Atsushi Yoshizawa

List of Publications by Year
in descending order

100	1,823	304743	330143
papers	citations	22 h-index	37 g-index

101	101	101	889
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A blue phase observed for a novel chiral compound possessing molecular biaxiality. Journal of Materials Chemistry, 2005, 15, 3285.	6.7	175
2	Material design for blue phase liquid crystals and their electro-optical effects. RSC Advances, 2013, 3, 25475.	3.6	98
3	A binaphthyl derivative with a wide temperature range of a blue phase. Journal of Materials Chemistry, 2009, 19, 5759.	6.7	94
4	An unusual phase sequence of iso liq-blue phase-smectic A observed for novel binaphthyl mesogenic derivatives. Journal of Materials Chemistry, 2005, 15, 275.	6.7	79
5	Unconventional liquid crystal oligomers with a hierarchical structure. Journal of Materials Chemistry, 2008, 18, 2877.	6.7	75
6	Microscopic organization of molecules in smectic A and chiral (racemic) smectic C phases: Dynamic molecular deformation effect on the S_Ato S_Câ^— (S_C) transition. Liquid Crystals, 1995, 18, 351-366.	2.2	62
7	Hyperbranched Hydrocarbon Surfactants Give Fluorocarbon-like Low Surface Energies. Langmuir, 2014, 30, 6057-6063.	3.5	53
8	Unusual smectic phases organized by novel Î»-shaped mesogenic molecules. Journal of Materials Chemistry, 2005, 15, 280-288.	6.7	47
9	Phase transition behaviour of novel Yâ€shaped liquid crystal oligomers. Liquid Crystals, 2006, 33, 605-609.	2.2	39
10	Kinetically induced intermolecular association: unusual enthalpy changes in the nematic phase of a novel dimeric liquid-crystalline moleculeElectronic supplementary information (ESI) available: photomicrographs of the nematic phase formed by BOPPHB on cooling, X-ray diffraction patterns and DSC thermograms. See http://www.rsc.org/suppdata/cc/b2/b204901p/. Chemical Communications, 2002, , 2060-2061.	4.1	37
11	Chiral T-shaped Semiflexible Compound Exhibiting a Wide Temperature Range Blue Phase III. Chemistry Letters, 2010, 39, 170-171.	1.3	34
12	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. Journal of Materials Chemistry, 2002, 12, 1325-1330.	6.7	33
13	Amorphous Blue Phase III Exhibiting Submillisecond Response and Hysteresis-Free Switching at Room Temperature. Applied Physics Express, 2011, 4, 101701.	2.4	33
14	Effective and Efficient Surfactant for CO₂ Having Only Short Fluorocarbon Chains. Langmuir, 2012, 28, 10988-10996.	3.5	31
15	C-13 NMR and X-Ray Investigations of Phase Transitions in an Antiferroelectric Liquid Crystal. Japanese Journal of Applied Physics, 1992, 31, L860-L863.	1.5	30
16	Oddâ€“even effects in the phase transition behaviour of novel Uâ€shaped liquid crystals. Liquid Crystals, 2007, 34, 633-639.	2.2	30
17	Mesophasic helical structures with high twisting power in optically active 3-methyladipic acid bis esters. Journal of Materials Chemistry, 1994, 4, 449.	6.7	28
18	Liquid crystal supermolecules stabilizing an optically isotropic phase with frustrated molecular organization. Polymer Journal, 2012, 44, 490-502.	2.7	26

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19	U-shaped oligomers with a molecular biaxiality stabilizing blue phases. Journal of Materials Chemistry C, 2013, 1, 315-320.	5.5	26
20	Electro-optical Switching in Blue Phases Induced using a Binary System of a T-shaped Nematic Liquid Crystal and a Chiral Compound. Applied Physics Express, 0, 1, 111801.	2.4	25
21	A novel frustrated phase produced by a binary system of non-symmetric dimeric liquid crystals. Journal of Materials Chemistry, 2003, 13, 172-174.	6.7	24
22	The role of a liquid crystal oligomer in stabilizing blue phases. Liquid Crystals, 2007, 34, 1039-1044.	2.2	24
23	Chiral effects of blue phase stabilisation of a binaphthyl derivative. Liquid Crystals, 2011, 38, 303-307.	2.2	24
24	Synthesis and physical properties of novel liquid crystal trimers containing resorcinol as a linking unit. Liquid Crystals, 2005, 32, 1175-1181.	2.2	23
25	Synthesis and physical properties ofÎ±â€(4â€cyanobiphenylâ€4â€²â€yloxy)â€Ï‰â€[4â€(5â€alkylpyrimidineâ€2â€yl)phenyloxy]alkanes. Liquid Crystals, 2006, 33, 611-619.	2.2	22
26	Molecular design for a cybotactic nematic phase. Journal of Materials Chemistry C, 2014, 2, 3677-3685.	5.5	22
27	Biphenyl derivative stabilizing blue phases. Journal of Materials Chemistry, 2011, 21, 19132.	6.7	21
28	Achiral flexible liquid crystal trimers exhibiting chiral conglomerates. Soft Matter, 2016, 12, 3331-3339.	2.7	21
29	Effect of Fluorocarbon and Hydrocarbon Chain Lengths in Hybrid Surfactants for Supercritical CO₂. Langmuir, 2015, 31, 7479-7487.	3.5	20
30	Nanostructured assemblies of liquid-crystalline supermolecules: from display to medicine. Liquid Crystals, 2019, 46, 1950-1972.	2.2	19
31	Two origins for twisting power of a binaphthyl derivative in a host nematic liquid crystal. Liquid Crystals, 2007, 34, 1455-1462.	2.2	18
32	Lamellar To Lamellar Phase Transition Driven by Conformation Change of an Amphiphilic Liquid Crystal Oligomer. Chemistry of Materials, 2007, 19, 6445-6450.	6.7	18
33	Comparison of electro-optical switching between polymer-stabilised cubic and amorphous blue phases. Liquid Crystals, 2015, 42, 1290-1297.	2.2	18
34	Liquid-crystalline properties of a chiral twin material possessing a remarkably flexible central spacer. Journal of Materials Chemistry, 1995, 5, 675.	6.7	17
35	Hostâ€“guest effect on chirality transfer from a binaphthyl derivative to a host nematic liquid crystal. Chemical Communications, 2007, , 257-259.	4.1	17
36	Synthesis and anticancer properties of phenyl benzoate derivatives possessing a terminal hydroxyl group. Journal of Materials Chemistry B, 2014, 2, 1335-1343.	5.8	17

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37	Optically Isotropic Homochiral Structure Produced by Intercalation of Achiral Liquid Crystal Trimers. Journal of Physical Chemistry B, 2016, 120, 4843-4851.	2.6	17
38	Anisotropic reversed micelles with fluorocarbon-hydrocarbon hybrid surfactants in supercritical CO2. Colloids and Surfaces B: Biointerfaces, 2018, 168, 201-210.	5.0	17
39	Water-in-CO₂ Microemulsions Stabilized by Fluorinated Cationâ€“Anion Surfactant Pairs. Langmuir, 2019, 35, 3445-3454.	3.5	16
40	Synthesis and physical properties of novel Sâ€shaped liquid crystal oligomers. Liquid Crystals, 2007, 34, 547-553.	2.2	15
41	Achiral flexible liquid crystal trimers exhibiting gyroid-like surfaces in chiral conglomerate phases. Soft Matter, 2017, 13, 6521-6528.	2.7	15
42	Novel T-shaped Chiral Oligomers with a Wide Temperature Range of a Blue Phase. Molecular Crystals and Liquid Crystals, 2007, 475, 99-112.	0.9	14
43	Biological Activity of Some Cyanobiphenyl Derivatives. Chemistry Letters, 2009, 38, 530-531.	1.3	14
44	p53-independent structure-activity relationships of 3-ring mesogenic compoundsâ€™ activity as cytotoxic effects against human non-small cell lung cancer lines. BMC Cancer, 2016, 16, 521.	2.6	14
45	Supermolecular Bent Configuration Composed of Achiral Flexible Liquid Crystal Trimers Exhibiting Chiral Domains with Opposite Handedness. Journal of Physical Chemistry B, 2015, 119, 4531-4538.	2.6	13
46	Linear symmetric liquid crystal trimers exhibiting supramolecular chiral architectures. Soft Matter, 2019, 15, 3179-3187.	2.7	13
47	Interlayer Interactions Induced by Amphiphilicities of a Rod-Like Molecule Produce Frustrated Structures in Conventional Calamitic Phases. Journal of Physical Chemistry B, 2010, 114, 13304-13311.	2.6	12
48	Suppressive effects of liquid crystal compounds on the growth of the A549 human lung cancer cell line. Investigational New Drugs, 2011, 29, 659-665.	2.6	12
49	Chiral conglomerates observed for a binary mixture of a nematic liquid crystal trimer and 6OCB. Soft Matter, 2015, 11, 8827-8833.	2.7	12
50	New Class of Amphiphiles Designed for Use in Water-in-Supercritical CO2Microemulsions. Langmuir, 2016, 32, 12413-12422.	3.5	12
51	Design of Surfactant Tails for Effective Surface Tension Reduction and Micellization in Water and/or Supercritical CO₂. Langmuir, 2020, 36, 14829-14840.	3.5	12
52	Preorganization Effect of a Polar Supermolecule on Dielectric Anisotropy in a Nematic Liquid Crystalline Phase. Chemistry of Materials, 2005, 17, 6442-6446.	6.7	11
53	Hyper swollen perfluorinated smectic liquid crystal by perfluorinated oils. RSC Advances, 2015, 5, 215-220.	3.6	10
54	Achiral H-shaped liquid crystals exhibiting an electric-field-induced chiral nematic phase. Journal of Materials Chemistry C, 2019, 7, 6905-6913.	5.5	10

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55	The formation of a chiral supramolecular structure acting as a template for chirality transfer. Chemical Communications, 2020, 56, 8289-8292.	4.1	10
56	Oddâ€“even effects of an asymmetric dimer on the double-twist structure in an amorphous blue phase. Journal of Materials Chemistry C, 2016, 4, 8565-8574.	5.5	9
57	Isotropic Cubic Phase Organized by Chiral Molecular Recognition. Molecular Crystals and Liquid Crystals, 2001, 364, 271-277.	0.3	8
58	CUBIC AND BLUE PHASES IN A FLUORINE-CONTAINING DICHIRAL COMPOUND. Molecular Crystals and Liquid Crystals, 2003, 401, 19-33.	0.9	8
59	Phase Transition Behaviour of Amphiphilic Supermolecules Possessing a Semiperfluorinated Alkyl Chain. Molecular Crystals and Liquid Crystals, 2007, 479, 181/[1219]-189/[1227].	0.9	8
60	Flexible taper-shaped liquid crystal trimer exhibiting a modulated smectic phase. Liquid Crystals, 2014, 41, 1752-1761.	2.2	8
61	Synthesis and physical properties of novel liquid crystal oligomers possessing polar terminal groups. Liquid Crystals, 2007, 34, 373-379.	2.2	7
62	Effects of liquid crystallinity on anticancer activity of benzoate derivatives possessing a terminal hydroxyl group. Liquid Crystals, 2014, 41, 1873-1878.	2.2	7
63	Photoâ€Driven Chirality Switching in a Dark Conglomerate Phase of an Achiral Liquid Crystal Trimer. ChemistrySelect, 2018, 3, 3278-3283.	1.5	7
64	Porous surface of an achiral trimer in the chiral conglomerate phase catalyzes a direct aldol reaction. New Journal of Chemistry, 2019, 43, 8865-8868.	2.8	7
65	Synthesis and transition properties of novel dimesogenic compounds possessingcisâ€1, 4â€dioxaâ€2â€butene as a linking group. Liquid Crystals, 2007, 34, 177-181.	2.2	6
66	Novel liquid crystal trimers exhibiting a monolayer smectic C phase containing strong macroscopic fluctuations. Liquid Crystals, 2007, 34, 1121-1128.	2.2	6
67	Synthesis and Physical Properties of Novel T-Shaped Chiral Liquid Crystal Oligomers Possessing Terminal Cyano Groups. Ferroelectrics, 2008, 364, 1-6.	0.6	6
68	Supramolecular assembly composed of different mesogenic compounds possessing a Ï‰-hydroxyalkyl unit exhibits suppressive effects on the A549 human lung cancer cell line. MedChemComm, 2011, 2, 55-59.	3.4	6
69	Preorganised effects of a tetramesogenic supermolecule on supramolecular assembly in the liquid crystalline phases. Liquid Crystals, 2011, 38, 639-648.	2.2	6
70	Polar order of an achiral taper-shaped liquid crystal in the uniaxial smectic A phase. Journal of Materials Chemistry C, 2018, 6, 5521-5527.	5.5	6
71	Synthesis and phase transition behaviour of novel liquid crystal trimers. Liquid Crystals, 2007, 34, 585-590.	2.2	5
72	Molecular Organization of Preorganized S-Shaped Oligomers in the Liquid Crystalline Phases. Molecular Crystals and Liquid Crystals, 2009, 509, 233/[975]-244/[986].	0.9	5

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73	Structure-Property Relationships in Non-Chiral Liquid Crystal Oligomers Stabilizing Blue Phases. Molecular Crystals and Liquid Crystals, 2009, 509, 223/[965]-232/[974].	0.9	5
74	Amphiphilic taper-shaped oligomer exhibiting a monolayer smectic A to columnar phase transition. Liquid Crystals, 2010, 37, 507-515.	2.2	5
75	Liquid Crystal Oligomers Exhibiting a Blue Phase. Molecular Crystals and Liquid Crystals, 2010, 516, 99-106.	0.9	5
76	Layer modulated smectic-Cphase in liquid crystals with a terminal hydroxyl group. Physical Review E, 2014, 89, 042503.	2.1	5
77	Phase behaviour under pressure of a dichiral liquid crystal with an optically isotropic cubic phase: 2â€{4â€[(R)â€2â€fluorohexyloxy]phenyl}â€5â€{4â€[(S)â€2â€fluoroâ€2â€methyldecanoyloxy]phenyl}pyrimidine. Liquid Crystals, 2007, 34, 9-18.	2.2	5
78	Electrooptical Properties of Liquid Crystal Oligomer Possessing Both Lateral and Terminal Polar Groups. Japanese Journal of Applied Physics, 2008, 47, 6386-6389.	1.5	4
79	Competition between micro-segregation and anti-parallel alignment of an amphiphilic rod-like liquid crystal. Liquid Crystals, 2011, 38, 793-801.	2.2	4
80	Amphiphilic liquid crystal possessing a SmA-promoting tail and a SmC-promoting core. Liquid Crystals, 2011, 38, 317-323.	2.2	4
81	Crystalâ€“nematic phase separation in an asymmetric liquid crystal dimer possessing a terminal hydroxyl group. Liquid Crystals, 2016, 43, 680-687.	2.2	4
82	Coexistence of nematic and chiral nematic phases of an achiral liquid crystal trimer possessing an octafluorobiphenyl unit. Liquid Crystals, 2018, 45, 1443-1450.	2.2	4
83	H-shaped liquid crystals inducing nematic order in the isotropic liquid. Liquid Crystals, 2019, 46, 1756-1762.	2.2	4
84	Disclination network morphologies in blue phase III. Liquid Crystals, 2021, 48, 54-62.	2.2	4
85	Photo-induced guestâ€“host interactions produce chiral conglomerates accompanying grain boundaries in a smectic phase. Journal of Materials Chemistry C, 2021, 9, 12928-12937.	5.5	4
86	Synthesis and Phase Transition Behavior of Novel Liquid Crystal Tetramers. Molecular Crystals and Liquid Crystals, 2009, 509, 263/[1005]-273/[1015].	0.9	3
87	Isotropic liquidâ€“ferrielectric smectic C phase transition observed in a chiral nonsymmetric dimer. Liquid Crystals, 2011, 38, 451-459.	2.2	3
88	Molecular Design of Blue Phase Materials for Display Devices. Molecular Crystals and Liquid Crystals, 2014, 595, 29-38.	0.9	3
89	Water-in-CO2 Microemulsions Stabilized by an Efficient Catanionic Surfactant. Langmuir, 2020, 36, 7418-7426.	3.5	3
90	Very low surface tensions with â€œHedgehogâ€•surfactants. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 631, 127690.	4.7	3

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91	Molecular design of flexible liquid crystal oligomers stabilising the chiral frustrated phases. Liquid Crystals, 0, , 1-17.	2.2	2
92	A frustrated phase driven by competition among layer structures. Soft Matter, 2017, 13, 5194-5203.	2.7	2
93	Phase Transition Behaviour of Symmetric and Non-Symmetric Dimeric Liquid Crystals. Molecular Crystals and Liquid Crystals, 2004, 411, 169-176.	0.9	1
94	Frustration Caused by Competition Between Interlayer and Intralayer Interactions in a Dichiral Liquid Crystal. Molecular Crystals and Liquid Crystals, 2004, 411, 201-209.	0.9	1
95	Twisting Power of a Novel Binaphthyl Derivative Possessing Laterally Attached Mesogenic Units. Molecular Crystals and Liquid Crystals, 2009, 509, 213/[955]-222/[964].	0.9	1
96	Photo-induced guestâ€“host interactions produce grain boundaries between smectic blocks. Materials Advances, 2020, 1, 899-907.	5.4	1
97	Synthesis and Physical Properties of Novel Dimesogenic Compounds Possessing both Lateral and Terminal Polar Groups. Ferroelectrics, 2008, 365, 58-64.	0.6	0
98	Helical Structure Induced by a Binaphthyl Derivative Possessing Two Biphenyl Moieties. Ferroelectrics, 2008, 364, 121-128.	0.6	0
99	Periodic Formation/Breakdown of Lamellar Aggregates with Anionic Cyanobiphenyl Surfactants. Langmuir, 2015, 31, 13040-13047.	3.5	0
100	Chirality exists in the isotropic liquid above blue phase III. Liquid Crystals, 2022, 49, 17-28.	2.2	0