

Nobuyuki Tamaoki

List of Publications by Year in descending order

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171
papers

6,867
citations

53794

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74
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179
all docs

179
docs citations

179
times ranked

5586
citing authors

#	ARTICLE	IF	CITATIONS
1	Cholesteric Liquid Crystals for Color Information Technology. <i>Advanced Materials</i> , 2001, 13, 1135-1147.	21.0	417
2	Rotaxanes as Mechanochromic Fluorescent Force Transducers in Polymers. <i>Journal of the American Chemical Society</i> , 2018, 140, 1584-1587.	13.7	284
3	Single-Molecule Fluorescence Photoswitching of a Diarylethene-Perylenebisimide Dyad: Non-destructive Fluorescence Readout. <i>Journal of the American Chemical Society</i> , 2011, 133, 4984-4990.	13.7	276
4	Palladium-Catalyzed C-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
5	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
6	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
7	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
8	Planar Chiral Azobenzenophanes 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
9	Light-Driven Molecular Hinge: A New Molecular Machine Showing a Light-Intensity-Dependent Photoresponse that Utilizes the Trans-Cis Isomerization of Azobenzene. <i>Organic Letters</i> , 2004, 6, 2595-2598.	4.6	140
10	Rotaxane-Based Mechanophores Enable Polymers with Mechanically Switchable White Photoluminescence. <i>ACS Central Science</i> , 2019, 5, 874-881.	11.3	113
11	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
12	Synthesis and Photoinduced Phase Transitions of Poly(N-isopropylacrylamide) Derivative Functionalized with Terminal Azobenzene Units. <i>Macromolecules</i> , 2007, 40, 5129-5132.	4.8	109
13	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
14	Oligomeric Electrolyte as a Multifunctional Gelator. <i>Journal of the American Chemical Society</i> , 2007, 129, 11039-11041.	13.7	107
15	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
16	Novel Crystal Structure, Cis-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
17	Temperature-Dependent Mechanochromic Behavior of Mechanoresponsive Luminescent Compounds. <i>Chemistry of Materials</i> , 2017, 29, 1273-1278.	6.7	99
18	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

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19	Rewritable Full-Color Recording in a Photon Mode. <i>Advanced Materials</i> , 2000, 12, 94-97.	21.0	90
20	Polymerization of a Diacetylene Dicholesteryl Ester Having Two Urethanes in Organic Gel States. <i>Langmuir</i> , 2000, 16, 7545-7547.	3.5	79
21	Glass-Forming Cholesteric Liquid Crystal Oligomers for New Tunable Solid-State Laser. <i>Advanced Materials</i> , 2010, 22, 886-891.	21.0	79
22	A Light-Controlled Molecular Brake with Complete ON-OFF Rotation. <i>Chemistry - A European Journal</i> , 2010, 16, 3489-3496.	3.3	79
23	Photoinduced Hinge-Like Molecular Motion: Studies on Xanthene-Based Cyclic Azobenzene Dimers. <i>Journal of Organic Chemistry</i> , 2005, 70, 9304-9313.	3.2	77
24	Mechanically Responsive Luminescent Polymers Based on Supramolecular Cyclophane Mechanophores. <i>Journal of the American Chemical Society</i> , 2021, 143, 5519-5525.	13.7	76
25	Fluorinated Diphenylpolyenes: Crystal Structures and Emission Properties. <i>Journal of Physical Chemistry A</i> , 2007, 111, 13441-13451.	2.5	68
26	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
27	Photoresponsive Glass-Forming Butadiene-Based Chiral Liquid Crystals with Circularly Polarized Photoluminescence. <i>Advanced Functional Materials</i> , 2008, 18, 2510-2517.	14.9	64
28	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
29	Novel Odd/Even Effect of Alkylene Chain Length on the Photopolymerizability of Organogelators. <i>Organic Letters</i> , 2004, 6, 4009-4012.	4.6	62
30	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
31	Influence of a Change in Helical Twisting Power of Photoresponsive Chiral Dopants on Rotational Manipulation of Micro-Objects on the Surface of Chiral Nematic Liquid Crystalline Films. <i>Chemistry - A European Journal</i> , 2012, 18, 12337-12348.	3.3	58
32	Rotaxane-Based Dual Function Mechanophores Exhibiting Reversible and Irreversible Responses. <i>Journal of the American Chemical Society</i> , 2021, 143, 9884-9892.	13.7	58
33	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
34	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
35	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
36	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

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37	Fluorescence Spectroscopic Properties and Crystal Structure of a Series of Donor-Acceptor Diphenylpolyenes. <i>Journal of Physical Chemistry A</i> , 2006, 110, 13379-13387.	2.5	49
38	Ambipolar Transport in the Smectic E Phase of 2-(Propyl-5-hexynyl)terthiophene Derivative over a Wide Temperature Range. <i>ChemPhysChem</i> , 2008, 9, 1465-1473.	2.1	49
39	Mechanoresponsive Behavior of a Polymer-Embedded Red-Light Emitting Rotaxane Mechanophore. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24571-24576.	8.0	49
40	Complete ON/OFF Photoswitching of the Motility of a Nanobiomolecular Machine. <i>ACS Nano</i> , 2014, 8, 4157-4165.	14.6	48
41	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
42	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
43	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
44	A mechano- and thermoresponsive luminescent cyclophane. <i>Chemical Communications</i> , 2016, 52, 5694-5697.	4.1	47
45	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
46	Asymmetric Dimers of Chiral Azobenzene Dopants Exhibiting Unusual Helical Twisting Power upon Photoswitching in Cholesteric Liquid Crystals. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4918-4926.	8.0	45
47	Electronic Conduction in the Chiral Nematic Phase of an Oligothiophene Derivative. <i>ChemPhysChem</i> , 2006, 7, 1193-1197.	2.1	44
48	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
49	Synthesis and efficient circularly polarized light emission of an optically active hyperbranched poly(fluorenevinylene) derivative. <i>Chemical Communications</i> , 2011, 47, 3799.	4.1	43
50	Induction of Molecular Chirality by Circularly Polarized Light in Cyclic Azobenzene with a Photoswitchable Benzene Rotor. <i>Chemistry - A European Journal</i> , 2011, 17, 7304-7312.	3.3	43
51	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
52	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
53	Flexible field-effect transistors from a liquid crystalline semiconductor by solution processes. <i>Organic Electronics</i> , 2010, 11, 363-368.	2.6	42
54	Dynamic Control of Racemization Rate through $E \rightleftharpoons Z$ 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

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55	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
56	[2.2](4,4'-Azobenzenophane. <i>Angewandte Chemie International Edition in English</i> , 1990, 29, 105-106.	4.4	38
57	Photomodification of polymer films: azobenzene-containing polyurethanes. <i>Journal Physics D: Applied Physics</i> , 1998, 31, 463-471.	2.8	38
58	[1.1](3,3'-Azobenzenophane: Novel Crystal Structure and Cis-Trans Isomerization of Distorted Azobenzene. <i>Organic Letters</i> , 2002, 4, 3907-3910.	4.6	38
59	A photochromic ATP analogue driving a motor protein with reversible light-controlled motility: controlling velocity and binding manner of a kinesin-microtubule system in an in vitro motility assay. <i>Chemical Communications</i> , 2012, 48, 7625.	4.1	38
60	Photochemically Driven Smectic-Cholesteric Phase Transition in an Inherently Photoactive Dimesogen. <i>Chemistry of Materials</i> , 2003, 15, 3237-3239.	6.7	37
61	[2.2](4,4'-Azobenzenophane. synthesis, structure, and cis-trans isomerization. <i>Tetrahedron</i> , 1990, 46, 5931-5942.	1.9	35
62	Hydrogels Based on Surfactant-Free Ionene Polymers with (N,N'-Phenylene)dibenzamide Linkages. <i>Macromolecules</i> , 2008, 41, 8841-8846.	4.8	35
63	Photoswitchable CENP-E Inhibitor Enabling the Dynamic Control of Chromosome Movement and Mitotic Progression. <i>Journal of the American Chemical Society</i> , 2020, 142, 1763-1767.	13.7	35
64	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. <i>Inorganic Chemistry</i> , 2010, 49, 4765-4767.	4.0	34
65	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
66	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
67	Characterization of Poly(N-isopropylacrylamide)-Grafted Interfaces with Sum-Frequency Generation Spectroscopy. <i>Macromolecules</i> , 2007, 40, 4601-4606.	4.8	33
68	[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
69	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
70	Photoreversible optical nonlinearities of polymeric films containing spiropyran with long alkyl chains. <i>Applied Physics Letters</i> , 1996, 69, 1188-1190.	3.3	32
71	Unique crystal structures of donor-acceptor complexes: crossed arrangement of two charge-transfer columns. <i>Chemical Communications</i> , 2003, , 290-291.	4.1	32
72	Synthesis, Gelation Properties and Photopolymerization of Macrocyclic Diacetylenedicarboxamides Derived from L-Glutamic Acid and trans-1,4-Cyclohexanediol. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 2247-2255.	2.4	31

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73	Synthesis and Switchable Condensation Reaction of Bifunctional [2]Catenane.. Acta Chemica Scandinavica, 1998, 52, 374-376.	0.7	31
74	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.	2.6	30
75	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.	14.9	30
76	Supramolecular self-assembly of a novel hydrogen-bonded cholesteric liquid crystal exhibiting macromolecular behaviour. Liquid Crystals, 2013, 40, 314-320.	2.2	30
77	A helical naphthopyran dopant for photoresponsive cholesteric liquid crystals. Chemical Communications, 2017, 53, 200-203.	4.1	30
78	Light-intensity dependence in the photochromism of dibenzo[2.2](4,4-azobenzenophane. Journal of the Chemical Society Perkin Transactions II, 1991, , 873-878.	0.9	28
79	Photoactive dimesogen having different pathways of light driven phase transitions at different temperatures. Chemical Communications, 2004, , 2538.	4.1	28
80	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
81	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.	5.5	28
82	Stimuli-Responsive Dual-Color Photon Upconversion: A Singlet-Triplet Absorption Sensitizer in a Soft Luminescent Cyclophane. Angewandte Chemie - International Edition, 2018, 57, 2806-2810.	13.8	28
83	High-performance thin film transistors from semiconducting liquid crystalline phases by solution processes. Applied Physics Letters, 2007, 91, .	3.3	27
84	Thin-film transistors based on liquid-crystalline tetrafluorophenylter thiophene derivatives: thin-film structure and carrier transport. Organic Electronics, 2009, 10, 73-84.	2.6	27
85	Dynamic induction of enantiomeric excess from a prochiral azobenzene dimer under circularly polarized light. Chemical Science, 2015, 6, 973-980.	7.4	26
86	Novel Photochromic Spiroheterocyclic Molecules via Oxidation of 1,8-Diaminonaphthalene. Organic Letters, 2005, 7, 1461-1464.	4.6	25
87	Photoisomerization of Azobenzene Units Controls the Reversible Dispersion and Reorganization of Fibrous Self-Assembled Systems. Journal of Physical Chemistry B, 2010, 114, 1586-1590.	2.6	25
88	A non-nucleoside triphosphate for powering kinesin-microtubule motility with photo-tunable velocity. Chemical Communications, 2013, 49, 9935.	4.1	24
89	The photo- and thermal cis-trans isomerization of [23](4,4-azobenzenophane. Tetrahedron Letters, 1990, 31, 3309-3312.	1.4	23
90	A photochromic memory with a non-destructive read-out property. Thin Solid Films, 1992, 221, 132-139.	1.8	23

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91	Synthesis of a mechanically linked oligo[2]rotaxane. <i>Tetrahedron Letters</i> , 2003, 44, 2307-2310.	1.4	23
92	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
93	Tuning the thermo- and mechanoresponsive behavior of luminescent cyclophanes. <i>RSC Advances</i> , 2016, 6, 80408-80414.	3.6	23
94	Targeted Activation of Molecular Transportation by Visible Light. <i>ACS Nano</i> , 2017, 11, 12292-12301.	14.6	23
95	Enantioselective Photochromism under Circularly Polarized Light. <i>ChemPhotoChem</i> , 2019, 3, 347-355.	3.0	22
96	Quantum Chemical Studies on Photoinduced Cis \rightleftharpoons Trans Isomerization and Intramolecular Hydrogen Atom Transfer of 2 β -Hydroxychalcone. <i>Journal of Physical Chemistry A</i> , 2003, 107, 8659-8664.	2.5	21
97	Modulation of Unconventional Fluorescence of Novel Photochromic Perimidine Spirodimers. <i>Chemistry - A European Journal</i> , 2007, 13, 626-631.	3.3	21
98	Dynamic Photocontrol of the Gliding Motility of a Microtubule Driven by Kinesin on a Photoisomerizable Monolayer Surface. <i>Langmuir</i> , 2011, 27, 10347-10350.	3.5	21
99	Cyclophane-Based Fluorescence Tuning Induced by Hydrostatic Pressure Changes. <i>ChemPhotoChem</i> , 2018, 2, 959-963.	3.0	21
100	Cholesteric Solid Films Formed by Spin-Coating Solutions of Dicholesteryl Esters. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 509-511.	13.8	20
101	Photoinduced alignment of nematic liquid crystal on the polymer surface microrelief. <i>Journal of Applied Physics</i> , 2000, 87, 2043-2045.	2.5	20
102	Mechanochromic Luminescence from Crystals Consisting of Intermolecular Hydrogen-Bonded Sheets. <i>Chemistry - an Asian Journal</i> , 2020, 15, 478-482.	3.3	20
103	Glycomacrocycle-Based Azobenzene Derivatives as Chiral Dopants for Photoresponsive Cholesteric Liquid Crystals. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 52146-52155.	8.0	20
104	Reversible Photogeneration of a Stable Chiral Radical-Pair from a Fast Photochromic Molecule. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2680-2682.	4.6	19
105	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
106	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
107	Induction of Point Chirality by <i>E</i> / <i>Z</i> Photoisomerization. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11729-11730.	13.8	18
108	Fluorescence photoswitching based on a photochromic pKa change in an aqueous solution. <i>Chemical Communications</i> , 2012, 48, 10874.	4.1	18

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109	[2.2](4,4- C_6H_4)Azobenzolophan. <i>Angewandte Chemie</i> , 1990, 102, 66-67.	2.0	17
110	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
111	Mechanoresponsive 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
112	In situ photochemical conversion from cinnamoyl- π -functionalized liquid-crystalline monomers to liquid-crystalline dimers. <i>Liquid Crystals</i> , 2007, 34, 1337-1347.	2.2	16
113	Photochromism of a spiroperimidine compound in polymer matrices. <i>New Journal of Chemistry</i> , 2009, 33, 1327.	2.8	16
114	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. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2009, 28, 12-28.	1.1	16
115	Chirality transfer from chiral solvents and its memory in an azobenzene derivative exhibiting photo-switchable racemization. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 5389.	2.8	16
116	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
117	Linearly polarized photoluminescence from an asymmetric cyclophane showing thermo- and mechanoresponsive luminescence. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8453-8459.	5.5	14
118	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
119	Mechano- and Photoresponsive Behavior of a Bis(cyanostyryl)benzene Fluorophore. <i>Chemistry - A European Journal</i> , 2019, 25, 6162-6169.	3.3	13
120	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
121	Electrofluorochromic Device Based on a Redox-Active Europium(III) Complex. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46390-46396.	8.0	13
122	Tuning of solubility and gelation ability of oligomeric electrolyte by anion exchange. <i>Polymer Journal</i> , 2010, 42, 759-765.	2.7	12
123	Pressure-Induced Transition of Bisamide-Substituted Diacetylene Crystals from Nonphotopolymerizable to Photopolymerizable State. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36407-36414.	8.0	12
124	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
125	Fast thermal cis \rightarrow 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
126	Stimulus-Responsive Dual-Color Photon Upconversion: A Singlet \rightarrow Triplet Absorption Sensitizer in a Soft Luminescent Cyclophane. <i>Angewandte Chemie</i> , 2018, 130, 2856-2860.	2.0	11

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127	A visible light-controllable Rho kinase inhibitor based on a photochromic phenylazothiazole. <i>Chemical Communications</i> , 2021, 57, 12500-12503.	4.1	11
128	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
129	Chirality induction by Eâ€Z photoisomerization in [2,2]paracyclophane-bridged azobenzene dimer. <i>Tetrahedron Letters</i> , 2013, 54, 176-178.	1.4	10
130	Structureâ€property relationships of photoresponsive inhibitors of the kinesin motor. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 7202-7210.	2.8	10
131	Driving and photo-regulation of myosinâ€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
132	Two-step mechanoresponsive luminescence and mechanical stimuli-induced release of small molecules exhibited by a luminescent cyclophane. <i>Journal of Materials Chemistry C</i> , 2021, 9, 1671-1677.	5.5	10
133	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
134	Mechanical and thermal stimuli-induced release of toluene included in luminescent crystals as one-dimensional solvent channels. <i>Journal of Materials Chemistry C</i> , 2020, 8, 10039-10046.	5.5	9
135	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
136	Programmable dual electrochromism in azine linked conjugated polymer. <i>Optical Materials Express</i> , 2017, 7, 2117.	3.0	8
137	Substrate selectivity and its mechanistic insight of the photo-responsive non-nucleoside triphosphate for myosin and kinesin. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 53-65.	2.8	8
138	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
139	Rational design and development of a lit-active photoswitchable inhibitor targeting CENP-E. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 6979-6984.	2.8	8
140	Photo- and thermal cisâ€trans isomerization of [23](4,4â€²)azobenzophane. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1992, , 1107-1110.	0.9	7
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