

# Nobuyuki Tamaoki

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7698038/publications.pdf>

Version: 2024-02-01

171  
papers

6,867  
citations

53794

45  
h-index

76900

74  
g-index

179  
all docs

179  
docs citations

179  
times ranked

5586  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic control of microbial movement by photoswitchable ATP antagonists. Chemistry - A European Journal, 2022, , .	3.3	1
2	A Series of Bisamide-Substituted Diacetylenes Exhibiting a Terminal Alkyl Odd/Even Parity Effect on Mechanoactivated Photopolymerization. Chemistry - A European Journal, 2021, 27, 3832-3841.	3.3	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.	5.5	10
4	Rational design and development of a lit-active photoswitchable inhibitor targeting CENP-E. Organic and Biomolecular Chemistry, 2021, 19, 6979-6984.	2.8	8
5	Mechanically Responsive Luminescent Polymers Based on Supramolecular Cyclophane Mechanophores. Journal of the American Chemical Society, 2021, 143, 5519-5525.	13.7	76
6	Rotaxane-Based Dual Function Mechanophores Exhibiting Reversible and Irreversible Responses. Journal of the American Chemical Society, 2021, 143, 9884-9892.	13.7	58
7	Pressure-tunable thermal conductivity observed for bisamide functionalized diacetylene crystals. Journal of Materials Science, 2021, 56, 15481-15490.	3.7	2
8	Synthesis and Properties of Aromatic-Terminated Diacetylene Organogelators and Their Application to Photopatterning of Polydiacetylenes. Langmuir, 2021, 37, 13160-13169.	3.5	0
9	A visible light-controllable Rho kinase inhibitor based on a photochromic phenylazothiazole. Chemical Communications, 2021, 57, 12500-12503.	4.1	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.	3.4	5
11	Mechanochromic Luminescence from Crystals Consisting of Intermolecular Hydrogen-Bonded Sheets. Chemistry - an Asian Journal, 2020, 15, 478-482.	3.3	20
12	Photoisomerization of azobenzene units drives the photochemical reaction cycles of proteorhodopsin and bacteriorhodopsin analogues. Organic and Biomolecular Chemistry, 2020, 18, 6312-6327.	2.8	1
13	Electrofluorochromic Device Based on a Redox-Active Europium(III) Complex. ACS Applied Materials & Interfaces, 2020, 12, 46390-46396.	8.0	13
14	Glycomacrocycle-Based Azobenzene Derivatives as Chiral Dopants for Photoresponsive Cholesteric Liquid Crystals. ACS Applied Materials & Interfaces, 2020, 12, 52146-52155.	8.0	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.	5.5	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.	13.7	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.	2.8	8
18	Mechanoresponsive Behavior of a Polymer-Embedded Red-Light Emitting Rotaxane Mechanophore. ACS Applied Materials & Interfaces, 2019, 11, 24571-24576.	8.0	49

#	ARTICLE	IF	CITATIONS
19	Photoresponsive Molecular Switches and Machines. <i>ChemPhotoChem</i> , 2019, 3, 266-267.	3.0	0
20	Enantioselective Photochromism under Circularly Polarized Light. <i>ChemPhotoChem</i> , 2019, 3, 347-355.	3.0	22
21	Rotaxane-Based Mechanophores Enable Polymers with Mechanically Switchable White Photoluminescence. <i>ACS Central Science</i> , 2019, 5, 874-881.	11.3	113
22	Photoresponsive Chiral Dopants: Light-Driven Helicity Manipulation in Cholesteric Liquid Crystals for Optical and Mechanical Functions. <i>ChemPhotoChem</i> , 2019, 3, 284-303.	3.0	33
23	Mechano- and Photoresponsive Behavior of a Bis(cyanostyryl)benzene Fluorophore. <i>Chemistry - A European Journal</i> , 2019, 25, 6162-6169.	3.3	13
24	A 1,6-Diphenylpyrene-Based, Photoluminescent Cyclophane Showing a Nematic Liquid-Crystalline Phase at Room Temperature. <i>Crystals</i> , 2019, 9, 92.	2.2	8
25	Azobenzene-Based Photoswitches Facilitating Reversible Regulation of Kinesin and Myosin Motor Systems for Nanotechnological Applications. <i>ChemPhotoChem</i> , 2019, 3, 337-346.	3.0	13
26	Molecular Crankshaft Effect Converting Piston-like Molecular Motion to Continuous Rotation of Macro Objects. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 15097-15102.	8.0	5
27	Stimuli-Responsive Dual-Color Photon Upconversion: A Singlet-Triplet Absorption Sensitizer in a Soft Luminescent Cyclophane. <i>Angewandte Chemie</i> , 2018, 130, 2856-2860.	2.0	11
28	Rotaxanes as Mechanochromic Fluorescent Force Transducers in Polymers. <i>Journal of the American Chemical Society</i> , 2018, 140, 1584-1587.	13.7	284
29	Stimuli-Responsive Dual-Color Photon Upconversion: A Singlet-Triplet Absorption Sensitizer in a Soft Luminescent Cyclophane. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2806-2810.	13.8	28
30	Innentitelbild: Stimuli-Responsive Dual-Color Photon Upconversion: A Singlet-Triplet Absorption Sensitizer in a Soft Luminescent Cyclophane ( <i>Angew. Chem.</i> 11/2018). <i>Angewandte Chemie</i> , 2018, 130, 2778-2778.	2.0	0
31	Pressure-Induced Transition of Bisamide-Substituted Diacetylene Crystals from Nonphotopolymerizable to Photopolymerizable State. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 36407-36414.	8.0	12
32	Linearly polarized photoluminescence from an asymmetric cyclophane showing thermo- and mechano-responsive luminescence. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8453-8459.	5.5	14
33	Cyclophane-Based Fluorescence Tuning Induced by Hydrostatic Pressure Changes. <i>ChemPhotoChem</i> , 2018, 2, 959-963.	3.0	21
34	A helical naphthopyran dopant for photoresponsive cholesteric liquid crystals. <i>Chemical Communications</i> , 2017, 53, 200-203.	4.1	30
35	Temperature-Dependent Mechanochromic Behavior of Mechano-responsive Luminescent Compounds. <i>Chemistry of Materials</i> , 2017, 29, 1273-1278.	6.7	99
36	Mechano-responsive luminescence and liquid-crystalline behaviour of a cyclophane featuring two 1,6-bis(phenylethynyl)pyrene groups. <i>RSC Advances</i> , 2017, 7, 47056-47062.	3.6	17

#	ARTICLE	IF	CITATIONS
37	Driving and photo-regulation of myosin-actin motors at molecular and macroscopic levels by photo-responsive high energy molecules. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 8894-8903.	2.8	10
38	Targeted Activation of Molecular Transportation by Visible Light. <i>ACS Nano</i> , 2017, 11, 12292-12301.	14.6	23
39	Asymmetric Cyclophanes Permit Access to Supercooled Nematic Liquid Crystals with Stimulus-Responsive Luminescence. <i>Chemistry of Materials</i> , 2017, 29, 6145-6152.	6.7	43
40	Programmable dual electrochromism in azine linked conjugated polymer. <i>Optical Materials Express</i> , 2017, 7, 2117.	3.0	8
41	Determination of the absolute stereostructure of a cyclic azobenzene from the crystal structure of the precursor containing a heavy element. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 2211-2215.	2.2	2
42	Tuning the thermo- and mechanoresponsive behavior of luminescent cyclophanes. <i>RSC Advances</i> , 2016, 6, 80408-80414.	3.6	23
43	Spatiotemporal control of kinesin motor protein by photoswitches enabling selective single microtubule regulations. <i>Lab on A Chip</i> , 2016, 16, 4702-4709.	6.0	16
44	Structure-property relationships of photoresponsive inhibitors of the kinesin motor. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 7202-7210.	2.8	10
45	A mechano- and thermoresponsive luminescent cyclophane. <i>Chemical Communications</i> , 2016, 52, 5694-5697.	4.1	47
46	Asymmetric Dimers of Chiral Azobenzene Dopants Exhibiting Unusual Helical Twisting Power upon Photoswitching in Cholesteric Liquid Crystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 4918-4926.	8.0	45
47	Fast thermal cis-trans isomerization depending on pH and metal ions of water-soluble azobenzene derivatives containing a phosphate group. <i>Tetrahedron</i> , 2015, 71, 3500-3506.	1.9	11
48	Dynamic induction of enantiomeric excess from a prochiral azobenzene dimer under circularly polarized light. <i>Chemical Science</i> , 2015, 6, 973-980.	7.4	26
49	Thieno[3,2-b]thiophene derivatives exhibiting semiconducting liquid-crystalline phases at lower temperatures. <i>RSC Advances</i> , 2014, 4, 60511-60518.	3.6	7
50	Reversible control of F1-ATPase rotational motion using a photochromic ATP analog at the single molecule level. <i>Biochemical and Biophysical Research Communications</i> , 2014, 446, 358-363.	2.1	2
51	A photoresponsive planar chiral azobenzene dopant with high helical twisting power. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9258-9264.	5.5	34
52	Dicholesteryl icosanedioate as a glass-forming cholesteric liquid crystal: properties, additive effects and application in color recording. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1921.	5.5	28
53	Complete ON/OFF Photoswitching of the Motility of a Nanobiomolecular Machine. <i>ACS Nano</i> , 2014, 8, 4157-4165.	14.6	48
54	A non-nucleoside triphosphate for powering kinesin-microtubule motility with photo-tunable velocity. <i>Chemical Communications</i> , 2013, 49, 9935.	4.1	24

#	ARTICLE	IF	CITATIONS
55	Chirality induction by E <sup>Z</sup> photoisomerization in [2,2]paracyclophane-bridged azobenzene dimer. Tetrahedron Letters, 2013, 54, 176-178.	1.4	10
56	Supramolecular self-assembly of a novel hydrogen-bonded cholesteric liquid crystal exhibiting macromolecular behaviour. Liquid Crystals, 2013, 40, 314-320.	2.2	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.	4.1	18
59	Dynamic photo-control of kinesin on a photoisomerizable monolayer <sup>+</sup> hydrolysis rate of ATP and motility of microtubules depending on the terminal group. Organic and Biomolecular Chemistry, 2012, 10, 3321.	2.8	7
60	Influence of a Change in Helical Twisting Power of Photoresponsive Chiral Dopants on Rotational Manipulation of Micro <sup>o</sup> bjects on the Surface of Chiral Nematic Liquid Crystalline Films. Chemistry - A European Journal, 2012, 18, 12337-12348.	3.3	58
61	A photochromic ATP analogue driving a motor protein with reversible light-controlled motility: controlling velocity and binding manner of a kinesin <sup>+</sup> microtubule system in an in vitro motility assay. Chemical Communications, 2012, 48, 7625.	4.1	38
62	Reversible Photogeneration of a Stable Chiral Radical-Pair from a Fast Photochromic Molecule. Journal of Physical Chemistry Letters, 2011, 2, 2680-2682.	4.6	19
63	Dynamic Photocontrol of the Gliding Motility of a Microtubule Driven by Kinesin on a Photoisomerizable Monolayer Surface. Langmuir, 2011, 27, 10347-10350.	3.5	21
64	Synthesis and efficient circularly polarized light emission of an optically active hyperbranched poly(fluorenevinylene) derivative. Chemical Communications, 2011, 47, 3799.	4.1	43
65	Single-Molecule Fluorescence Photoswitching of a Diarylethene <sup>+</sup> Perylenebisimide Dyad: Non-destructive Fluorescence Readout. Journal of the American Chemical Society, 2011, 133, 4984-4990.	13.7	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.	2.8	16
67	Synthesis, Gelation Properties and Photopolymerization of Macrocyclic Diacetylenedicarboxamides Derived from $\langle \text{sc} \rangle \text{L} \langle / \text{sc} \rangle$ <sup>+</sup> Glutamic Acid and $\langle i \rangle \text{trans} \langle / i \rangle$ <sup>+</sup> 1,4 <sup>+</sup> Cyclohexanediol. European Journal of Organic Chemistry, 2011, 2011, 2247-2255.	2.4	31
68	Induction of Point Chirality by $\langle i \rangle \text{E} \langle / i \rangle / \langle i \rangle \text{Z} \langle / i \rangle$ Photoisomerization. Angewandte Chemie - International Edition, 2011, 50, 11729-11730.	13.8	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.	3.3	43
70	Temperature-Independent Hole Mobility in Field-Effect Transistors Based on Liquid-Crystalline Semiconductors. IEICE Transactions on Electronics, 2011, E94.C, 1720-1726.	0.6	2
71	Class <sup>+</sup> Forming Cholesteric Liquid Crystal Oligomers for New Tunable Solid <sup>+</sup> State Laser. Advanced Materials, 2010, 22, 886-891.	21.0	79
72	A Light <sup>+</sup> Controlled Molecular Brake with Complete ON <sup>+</sup> OFF Rotation. Chemistry - A European Journal, 2010, 16, 3489-3496.	3.3	79

#	ARTICLE	IF	CITATIONS
73	Reversible photo-regulation of the properties of liquid crystals doped with photochromic compounds. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2010, 11, 47-61.	11.6	52
74	Flexible field-effect transistors from a liquid crystalline semiconductor by solution processes. <i>Organic Electronics</i> , 2010, 11, 363-368.	2.6	42
75	Tuning of solubility and gelation ability of oligomeric electrolyte by anion exchange. <i>Polymer Journal</i> , 2010, 42, 759-765.	2.7	12
76	Photoisomerization of Azobenzene Units Controls the Reversible Dispersion and Reorganization of Fibrous Self-Assembled Systems. <i>Journal of Physical Chemistry B</i> , 2010, 114, 1586-1590.	2.6	25
77	Fluorescence photoswitching of a diarylethene- <i>perylenebisimide</i> dyad based on intramolecular electron transfer. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 181.	2.9	47
78	Structure of Silver(I) Complex Prepared from Azobenzonaphthalenophane, Photochemical Coordination Change of Silver(I) and Silver(I)-Induced Acceleration of <i>Z</i> $\rightarrow$ <i>E</i> Thermal Isomerization of Azobenzene Unit. <i>Inorganic Chemistry</i> , 2010, 49, 4765-4767.	4.0	34
79	Thin-film transistors based on liquid-crystalline tetrafluorophenylter thiophene derivatives: thin-film structure and carrier transport. <i>Organic Electronics</i> , 2009, 10, 73-84.	2.6	27
80	[2+2] Photodimerization and photopolymerization of diphenylhexatriene crystals utilizing perfluorophenyl-phenyl stacking interactions. <i>Journal of Fluorine Chemistry</i> , 2009, 130, 151-157.	1.7	33
81	Indane-1,3-dione and cholesterol containing butadiene derivatives: Photoresponsive liquid crystalline glasses for imaging applications. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009, 207, 73-78.	3.9	10
82	Drastic solvent effect on thermal back reaction of spiroperimidine photochromic compounds. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009, 205, 116-121.	3.9	11
83	Reversibly tunable helicity induction and inversion in liquid crystal self-assembly by a planar chiroptic trigger molecule. <i>Chemical Communications</i> , 2009, , 3609.	4.1	45
84	Photochromism of a spiroperimidine compound in polymer matrices. <i>New Journal of Chemistry</i> , 2009, 33, 1327.	2.8	16
85	Visible-Light Photocontrol of <i>E/Z</i> Isomerization of the 4-(Dimethylamino)azobenzene Pseudo-Nucleotide Unit Incorporated into an Oligonucleotide and DNA Hybridization in Aqueous Media. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2009, 28, 12-28.	1.1	16
86	Reflection colour changes in cholesteric liquid crystals after the addition and photochemical isomerization of mesogenic azobenzenes tethered to sugar alcohols. <i>Journal of Materials Chemistry</i> , 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. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 1424-1431.	2.2	5
88	Ambipolar Transport in the Smectic E Phase of 2-Propyl-5-Hexynylterthiophene Derivative over a Wide Temperature Range. <i>ChemPhysChem</i> , 2008, 9, 1465-1473.	2.1	49
89	Photoresponsive Glass-Forming Butadiene-Based Chiral Liquid Crystals with Circularly Polarized Photoluminescence. <i>Advanced Functional Materials</i> , 2008, 18, 2510-2517.	14.9	64
90	Planar Chiral Azobenzonaphthalenophanes as Chiroptic Switches for Photon Mode Reversible Reflection Color Control in Induced Chiral Nematic Liquid Crystals. <i>Journal of the American Chemical Society</i> , 2008, 130, 11409-11416.	13.7	159

#	ARTICLE	IF	CITATIONS
91	Unconventional thermodynamically stable cis isomer and trans to cis thermal isomerization in reversibly photoresponsive [0.0](3,3-azobenzenophane. <i>Chemical Communications</i> , 2008, , 1898.	4.1	52
92	Molecular Packing and Solid-State Fluorescence of Alkoxy-Cyano Substituted Diphenylbutadienes: Structure of the Luminescent Aggregates. <i>Journal of Physical Chemistry C</i> , 2008, 112, 2137-2146.	3.1	161
93	Hydrogels Based on Surfactant-Free Ionene Polymers with <i>N,N</i> -( <i>p</i> -Phenylene)dibenzamide Linkages. <i>Macromolecules</i> , 2008, 41, 8841-8846.	4.8	35
94	Organic Semiconductors with Helical Structure Based on Oligothiophene derivatives Exhibiting Chiral Nematic Phase. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 475, 123-135.	0.9	13
95	High-performance thin film transistors from semiconducting liquid crystalline phases by solution processes. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	27
96	Synthesis and Photoinduced Phase Transitions of Poly( <i>N</i> -isopropylacrylamide) Derivative Functionalized with Terminal Azobenzene Units. <i>Macromolecules</i> , 2007, 40, 5129-5132.	4.8	109
97	Oligomeric Electrolyte as a Multifunctional Gelator. <i>Journal of the American Chemical Society</i> , 2007, 129, 11039-11041.	13.7	107
98	Characterization of Poly( <i>N</i> -isopropylacrylamide)-Grafted Interfaces with Sum-Frequency Generation Spectroscopy. <i>Macromolecules</i> , 2007, 40, 4601-4606.	4.8	33
99	Photochemical Synthesis of a Main-Chain LC Oligomer from an $\hat{\pm}$ , $\hat{\%}$ -Dicinnamoyl-Functionalized LC Monomer: Photoirradiation in the Crystalline State. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 470, 31-37.	0.9	2
100	Effect of Pretransitional Organization in Chiral Nematic of Oligothiophene Derivatives on Their Carrier Transport Characteristics. <i>Chemistry of Materials</i> , 2007, 19, 608-617.	6.7	42
101	In situ photochemical conversion from cinnamoyl- $\hat{\epsilon}$ functionalized liquid- $\hat{\epsilon}$ crystalline monomers to liquid- $\hat{\epsilon}$ crystalline dimers. <i>Liquid Crystals</i> , 2007, 34, 1337-1347.	2.2	16
102	Fluorinated Diphenylpolyenes: Crystal Structures and Emission Properties. <i>Journal of Physical Chemistry A</i> , 2007, 111, 13441-13451.	2.5	68
103	Modulation of Unconventional Fluorescence of Novel Photochromic Perimidine Spirodimers. <i>Chemistry - A European Journal</i> , 2007, 13, 626-631.	3.3	21
104	Assembly and Photoinduced Organization of Mono- and Oligopeptide Molecules Containing an Azobenzene Moiety. <i>Advanced Functional Materials</i> , 2007, 17, 1507-1514.	14.9	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. <i>Advanced Materials</i> , 2007, 19, 353-358.	21.0	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. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 1846-1853.	2.4	17
107	Four (E,Z,E)-1-(4-alkoxyphenyl)-6-(4-nitrophenyl)hexa-1,3,5-trienes. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2007, 63, o196-o200.	0.4	1
108	Study of unsymmetrical dimesogens containing 4- $\hat{\epsilon}$ heptylazobenzene. <i>Journal of Physical Organic Chemistry</i> , 2007, 20, 878-883.	1.9	3



#	ARTICLE	IF	CITATIONS
109	Palladium-Catalyzed C <sup>∞</sup> H Homocoupling of Bromothiophene Derivatives and Synthetic Application to Well-Defined Oligothiophenes. <i>Journal of the American Chemical Society</i> , 2006, 128, 10930-10933.	13.7	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. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 454, 81/[483]-90/[492].	0.9	6
111	Fluorescence Spectroscopic Properties and Crystal Structure of a Series of Donor <sup>∞</sup> Acceptor Diphenylpolyenes. <i>Journal of Physical Chemistry A</i> , 2006, 110, 13379-13387.	2.5	49
112	Reversible Thermal and Photochemical Switching of Liquid Crystalline Phases and Luminescence in Diphenylbutadiene-Based Mesogenic Dimers. <i>Journal of the American Chemical Society</i> , 2006, 128, 7692-7698.	13.7	109
113	Photochemical and Thermal cis/trans Isomerization of Cyclic and Noncyclic Azobenzene Dimers: Effect of a Cyclic Structure on Isomerization. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 1296-1302.	2.4	47
114	Electronic Conduction in the Chiral Nematic Phase of an Oligothiophene Derivative. <i>ChemPhysChem</i> , 2006, 7, 1193-1197.	2.1	44
115	A Main-Chain Liquid-Crystalline Oligomer Prepared by in situ Photopolymerization of an LC Monomer Having Cinnamate Moieties. <i>Macromolecular Rapid Communications</i> , 2006, 27, 829-834.	3.9	18
116	Synthesis, Liquid-Crystalline Properties, and Photo-optical Studies of Photoresponsive Oligomeric Mesogens as Dopants in a Chiral Glassy Liquid Crystal. <i>Advanced Functional Materials</i> , 2006, 16, 477-484.	14.9	39
117	Dynamic Control of Racemization Rate through E <sup>∞</sup> Z Photoisomerization of Azobenzene and Subsequent Partial Photoresolution under Circular Polarized Light. <i>Journal of the American Chemical Society</i> , 2006, 128, 6284-6285.	13.7	41
118	Synthesis, Isomerization and Functions of Cyclophanes Containing Azobenzene Units in the Main Frame. <i>ChemInform</i> , 2005, 36, no.	0.0	0
119	Synthesis, Isomerization and Functions of Cyclophanes Containing Azobenzene Units in the Main Frame. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2005, 63, 370-376.	0.1	3
120	Two Dimensionally Ion-Conductive Liquid Crystals of Cholesterol/Tetra(Ethylene Oxide) Block Molecules. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 435, 117/[777]-125/[785].	0.9	8
121	Thermal and photo optical properties of azoxybenzene/alkyloxy-azobenzene <sup>∞</sup> cholesterol dimesogens with alkyl diacetylene linker. <i>Journal of Materials Research</i> , 2005, 20, 3431-3438.	2.6	7
122	Photoinduced Hinge-Like Molecular Motion: <sup>∞</sup> Studies on Xanthene-Based Cyclic Azobenzene Dimers. <i>Journal of Organic Chemistry</i> , 2005, 70, 9304-9313.	3.2	77
123	Novel Photochromic Spiroheterocyclic Molecules via Oxidation of 1,8-Diaminonaphthalene. <i>Organic Letters</i> , 2005, 7, 1461-1464.	4.6	25
124	Polymers derived from N-isopropylacrylamide and azobenzene-containing acrylamides: Photoresponsive affinity to water. <i>Journal of Polymer Science Part A</i> , 2004, 42, 5200-5214.	2.3	61
125	Butadienes as Novel Photochromes for Color Tuning of Cholesteric Glasses: Influence of Microscopic Molecular Reorganization within the Helical Superstructure. <i>Advanced Functional Materials</i> , 2004, 14, 743-748.	14.9	30
126	Design of chiral dimesogens containing cholesteryl groups; formation of new molecular organizations and their application to molecular photonics. <i>Chemical Society Reviews</i> , 2004, 33, 76.	38.1	160



#	ARTICLE	IF	CITATIONS
127	Photoactive dimesogen having different pathways of light driven phase transitions at different temperatures. <i>Chemical Communications</i> , 2004, , 2538.	4.1	28
128	Light-Driven Molecular Hinge: A New Molecular Machine Showing a Light-Intensity-Dependent Photoresponse that Utilizes the Trans $\leftrightarrow$ Cis Isomerization of Azobenzene. <i>Organic Letters</i> , 2004, 6, 2595-2598.	4.6	140
129	Photocontrolled Gel-to-Sol-to-Gel Phase Transitioning of meta-Substituted Azobenzene Bisurethanes through the Breaking and Reforming of Hydrogen Bonds. <i>Langmuir</i> , 2004, 20, 9897-9900.	3.5	107
130	Novel Odd/Even Effect of Alkylene Chain Length on the Photopolymerizability of Organogelators. <i>Organic Letters</i> , 2004, 6, 4009-4012.	4.6	62
131	Thermal Hysteresis in the Photoresponsivity of a Langmuir Film of Amphiphilic Spiropyran. <i>Journal of the American Chemical Society</i> , 2004, 126, 1006-1007.	13.7	23
132	Organogelation of Diacetylene Cholesteryl Esters Having Two Urethane Linkages and Their Photopolymerization in the Gel State. <i>Langmuir</i> , 2004, 20, 7907-7916.	3.5	53
133	Synthesis of a mechanically linked oligo[2]rotaxane. <i>Tetrahedron Letters</i> , 2003, 44, 2307-2310.	1.4	23
134	Molecular Mechanism of Anomalous Increase in the Helical Pitch of Cholesteric Liquid Crystals Induced by Achiral Dopants. <i>Journal of Physical Chemistry B</i> , 2003, 107, 12054-12061.	2.6	30
135	Photochemically Driven Smectic $\leftrightarrow$ Cholesteric Phase Transition in an Inherently Photoactive Dimesogen. <i>Chemistry of Materials</i> , 2003, 15, 3237-3239.	6.7	37
136	Quantum Chemical Studies on Photoinduced Cis $\leftrightarrow$ Trans Isomerization and Intramolecular Hydrogen Atom Transfer of 2 $\beta$ -Hydroxychalcone. <i>Journal of Physical Chemistry A</i> , 2003, 107, 8659-8664.	2.5	21
137	Photochemical Phase Transition and Molecular Realignment of Glass-Forming Liquid Crystals Containing Cholesterol/Azobenzene Dimesogenic Compounds. <i>Chemistry of Materials</i> , 2003, 15, 719-726.	6.7	97
138	Unique crystal structures of donor $\leftrightarrow$ acceptor complexes: crossed arrangement of two charge-transfer columns. <i>Chemical Communications</i> , 2003, , 290-291.	4.1	32
139	Novel supramolecular hydrogen-bonded cholesteric mesogens: liquid crystalline, thermoptical and glass-forming properties. <i>Journal of Materials Chemistry</i> , 2003, 13, 1582.	6.7	33
140	Novel Crystal Structure, Cis $\leftrightarrow$ Trans Isomerization, and Host Property of Meta-Substituted Macrocyclic Azobenzenes with the Shortest Linkers. <i>Journal of Organic Chemistry</i> , 2003, 68, 8291-8304.	3.2	100
141	Photoresponsive vitrifiable chiral dimesogens: photo-thermal modulation of microscopic disordering in helical superstructure and glass-forming properties. <i>Journal of Materials Chemistry</i> , 2003, 13, 219-224.	6.7	63
142	Effects of Polymerized Photoresponsive Additives on Cholesteric Pitch of Medium Molecular Weight Liquid Crystals. <i>Kobunshi Ronbunshu</i> , 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](3,3 $\beta$ -Azobenzenophane: A Novel Crystal Structure and Cis $\leftrightarrow$ Trans Isomerization of Distorted Azobenzene. <i>Organic Letters</i> , 2002, 4, 3907-3910.	4.6	38

#	ARTICLE	IF	CITATIONS
145	DFT Study on Triplet Ground State Silylenes Revisited: The Quest for the Triplet Silylene Must Go On. <i>Organometallics</i> , 2002, 21, 2587-2589.	2.3	43
146	Effects of doped dialkylazobenzenes on helical pitch of cholesteric liquid crystal with medium molecular weight: utilisation for full-colour image recording. <i>Journal of Materials Chemistry</i> , 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. <i>Liquid Crystals</i> , 2001, 28, 1823-1829.	2.2	18
148	Photo-Controllable and Fixative Optical Properties of Non-polymeric Liquid Crystals with Azobenzene Chromophore. <i>Chemistry Letters</i> , 2001, 30, 1142-1143.	1.3	9
149	Cholesteric Liquid Crystals for Color Information Technology. <i>Advanced Materials</i> , 2001, 13, 1135-1147.	21.0	417
150	Photoinduced Alignment of Nematic Liquid Crystal on the Polymer Surface Microrelief. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 359, 167-175.	0.3	5
151	Cholesteric Solid Films Formed by Spin-Coating Solutions of Dicholesteryl Esters. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 509-511.	13.8	20
152	Rewritable Full-Color Recording in a Photon Mode. <i>Advanced Materials</i> , 2000, 12, 94-97.	21.0	90
153	Photoinduced alignment of nematic liquid crystal on the polymer surface microrelief. <i>Journal of Applied Physics</i> , 2000, 87, 2043-2045.	2.5	20
154	Polymerization of a Diacetylene Dicholesteryl Ester Having Two Urethanes in Organic Gel States. <i>Langmuir</i> , 2000, 16, 7545-7547.	3.5	79
155	Optical and thermal properties of cholesteric solid from dicholesteryl esters of diacetylenedicarboxylic acid. <i>Journal of Materials Chemistry</i> , 1999, 9, 2381-2384.	6.7	47
156	Diffraction-Based Spatial Light Modulation: Transverse Linear Electrooptic Effect in Polymers. <i>Optical Review</i> , 1998, 5, 89-92.	2.0	2
157	Photomodification of polymer films: azobenzene-containing polyurethanes. <i>Journal Physics D: Applied Physics</i> , 1998, 31, 463-471.	2.8	38
158	Synthesis and Switchable Condensation Reaction of Bifunctional [2]Catenane.. <i>Acta Chemica Scandinavica</i> , 1998, 52, 374-376.	0.7	31
159	Interference Color of a Cholesteric Medium-Molecular-Weight-Molecule and Its Reversible Fixing. <i>Kobunshi</i> , 1998, 47, 760-760.	0.0	0
160	Rewritable full-color recording on a thin solid film of a cholesteric low-molecular-weight compound. <i>Advanced Materials</i> , 1997, 9, 1102-1104.	21.0	102
161	Synthesis of Rotaxanes with Functional Groups.. <i>Acta Chemica Scandinavica</i> , 1997, 51, 1138-1140.	0.7	6
162	Photoreversible optical nonlinearities of polymeric films containing spiropyran with long alkyl chains. <i>Applied Physics Letters</i> , 1996, 69, 1188-1190.	3.3	32

#	ARTICLE	IF	CITATIONS
163	Photochemistry of benzenediazonium anthracenesulfonates: photolysis of benzenediazonium salts by excitation of the anion. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 1749.	2.0	3
164	Thermo-optic effects of 4-alkoxy-3-chlorobenzoic acids in polymeric matrices. <i>Journal of Applied Physics</i> , 1993, 74, 4158-4162.	2.5	5
165	Photo- and thermal cis-trans isomerization of [2,2](4,4'-azobenzophane. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1992, , 1107-1110.	0.9	7
166	A photochromic memory with a non-destructive read-out property. <i>Thin Solid Films</i> , 1992, 221, 132-139.	1.8	23
167	Light-intensity dependence in the photochromism of dibenzo[2,2](4,4'-azobenzophane. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1991, , 873-878.	0.9	28
168	The photo- and thermal cis-trans isomerization of [2,2](4,4'-azobenzophane. <i>Tetrahedron Letters</i> , 1990, 31, 3309-3312.	1.4	23
169	[2,2](4,4'-Azobenzophane. synthesis, structure, and cis-trans isomerization. <i>Tetrahedron</i> , 1990, 46, 5931-5942.	1.9	35
170	[2,2](4,4'-Azobenzophane. <i>Angewandte Chemie International Edition in English</i> , 1990, 29, 105-106.	4.4	38
171	[2,2](4,4'-Azobenzolophan. <i>Angewandte Chemie</i> , 1990, 102, 66-67.	2.0	17