Nobuyuki Tamaoki

List of Publications by Year
in descending order

171	6,867	53660 45	76769 74
papers	citations	h-index	g-index

179	179	179	5586
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dynamic control of microbial movement by photoswitchable ATP antagonists. Chemistry - A European Journal, 2022, , .	1.7	1
2	A Series of Bisamideâ€Substituted Diacetylenes Exhibiting a Terminal Alkyl Odd/Even Parity Effect on Mechanoactivated Photopolymerization. Chemistry - A European Journal, 2021, 27, 3832-3841.	1.7	6
3	Two-step mechanoresponsive luminescence and mechanical stimuli-induced release of small molecules exhibited by a luminescent cyclophane. Journal of Materials Chemistry C, 2021, 9, 1671-1677.	2.7	10
4	Rational design and development of a lit-active photoswitchable inhibitor targeting CENP-E. Organic and Biomolecular Chemistry, 2021, 19, 6979-6984.	1.5	8
5	Mechanically Responsive Luminescent Polymers Based on Supramolecular Cyclophane Mechanophores. Journal of the American Chemical Society, 2021, 143, 5519-5525.	6.6	76
6	Rotaxane-Based Dual Function Mechanophores Exhibiting Reversible and Irreversible Responses. Journal of the American Chemical Society, 2021, 143, 9884-9892.	6.6	58
7	Pressure-tunable thermal conductivity observed for bisamide functionalized diacetylene crystals. Journal of Materials Science, 2021, 56, 15481-15490.	1.7	2
8	Synthesis and Properties of Aromatic-Terminated Diacetylene Organogelators and Their Application to Photopatterning of Polydiacetylenes. Langmuir, 2021, 37, 13160-13169.	1.6	0
9	A visible light-controllable Rho kinase inhibitor based on a photochromic phenylazothiazole. Chemical Communications, 2021, 57, 12500-12503.	2.2	11
10	Crystal structure and thermoresponsive luminescence of a 9,10-bis(phenylethynyl)anthracene-based cyclophane. Molecular Systems Design and Engineering, 2020, 5, 205-211.	1.7	5
11	Mechanochromic Luminescence from Crystals Consisting of Intermolecular Hydrogenâ€Bonded Sheets. Chemistry - an Asian Journal, 2020, 15, 478-482.	1.7	20
12	Photoisomerization of azobenzene units drives the photochemical reaction cycles of proteorhodopsin and bacteriorhodopsin analogues. Organic and Biomolecular Chemistry, 2020, 18, 6312-6327.	1.5	1
13	Electrofluorochromic Device Based on a Redox-Active Europium(III) Complex. ACS Applied Materials & Interfaces, 2020, 12, 46390-46396.	4.0	13
14	Glycomacrocycle-Based Azobenzene Derivatives as Chiral Dopants for Photoresponsive Cholesteric Liquid Crystals. ACS Applied Materials & Interfaces, 2020, 12, 52146-52155.	4.0	20
15	Mechanical and thermal stimuli-induced release of toluene included in luminescent crystals as one-dimensional solvent channels. Journal of Materials Chemistry C, 2020, 8, 10039-10046.	2.7	9
16	Photoswitchable CENP-E Inhibitor Enabling the Dynamic Control of Chromosome Movement and Mitotic Progression. Journal of the American Chemical Society, 2020, 142, 1763-1767.	6.6	35
17	Substrate selectivity and its mechanistic insight of the photo-responsive non-nucleoside triphosphate for myosin and kinesin. Organic and Biomolecular Chemistry, 2019, 17, 53-65.	1.5	8
18	Mechanoresponsive Behavior of a Polymer-Embedded Red-Light Emitting Rotaxane Mechanophore. ACS Applied Materials & Interfaces, 2019, 11, 24571-24576.	4.0	49

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19	Photoresponsive Molecular Switches and Machines. ChemPhotoChem, 2019, 3, 266-267.	1.5	0
20	Enantioselective Photochromism under Circularly Polarized Light. ChemPhotoChem, 2019, 3, 347-355.	1.5	22
21	Rotaxane-Based Mechanophores Enable Polymers with Mechanically Switchable White Photoluminescence. ACS Central Science, 2019, 5, 874-881.	5.3	113
22	Photoresponsive Chiral Dopants: Lightâ€Ðriven Helicity Manipulation in Cholesteric Liquid Crystals for Optical and Mechanical Functions. ChemPhotoChem, 2019, 3, 284-303.	1.5	33
23	Mechanoâ€•and Photoresponsive Behavior of a Bis(cyanostyryl)benzene Fluorophore. Chemistry - A European Journal, 2019, 25, 6162-6169.	1.7	13
24	A 1,6-Diphenylpyrene-Based, Photoluminescent Cyclophane Showing a Nematic Liquid-Crystalline Phase at Room Temperature. Crystals, 2019, 9, 92.	1.0	8
25	Azobenzeneâ€Based Photoswitches Facilitating Reversible Regulation of Kinesin and Myosin Motor Systems for Nanotechnological Applications. ChemPhotoChem, 2019, 3, 337-346.	1.5	13
26	Molecular Crankshaft Effect Converting Piston-like Molecular Motion to Continuous Rotation of Macro Objects. ACS Applied Materials & Interfaces, 2019, 11, 15097-15102.	4.0	5
27	Stimuliâ€Responsive Dualâ€Color Photon Upconversion: A Singletâ€toâ€Triplet Absorption Sensitizer in a Soft Luminescent Cyclophane. Angewandte Chemie, 2018, 130, 2856-2860.	1.6	11
28	Rotaxanes as Mechanochromic Fluorescent Force Transducers in Polymers. Journal of the American Chemical Society, 2018, 140, 1584-1587.	6.6	284
29	Stimuliâ€Responsive Dualâ€Color Photon Upconversion: A Singletâ€toâ€Triplet Absorption Sensitizer in a Soft Luminescent Cyclophane. Angewandte Chemie - International Edition, 2018, 57, 2806-2810.	7.2	28
30	Innentitelbild: Stimuliâ€Responsive Dualâ€Color Photon Upconversion: A Singletâ€toâ€Triplet Absorption Sensitizer in a Soft Luminescent Cyclophane (Angew. Chem. 11/2018). Angewandte Chemie, 2018, 130, 2778-2778.	1.6	0
31	Pressure-Induced Transition of Bisamide-Substituted Diacetylene Crystals from Nonphotopolymerizable to Photopolymerizable State. ACS Applied Materials & Interfaces, 2018, 10, 36407-36414.	4.0	12
32	Linearly polarized photoluminescence from an asymmetric cyclophane showing thermo- and mechanoresponsive luminescence. Journal of Materials Chemistry C, 2018, 6, 8453-8459.	2.7	14
33	Cyclophaneâ€Based Fluorescence Tuning Induced by Hydrostatic Pressure Changes. ChemPhotoChem, 2018, 2, 959-963.	1.5	21
34	A helical naphthopyran dopant for photoresponsive cholesteric liquid crystals. Chemical Communications, 2017, 53, 200-203.	2.2	30
35	Temperature-Dependent Mechanochromic Behavior of Mechanoresponsive Luminescent Compounds. Chemistry of Materials, 2017, 29, 1273-1278.	3.2	99
36	Mechanoresponsive luminescence and liquid-crystalline behaviour of a cyclophane featuring two 1,6-bis(phenylethynyl)pyrene groups. RSC Advances, 2017, 7, 47056-47062.	1.7	17

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37	Driving and photo-regulation of myosinâ€“actin motors at molecular and macroscopic levels by photo-responsive high energy molecules. Organic and Biomolecular Chemistry, 2017, 15, 8894-8903.	1.5	10
38	Targeted Activation of Molecular Transportation by Visible Light. ACS Nano, 2017, 11, 12292-12301.	7.3	23
39	Asymmetric Cyclophanes Permit Access to Supercooled Nematic Liquid Crystals with Stimulus-Responsive Luminescence. Chemistry of Materials, 2017, 29, 6145-6152.	3.2	43
40	Programmable dual electrochromism in azine linked conjugated polymer. Optical Materials Express, 2017, 7, 2117.	1.6	8
41	Determination of the absolute stereostructure of a cyclic azobenzene from the crystal structure of the precursor containing a heavy element. Beilstein Journal of Organic Chemistry, 2016, 12, 2211-2215.	1.3	2
42	Tuning the thermo- and mechanoresponsive behavior of luminescent cyclophanes. RSC Advances, 2016, 6, 80408-80414.	1.7	23
43	Spatiotemporal control of kinesin motor protein by photoswitches enabling selective single microtubule regulations. Lab on A Chip, 2016, 16, 4702-4709.	3.1	16
44	Structureâ€“property relationships of photoresponsive inhibitors of the kinesin motor. Organic and Biomolecular Chemistry, 2016, 14, 7202-7210.	1.5	10
45	A mechano- and thermoresponsive luminescent cyclophane. Chemical Communications, 2016, 52, 5694-5697.	2.2	47
46	Asymmetric Dimers of Chiral Azobenzene Dopants Exhibiting Unusual Helical Twisting Power upon Photoswitching in Cholesteric Liquid Crystals. ACS Applied Materials & Interfaces, 2016, 8, 4918-4926.	4.0	45
47	Fast thermal cisâ€“trans isomerization depending on pH and metal ions of water-soluble azobenzene derivatives containing a phosphate group. Tetrahedron, 2015, 71, 3500-3506.	1.0	11
48	Dynamic induction of enantiomeric excess from a prochiral azobenzene dimer under circularly polarized light. Chemical Science, 2015, 6, 973-980.	3.7	26
49	Thieno[3,2-b]thiophene derivatives exhibiting semiconducting liquid-crystalline phases at lower temperatures. RSC Advances, 2014, 4, 60511-60518.	1.7	7
50	Reversible control of F1-ATPase rotational motion using a photochromic ATP analog at the single molecule level. Biochemical and Biophysical Research Communications, 2014, 446, 358-363.	1.0	2
51	A photoresponsive planar chiral azobenzene dopant with high helical twisting power. Journal of Materials Chemistry C, 2014, 2, 9258-9264.	2.7	34
52	Dicholesteryl icosanedioate as a glass-forming cholesteric liquid crystal: properties, additive effects and application in color recording. Journal of Materials Chemistry C, 2014, 2, 1921.	2.7	28
53	Complete ON/OFF Photoswitching of the Motility of a Nanobiomolecular Machine. ACS Nano, 2014, 8, 4157-4165.	7.3	48
54	A non-nucleoside triphosphate for powering kinesin-microtubule motility with photo-tunable velocity. Chemical Communications, 2013, 49, 9935.	2.2	24

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55	Chirality induction by Eâ€“Z photoisomerization in [2,2]paracyclophane-bridged azobenzene dimer. Tetrahedron Letters, 2013, 54, 176-178.	0.7	10
56	Supramolecular self-assembly of a novel hydrogen-bonded cholesteric liquid crystal exhibiting macromolecular behaviour. Liquid Crystals, 2013, 40, 314-320.	0.9	30
57	Photocontrol of New Molecular Functions by the Isomerization of Azobenzene. , 2013, , 273-293.		0
58	Fluorescence photoswitching based on a photochromic pKa change in an aqueous solution. Chemical Communications, 2012, 48, 10874.	2.2	18
59	Dynamic photo-control of kinesin on a photoisomerizable monolayer â€“ hydrolysis rate of ATP and motility of microtubules depending on the terminal group. Organic and Biomolecular Chemistry, 2012, 10, 3321.	1.5	7
60	Influence of a Change in Helical Twisting Power of Photoresponsive Chiral Dopants on Rotational Manipulation of Microâ€Objects on the Surface of Chiral Nematic Liquid Crystalline Films. Chemistry - A European Journal, 2012, 18, 12337-12348.	1.7	58
61	A photochromic ATP analogue driving a motor protein with reversible light-controlled motility: controlling velocity and binding manner of a kinesinâ€“microtubule system in an in vitro motility assay. Chemical Communications, 2012, 48, 7625.	2.2	38
62	Reversible Photogeneration of a Stable Chiral Radical-Pair from a Fast Photochromic Molecule. Journal of Physical Chemistry Letters, 2011, 2, 2680-2682.	2.1	19
63	Dynamic Photocontrol of the Gliding Motility of a Microtubule Driven by Kinesin on a Photoisomerizable Monolayer Surface. Langmuir, 2011, 27, 10347-10350.	1.6	21
64	Synthesis and efficient circularly polarized light emission of an optically active hyperbranched poly(fluorenevinylene) derivative. Chemical Communications, 2011, 47, 3799.	2.2	43
65	Single-Molecule Fluorescence Photoswitching of a Diarylethene–Perylenebisimide Dyad: Non-destructive Fluorescence Readout. Journal of the American Chemical Society, 2011, 133, 4984-4990.	6.6	276
66	Chirality transfer from chiral solvents and its memory in an azobenzene derivative exhibiting photo-switchable racemization. Organic and Biomolecular Chemistry, 2011, 9, 5389.	1.5	16
67	Synthesis, Gelation Properties and Photopolymerization of Macrocyclic Diacetylenedicarboxamides Derived from <scp>L</scp>â€Glutamic Acid and transâ€1,4â€Cyclohexanediol. European Journal of Organic Chemistry, 2011, 2011, 2247-2255.	1.2	31
68	Induction of Point Chirality by E/Z Photoisomerization. Angewandte Chemie - International Edition, 2011, 50, 11729-11730.	7.2	18
69	Induction of Molecular Chirality by Circularly Polarized Light in Cyclic Azobenzene with a Photoswitchable Benzene Rotor. Chemistry - A European Journal, 2011, 17, 7304-7312.	1.7	43
70	Temperature-Independent Hole Mobility in Field-Effect Transistors Based on Liquid-Crystalline Semiconductors. IEICE Transactions on Electronics, 2011, E94.C, 1720-1726.	0.3	2
71	Glassâ€Forming Cholesteric Liquid Crystal Oligomers for New Tunable Solidâ€State Laser. Advanced Materials, 2010, 22, 886-891.	11.1	79
72	A Lightâ€Controlled Molecular Brake with Complete ONâ€“OFF Rotation. Chemistry - A European Journal, 2010, 16, 3489-3496.	1.7	79

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73	Reversible photo-regulation of the properties of liquid crystals doped with photochromic compounds. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2010, 11, 47-61.	5.6	52
74	Flexible field-effect transistors from a liquid crystalline semiconductor by solution processes. Organic Electronics, 2010, 11, 363-368.	1.4	42
75	Tuning of solubility and gelation ability of oligomeric electrolyte by anion exchange. Polymer Journal, 2010, 42, 759-765.	1.3	12
76	Photoisomerization of Azobenzene Units Controls the Reversible Dispersion and Reorganization of Fibrous Self-Assembled Systems. Journal of Physical Chemistry B, 2010, 114, 1586-1590.	1.2	25
77	Fluorescence photoswitching of a diarylethene–perylenebisimide dyad based on intramolecular electron transfer. Photochemical and Photobiological Sciences, 2010, 9, 181.	1.6	47
78	Structure of Silver(I) Complex Prepared from Azobenzenonaphthalenophane, Photochemical Coordination Change of Silver(I) and Silver(I)-Induced Acceleration of Z→E Thermal Isomerization of Azobenzene Unit. Inorganic Chemistry, 2010, 49, 4765-4767.	1.9	34
79	Thin-film transistors based on liquid-crystalline tetrafluorophenylter thiophene derivatives: thin-film structure and carrier transport. Organic Electronics, 2009, 10, 73-84.	1.4	27
80	[2+2] Photodimerization and photopolymerization of diphenylhexatriene crystals utilizing perfluorophenyl–phenyl stacking interactions. Journal of Fluorine Chemistry, 2009, 130, 151-157.	0.9	33
81	Indane-1,3-dione and cholesterol containing butadiene derivatives: Photoresponsive liquid crystalline glasses for imaging applications. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 207, 73-78.	2.0	10
82	Drastic solvent effect on thermal back reaction of spiroperimidine photochromic compounds. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 205, 116-121.	2.0	11
83	Reversibly tunable helicity induction and inversion in liquid crystal self-assembly by a planar chiroptic trigger molecule. Chemical Communications, 2009, , 3609.	2.2	45
84	Photochromism of a spiroperimidine compound in polymer matrices. New Journal of Chemistry, 2009, 33, 1327.	1.4	16
85	Visible-Light Photocontrol of (E)/(Z) Isomerization of the 4-(Dimethylamino)azobenzene Pseudo-Nucleotide Unit Incorporated into an Oligonucleotide and DNA Hybridization in Aqueous Media. Nucleosides, Nucleotides and Nucleic Acids, 2009, 28, 12-28.	0.4	16
86	Reflection colour changes in cholesteric liquid crystals after the addition and photochemical isomerization of mesogenic azobenzenes tethered to sugar alcohols. Journal of Materials Chemistry, 2009, 19, 5956.	6.7	28
87	An H€Bonded Main€Chain Liquid€Crystalline Polymer Obtained by In Situ Photochemical Conversion from an H€Bonded LC Dimer. Macromolecular Chemistry and Physics, 2008, 209, 1424-1431.	1.1	5
88	Ambipolar Transport in the Smectic E Phase of 2€Propyl€5€²€²€Hexynylterthiophene Derivative over a Wide Temperature Range. ChemPhysChem, 2008, 9, 1465-1473.	1.0	49
89	Photoresponsive Glass€Forming Butadiene€Based Chiral Liquid Crystals with Circularly Polarized Photoluminescence. Advanced Functional Materials, 2008, 18, 2510-2517.	7.8	64
90	Planar Chiral Azobenzenophanes as Chiroptic Switches for Photon Mode Reversible Reflection Color Control in Induced Chiral Nematic Liquid Crystals. Journal of the American Chemical Society, 2008, 130, 11409-11416.	6.6	159

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91	Unconventional thermodynamically stable cis isomer and trans to cis thermal isomerization in reversibly photoresponsive [0.0](3,3â€²)-azobenzenophane. Chemical Communications, 2008, , 1898.	2.2	52
92	Molecular Packing and Solid-State Fluorescence of Alkoxy-Cyano Substituted Diphenylbutadienes:â€‰ Structure of the Luminescent Aggregates. Journal of Physical Chemistry C, 2008, 112, 2137-2146.	1.5	161
93	Hydrogels Based on Surfactant-Free Ionene Polymers with N,Nâ€²-(p-Phenylene)dibenzamide Linkages. Macromolecules, 2008, 41, 8841-8846.	2.2	35
94	Organic Semiconductors with Helical Structure Based on Oligothiophene derivatives Exhibiting Chiral Nematic Phase. Molecular Crystals and Liquid Crystals, 2007, 475, 123-135.	0.4	13
95	High-performance thin film transistors from semiconducting liquid crystalline phases by solution processes. Applied Physics Letters, 2007, 91, .	1.5	27
96	Synthesis and Photoinduced Phase Transitions of Poly(N-isopropylacrylamide) Derivative Functionalized with Terminal Azobenzene Units. Macromolecules, 2007, 40, 5129-5132.	2.2	109
97	Oligomeric Electrolyte as a Multifunctional Gelator. Journal of the American Chemical Society, 2007, 129, 11039-11041.	6.6	107
98	Characterization of Poly(N-isopropylacrylamide)-Grafted Interfaces with Sum-Frequency Generation Spectroscopy. Macromolecules, 2007, 40, 4601-4606.	2.2	33
99	Photochemical Synthesis of a Main-Chain LC Oligomer from an Î±,Ï‰-Dicinnamoyl-Functionalized LC Monomer: Photoirradiation in the Crystalline State. Molecular Crystals and Liquid Crystals, 2007, 470, 31-37.	0.4	2
100	Effect of Pretransitional Organization in Chiral Nematic of Oligothiophene Derivatives on Their Carrier Transport Characteristics. Chemistry of Materials, 2007, 19, 608-617.	3.2	42
101	In situ photochemical conversion from cinnamoylâ€functionalized liquidâ€crystalline monomers to liquidâ€crystalline dimers. Liquid Crystals, 2007, 34, 1337-1347.	0.9	16
102	Fluorinated Diphenylpolyenes:â€‰ Crystal Structures and Emission Properties. Journal of Physical Chemistry A, 2007, 111, 13441-13451.	1.1	68
103	Modulation of Unconventional Fluorescence of Novel Photochromic Perimidine Spirodimers. Chemistry - A European Journal, 2007, 13, 626-631.	1.7	21
104	Assembly and Photoinduced Organization of Mono- and Oligopeptide Molecules Containing an Azobenzene Moiety. Advanced Functional Materials, 2007, 17, 1507-1514.	7.8	50
105	High Ambipolar Mobility in a Highly Ordered Smectic Phase of a Dialkylphenylterthiophene Derivative That Can Be Applied to Solution-Processed Organic Field-Effect Transistors. Advanced Materials, 2007, 19, 353-358.	11.1	160
106	Visible-Light Photoresponsivity of a 4-(Dimethylamino)azobenzene Unit Incorporated into Single-Stranded DNA: Demonstration of a Large Spectral Change Accompanying Isomerization in DMSO and Detection of Rapid (Z)-to-(E) Isomerization in Aqueous Solution. European Journal of Organic Chemistry, 2007, 2007, 1846-1853.	1.2	17
107	Four (E,Z,E)-1-(4-alkoxyphenyl)-6-(4-nitrophenyl)hexa-1,3,5-trienes. Acta Crystallographica Section C: Crystal Structure Communications, 2007, 63, o196-o200.	0.4	1
108	Study of unsymmetrical dimesogens containing 4â€heptylazobenzene. Journal of Physical Organic Chemistry, 2007, 20, 878-883.	0.9	3

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109	Palladium-Catalyzed Câ^'H Homocoupling of Bromothiophene Derivatives and Synthetic Application to Well-Defined Oligothiophenes. Journal of the American Chemical Society, 2006, 128, 10930-10933.	6.6	203
110	Study of Chiral Dimesogens: Liquid Crystalline Properties, Effect of Smectic Cybotactic Domains in Controlling the Chiral Reflections and Glassy Liquid Crystal Forming Properties. Molecular Crystals and Liquid Crystals, 2006, 454, 81/[483]-90/[492].	0.4	6
111	Fluorescence Spectroscopic Properties and Crystal Structure of a Series of Donorâ^'Acceptor Diphenylpolyenes. Journal of Physical Chemistry A, 2006, 110, 13379-13387.	1.1	49
112	Reversible Thermal and Photochemical Switching of Liquid Crystalline Phases and Luminescence in Diphenylbutadiene-Based Mesogenic Dimers. Journal of the American Chemical Society, 2006, 128, 7692-7698.	6.6	109
113	Photochemical and Thermalcis/trans Isomerization of Cyclic and Noncyclic Azobenzene Dimers: Effect of a Cyclic Structure on Isomerization. European Journal of Organic Chemistry, 2006, 2006, 1296-1302.	1.2	47
114	Electronic Conduction in the Chiral Nematic Phase of an Oligothiophene Derivative. ChemPhysChem, 2006, 7, 1193-1197.	1.0	44
115	A Main-Chain Liquid-Crystalline Oligomer Prepared by in situ Photopolymerization of an LC Monomer Having Cinnamate Moieties. Macromolecular Rapid Communications, 2006, 27, 829-834.	2.0	18
116	Synthesis, Liquid-Crystalline Properties, and Photo-optical Studies of Photoresponsive Oligomeric Mesogens as Dopants in a Chiral Glassy Liquid Crystal. Advanced Functional Materials, 2006, 16, 477-484.	7.8	39
117	Dynamic Control of Racemization Rate through Eâ^'Z Photoisomerization of Azobenzene and Subsequent Partial Photoresolution under Circular Polarized Light. Journal of the American Chemical Society, 2006, 128, 6284-6285.	6.6	41
118	Synthesis, Isomerization and Functions of Cyclophanes Containing Azobenzene Units in the Main Frame. ChemInform, 2005, 36, no.	0.1	0
119	Synthesis, Isomerization and Functions of Cyclophanes Containing Azobenzene Units in the Main Frame. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2005, 63, 370-376.	0.0	3
120	Two Dimensionally Ion-Conductive Liquid Crystals of Cholesterol/Tetra(Ethylene Oxide) Block Molecules. Molecular Crystals and Liquid Crystals, 2005, 435, 117/[777]-125/[785].	0.4	8
121	Thermal and photo optical properties of azoxybenzene/alkyloxy-azobenzeneâ€"cholesterol dimesogens with alkyl diacetylene linker. Journal of Materials Research, 2005, 20, 3431-3438.	1.2	7
122	Photoinduced Hinge-Like Molecular Motion:Â Studies on Xanthene-Based Cyclic Azobenzene Dimers. Journal of Organic Chemistry, 2005, 70, 9304-9313.	1.7	77
123	Novel Photochromic Spiroheterocyclic Molecules via Oxidation of 1,8-Diaminonaphthalene. Organic Letters, 2005, 7, 1461-1464.	2.4	25
124	Polymers derived fromN-isopropylacrylamide and azobenzene-containing acrylamides: Photoresponsive affinity to water. Journal of Polymer Science Part A, 2004, 42, 5200-5214.	2.5	61
125	Butadienes as Novel Photochromes for Color Tuning of Cholesteric Glasses: Influence of Microscopic Molecular Reorganization within the Helical Superstructure. Advanced Functional Materials, 2004, 14, 743-748.	7.8	30
126	Design of chiral dimesogens containing cholesteryl groups; formation of new molecular organizations and their application to molecular photonics. Chemical Society Reviews, 2004, 33, 76.	18.7	160

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127	Photoactive dimesogen having different pathways of light driven phase transitions at different temperatures. Chemical Communications, 2004, , 2538.	2.2	28
128	Light-Driven Molecular Hinge:â€‰ A New Molecular Machine Showing a Light-Intensity-Dependent Photoresponse that Utilizes the Transâ^'Cis Isomerization of Azobenzene. Organic Letters, 2004, 6, 2595-2598.	2.4	140
129	Photocontrolled Gel-to-Sol-to-Gel Phase Transitioning of meta-Substituted Azobenzene Bisurethanes through the Breaking and Reforming of Hydrogen Bonds. Langmuir, 2004, 20, 9897-9900.	1.6	107
130	Novel Odd/Even Effect of Alkylene Chain Length on the Photopolymerizability of Organogelators. Organic Letters, 2004, 6, 4009-4012.	2.4	62
131	Thermal Hysteresis in the Photoresponsivity of a Langmuir Film of Amphiphilic Spiropyran. Journal of the American Chemical Society, 2004, 126, 1006-1007.	6.6	23
132	Organogelation of Diacetylene Cholesteryl Esters Having Two Urethane Linkages and Their Photopolymerization in the Gel State. Langmuir, 2004, 20, 7907-7916.	1.6	53
133	Synthesis of a mechanically linked oligo[2]rotaxane. Tetrahedron Letters, 2003, 44, 2307-2310.	0.7	23
134	Molecular Mechanism of Anomalous Increase in the Helical Pitch of Cholesteric Liquid Crystals Induced by Achiral Dopants. Journal of Physical Chemistry B, 2003, 107, 12054-12061.	1.2	30
135	Photochemically Driven Smecticâ^'Cholesteric Phase Transition in an Inherently Photoactive Dimesogen. Chemistry of Materials, 2003, 15, 3237-3239.	3.2	37
136	Quantum Chemical Studies on Photoinduced Cisâ^'Trans Isomerization and Intramolecular Hydrogen Atom Transfer of 2â€˜-Hydroxychalcone. Journal of Physical Chemistry A, 2003, 107, 8659-8664.	1.1	21
137	Photochemical Phase Transition and Molecular Realignment of Glass-Forming Liquid Crystals Containing Cholesterol/Azobenzene Dimesogenic Compounds. Chemistry of Materials, 2003, 15, 719-726.	3.2	97
138	Unique crystal structures of donorâ€“acceptor complexes: crossed arrangement of two charge-transfer columns. Chemical Communications, 2003, , 290-291.	2.2	32
139	Novel supramolecular hydrogen-bonded cholesteric mesogens: liquid crystalline, thermoptical and glass-forming properties. Journal of Materials Chemistry, 2003, 13, 1582.	6.7	33
140	Novel Crystal Structure, Cisâ^'Trans Isomerization, and Host Property of Meta-Substituted Macrocyclic Azobenzenes with the Shortest Linkers. Journal of Organic Chemistry, 2003, 68, 8291-8304.	1.7	100
141	Photoresponsive vitrifiable chiral dimesogens: photo-thermal modulation of microscopic disordering in helical superstructure and glass-forming properties. Journal of Materials Chemistry, 2003, 13, 219-224.	6.7	63
142	Effects of Polymerized Photoresponsive Additives on Cholesteric Pitch of Medium Molecular Weight Liquid Crystals. Kobunshi Ronbunshu, 2003, 60, 575-580.	0.2	0
143	Photochemical control of helical pitch of glass-forming dimeric cholesteric liquid crystals by isomerization of embedded di-mesogenic compounds with both cholesterol and azobenzene groups. , 2002, , .		1
144	[1.1](3,3â€˜)-Azobenzenophane:â€‰ Novel Crystal Structure and Cisâ^'Trans Isomerization of Distorted Azobenzene. Organic Letters, 2002, 4, 3907-3910.	2.4	38

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145	DFT Study on Triplet Ground State Silylenes Revisited:Â The Quest for the Triplet Silylene Must Go On. Organometallics, 2002, 21, 2587-2589.	1.1	43
146	Effects of doped dialkylazobenzenes on helical pitch of cholesteric liquid crystal with medium molecular weight: utilisation for full-colour image recording. Journal of Materials Chemistry, 2001, 11, 1003-1010.	6.7	66
147	Thermal and optical properties of newly synthesized dicholesteryl esters with a phenylene oxide link in the normal and solidified cholesteric phases. Liquid Crystals, 2001, 28, 1823-1829.	0.9	18
148	Photo-Controllable and Fixative Optical Properties of Non-polymeric Liquid Crystals with Azobenzene Chromophore. Chemistry Letters, 2001, 30, 1142-1143.	0.7	9
149	Cholesteric Liquid Crystals for Color Information Technology. Advanced Materials, 2001, 13, 1135-1147.	11.1	417
150	Photoinduced Alignment of Nematic Liquid Crystal on the Polymer Surface Microrelief. Molecular Crystals and Liquid Crystals, 2001, 359, 167-175.	0.3	5
151	Cholesteric Solid Films Formed by Spin-Coating Solutions of Dicholesteryl Esters. Angewandte Chemie - International Edition, 2000, 39, 509-511.	7.2	20
152	Rewritable Full-Color Recording in a Photon Mode. Advanced Materials, 2000, 12, 94-97.	11.1	90
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