscopic ordering of helical pores for arraying guest molecules noncentrosymmetrically. <i>Nature Communications</i> , 2015 , 6, 8418	17.4	35
100	Photomodulated Supramolecular Chirality in Achiral Photoresponsive Rodlike Compounds Nanosegregated from the Helical Nanofilaments of Achiral Bent-Core Molecules. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 22686-91	9.5	22
99	Large Twist Elastic Constant in Diphenylacetylene-Core-Based Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2015 , 614, 124-127	0.5	3
98	Photoresponsive stripe pattern in achiral azobenzene liquid crystals. <i>ChemPhysChem</i> , 2015 , 16, 95-8	3.2	
97	Columnar liquid crystal as a unique ferroelectric liquid crystal. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 01AA01	1.4	10
96	Highly elastic liquid crystals with a sub-nanonewton bending elastic constant mediated by the resident molecular assemblies. <i>Advanced Materials</i> , 2014 , 26, 1918-22	24	9
95	Structure-sensitive bend elastic constants between piconewton and subnanonewton in diphenylacetylene-core-based liquid crystals. <i>Physical Review E</i> , 2014 , 90, 042506	2.4	3

94	Discontinuous thermal diffusivity change due to the anchoring transition of a liquid crystal on a perfluoropolymer surface. <i>ChemPhysChem</i> , 2014 , 15, 1452-6	3.2	11
93	Homochiral columns constructed by chiral self-sorting during supramolecular helical organization of hat-shaped molecules. <i>Journal of the American Chemical Society</i> , 2014 , 136, 7169-85	16.4	118
92	Investigation of Chiral Properties 2014 , 1-27		
91	Stable electro-optic response in wide-temperature blue phases realized in chiral asymmetric bent dimers [Invited]. <i>Optical Materials Express</i> , 2014 , 4, 662	2.6	19
90	Stepwise heat-capacity change at an orientation transition in liquid crystals. <i>Physical Review E</i> , 2014 , 89, 022512	2.4	7
89	Polar columnar liquid crystals. <i>Liquid Crystals</i> , 2014 , 41, 393-401	2.3	30
88	Are chiral dopants with higher twisting power advantageous to induce wider temperature range of the blue phases?. <i>Liquid Crystals</i> , 2013 , 40, 951-958	2.3	18
87	Evolution of the discontinuous anchoring transition under an electric field. <i>Physical Review E</i> , 2013 , 87, 012507	2.4	4
86	Labyrinthine instability in freely suspended films of a polarization-modulated smectic phase. <i>Physical Review E</i> , 2013 , 88, 062512	2.4	3
85	Amplification of the stereochemistry of biomolecular adsorbates by deracemization of chiral domains in bent-core liquid crystals. <i>Advanced Materials</i> , 2013 , 25, 245-9	2.4	28
84	Highly Ordered Helical Nanofilament Assembly Aligned by a Nematic Director Field. <i>Advanced Functional Materials</i> , 2013 , 23, 2701-2707	15.6	33
83	Unusual temperature dependence of smectic layer structure associated with the nematic-smectic C phase transition in a hockey-stick-shaped four-ring compound. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 1562	7.1	23
82	Novel Bistable Device Using Anchoring Transition and Command Surface. <i>Applied Physics Express</i> , 2013 , 6, 061701	2.4	15
81	A general method for the enantioselective formation of helical nanofilaments. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6863-6	16.4	31
80	Photoinduced Ordering Transition in Microdroplets of Liquid Crystals with Azo-Dendrimer. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 847-852	3.1	13
79	High-optical-quality ferroelectric film wet-processed from a ferroelectric columnar liquid crystal as observed by non-linear-optical microscopy. <i>Advanced Materials</i> , 2013 , 25, 4014-7	2.4	22
78	Liquid Crystals: Photoinduced Ordering Transition in Microdroplets of Liquid Crystals with Azo-Dendrimer (Part. Part. Syst. Charact. 10/2013). <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 912-912	3.1	17
77	A General Method for the Enantioselective Formation of Helical Nanofilaments. <i>Angewandte Chemie</i> , 2013 , 125, 7001-7004	3.6	15

76	Liquid Crystals: Highly Ordered Helical Nanofilament Assembly Aligned by a Nematic Director Field (Adv. Funct. Mater. 21/2013). <i>Advanced Functional Materials</i> , 2013 , 23, 2700-2700	15.6	
75	Transition between widened BPs by light irradiation using photo-active bent-core liquid crystal with chiral dopant. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4627		35
74	Critical behavior in an electric-field-induced anchoring transition in a liquid crystal. <i>Physical Review E</i> , 2012 , 86, 010701	2.4	9
73	Pattern-stabilized decorated polar liquid-crystal fibers. <i>Physical Review Letters</i> , 2012 , 109, 017801	7.4	18
72	Interplay between polarity and chirality in the electric-field-responsive columnar phase of a dipeptide derivative. <i>NPG Asia Materials</i> , 2012 , 4, e11-e11	10.3	6
71	Ferroelectric columnar liquid crystal featuring confined polar groups within core-shell architecture. <i>Science</i> , 2012 , 336, 209-13	33.3	170
70	Anchoring transition in a nematic liquid crystal doped with chiral agents. <i>Phase Transitions</i> , 2012 , 85, 888-899	1.3	12
69	Molecular surface structure of comb-like polyoxyethylene with alkyl sulfonyl side-chains studied by sum-frequency generation vibrational spectroscopy. <i>Liquid Crystals</i> , 2012 , 39, 323-331	2.3	
68	Liquid crystalline amorphous blue phase and its large electrooptical Kerr effect. <i>Journal of Materials Chemistry</i> , 2011 , 21, 2855		64
67	Two transitions between isotropic and nematic phases in confined liquid crystals. <i>Physical Review E</i> , 2011 , 84, 041701	2.4	16
66	Observation of two isotropic-nematic phase transitions near a surface. <i>Physical Review Letters</i> , 2011 , 106, 117801	7.4	29
65	Isotropic-nematic transition at the surface of a liquid crystal embedded in an aerosil network. <i>Physical Review E</i> , 2011 , 83, 061714	2.4	10
64	Discrete and sequential formation of helical nanofilaments in mixtures consisting of bent- and rod-shaped molecules. <i>Soft Matter</i> , 2011 , 7, 8766	3.6	11
63	Electric-field controllable optical activity in the nano-segregated system composed of rod- and bent-core liquid crystals [Invited]. <i>Optical Materials Express</i> , 2011 , 1, 27	2.6	22
62	Simultaneous Extraction of Indium Tin Oxide/Organic and Substrate Waveguide Modes from Buckled Organic Light Emitting Diodes. <i>Applied Physics Express</i> , 2011 , 4, 032101	2.4	5
61	Polarization conversion in surface-plasmon-coupled emission from organic light-emitting diodes using spontaneously formed buckles. <i>Advanced Materials</i> , 2011 , 23, 1003-7	24	41
60	Electric-Field-Responsive Handle for Large-Area Orientation of Discotic Liquid-Crystalline Molecules in Millimeter-Thick Films. <i>Angewandte Chemie</i> , 2011 , 123, 8011-8015	3.6	12
59	Electric-field-responsive handle for large-area orientation of discotic liquid-crystalline molecules in millimeter-thick films. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 7865-9	16.4	63

58	Transition between two orthogonal polar phases in symmetric bent-core liquid crystals. <i>Soft Matter</i> , 2011 , 7, 2895	3.6	28
57	Controlling bucking structure by UV/ozone treatment for light extraction from organic light emitting diodes. <i>Organic Electronics</i> , 2011 , 12, 1177-1183	3.5	18
56	Nanosize-Induced Optically Isotropic Nematic Phase. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 051703	3.4	3
55	Distinctive thermal behavior and nanoscale phase separation in the heterogeneous liquid-crystal B4 matrix of bent-core molecules. <i>Physical Review Letters</i> , 2011 , 107, 237802	7.4	16
54	Ferroelectric behavior of orthogonal smectic phase made of bent-core molecules. <i>Physical Review E</i> , 2011 , 84, 031706	2.4	23
53	Nanosize-Induced Optically Isotropic Nematic Phase. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 051703	3.4	17
52	Spontaneously Buckled Microlens for Improving Outcoupled Organic Electroluminescence. <i>Applied Physics Express</i> , 2010 , 3, 082501	2.4	9
51	Polar switching in the smectic- A(d)P(A) phase composed of asymmetric bent-core molecules. <i>Physical Review E</i> , 2010 , 81, 011703	2.4	27
50	Heat-driven and electric-field-driven bistable devices using dye-doped nematic liquid crystals. <i>Journal of Applied Physics</i> , 2010 , 107, 123108	2.5	21
49	Anchoring transition of bent-rod liquid crystal dimers on different surfaces. <i>Liquid Crystals</i> , 2010 , 37, 883-892	2.3	19
48	Second Harmonic Generation in a Paramagnetic All-Organic Chiral Smectic Liquid Crystal. <i>Applied Physics Express</i> , 2010 , 3, 041701	2.4	10
47	An optically uniaxial antiferroelectric smectic phase in asymmetrical bent-core compounds containing a 3-aminophenol central unit. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7944		48
46	Columnar liquid crystal with a spontaneous polarization along the columnar axis. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8530-1	16.4	54
45	Spectral blue shift via intermolecular interactions in the B2 and B4 phases of a bent-shaped molecule. <i>Physical Review E</i> , 2010 , 82, 041708	2.4	8
44	Light extraction from organic light-emitting diodes enhanced by spontaneously formed buckles. <i>Nature Photonics</i> , 2010 , 4, 222-226	33.9	487
43	Perfluoropolymer surface for shock-free homeotropic alignment of smectic liquid crystals. <i>Advanced Materials</i> , 2010 , 22, 34-8	24	22
42	Broadband cavity-mode lasing from dye-doped nematic liquid crystals sandwiched by broadband cholesteric liquid crystal bragg reflectors. <i>Advanced Materials</i> , 2010 , 22, 2680-4	24	46
41	Development of laser dyes to realize low threshold in dye-doped cholesteric liquid crystal lasers. <i>Advanced Materials</i> , 2010 , 22, 4473-8	24	79

40	Spontaneous Deracemization of Disc-like Molecules in the Columnar Phase. <i>Angewandte Chemie</i> , 2010 , 122, 455-458	3.6	14
39	Oriented Salts: Dimension-Controlled Charge-by-Charge Assemblies from Planar Receptor-Anion Complexes. <i>Angewandte Chemie</i> , 2010 , 122, 10277-10281	3.6	29
38	Spontaneous deracemization of disc-like molecules in the columnar phase. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 445-8	16.4	34
37	Oriented salts: dimension-controlled charge-by-charge assemblies from planar receptor-anion complexes. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 10079-83	16.4	116
36	Extremely Low Threshold in a Pyrene-Doped Distributed Feedback Cholesteric Liquid Crystal Laser. <i>Applied Physics Express</i> , 2009 , 2, 102501	2.4	30
35	Bistable device using anchoring transition of nematic liquid crystals. <i>Applied Physics Letters</i> , 2009 , 95, 063505	3.4	28
34	Flexoelectric effect in a bent-core mesogen. <i>Liquid Crystals</i> , 2009 , 36, 1119-1124	2.3	46
33	Enhanced optical activity by achiral rod-like molecules nanosegregated in the B4 structure of achiral bent-core molecules. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12368-72	16.4	87
32	Spontaneous chirality induction and enantiomer separation in liquid crystals composed of achiral rod-shaped 4-arylbenzoate esters. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15055-60	16.4	37
31	Liquid crystalline corannulene responsive to electric field. <i>Journal of the American Chemical Society</i> , 2009 , 131, 44-5	16.4	175
30	Anchoring transitions of transversely polar liquid-crystal molecules on perfluoropolymer surfaces. <i>Physical Review E</i> , 2009 , 79, 060701	2.4	41
29	Large Faraday Rotation in a π -Conjugated Poly(arylene ethynylene) Thin Film. <i>Applied Physics Express</i> , 2009 , 2, 011501	2.4	27
28	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	1.4	32
27	Kerr constant and third-order nonlinear optic susceptibility measurements in a liquid crystal composed of bent-shaped molecules. <i>Physical Review E</i> , 2008 , 78, 050701	2.4	23
26	Enhanced linearly polarized lasing emission from nanoimprinted surface-emitting distributed feedback laser based on polymeric liquid crystals. <i>Applied Physics Letters</i> , 2008 , 93, 221101	3.4	4
25	Electrotunable polarization of surface-emitting distributed feedback laser with nematic liquid crystals. <i>Applied Physics Letters</i> , 2008 , 92, 171105	3.4	6
24	Enhancement of normally directed light outcoupling from organic light-emitting diodes using nanoimprinted low-refractive-index layer. <i>Applied Physics Letters</i> , 2008 , 92, 083307	3.4	54
23	Alternating twist structures formed by electroconvection in the nematic phase of an achiral bent-core molecule. <i>Physical Review E</i> , 2008 , 77, 041708	2.4	35

22	Three relaxation processes from an electric-field-induced polar structure in a columnar liquid crystalline urea derivative. <i>Physical Review E</i> , 2007 , 76, 041701	2.4	10
21	Time resolution of chirped lattice vibrations in a mixed-valence metal-halogen complex system. <i>Physical Review B</i> , 2007 , 75,	3.3	1
20	Electro-optic Kerr effect in the isotropic phase above the columnar phase of a urea derivative. <i>Physical Review E</i> , 2007 , 75, 050701	2.4	6
19	Polar structures in binary mixtures of bent-core liquid crystals showing ferroelectric and antiferroelectric B2 phases. <i>Physical Review E</i> , 2007 , 76, 031702	2.4	4
18	Electric-field-induced polar biaxial order in a nontilted smectic phase of an asymmetric bent-core liquid crystal. <i>Physical Review Letters</i> , 2006 , 97, 113901	7.4	82
17	Interactions of twisted light with chiral molecules: An experimental investigation. <i>Physical Review A</i> , 2005 , 71,	2.6	75
16	Twist-grain-boundary structure in the B4 phase of a bent-core molecular system identified by second harmonic generation circular dichroism measurement. <i>Physical Review Letters</i> , 2005 , 94, 137801	7.4	38
15	Monodomain Film Formation and Lasing in Dye-Doped Polymer Cholesteric Liquid Crystals. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 6142-6144	1.4	26
14	Coexistence of polar and nonpolar domains and their photocontrol in the B7 phase of a bent-core liquid crystal containing azo dyes. <i>Physical Review E</i> , 2004 , 69, 061701	2.4	7
13	Splayed polarization in the ferroelectric phase of a bent-core liquid crystal as studied by optical second-harmonic generation. <i>Physical Review E</i> , 2004 , 69, 051704	2.4	16
12	Advantages of Highly Ordered Polymer-Dyes for Lasing in Chiral Nematic Liquid Crystals. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 631-636	1.4	47
11	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		48
10	Chiral Nonlinear Optic Effect in a Bent-Core Molecular System. <i>Ferroelectrics</i> , 2004 , 310, 3-9	0.6	1
9	Hyperpolarizability Components for π - and π -Helical Polypeptides in Polar Crystals Determined from Second-Harmonic Generation Measurements. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 7026-7031	1.4	7
8	Electrogyration effect in a chiral bent-core molecular system. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003 , 20, 314	1.7	19
7	How doping a cholesteric liquid crystal with polymeric dye improves an order parameter and makes possible low threshold lasing. <i>Journal of Applied Physics</i> , 2003 , 94, 279-283	2.5	117
6	LINEAR AND NONLINEAR OPTICAL PROPERTIES OF 2,7-DINITRO-9-FLUORENONE SINGLE CRYSTAL. <i>Molecular Crystals and Liquid Crystals</i> , 2003 , 406, 59-67	0.5	2
5	Polar structure in a ferroelectric bent-core mesogen as studied by second-harmonic generation. <i>Physical Review E</i> , 2002 , 66, 021705	2.4	27

- 4 A racemic layer structure in a chiral bent-core ferroelectric liquid crystal. *Liquid Crystals*, **2001**, 28, 1301-1308 88
- 3 Ferroelectric phases in a chiral bent-core smectic liquid crystal: dielectric and optical second-harmonic generation measurements. *Physical Review E*, **2000**, 62, R4524-7 2.4 68
- 2 Evaluation of the First-Order Hyperpolarizability Tensor of Bent Molecules by Means of Hyper-Rayleigh Scattering Method. *Japanese Journal of Applied Physics*, **1999**, 38, 3526-3529 1.4 24
- 1 Determination of Nonlinear Hyperpolarizability of Bent-Shaped Molecules using Hyper-Rayleigh Scattering. *Molecular Crystals and Liquid Crystals*, **1999**, 328, 291-297 5