

CITATION REPORT

List of articles citing

Photochromism of diarylethene molecules and crystals: memories, switches, and actuators

DOI: 10.1021/cr500249p

Chemical Reviews, 2014, 114, 12174-277.

Source: <https://exaly.com/paper-pdf/58184735/citation-report.pdf>

Version: 2024-04-25

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
1885	An All-Optical Excitonic Switch Operated in the Liquid and Solid Phases.		
1884	Second-Order Nonlinear Optical Properties of a Dithienylethene-Indolinoxazolidine Hybrid: A Joint Experimental and Theoretical Investigation. 2015 , 21, 18749-57		25
1883	Sterisch gehinderte Diarylbenzobis(thiadiazole) als effektive photochrome Schalter. 2015 , 127, 9890-9892		4
1882	Photoredox-Catalyzed Stereoselective Conversion of Alkynes into Tetrasubstituted Trifluoromethylated Alkenes. 2015 , 54, 12923-7		136
1881	Three-State Single-Molecule Naphthalenediimide Switch: Integration of a Pendant Redox Unit for Conductance Tuning. 2015 , 54, 13586-9		39
1880	Diarylethene Self-Assembled Monolayers: Cocrystallization and Mixing-Induced Cooperativity Highlighted by Scanning Tunneling Microscopy at the Liquid/Solid Interface. 2015 , 21, 11350-8		23
1879	Aktivierung molekularer Schalter mit sichtbarem Licht. 2015 , 127, 11494-11506		94
1878	Visible-Light-Activated Molecular Switches. 2015 , 54, 11338-49		483
1877	Reversible Photoswitching of a Spin-Crossover Molecular Complex in the Solid State at Room Temperature. 2015 , 54, 12976-80		86
1876	Reversible Photoswitching of a Spin-Crossover Molecular Complex in the Solid State at Room Temperature. 2015 , 127, 13168-13172		18
1875	Sterically Hindered Diaryl Benzobis(thiadiazole)s as Effective Photochromic Switches. 2015 , 54, 9754-6		28
1874	Visible-Light-Driven Photoisomerization and Increased Rotation Speed of a Molecular Motor Acting as a Ligand in a Ruthenium(II) Complex. 2015 , 54, 11457-61		50
1873	Reversible Optical and Electrical Switching of Air-Stable OFETs for Nonvolatile Multi-Level Memories and Logic Gates. 2015 , 1, 1500230		19
1872	Self-Healing, Expansion-Contraction, and Shape-Memory Properties of a Preorganized Supramolecular Hydrogel through Host-Guest Interactions. 2015 , 54, 8984-7		379
1871	A Highly Selective Chemosensor for Cu ²⁺ Based on a Diarylethene Linking an Aminoquinoline Unit. 2015 , 33, 1310-1316		12
1870	Short Access to Belt Compounds with Spatially Close C=C Bonds and Their Transannular Reactions. 2015 , 21, 14036-46		2
1869	Reversible photochemische Modifikationen an Metallacyclen aus Dicarbenen mit Cumarinsubstituenten. 2015 , 127, 5042-5046		29

- 1868 Self-Healing, Expansion/Contraction, and Shape-Memory Properties of a Preorganized Supramolecular Hydrogel through Host-Guest Interactions. **2015**, 127, 9112-9115 42
- 1867 Photoredox-Catalyzed Stereoselective Conversion of Alkynes into Tetrasubstituted Trifluoromethylated Alkenes. **2015**, 127, 13115-13119 36
- 1866 Aromatic Sulfonium Polyoxomolybdates: Solid-State Photochromic Materials with Tunable Properties. **2015**, 21, 18557-62 17
- 1865 Effects of Aromatic Stabilization Energies on Photochromism of New Asymmetrical Azaindole-Containing Diarylethenes. **2015**, 33, 785-791 4
- 1864 Visible-Light-Driven Photoisomerization and Increased Rotation Speed of a Molecular Motor Acting as a Ligand in a Ruthenium(II) Complex. **2015**, 127, 11619-11623 13
- 1863 Three-State Single-Molecule Naphthalenediimide Switch: Integration of a Pendant Redox Unit for Conductance Tuning. **2015**, 127, 13790-13793 8
- 1862 Photon-Quantitative 6E Electrocyclization of a Diarylbenzo[b]thiophene in Polar Medium. **2015**, 10, 1725-30 22
- 1861 Quantitative Evaluation of Photoinduced Bending Speed of Diarylethene Crystals. **2015**, 5, 551-561 28
- 1860 Analysis of phase patterns in photochromic polyurethanes by a holographic approach. **2015**, 5, 2281 3
- 1859 Light-Induced Spin-crossover. **2015**, 1 1
- 1858 A highly selective ratiometric fluorescent Cu²⁺ and HSO₄⁻ probe based on a new photochromic diarylethene with a 6-aryl[1,2-c]quinazoline unit. **2015**, 121, 211-220 21
- 1857 Photochromic dithienylethene-branched triptycene hybrids. **2015**, 121, 227-234 6
- 1856 Two-colour fluorescent imaging in organisms using self-assembled nano-systems of upconverting nanoparticles and molecular switches. **2015**, 7, 11263-6 24
- 1855 Self-Contained Photoacid Generator Triggered by Photocyclization of Triangle Terarylene Backbone. **2015**, 137, 7023-6 56
- 1854 Designing efficient photochromic dithienylethene dyads. **2015**, 6, 3495-3504 22
- 1853 Construction of photoswitchable rotaxanes and catenanes containing dithienylethene fragments. **2015**, 13, 7313-22 10
- 1852 Functionalized 2-(5-arylpyridin-2-yl)quinolines: synthesis and photophysical properties. **2015**, 64, 872-877 7
- 1851 Redox-Modulated Magnetic Transformations between Ferro- and Antiferromagnetism in Organic Systems: Rational Design of Magnetic Organic Molecular Switches. **2015**, 119, 27930-27937 18

1850	Acylhydrazones as Widely Tunable Photoswitches. 2015 , 137, 14982-91	155
1849	Multifunctionality in molecular magnetism. 2015 , 98, 346-78	11
1848	A convenient alternative method for the synthesis of dithienylacetylenes. 2015 , 51, 933-935	5
1847	Single particle SERS signal on gold nanorods: comparative study of diarylethene photochromic isomers. 2015 , 17, 114018	4
1846	Improving the fatigue resistance of diarylethene switches. 2015 , 137, 2738-47	228
1845	Photoreversible current ON/OFF switching by the photoinduced bending of gold-coated diarylethene crystals. 2015 , 51, 4421-4	52
1844	Photochemical ring opening and closing of three isomers of diarylethene: spin-flip time-dependent density functional study. 2015 , 119, 4191-9	15
1843	Surface-induced selection during in situ photoswitching at the solid/liquid interface. 2015 , 54, 4865-9	40
1842	Reversible photochemical modifications in dicarbene-derived metallacycles with coumarin pendants. 2015 , 54, 4958-62	96
1841	Polymorphic Crystallization and Thermodynamic Phase Transition between the Polymorphs of a Photochromic Diarylethene. 2015 , 15, 2017-2023	8
1840	Surface-Induced Selection During In Situ Photoswitching at the Solid/Liquid Interface. 2015 , 127, 4947-4951	6
1839	Towards single molecule switches. 2015 , 44, 2998-3022	237
1838	CB[8] gated photochromism of a diarylethene derivative containing thiazole orange groups. 2015 , 51, 6667-70	19
1837	Directed synthesis of new spiro-fused photochromes of diarylethene series. 2015 , 51, 518-525	22
1836	Experimental and theoretical investigation of tetra-oxidized terarylenes with high-contrast fluorescence switching. 2015 , 39, 7397-7402	3
1835	Dependence of photoinduced bending behavior of diarylethene crystals on irradiation wavelength of ultraviolet light. 2015 , 17, 27300-5	33
1834	Light-driven bending of diarylethene mixed crystals. 2015 , 6, 5746-5752	46
1833	Discovery and development of photochromic diarylethenes. 2015 , 87, 617-626	22

1832	How Adsorption Onto TiO ₂ Modifies the Properties of Multiswitchable DTE Systems: Theoretical Insights. 2015 , 119, 16860-16869	6
1831	Photoinduced Four-State Three-Step Ordering Transformation of Photochromic Terthiophene at a Liquid/Solid Interface Based on Two Principles: Photochromism and Polymorphism. 2015 , 31, 6404-14	23
1830	Synthesis of zinc chlorin π -spiropyran dyads and their self-aggregation properties. 2015 , 313, 36-43	2
1829	Enforcing Multifunctionality: A Pressure-Induced Spin-Crossover Photomagnet. 2015 , 137, 8795-802	121
1828	Visible-Light-Dependent Photocyclization: Design, Synthesis, and Properties of a Cyanine-Based Dithienylethene. 2015 , 80, 7830-5	42
1827	Toward an Enhancement of the Photoactivity of Multiphotochromic Dimers Using Plasmon Resonance: A Theoretical Study. 2015 , 6, 3067-73	6
1826	Interaction of 4-oxoalkane-1,1,2,2-tetracarbonitriles with Lawesson's reagent: A new approach to the synthesis of 2,2'-disulfanediybis(1H-pyrroles). The synthesis of photochromic diarylethene with a disulfide bridge. 2015 , 5, 65316-65320	16
1825	High-Performance Switching of Bulk Quadratic Nonlinear Optical Properties with Large Contrast in Polymer Films Based on Organic Hydrogen-Bonded Ferroelectrics. 2015 , 27, 4493-4498	40
1824	Mechanical switching of magnetic interaction by tweezers-type complex. 2015 , 51, 12916-9	15
1823	Controlling Motion at the Nanoscale: Rise of the Molecular Machines. 2015 , 9, 7746-68	339
1822	Photochromic and Thermochromic Heterocycles. 2015 , 131-177	19
1821	Tunable Friction Behavior of Photochromic Fibrillar Surfaces. 2015 , 31, 6072-7	11
1820	A curve-crossing model to rationalize and optimize diarylethene dyads. 2015 , 6, 5695-5702	6
1819	Substituent effects on the photochromic properties of benzothiophene-based derivatives. 2015 , 21, 8471-82	29
1818	Multiphotochromic molecular systems. 2015 , 44, 3719-59	248
1817	Enhanced bi-stability in a ruthenium alkynyl spiropyran complex. 2015 , 44, 8812-5	13
1816	Plasmon Excitation Coupling for Dithienylethene/Gold Nanoparticle Hybrid Systems: A Theoretical Study. 2015 , 119, 9995-10006	14
1815	Synthesis of new photochromic diarylethenes of cyclopentenone series by Nazarov reaction. 2015 , 51, 234-241	11

1814	Enantiospecific photoresponse of sterically hindered diarylethenes for chiroptical switches and photomemories. 2015 , 5, 9186	56
1813	Highly sensitive and selective fluorescent sensor for zinc ion based on a new diarylethene with a thiocarbamide unit. 2015 , 119, 4673-82	53
1812	Hydantoin-based molecular photoswitches. 2015 , 80, 3929-39	24
1811	Huge electro-/photo-/acidoinduced second-order nonlinear contrasts from multiaddressable indolinoxazolodine. 2015 , 119, 6758-65	20
1810	Structural control of nonadiabatic bond formation: the photochemical formation and stability of substituted 4a,4b-dihydrotriphenylenes. 2015 , 119, 3972-85	11
1809	Sequential double second-order nonlinear optical switch by an acido-triggered photochromic cyclometallated platinum(II) complex. 2015 , 51, 7805-8	51
1808	Flavylium based dual photochromism: addressing cis-trans isomerization and ring opening-closure by different light inputs. 2015 , 51, 7349-51	11
1807	Optically switchable transistors comprising a hybrid photochromic molecule/n-type organic active layer. 2015 , 3, 4156-4161	47
1806	A multi-state fluorescence switch based on a new photochromic diarylethene with a di-(ethyl-1,8-naphthalimidyl)amine unit. 2015 , 307-308, 48-53	10
1805	Substitution effect on the photochromic properties of benzo[b]thiophene-1,1-dioxide based diarylethenes. 2015 , 5, 87626-87634	7
1804	General Photoinduced Sequential Electrocyclization/[1,9]-Sigmatropic Rearrangement/Ring-Opening Reaction of Diarylethenes. 2015 , 80, 11491-500	33
1803	Fast Color Change with Photochromic Fused Naphthopyrans. 2015 , 80, 12177-81	36
1802	Sterically hindered diarylethenes with a benzobis(thiadiazole) bridge: photochemical and kinetic studies. 2015 , 3, 8665-8674	7
1801	Molecular Switching via Multiplicity-Exclusive E/Z Photoisomerization Pathways. 2015 , 137, 10841-50	25
1800	Novel photochromic diarylethenes bearing an imidazole moiety. 2015 , 56, 5477-5481	15
1799	Excited state dynamics of thiophene and bithiophene: new insights into theoretically challenging systems. 2015 , 17, 14719-30	44
1798	Design of rewritable and read-only non-volatile optical memory elements using photochromic spiropyran-based salts as light-sensitive materials. 2015 , 3, 11675-11680	55
1797	Advances in Organic Crystal Chemistry. 2015 ,	9

1796	Computational Investigation into Photoswitching Efficiency of Diarylethene Derivatives: An Insight Based on the Decay Constant of Electron Tunneling. 2015 , 119, 20169-20178	6
1795	Photochromic Diarylethenes with Heterocyclic Aromatic Rings: Correlation between Thermal Bistability and Geometrical Characters of Transition States. 2015 , 119, 9140-7	13
1794	In-plane electrical bistability of photochromic diarylethene/Cu composite film. 2015 , 26, 144-150	4
1793	Photo-induced storage and mask-free arbitrary micro-patterning in solution-processable and simple-structured photochromic organic light-emitting diodes. 2015 , 26, 476-480	9
1792	Photoinduced Mechanical Motion of Photochromic Crystalline Materials. 2015 , 533-547	3
1791	Fluorescent Photochromic Diarylethene That Turns on with Visible Light. 2015 , 17, 4802-5	40
1790	Plastic Transition to Switch Nonlinear Optical Properties Showing the Record High Contrast in a Single-Component Molecular Crystal. 2015 , 137, 15660-3	87
1789	Multistate and Multicolor Photochromism through Selective Cycloreversion in Asymmetric Platinum(II) Complexes with Two Different Dithienylethene-Acetylides. 2015 , 54, 11511-9	24
1788	A light/pH/multiple ion-driven smart switchable module for computing sequential logic operations via a resettable dual-optical readout. 2015 , 3, 12123-12129	14
1787	10-Hydroxybenzo[h]quinoline: switching between single- and double-well proton transfer through structural modifications. 2015 , 5, 102495-102507	17
1786	Ultrafast Time-Resolved Spectroscopy of Diarylethene-Based Photoswitchable Deoxyuridine Nucleosides. 2015 , 6, 4717-21	22
1785	Tilted Orientation of Photochromic Dyes with Guest-Host Effect of Liquid Crystalline Polymer Matrix for Electrical UV Sensing. 2015 , 16,	5
1784	The role of alkyl substituents in dezaadenine-based diarylethene photoswitches. 2016 , 12, 1103-10	15
1783	Self-enhancement and suppression of optical pulses by use of photochromism in elastomer. 2016 , 24, 22395-22402	
1782	Strategy for Molecular Design of Photochromic Diarylethenes Having Thermal Functionality. 2016 , 16, 2005-15	23
1781	Industrial Applications and Perspectives. 2016 , 393-415	2
1780	Direct Photocontrol of Peptidomimetics: An Alternative to Oxygen-Dependent Photodynamic Cancer Therapy. 2016 , 55, 5493-6	51
1779	Dithienylethene-Based Gated Ambichromic Dyads. 2016 , 4, 1358-1362	6

1778	Wholly Synthetic Molecular Machines. 2016 , 17, 1780-93	104
1777	Optically controlled properties of nanoparticles stabilised by photochromic difurylene-base diarylethenes. 2016 , 47, 229-236	12
1776	E/Z isomerization of a thermally bistable photochromic dithienylethene. 2016 , 57, 3565-3567	2
1775	A novel Br-substituted diarylethene: Synthesis, crystal structure, and solvent dependent acidichromism. 2016 , 1123, 355-359	7
1774	Photoinduced Rapid and Explosive Fragmentation of Diarylethene Crystals Having Urethane Bonding. 2016 , 28, 4889-4892	25
1773	Stealth fast photoswitching of negative photochromic naphthalene-bridged phenoxy-imidazolyl radical complexes. 2016 , 52, 6797-800	12
1772	Giant Amplification of Photoswitching by a Few Photons in Fluorescent Photochromic Organic Nanoparticles. 2016 , 55, 3662-6	89
1771	Reversible Photomodulation of Electronic Communication in a π -Conjugated Photoswitch-Fluorophore Molecular Dyad. 2016 , 22, 1070-5	19
1770	All-Optical Fine-Tuning of Absorption Band of Diarylethene with Photochromic Acid-Generating Spiropyran. 2016 , 4, 1350-1353	14
1769	Ferrocene-Grafted Photochromic Triads Based on a Sterically Hindered Ethene Bridge: Redox-Switchable Fluorescence and Gated Photochromism. 2016 , 4, 1410-1416	22
1768	OFET-Based Memory Devices Operating via Optically and Electrically Modulated Charge Separation between the Semiconductor and 1,2-bis(Hetaryl)ethene Dielectric Layers. 2016 , 2, 1500219	23
1767	Zuverlässiges Schalten von Diarylethenen in beide Richtungen mithilfe von sichtbarem Licht. 2016 , 128, 1226-1230	15
1766	Modulation of Eu(III) and Yb(III) Luminescence Using a DTE Photochromic Ligand. 2016 , 55, 12635-12643	24
1765	Microelectromechanical systems integrating molecular spin crossover actuators. 2016 , 109, 061903	25
1764	Light-Driven Liquid Crystalline Materials: From Photo-Induced Phase Transitions and Property Modulations to Applications. <i>Chemical Reviews</i> , 2016 , 116, 15089-15166	68.1 499
1763	Ultrafast imaging of photochemical dynamics: roadmap to a new conceptual basis for chemistry. 2016 , 194, 777-828	14
1762	Conditional repair by locally switching the thermal healing capability of dynamic covalent polymers with light. 2016 , 7, 13623	73
1761	Picosecond cyclization reaction dynamics of furan-based diarylethene with thiosemicarbazone side-chain groups. 2016 , 639, 64-70	4

1760	Suppressing photochemical reactions with quantized light fields. 2016 , 7, 13841	177
1759	A diarylethene-based fluorescent chemosensor for the sequential recognition of Fe ³⁺ and cysteine. 2016 , 6, 34748-34753	31
1758	Light-Controlled Interconversion between a Self-Assembled Triangle and a Rhombicuboctahedral Sphere. 2016 , 55, 445-9	123
1757	Theoretical investigation of 2-(iminomethyl)phenol in the gas phase as a prototype of ultrafast excited-state intramolecular proton transfer. 2016 , 657, 113-118	8
1756	Turn-on mode fluorescence photoswitching of diarylethene single crystals. 2016 , 18, 7241-7248	19
1755	Using low-energy near infrared light and upconverting nanoparticles to trigger photoreactions within supramolecular assemblies. 2016 , 52, 8636-44	19
1754	Photo-induced morphological winding and unwinding motion of nanoscrolls composed of niobate nanosheets with a polyfluoroalkyl azobenzene derivative. 2016 , 8, 12289-93	13
1753	Photochromic and fluorescent 5-coumarinyl-4-pyrrolylthiazoles. 2016 , 26, 193-195	8
1752	Isomerization structure of photochromic diarylethene film based on electrical carrier injection. 2016 , 179, 158-161	1
1751	The effect of thermal expansion on photoisomerisation in the crystals of [Co(NH ₃) ₅ NO ₂]Cl(NO ₃): different strain origins \square different outcomes. 2016 , 18, 7276-7283	13
1750	Writing and erasing hidden optical information on covalently modified cellulose paper. 2016 , 52, 7672-5	13
1749	Photoswitching of Conductance of Diarylethene-Gold Nanoparticle Network Based on the Alteration of π -Conjugation. 2016 , 7, 2113-8	16
1748	Lichtgesteuerte Umwandlung zwischen einem selbstassemblierten Dreieck und einer rhombenkuboktaedrischen Sphäre. 2016 , 128, 456-460	36
1747	The synergic control of photocyclization and fluorescence in a pH-gated photochromic system. 2016 , 131, 18-23	14
1746	Functionalization of Oxide-Free Silicon Surfaces with Redox-Active Assemblies. <i>Chemical Reviews</i> , 2016 , 116, 4808-49	68.1 99
1745	Photoinduced stepwise bending behavior of photochromic diarylethene crystals. 2016 , 18, 7236-7240	17
1744	A smart switchable module for the detection of multiple ions via turn-on dual-optical readout and their cell imaging studies. 2016 , 45, 8272-7	6
1743	A novel sensitive sensor for Cu ²⁺ and multi-switch based on a diarylethene with a 2-(2'-hydroxyphenyl)benzothiazole unit. 2016 , 72, 2935-2942	21

- 1742 Exceptional photosensitivity of a polyoxometalate-based charge-transfer hybrid material. **2016**, 52, 7394-7 80
- 1741 Non-Switching 1,2-Dithienylethene-based Diplatinum(II) Complex Showing High Cytotoxicity. **2016**, 55, 5356-64 8
- 1740 Rational Design of Highly Photoresponsive Surface-Confined Self-Assembly of Diarylethenes: Reversible Three-State Photoswitching at the Liquid/Solid Interface. **2016**, 120, 9317-9325 21
- 1739 How Metals Can Help Multiphotochromism: An Ab Initio Study. **2016**, 120, 11140-11150 9
- 1738 A photoswitchable diarylethene heterodimer for use as a multifunctional logic gate. **2016**, 6, 43000-43006 10
- 1737 Crystal structure of photochromic 1-(2-methyl-5-phenyl-3-thienyl-2-[2-methyl-5-(4-ethoxyphenyl)-3-thienyl] 3,3,4,4,5,5-hexafluoro-cyclopent-1-ene, C₂₉H₂₂F₆O₂. **2016**, 231, 215-217 5
- 1736 Photochromic and Nonphotochromic Luminescent Supramolecular Isomers Based on Carboxylate-Functionalized Bipyridinium Ligand: (4,4)-Net versus Interpenetrated (6,3)-Net. **2016**, 8, 24862-9 61
- 1735 Highly Axial Magnetic Anisotropy in a N O Dysprosium(III) Coordination Environment Generated by a Merocyanine Ligand. **2016**, 22, 15222-15226 13
- 1734 Fast Photochromic Molecules toward Realization of Photosynergetic Effects. **2016**, 7, 3666-75 38
- 1733 Copper Nitrate Mediated Regio- and Stereoselective Difunctionalization of Alkynes: A Direct Approach to β -Chloro- β -Nitroolefins. **2016**, 18, 4746-9 32
- 1732 Spectroscopic and electrochemical properties of ruthenium complexes with photochromic triarylamine-dithienylethene-alkynyl ligands. **2016**, 3, 1432-1443 7
- 1731 Efficient Self-Contained Photoacid Generator System Based on Photochromic Terarylenes. **2016**, 22, 16250-16257 21
- 1730 AIE Active Heteroarylethylenes. **2016**, 175-191 1
- 1729 Semiconductor Quantum Dots with Photoresponsive Ligands. **2016**, 374, 73 8
- 1728 Tunable Visible and Near Infrared Photoswitches. **2016**, 138, 13960-13966 151
- 1727 Synthesis, crystal structure, spectroscopic, and photoreactive properties of a ruthenium(II)-mononitrosyl complex. **2016**, 119, 350-358 9
- 1726 Kontrolle der Kinetik von Imin austauschreaktionen mit Photoschaltern zur lichtgesteuerten Modulation der Selbstheilung in Polysiloxannetzwerken. **2016**, 128, 14086-14090 19
- 1725 Fast and Efficient Oxidative Cycloreversion Reaction of a β -Extended Photochromic Terarylene. **2016**, 22, 10002-8 18

1724	Gated Photochromic System of Diarylethene with a Photon-Working Key. 2016 , 18, 5042-5045	25
1723	Multi-responsive diarylethene-phenolphthalein hybrids by multiple stimuli. 2016 , 72, 5488-5494	7
1722	Applied Photochemistry. 2016 ,	7
1721	Recent Progress in Photoswitchable Supramolecular Self-Assembling Systems. 2016 , 4, 1322-1349	110
1720	Light-directed alignment, surface morphing and related processes: recent trends. 2016 , 4, 7895-7910	71
1719	Is Color-Specific Photoswitching in Dual-Color Fluorescence Systems Possible? Manipulating Intermolecular Energy Transfer among Two Different Fluorophores and One Photoswitch. 2016 , 4, 790-797	24
1718	Fractal Surfaces of Molecular Crystals Mimicking Lotus Leaf with Phototunable Double Roughness Structures. 2016 , 138, 10299-303	47
1717	Selective Metal-vapor Deposition on Organic Surfaces. 2016 , 16, 231-48	16
1716	Photochromic Dithienylethene-Containing Boron(III) Ketoiminates: Modulation of Photo-Responsive Behavior through Variation of Intramolecular Motion. 2016 , 22, 12931-40	18
1715	Externally Applied Manipulation of Molecular Assemblies at Solid-Liquid Interfaces Revealed by Scanning Tunneling Microscopy. 2016 , 26, 8932-8951	25
1714	Theoretical Quantification of the Modified Photoactivity of Photochromes Grafted on Metallic Nanoparticles. 2016 , 120, 21827-21836	5
1713	A highly selective fluorescent sensor for Al ³⁺ based on a new diarylethene with a 3-hydroxy-2-naphthohydrazide unit. 2016 , 6, 84592-84598	5
1712	Computational investigation on the switching efficiency of diarylethene: Comparison between the first hyperpolarizability and exchange interaction. 2016 , 659, 258-262	1
1711	Optical Properties of Hybrid Organic-Inorganic Materials and their Applications. 2016 , 26, 6506-6544	156
1710	Selenide-Catalyzed Stereoselective Construction of Tetrasubstituted Trifluoromethylthiolated Alkenes with Alkynes. 2016 , 22, 15265-15269	35
1709	A highly sensitive fluorescent sensor for Al ³⁺ and Zn ²⁺ based on a diarylethene salicylhydrazide Schiff base derivative and its bioimaging in live cells. 2016 , 40, 8579-8586	57
1708	How to Switch Spin-Crossover Metal Complexes at Constant Room Temperature. 2016 , 22, 15178-15191	83
1707	Tuning the Colors of the Dark Isomers of Photochromic Boron Compounds with Fluoride Ions: Four-State Color Switching. 2016 , 18, 4436-9	22

1706	A new fluorescence probe based on fluorescein-diarylethene fluorescence resonance energy transfer system for rapid detection of Cd ²⁺ . 2016 , 72, 6390-6396	15
1705	Synthesis and spectroscopic properties of photochromic dithienylethene-functionalized subphthalocyanine conjugate. 2016 , 20, 1082-1089	2
1704	Photoinduced Rearrangements of Diarylethenes. 2016 , 52, 658-665	23
1703	Phenomenon to functions: Photochromism of diarylpyrans, spectrokinetic properties and functional materials. 2016 , 29, 73-106	41
1702	Rational Design and Syntheses of Molecular Phase Transition Crystal Materials. 2016 , 16, 6685-6695	16
1701	New insights into the photoswitching mechanisms of normal dithienylethenes. 2016 , 18, 28091-28100	15
1700	Two rhodamine 6G derivative compounds: a structural and fluorescence single-crystal study. 2016 , 72, 684-692	8
1699	Red-Shifted Photochromism of Diarylethenes Induced by Shear Stress. 2016 , 89, 671-680	3
1698	Nanosopic Visualization of Soft Matter Using Fluorescent Diarylethene Photoswitches. 2016 , 55, 12698-702	85
1697	Structure and photochromism of 1-(1,2-dimethylindol-3-yl)-2-[2-methyl-5-(3-fluorophenyl)-3-thienyl]-3,3,4,4,5,5-hexafluorocyclopent-1-ene, C ₂₆ H ₁₈ F ₇ NS. 2016 , 231, 1159-1161	1
1696	Switching the Photochromic Activity of Acenaphthylene Derivatives through a Tandem Nucleophile-Promoted Addition Reaction. 2016 , 22, 13831-13834	5
1695	Two-Photon Cycloreversion Reaction of Diarylethene on Gold Nanotriangles. 2016 , 4, 1385-1391	1
1694	Reversible Phase Transformation in Three Dynamic Mixed-Ligand Metal-Organic Frameworks: Synthesis, Structure, and Sorption Study. 2016 , 16, 4783-4792	13
1693	Light-Mediated Manufacture and Manipulation of Actuators. 2016 , 28, 8328-8343	146
1692	Photosalient Effect of a Diarylethene with a Perfluorocyclohexene Ring. 2016 , 22, 12680-3	39
1691	Photocontrolled Reversible Luminescent Lanthanide Molecular Switch Based on a Diarylethene-Europium Dyad. 2016 , 55, 7962-8	36
1690	Control of Imine Exchange Kinetics with Photoswitches to Modulate Self-Healing in Polysiloxane Networks by Light Illumination. 2016 , 55, 13882-13886	94
1689	Elemental isomerization processes for a photochromic diarylethene film based on carrier injection toward all-electrically operable organic memory. 2016 , 55, 061602	1

1688	Contrasted photochromic and luminescent properties in dinuclear Pt(ii) complexes linked through a central dithienylethene unit. 2016 , 52, 9833-6	15
1687	Stereoselective photoreaction in P-stereogenic dithiazolybenzo[b]phosphole chalcogenides. 2016 , 40, 10048-10055	10
1686	Nanoskopische Bildgebung weicher Materie mittels fluoreszierender Diarylethen-Photoschalter. 2016 , 128, 12890-12894	14
1685	Thermal reductive disproportionation of 3,3',5,5'-tetraphenyldiphenquinone with drastic color change: Potential prototype of data storage advanced materials. 2016 , 1, 3784-3790	3
1684	Photo-induced magnetization and first-principles calculations of a two-dimensional cyanide-bridged Co-W bimetal assembly. 2016 , 45, 19249-19256	10
1683	Laser Patterning of Optically Reconfigurable Transistor Channels in a Photochromic Diarylethene Layer. 2016 , 16, 7474-7480	36
1682	Stimuli-Responsive Macromolecular Composites: Enhanced Stress Modulation in Polypyrrole with Redox-Active Dopants. 2016 , 49, 8479-8488	5
1681	Light-melt adhesive based on dynamic carbon frameworks in a columnar liquid-crystal phase. 2016 , 7, 12094	79
1680	Optical Activity and Optical Anisotropy in Photomechanical Crystals of Chiral Salicylidenephenylethylamines. 2016 , 138, 15066-15077	35
1679	Mechanized azobenzene-functionalized zirconium metal-organic framework for on-command cargo release. 2016 , 2, e1600480	150
1678	Dual absorption spectral changes by light-triggered shuttling in bistable [2]rotaxanes with non-destructive readout. 2016 , 52, 14085-14088	14
1677	Industrial Photochromism. 2016 , 227-279	8
1676	Multivariate Curve Resolution of (Ultra)Fast Photoinduced Process Spectroscopy Data. 2016 , 353-379	1
1675	A highly selective fluorescent probe for Cd ²⁺ and Zn ²⁺ based on a new diarylethene with quinolinebenzimidazole conjugated system. 2016 , 57, 5205-5210	20
1674	Optical Addressing of Multi-Colour Photochromic Material Mixture for Volumetric Display. 2016 , 6, 31543	9
1673	Molecular Switches and Machines with Mechanical Bonds. 2016 , 555-733	1
1672	Carboxylated Photoswitchable Diarylethenes for Biolabeling and Super-Resolution RESOLFT Microscopy. 2016 , 55, 15429-15433	95
1671	Light-Switchable Polymers of Intrinsic Microporosity. 2016 , 28, 8523-8529	20

1670	A highly selective fluorescence probe for Al ³⁺ based on a new diarylethene with a 6-(hydroxymethyl)picolinohydrazide unit. 2016 , 72, 8449-8455	15
1669	Carboxylierte photoschaltbare Diarylethene als Biomarkierungen für hochauflösende RESOLFT-Mikroskopie. 2016 , 128, 15655-15659	15
1668	Photochromic Bulk Materials. 2016 , 281-360	2
1667	Giant Amplification of Photoswitching by a Few Photons in Fluorescent Photochromic Organic Nanoparticles. 2016 , 128, 3726-3730	20
1666	Direct Photocontrol of Peptidomimetics: An Alternative to Oxygen-Dependent Photodynamic Cancer Therapy. 2016 , 128, 5583-5586	25
1665	Chromogenic Materials. 2016 , 1-26	3
1664	Nanoarchitectonics for Dynamic Functional Materials from Atomic-/Molecular-Level Manipulation to Macroscopic Action. 2016 , 28, 1251-86	373
1663	Using Time-Dependent Density Functional Theory to Probe the Nature of Donor-Acceptor Stenhouse Adduct Photochromes. 2016 , 17, 1846-51	41
1662	Flexible non-volatile optical memory thin-film transistor device with over 256 distinct levels based on an organic bicomponent blend. 2016 , 11, 769-75	222
1661	Dynamic molecular crystals with switchable physical properties. 2016 , 8, 644-56	455
1660	Modulating electron injection from an organic dye to a titania nanoparticle with a photochromic energy transfer acceptor. 2016 , 4, 6215-6219	5
1659	Binding porphyrins gated dithienylethene bridge. 2016 , 132, 151-158	9
1658	Mechanical motion of molecular crystals induced by [4 + 4] photodimerisation. 2016 , 18, 7305-7310	27
1657	Photoinduced topographical changes on microcrystalline surfaces of diarylethenes. 2016 , 18, 7229-7235	10
1656	Photo-induced motion of azo dyes in organized media: from single and liquid crystals, to MOFs and machines. 2016 , 18, 7204-7211	34
1655	Facile synthesis of photoactive diaryl(hetaryl)cyclopentenes by ionic hydrogenation. 2016 , 6, 59016-59020	12
1654	Limits of Molecular Dithienylethene Switches Caused by Ferrocenyl Substitution. 2016 , 17, 1881-94	6
1653	Orchestrating Molecular Motion with Light [From Single (macro)Molecules to Materials. 2016 , 217, 189-198	18

1652	Prediction of photolysis half-lives of dihydroindolizines by genetic algorithm-multiple linear regression (GA-MLR). 2016 , 29, 312-320	1
1651	Powder Structure Analysis of Vapochromic Quinolone Antibacterial Agent Crystals. 2016 , 16, 4635-4645	20
1650	Introduction: Organic Photochromic Molecules. 2016 , 1-45	6
1649	Full Color Light Responsive Diarylethene Inks for Reusable Paper. 2016 , 26, 5230-5238	79
1648	Intercalation-Induced Tunable Stimuli-Responsive Color-Change Properties of Crystalline Organic Layered Compound. 2016 , 26, 3463-3471	30
1647	Switching Diarylethenes Reliably in Both Directions with Visible Light. 2016 , 55, 1208-12	98
1646	Photoswitchable "Turn-on" Fluorescence Diarylethenes: Substituent Effects on Photochemical Properties and Electrochromism. 2016 , 22, 656-62	23
1645	Mechanical Motion of Chiral Azobenzene Crystals with Twisting upon Photoirradiation. 2016 , 22, 7950-8	50
1644	Regioselective Photocyclizations of Di(quinolinyl)arylamines and Tri(quinolinyl)amine with Emission Color Changes and Photoreaction-Induced Self-Assemblies. 2016 , 22, 7771-81	11
1643	Theoretical insight into the enhanced hindrance, thermal stability and optical properties of diarylethene with a benzobis(thiadiazole) bridge and benzothiophene rings. 2016 , 125, 348-355	9
1642	Photochromism of diarylethene derivatives having benzophosphole and benzothiophene groups. 2016 , 126, 186-193	8
1641	Helicene-based chiroptical switches. 2016 , 19, 39-49	96
1640	Solvent-dependent dual-mode photochromism between T- and P-types in a dipyrinone derivative. 2016 , 52, 1278-81	8
1639	Magnetic and Photochromic Properties of a Manganese(II) Metal-Zwitterionic Coordination Polymer. 2016 , 55, 96-103	90
1638	Azo π -phenyl stacking: a persistent self-assembly motif guides the assembly of fluorinated cis-azobenzenes into photo-mechanical needle crystals. 2016 , 52, 2103-6	29
1637	Asymmetric oxidation of vinyl- and ethynyl terthiophene ligands in triruthenium complexes. 2016 , 45, 768-82	17
1636	Photochromic reaction behavior and thermal stability of thiophene-S,S-dioxidized diarylethenes having a benzofuryl group. 2016 , 72, 2364-2368	5
1635	A new multi-addressable molecular switch based on a photochromic diarylethene with a thieno-imidazole unit. 2016 , 57, 1877-1881	19

1634	A highly selective diarylethene-based fluorescent sensor for respective recognition of Zn ²⁺ and F ⁻ 2016 , 324, 14-22	17
1633	Twofold photoswitching of NIR fluorescence and EPR based on the PMINIBABI for optical nanoimaging of electrospun polymer nanowires. 2016 , 4, 2498-2505	16
1632	Supramolecular transformations within discrete coordination-driven supramolecular architectures. 2016 , 45, 2656-93	406
1631	Switchable Materials for Smart Windows. 2016 , 7, 283-304	280
1630	Photoswitchable metal organic frameworks: turn on the lights and close the windows. 2016 , 18, 4006-4012	92
1629	The magic of integration: Exploring the construction of dithienylethene-based infinite coordination polymers and their synergistic effect for gaseous ammonia probe applications. 2016 , 27, 518-522	7
1628	Synthesis and characterisation of photochromic dithienylcyclopentene liquid crystal with thermal irreversibility. 2016 , 43, 803-810	
1627	A photon-working on/off switch for intramolecular donor-acceptor interactions and invisible modulation of the fluorescence. 2016 , 15, 325-8	5
1626	Photoinduced bending of rod-like millimetre-size crystals of a rhodium dithionite complex with n-pentyl moieties. 2016 , 52, 4349-52	15
1625	Deactivation pathways of thiophene and oligothiophenes: internal conversion versus intersystem crossing. 2016 , 18, 7903-15	31
1624	Multi-controllable properties of an antipyrine-based diarylethene and its high selectivity for recognition of Al ³⁺ . 2016 , 129, 24-33	32
1623	Blue to near-IR energy transfer cascade within a dye-doped polymer matrix, mediated by a photochromic molecular switch. 2016 , 18, 5095-8	11
1622	Synthesis of an optically switchable salicylaldehyde substituted naphthopyran for selective and reversible Cu ²⁺ recognition in aqueous solution. 2016 , 6, 20145-20154	16
1621	Photo- and acid induced multicolor switches based on pyridine-containing perfluorodiarylethene derivatives. 2016 , 72, 1868-1872	6
1620	Recent advances in diarylethene-based multi-responsive molecular switches. 2016 , 4, 3075-3093	159
1619	Transition Metal-Based Photofunctional Materials: Recent Advances and Potential Applications. 2016 , 201-289	1
1618	Photoswitching of an intramolecular chiral stack in a helical tetrathiazole. 2016 , 52, 5171-4	79
1617	Construction and application of photoresponsive smart nanochannels. 2016 , 26, 31-47	39

1616	Enabling Light Work in Helical Self-Assembly for Dynamic Amplification of Chirality with Photoreversibility. 2016 , 138, 2219-24	116
1615	Significant Enhancement of the Chiral Correlation Length in Nematic Liquid Crystals by Gold Nanoparticle Surfaces Featuring Axially Chiral Binaphthyl Ligands. 2016 , 10, 1552-64	57
1614	Solvent Polarity Dependence of Photochromic Reactions of a Diarylethene Derivative As Revealed by Steady-State and Transient Spectroscopies. 2016 , 120, 1170-1177	37
1613	Towards photochromic and thermochromic biosensing. 2016 , 79, 37-45	31
1612	Controlling Dichroism of Molecular Crystals by Cocrystallization. 2016 , 16, 541-545	33
1611	Convenient and efficient synthesis of 2-methyl-5-nitrobenzo[b]thiophene and its derivatives. 2016 , 46, 332-337	0
1610	Photo- and PH-switchable fluorescent diarylethenes based on 2,3-diarylcyclopent-2-en-1-ones with dialkylamino groups. 2016 , 124, 258-267	14
1609	A highly selective fluorescent chemosensor for Cd ²⁺ based on a new diarylethene with a pyridine-linked methylquinoline unit. 2016 , 317, 115-124	7
1608	Synthesis and photochromic properties of 4,5-bisaryl-3(2H)-pyridazinones. 2016 , 314, 164-170	6
1607	Synthesis and photoisomerization of an azobenzene-containing tetrapyrrolic macrocycle. 2016 , 331, 66-75	7
1606	Structural and Spectral Properties of Photochromic Diarylethenes: Size Effect of the Ethene Bridge. 2017 , 82, 1477-1486	16
1605	Switching of the Electronic conjugations in the reduction of a dithienylethene-fused p-benzoquinone. 2017 , 7, 2403-2406	6
1604	4,7-Bis[3-(dimesitylboryl)thien-2-yl]benzothiadiazole: Solvato-, Thermo-, and Mechanochromism Based on the Reversible Formation of an Intramolecular B-N Bond. 2017 , 23, 3784-3791	42
1603	Color change of alternating copolymers with phenyl vinylene carbonate and N-phenylmaleimide in a solution and in the solid-state, depending on their structure. 2017 , 7, 9373-9380	4
1602	Photoresponsive supramolecular copolymers from diarylethene- β erylene bisimide hydrogen bonded complexes. 2017 , 128, 356-362	6
1601	Acid-catalysed thermal cycloreversion of a diarylethene: a potential way for triggered release of stored light energy?. 2017 , 53, 2150-2153	33
1600	A fluorescent chemosensor for Sn ²⁺ and Cu ²⁺ based on a carbazole-containing diarylethene. 2017 , 7, 9833-9839	44
1599	Mathematical optimization approach for estimating the quantum yield distribution of a photochromic reaction in a polymer. 2017 , 7, 015041	

- 1598 Photocyclization of photoswitches with high enantioselectivity in human serum albumin in an artificial environment. **2017**, 53, 3181-3184 13
- 1597 Light-Controlled Reversible Modulation of Frontier Molecular Orbital Energy Levels in Trifluoromethylated Diarylethenes. **2017**, 23, 3743-3754 36
- 1596 Determining the Photoisomerization Quantum Yield of Photoswitchable Molecules in Solution and in the Solid State. **2017**, 7, 41145 70
- 1595 Synthesis and Photochromism of Chloro- and tert-Butyl-Functionalized Terarylene Derivatives for Surface Deposition. **2017**, 2017, 2451-2461 10
- 1594 A Versatile Approach for In Situ Monitoring of Photoswitches and Photopolymerizations. **2017**, 1, 125-131 32
- 1593 Arylazoindazole Photoswitches: Facile Synthesis and Functionalization via SAr Substitution. **2017**, 139, 3328-3331 40
- 1592 Synthesis of photochromic maleimides containing dithienylethene and azobenzene fragments. **2017**, 53, 141-143 2
- 1591 A fluorescent sensor based on a diarylethene-rhodamine derivative for sequentially detecting Cu²⁺ and arginine and its application in keypad lock. **2017**, 247, 26-35 41
- 1590 Solvent effect of fluorescence on/off switching of diarylethene linked to excited-state intramolecular proton transfer fluorophore. **2017**, 43, 5321-5336 3
- 1589 A fluorescent sensor for Al³⁺ based on a photochromic diarylethene with a hydrazinobenzothiazole Schiff base unit. **2017**, 58, 1390-1394 21
- 1588 Taking Orders from Light: Photo-Switchable Working/Inactive Smart Surfaces for Protein and Cell Adhesion. **2017**, 9, 8498-8507 33
- 1587 Why Are Dithienylethene-Linked Biscobaltocenes so Hard to Photoswitch?. **2017**, 18, 596-609 4
- 1586 Deliberate Switching of Single Photochromic Triads. **2017**, 7, 41739 9
- 1585 Photophysical Properties of a Terarylene Photoswitch with a Donor-Acceptor Conjugated Bridging Unit. **2017**, 121, 1638-1646 7
- 1584 Fluorescence On/Off Switching in Polymers Bearing Diarylethene and Fluorene in Their Side Chains. **2017**, 121, 6272-6281 19
- 1583 Aggregation-controlled photochromism based on a dithienylethene derivative with aggregation-induced emission. **2017**, 5, 2717-2722 30
- 1582 Synthesis and properties of photochromic spirooxazine with aggregation-induced emission fluorophores polymeric nanoparticles. **2017**, 142, 481-490 29
- 1581 Nickel-Catalyzed Direct Synthesis of Aryl Olefins from Ketones and Organoboron Reagents under Neutral Conditions. **2017**, 139, 6086-6089 23

1580	Hydrogen-Bonded Switchable Dielectric Material Showing the Bistability of Second-Order Nonlinear Optical Properties. 2017 , 17, 3250-3256	12
1579	Significant Enhancement of C ₂ H ₂ /C ₂ H ₄ Separation by a Photochromic Diarylethene Unit: A Temperature- and Light-Responsive Separation Switch. 2017 , 129, 8008-8014	22
1578	Significant Enhancement of C ₂ H ₂ /C ₂ H ₄ Separation by a Photochromic Diarylethene Unit: A Temperature- and Light-Responsive Separation Switch. 2017 , 56, 7900-7906	123
1577	Fluorescent Photoswitchable Diarylethenes for Biolabeling and Single-Molecule Localization Microscopies with Optical Superresolution. 2017 , 139, 6611-6620	134
1576	Photooxidation of DNA as a key step in the cytotoxicity of photochromic diarylethenes. 2017 , 142, 530-534	5
1575	Two-photon absorption spectroscopy of trans-stilbene, cis-stilbene, and phenanthrene: Theory and experiment. 2017 , 146, 144305	16
1574	Effects of Photochromic Furan-Based Diarylethenes on Gold Nanoparticles Aggregation. 2017 , 12, 271	3
1573	Synthesis and solid-state properties of crosslinked alternating copolymers of phenyl vinyl ethylene carbonate and N-substituted maleimides. 2017 , 134, 45247	6
1572	Photocatalytic Self-Doped SnO ₂ Nanocrystals Drive Visible-Light-Responsive Color Switching. 2017 , 129, 7900-7904	13
1571	Photocatalytic Self-Doped SnO Nanocrystals Drive Visible-Light-Responsive Color Switching. 2017 , 56, 7792-7796	92
1570	Redox effects of low-spin Ru(ii/iii) on slow magnetic relaxation of Ru-Mn(iii) 1D cyanide-bridged complexes. 2017 , 46, 7267-7272	5
1569	Photochromic fluorescent indol-3-yl-substituted maleimides. 2017 , 53, 366-370	2
1568	Optically Switchable Luminescent Hydrogel by Synergistically Intercalating Photochromic Molecular Rotor into Inorganic Clay. 2017 , 5, 1700149	28
1567	Two-photon absorption spectroscopy of stilbene and phenanthrene: Excited-state analysis and comparison with ethylene and toluene. 2017 , 146, 174102	16
1566	Fluorescent detection of multiple ions by two related chemosensors: structural elucidations and logic gate applications. 2017 , 7, 23127-23135	16
1565	Two-step transformation of p-anisylaminoquinoline derivatives induced by conformation- and packing-dominated processes. 2017 , 143, 401-408	9
1564	Improvement of photoionization efficiency of diarylethene-cyclodextrin complexes by using multi-laser pulse excitation. 2017 , 344, 28-35	5
1563	Cu ²⁺ -Selectivity gated photochromism in Schiff-modified diarylethenes with a star-shaped structure. 2017 , 5, 282-289	28

1562	Photoswitchable and Water-Soluble Fluorescent Nano-Aggregates Based on a Diarylethene-Dansyl Dyad and Liposome. 2017 , 12, 248-253	9
1561	Exploring the diethylaminoflavylum derivatives multistate system of chemical reactions in the presence of CTAB micelles: thermodynamic reversibility achieved through different kinetic pathways. 2017 , 7, 30469-30480	4
1560	Third-Generation Light-Driven Symmetric Molecular Motors. 2017 , 139, 9650-9661	35
1559	Laser triggered phase transition in photothermal liquid crystals. 2017 , 53, 6339-6342	4
1558	Photochromic histone deacetylase inhibitors based on dithienylethenes and fulgimides. 2017 , 15, 4882-4896	17
1557	Thiophene-S,S-dioxidized diarylethenes for light-starting irreversible thermosensors that can detect a rise in heat at low temperature. 2017 , 5, 6210-6215	4
1556	Reconfigurable photonic crystals with optical bistability enabled by Bold programming and thermo-recoverable shape memory polymers. 2017 , 7, 22461-22467	9
1555	Photochromic Hydrazone Switches with Extremely Long Thermal Half-Lives. 2017 , 139, 9140-9143	78
1554	Sequential Red-Green-Blue (RGB) Fluorescence Color Photoswitching in Multicomponent Photochromic Fluorescent Nanoparticles. 2017 , 46, 1182-1185	11
1553	Extended Dihydrophenazines with Three-State NIR Electrochromism Involving Large Conformational Changes. 2017 , 12, 2311-2317	12
1552	Photoisomerization of cyclopentene-based α (2-furanyl)- and α (2-thienyl)enones. 2017 , 73, 4439-4449	4
1551	Capturing Chemistry in Action with Electrons: Realization of Atomically Resolved Reaction Dynamics. <i>Chemical Reviews</i> , 2017 , 117, 11066-11124	68.1 72
1550	A fluorescent photochromic diarylethene based on naphthalic anhydride with strong solvatochromism. 2017 , 7, 29854-29859	9
1549	New entry for fluorinated carbocycles: Unprecedented 3,6-disubstituted 1,1,2,2-tetrafluorocyclohexane derivatives. 2017 , 200, 47-58	13
1548	Photochemical reactions of metal complexes in the solid state. 2017 , 46, 7120-7140	48
1547	Dual-Responsive Molecular Switches Based on Dithienylethene-Ru Organometallics in Self-Assembled Monolayers Operating at Low Voltage. 2017 , 23, 10205-10214	13
1546	Light penetration-coupled photoisomerization modeling for photodeformation of diarylethene single crystal: upscaling isomerization to macroscopic deformation. 2017 , 7, 967	7
1545	Modeling Diarylethene Excited States with Ab Initio Tools: From Model Systems to Large Multimers. 2017 , 321-341	1

1544	A Historical Overview of Photomechanical Effects in Materials, Composites, and Systems. 2017 , 1-35	1
1543	Photochromism in the Solid State. 2017 , 37-77	5
1542	Photomechanical Effects in Photochromic Crystals. 2017 , 233-274	4
1541	Strategies for Switching with Visible Light. 2017 , 93-114	
1540	Photoresponsive Organogelator: Utilization of Boron(III) Diketonate as a Building Block To Construct Multiresponsive Materials. 2017 , 36, 2661-2669	32
1539	Wavelength-selective and high-contrast multicolour fluorescence photoswitching in a mixture of photochromic nanoparticles. 2017 , 53, 8268-8271	28
1538	Photocontrol of Clustering, Retaining, and Releasing of Microbeads Concomitant with Phototransformation of Supramolecular Architecture of Amphiphilic Diarylethene. 2017 , 121, 4265-4272	7
1537	Turn-on mode fluorescent diarylethenes: Control of the cycloreversion quantum yield. 2017 , 73, 4918-4924	22
1536	Light-Controlled Release and Uptake of Zinc Ions in Solution by a Photochromic Terthiazole-Based Ligand. 2017 , 12, 853-859	4
1535	Switchings of dielectric constant, second harmonic generation and polarization in a polar hybrid cyanometallate crystal. 2017 , 41, 3211-3216	10
1534	Investigations on the photochromic properties of 2,6-bis(5-bromo-2-hydroxybenzylidene)cyclohexanone. 2017 , 16, 946-953	6
1533	Optical properties of gold nanoparticles decorated with furan-based diarylethene photochromic molecules. 2017 , 342, 78-84	9
1532	Dual-light control of nanomachines that integrate motor and modulator subunits. 2017 , 12, 540-545	141
1531	3D printable light-responsive polymers. 2017 , 4, 396-401	68
1530	Ultrafast ring-closing reaction dynamics of a photochromic furan-based difurylethene. 2017 , 669, 156-160	3
1529	Tuning Azoheteroarene Photoswitch Performance through Heteroaryl Design. 2017 , 139, 1261-1274	153
1528	Connectivity pattern modifies excited state relaxation dynamics of fluorophore-photoswitch molecular dyads. 2017 , 19, 4010-4018	3
1527	Metal-vapor integration/transportation based on metal-atom desorption from polymer surfaces with a low glass-transition temperature. 2017 , 35, 020603	3

1526	"Though It Be but Little, It Is Fierce": Excited State Engineering of Conjugated Organic Materials by Fluorination. 2017 , 8, 91-101	19
1525	Azobenzene: A Photoactive Building Block for Supramolecular Architectures. 2017 , 17, 700-712	14
1524	Bidirectional Photomodulation of Surface Tension in Langmuir Films. 2017 , 56, 291-296	11
1523	Expanding the Hammett Correlations for the Vinylheptafulvene Ring-Closure Reaction. 2017 , 2017, 1052-10626	
1522	A highly selective fluorescent sensor for Cd ²⁺ based on a new diarylethene with a 1,8-naphthyridine unit. 2017 , 139, 208-217	28
1521	Is energy transfer limiting multiphotochromism? answers from ab initio quantifications. 2017 , 19, 2044-2052	10
1520	Electrocatalytic Z-E Isomerization of Azobenzenes. 2017 , 139, 335-341	81
1519	Ultrafast Elementary Photochemical Processes of Organic Molecules in Liquid Solution. <i>Chemical Reviews</i> , 2017 , 117, 10826-10939	68.1 235
1518	Bidirectional Photomodulation of Surface Tension in Langmuir Films. 2017 , 129, 297-302	8
1517	A Magneto-optical Molecular Device: Interplay of Spin Crossover, Luminescence, Photomagnetism, and Photochromism. 2017 , 129, 15828-15833	15
1516	Dynamic Pseudorotaxane Crystals Containing Metallocene Complexes. 2017 , 7, 14195	8
1515	Effects of aromatic stabilization energies of aryl rings of symmetrical diarylethenes. 2017 , 73, 6479-6485	2
1514	Smart Fluid System Dually Responsive to Light and Electric Fields: An Electrophotorheological Fluid. 2017 , 11, 9789-9801	10
1513	Thermal decomposition product of 1,2-bis(2-methyl-1-benzofuran-3-yl)perfluorocyclopentene. 2017 , 58, 4447-4449	3
1512	Photoswitchable vesicles. 2017 , 32, 29-38	11
1511	Multiphotochromism in an Asymmetric Ruthenium Complex with Two Different Dithienylethenes. 2017 , 56, 13257-13266	11
1510	BN Doping and the Photochemistry of Polyaromatic Hydrocarbons: Photocyclization of Hexaphenyl Benzene and Hexaphenyl Borazine. 2017 , 121, 8359-8367	7
1509	New Insight into the Fatigue Resistance of Photochromic 1,2-Diarylethenes. 2017 , 121, 23592-23598	22

1508	Light-induced functions in DNA. 2017 , 40, 119-126	5
1507	Synthesis, Characterization, and Properties of Iron(II) Spin-Crossover Molecular Photoswitches Functioning at Room Temperature. 2017 , 56, 13174-13186	28
1506	Photochromic Heterocycle-Fused Thieno[3,2-b]phosphole Oxides as Visible Light Switches without Sacrificing Photoswitching Efficiency. 2017 , 139, 15142-15150	55
1505	Stimuli-responsive functionalized insulated conjugated polymers. 2017 , 49, 805-814	17
1504	Remote light-controlled intracellular target recognition by photochromic fluorescent glycoprobes. 2017 , 8, 987	97
1503	Nonlinear and Nonsymmetric Single-Molecule Electronic Properties Towards Molecular Information Processing. 2017 , 375, 79	2
1502	Synthesis of Benzoaryl-5-yl(2-hydroxyphenyl)methanones via Photoinduced Rearrangement of (E)-3-Arylvinyl-4H-chromen-4-ones. 2017 , 19, 5984-5987	23
1501	A Magneto-optical Molecular Device: Interplay of Spin Crossover, Luminescence, Photomagnetism, and Photochromism. 2017 , 56, 15622-15627	81
1500	Photochromic Properties of a Series of Zinc(II)Viologen Complexes with Structural Regulation by Anions. 2017 , 17, 6311-6319	33
1499	Scanning Tunneling Microscope Tip-Induced Formation of a Supramolecular Network of Terarylene Molecules on Cu(111). 2017 , 121, 25384-25389	7
1498	Photosalient Phenomena that Mimic Impatiens Are Observed in Hollow Crystals of Diarylethene with a Perfluorocyclohexene Ring. 2017 , 129, 12750-12754	16
1497	A photoactivatable photochromic system serves as a self-hidden information storage material. 2017 , 1, 2356-2359	16
1496	Super-resolution Fluorescence Imaging for Materials Science. 2017 , 1, 1700191	75
1495	Determination of Quantum Yield of Photoreaction in Solution and in Suspension by Global Fitting of Prolonged Change of Concentration. 2017 , 46, 1564-1566	4
1494	Photosalient Phenomena that Mimic Impatiens Are Observed in Hollow Crystals of Diarylethene with a Perfluorocyclohexene Ring. 2017 , 56, 12576-12580	59
1493	Photo-switchable field-effect transistors based on two-dimensional stilbene oligomer crystals. 2017 , 5, 9597-9601	17
1492	Photoswitchable Dihydroazulene Macrocycles for Solar Energy Storage: The Effects of Ring Strain. 2017 , 82, 10398-10407	23
1491	Ab initio molecular dynamics of thiophene: the interplay of internal conversion and intersystem crossing. 2017 , 19, 25662-25670	25

1490	Photoswitchable molecules as key ingredients to drive systems away from the global thermodynamic minimum. 2017 , 46, 5536-5550	140
1489	Gigantic Photomagnetic Effect at Room Temperature in Spiropyran-Protected FePt Nanoparticles. 2017 , 11, 1700161	5
1488	Bistable Dithienylethene-Based Metal-Organic Framework Illustrating Optically Induced Changes in Chemical Separations. 2017 , 139, 13280-13283	73
1487	Temperature dependence of the conversion efficiency of photochromic perylene bisimide dithienylcyclopentene triads embedded in a polymer. 2017 , 19, 26065-26071	4
1486	A multiple switching diarylethene dimer with a bis(benzylene)amine-linked naphthalimide unit. 2017 , 73, 6164-6171	2
1485	Hybrid cis/trans Tetra-arylethenes with Switchable Aggregation-Induced Emission (AIE) and Reversible Photochromism in the Solution, PMMA Film, Solid Powder, and Single Crystal. 2017 , 82, 10960-10967 ⁵	75
1484	Dual Visible Light-Triggered Photoswitch of a Diarylethene Supramolecular Assembly with Cucurbit[8]uril. 2017 , 23, 14425-14429	26
1483	Multistate Complete-Active-Space Second-Order Perturbation Theory Based on Density Matrix Renormalization Group Reference States. 2017 , 13, 4829-4840	41
1482	Photochrome-doped organic films for photonic keypad locks and multi-state fluorescence. 2017 , 19, 19984-19991	8
1481	A acid/base gated photochromic and fluorescent sensor based on a diarylethene with a 2-(1H-dithienobenzoimidazole)phenol unit. 2017 , 146, 445-454	28
1480	Combination of a fluorescent conjugated polymer, photochromic dye, and UV-curable acryl oligomer for fluorescence switching applications. 2017 , 146, 398-401	6
1479	Theoretical studies on the switching behavior of dithienylethene-containing platinum(II) complexes. 2017 , 846, 230-235	2
1478	Electrochromically and Photochromically Controllable Multifunctional OligoEDOT Derivatives. 2017 , 27, 1700929	6
1477	Light-Tunable Nonvolatile Memory Characteristics in Photochromic RRAM. 2017 , 3, 1600416	36
1476	Nondestructive Probing of a Photoswitchable Dithienylethene Coupled to Plasmonic Nanostructures. 2017 , 121, 16528-16532	5
1475	Synthesis and Optical Properties of Fluorescent Switchable Silica Nanoparticles Covered with Copolymers Consisting of Diarylethene and Fluorene Derivatives. 2017 , 2, 5445-5452	6
1474	The Art of Building Small: From Molecular Switches to Motors (Nobel Lecture). 2017 , 56, 11060-11078	416
1473	Photophysics and photochemistry of 1,2,3-triazole-based complexes. 2017 , 350, 136-154	59

- 1472 Tautomerism-Induced Cis-Trans Isomerization of Pyridylethenyl N-Confused Porphyrin. **2017**, 82, 8686-8696 16
- 1471 Isomer-Specific Hydrogen Bonding as a Design Principle for Bidirectionally Quantitative and Redshifted Hemithioindigo Photoswitches. **2017**, 139, 10956-10959 59
- 1470 Electrochemical control of the switching process of photochromic dimethyldihydropyrene derivatives. **2017**, 53, 9360-9363 6
- 1469 Photochemical Rearrangement of Diarylethenes: Reaction Efficiency and Substituent Effects. **2017**, 82, 8651-8661 17
- 1468 Dependence of Photoinduced Bending Behavior of Diarylethene Crystals on Ultraviolet Irradiation Power. **2017**, 17, 4819-4825 26
- 1467 Flexible interlocked porous frameworks allow quantitative photoisomerization in a crystalline solid. **2017**, 8, 100 60
- 1466 Photochromism and molecular logic gate operation of a water-compatible bis-glycosyl diarylethene. **2017**, 53, 9494-9497 32
- 1465 A photochromic prototype based on difurylperhydrocyclopentene with remarkable photoswitching behavior and in vivo application. **2017**, 53, 9570-9573 11
- 1464 Surface glass transition temperature characterized by metal-atom deposition/desorption on organic films. **2017**, 426, 169-176 1
- 1463 Aerobic Dimerization of Ethyl 4-Thienyl-3-ketobutanoate toward a Modifiable Photochromic Diarylethene Precursor. **2017**, 19, 4395-4398 10
- 1462 A flexible metallic actuator using reduced graphene oxide as a multifunctional component. **2017**, 9, 12963-12968 8
- 1461 Die Kunst, klein zu bauen: von molekularen Schaltern bis zu Motoren (Nobel-Aufsatz). **2017**, 129, 11206-11226 94
- 1460 Photochromism of new unsymmetrical diarylethenes with a quinoline moiety. **2017**, 30, e3716 6
- 1459 A new MediaChrom (fluorosolvatochromic and acidochromic) based on bipolar donor-acceptor conjoined carbazolo-phenazine. **2017**, 347, 199-208 9
- 1458 Plasmon-Induced Conductance Switching of an Electroactive Conjugated Polymer Nanojunction. **2017**, 9, 27817-27824 11
- 1457 Mechanical Behavior of Molecular Crystals Induced by Combination of Photochromic Reaction and Reversible Single-Crystal-to-Single-Crystal Phase Transition. **2017**, 29, 7524-7532 58
- 1456 Live Cell Imaging Using Photoswitchable Diarylethene-Doped Fluorescent Polymer Dots. **2017**, 12, 2660-2665 9
- 1455 Engineering Multifunctionality in Hybrid Polyoxometalates: Aromatic Sulfonium Octamolybdates as Excellent Photochromic Materials and Self-Separating Catalysts for Epoxidation. **2017**, 56, 10325-10336 29

- 1454 Protonation-Enhanced Antiferromagnetic Couplings in Azobenzene-Bridged Diradicals. **2017**, 121, 17160-17168 **3**
- 1453 Photoswitchable polyfluorophores based on perylenemonoimide-thiophenylene conjugates as super-resolution MitoTrackers. **2017**, 5, 9339-9344 **7**
- 1452 Lone pair- π interaction-induced generation of photochromic coordination networks with photoswitchable conductance. **2017**, 53, 9701-9704 **51**
- 1451 Controllable Photoluminescence Behaviors of Amphiphilic Porphyrin Supramolecular Assembly Mediated by Cyclodextrins. **2017**, 5, 1700770 **16**
- 1450 Cycloreversion Reaction of a Diarylethene Derivative at Higher Excited States Attained by Two-Color, Two-Photon Femtosecond Pulsed Excitation. **2017**, 139, 17159-17167 **22**
- 1449 Visible-light responsive hydrogen-bonded supramolecular polymers based on ortho-tetrafluorinated azobenzene. **2017**, 8, 7384-7389 **23**
- 1448 Fluorescence Photoswitching of a Diarylethene by Irradiation with Single-Wavelength Visible Light. **2017**, 139, 16498-16501 **55**
- 1447 Ionic Liquid Mediated Dispersion and Support of Functional Molecules on Cellulose Fibers for Stimuli-Responsive Chromic Paper Devices. **2017**, 9, 40914-40920 **16**
- 1446 A four-blade light-driven plastic mill based on hydrazone liquid-crystal networks. **2017**, 73, 4963-4967 **62**
- 1445 A multi-functional hydrazinobenzothiazole-based diarylethene derivative: Highly efficient discrimination cadmium ion from zinc ion and near-infrared absorption detection of hydroxide ion. **2017**, 146, 305-315 **14**
- 1444 A volumetric three-dimensional digital light photoactivatable dye display. **2017**, 8, 15239 **22**
- 1443 The crystal structure of 1,2-bis[2-methyl-5-(3-cyanophenyl)-3-thienyl]-3,3,4,4,5,5-hexafluoro-cyclopent-1-ene, C₂₉H₁₆F₆N₂S₂. **2017**, 232, 517-519 **1**
- 1442 Light-induced photoisomerization of a diarylethene molecular switch on solid surfaces. **2017**, 29, 374001 **6**
- 1441 Structure and photochromism of 1,2-bis[2-methyl-5-(2-chlorophenyl)-3-thienyl]-3,3,4,4,5,5-hexafluorocyclopent-1-ene, C₂₇H₁₆Cl₂F₆S₂. **2017**, 232, 359-361 **3**
- 1440 Efficient Cycloreversion Reaction of a Diarylethene Derivative in Higher Excited States Attained by Off-Resonant Simultaneous Two-Photon Absorption. **2017**, 8, 3272-3276 **24**
- 1439 Copper-Catalyzed Imidovinylation of Alkynes via 1,3-Vinyl Migration. **2017**, 19, 3767-3770 **26**
- 1438 Disentangling electron- and electric-field-induced ring-closing reactions in a diarylethene derivative on Ag(1 1 1). **2017**, 29, 294001 **14**
- 1437 Triplet Energy and π -Conjugation Effects on Photoisomerization of Chiral N,C-Chelate Organoborons with PAH Substituents. **2017**, 19, 3851-3854 **20**

1436	Chirality controlled responsive self-assembled nanotubes in water. 2017 , 8, 1783-1789	16
1435	Diastereoselective photocyclization of a photochromic diarylethene having a benzo[b]phosphole P-oxide group. 2017 , 137, 214-220	6
1434	Synthesis of poly(methyl methacrylate)-succinonitrile composite polymer electrolyte and its application for flexible electrochromic devices. 2017 , 160, 476-483	30
1433	A highly selective fluorescent chemosensor for Cu : synthesis and properties of a rhodamine B-containing diarylethene. 2017 , 32, 652-660	10
1432	Photochromic benzo[b]phosphole oxide with excellent thermal irreversibility and fatigue resistance in the thin film solid state direct attachment of dithienyl units to the weakly aromatic heterocycle. 2017 , 8, 1309-1315	39
1431	On the use of diarylmaleimide derivatives in biological contexts: An investigation of the photochromic properties in aqueous solution. 2017 , 137, 410-420	14
1430	13 metastable states arising from a simple multifunctional unimolecular system. 2017 , 137, 490-498	4
1429	A closer look at the photochromism of vinylidene-naphthofurans. 2017 , 137, 593-600	15
1428	Efficient coloration and decoloration reactions of fast photochromic 3H-baphthopyrans in PMMA-b-PBA block copolymer. 2017 , 137, 307-311	24
1427	A multi-responsive molecular switch based on a diarylethene derivative containing dinitrobenzenesulfonic amide groups. 2017 , 136, 354-360	10
1426	Water-Soluble, Thermostable, Photomodulated Color-Switching Quantum Dots. 2017 , 23, 263-267	31
1425	50 Years of Structure and Bonding [The Anniversary Volume]. 2017 ,	1
1424	The Literature of Heterocyclic Chemistry, Part XIV, 2014. 2017 , 245-301	12
1423	Substituent effect in the photochromism of two isomeric asymmetric diarylethenes having pyrrole and thiophene units. 2017 , 173, 257-263	6
1422	A Diarylethene Derived Chemosensor for Colorimetric Sensing of Cu ²⁺ . 2017 , 222, 012019	1
1421	. 2017 ,	11
1420	4. Control of photochromism in N-salicylideneaniline by crystal engineering. 2017 , 103-119	
1419	Photochromic Polyurethanes Showing a Strong Change of Transparency and Refractive Index. 2017 , 9,	9

1418	Photoresponsive Hybrid Compounds. 2017 , 279-315	5
1417	A Novel Indole-Containing Diarylethene: Synthesis, Crystal Structure and Photochromism. 2017 , 41, 423-426	1
1416	Optical Properties of Hybrid Organic-Inorganic Materials and their Applications [Part I: Luminescence and Photochromism. 2017 , 275-316	
1415	Effiziente lichtinduzierte pKa-Modulation, gekoppelt mit basenkatalysierter Photochromie. 2018 , 130, 4888-4893	12
1414	Efficient Light-Induced pK Modulation Coupled to Base-Catalyzed Photochromism. 2018 , 57, 4797-4801	23
1413	Excited-State Dynamics of Dithienylethenes Functionalized for Self-Supramolecular Assembly. 2018 , 122, 3572-3582	8
1412	Solid-State Photodimerization of Azaanthracene Derivative Based on a [4+4] Cycloaddition. 2018 , 7, 906-909	4
1411	Spectroscopic Investigation of Diarylethene Photochromes Linked to Silica Nanoparticles. 2018 , 122, 6984-6995	5
1410	Fluorescence On/Off Switching in Nanoparticles Consisting of Two Types of Diarylethenes. 2018 , 3, 2374-2382	6
1409	Optical Humidity Sensing Using Transparent Hybrid Film Composed of Cationic Magnesium Porphyrin and Clay Mineral. 2018 , 34, 3572-3577	13
1408	An efficient and sensitive chemosensor based on salicylhydrazide for naked-eye and fluorescent detection of Zn ²⁺ . 2018 , 8, 6727-6732	20
1407	Photo- and ionochromic indolyl(thienyl)maleimides containing naphthalimide linkers. 2018 , 54, 32-37	1
1406	Photo- and ionochromic thienyl(coumarinyl)thiazoles. 2018 , 1163, 221-226	2
1405	Dynamic Modulation of Circularly Polarized Luminescence in Photoresponsive Assemblies. 2018 , 4, 815-820	6
1404	Triazatriangulene platform for self-assembled monolayers of free-standing diarylethene. 2018 , 61, 1345-1350	4
1403	A novel diarylethene-based photoswitchable chelator for reversible release and capture of Ca ²⁺ in aqueous media. 2018 , 360, 181-187	4
1402	Persistent optical hole-burning spectroscopy of nano-confined dye molecules in liquid at room temperature: Spectral narrowing due to a glassy state and extraordinary relaxation in a nano-cage. 2018 , 148, 144505	1
1401	Recent advances in triphenylamine-based electrochromic derivatives and polymers. 2018 , 9, 3001-3018	99

1400	A lead-free perovskite-like hybrid with above-room-temperature switching of quadratic nonlinear optical properties. 2018 , 54, 5614-5617	28
1399	Aromatic sulfonium polyoxomolybdates: tuning the photochromic properties through substitutions on the counter ion moiety. 2018 , 20, 2733-2740	5
1398	Multistate Photoswitches: Macrocyclic Dihydroazulene/Azobenzene Conjugates. 2018 , 57, 6069-6072	21
1397	Multistate Photoswitches: Macrocyclic Dihydroazulene/Azobenzene Conjugates. 2018 , 130, 6177-6180	7
1396	Photoswitchable π -Extended Dithienylethenes with an Attached Molecular Recognition Site. 2018 , 2018, 2592-2602	
1395	Palladium-Metalated Porous Organic Polymers as Recyclable Catalysts for the Chemioselective Synthesis of Thiazoles from Thiobenzamides and Isonitriles. 2018 , 20, 2494-2498	32
1394	Surface partially neutralized dendritic polymer demonstrating proton-triggered self-assembled aggregation for tumor therapy. 2018 , 103, 59-67	2
1393	Light-fuelled reversible expansion of spiropyran-based vesicles in water. 2018 , 54, 5311-5314	21
1392	Isolable Radical Ions of Main-Group Elements: Structures, Bonding and Properties. 2018 , 36, 573-586	36
1391	Efficiently Photocontrollable or Not? Biological Activity of Photoisomerizable Diarylethenes. 2018 , 24, 11245-11254	23
1390	Photochromic 2D Metal-Organic Framework Nanosheets (MONs): Design, Synthesis, and Functional MON-Ormosil Composite. 2018 , 4, 1059-1079	57
1389	Solar UV index and UV dose determination with photochromic hackmanites: from the assessment of the fundamental properties to the device. 2018 , 5, 569-576	19
1388	A multi-responsive diarylethene-rhodamine 6G derivative for sequential detection of Cr ³⁺ and CO ₂ . 2018 , 74, 3489-3497	18
1387	In situ optical and spectroscopic imaging of photochromic cyclization and crystallization of a diarylethene film with optical microscopy. 2018 , 356, 397-402	2
1386	Recent progress in development of photoacid generators. 2018 , 34, 41-51	48
1385	Photochromic Organic and Hybrid Self-Organized Nanostructured Materials: From Design to Applications. 2018 , 75-112	1
1384	Adsorption of Terarylenes on Ag(111) and NaCl(001)/Ag(111): A Scanning Tunneling Microscopy and Density Functional Theory Study. 2018 , 122, 5978-5991	3
1383	A novel fluorescence "turn-on" sensor based on a photochromic diarylethene for the selective detection of Al(III). 2018 , 196, 303-310	11

1382	Photo-controlled fluorescence on/off switching of a pseudo[3]rotaxane between an AIE-active pillar[5]arene host and a photochromic bithienylethene guest. 2018 , 54, 2405-2408	56
1381	Structurally and electronically modulated spin interaction of transient biradicals in two photon-gated stepwise photochromism. 2018 , 17, 290-301	3
1380	DFT/TDDFT, NPA, and AIM-based study of the molecular switching properties of photocyclization and metallochromism of the DAE complexes. 2018 , 137, 1	7
1379	Rapid Decoloration of Photochromic 3H-Naphthopyran Attached to Three-Dimensional Poly(dimethylsiloxane) Network. 2018 , 91, 563-570	1
1378	Diarylethenes with a Narrow Singlet-Triplet Energy Gap Sensitizer: a Simple Strategy for Efficient Visible-Light Photochromism. 2018 , 6, 1700847	25
1377	Photochromic Crystalline Systems Mimicking Bio-Functions. 2018 , 24, 8491-8506	24
1376	The Endeavor of Diarylethenes: New Structures, High Performance, and Bright Future. 2018 , 6, 1701278	126
1375	Synthesis of Hierarchical Silica/Titania Hollow Nanoparticles and Their Enhanced Electroresponsive Activity. 2018 , 10, 6570-6579	15
1374	Ligand-driven light-induced spin transition in spin crossover compounds. 2018 , 72, 773-798	18
1373	Walking and rolling of crystals induced thermally by phase transition. 2018 , 9, 538	61
1372	Photochromism of a spiro-functionalized diarylethene derivative: multi-colour fluorescence modulation with a photon-quantitative photocyclization reactivity. 2018 , 54, 3207-3210	21
1371	When 2D Materials Meet Molecules: Opportunities and Challenges of Hybrid Organic/Inorganic van der Waals Heterostructures. 2018 , 30, e1706103	140
1370	Organogels composed of trifluoromethyl anthryl cyanostyrenes: enhanced emission and self-assembly. 2018 , 17, 395-403	8
1369	Ultrafast dynamics of differently aligned COOH-DTE-BODIPY conjugates linked to the surface of TiO ₂ . 2018 , 30, 054001	2
1368	Functional Materials and Systems for Rewritable Paper. 2018 , 30, e1705310	109
1367	Photomechanical motion of diarylethene molecular crystal nanowires. 2018 , 10, 3393-3398	21
1366	A helically-twisted ladder based on 9,9'-bifluorenylidene: synthesis, characterization, and carrier-transport properties. 2018 , 2, 780-784	16
1365	Intensity-Dependent Photoresponse of Biphotochromic Molecule Composed of a Negative and a Positive Photochromic Unit. 2018 , 140, 1091-1097	30

1364	A highly selective diarylethene chemosensor for colorimetric detection of CN ⁻ and fluorescent relay-detection of Al ³⁺ /Cr ³⁺ . 2018 , 151, 22-27	59
1363	Photoswitchable Turn-on Mode Fluorescent Diarylethenes: Strategies for Controlling the Switching Response. 2018 , 91, 237-250	60
1362	Stepwise two-photon absorption processes utilizing photochromic reactions. 2018 , 34, 2-28	30
1361	Photochromism into nanosystems: towards lighting up the future nanoworld. 2018 , 47, 1044-1097	373
1360	Assessing the Structure of Octastate Molecular Switches Using 1H NMR Density Functional Theory Calculations. 2018 , 122, 1800-1808	2
1359	Visible Light Mediated Photopolymerization in Single Crystals: Photomechanical Bending and Thermomechanical Unbending. 2018 , 30, 577-581	33
1358	Multiple yet Controllable Photoswitching in a Single AIEgen System. 2018 , 140, 1966-1975	133
1357	Photoresponsive Organoboron Systems. 2018 , 47-77	13
1356	How do London Dispersion Interactions Impact the Photochemical Processes of Molecular Switches?. 2018 , 9, 464-470	16
1355	Fluorescent Diarylethene Photoswitches-A Universal Tool for Super-Resolution Microscopy in Nanostructured Materials. 2018 , 14, 1703333	48
1354	Photoresponsive supramolecular self-assemblies at the liquid/solid interface. 2018 , 34, 29-40	18
1353	Controllable Fluorescence Switching of a Coordination Chain Based on the Photoinduced Single-Crystal-to-Single-Crystal Reversible Transformation of a syn-[2.2]Metacyclophane. 2018 , 57, 849-856	51
1352	Evidence for Aggregation-Induced Emission from Free Rotation Restriction of Double Bond at Excited State. 2018 , 20, 373-376	79
1351	Lightening Up Membrane Receptors with Fluorescent Molecular Probes and Supramolecular Materials. 2018 , 4, 246-268	35
1350	Azole-based diarylethenes as the next step towards advanced photochromic materials. 2018 , 36, 1-23	39
1349	A Reversible Redox Reaction in a Keggin Polyoxometalate Crystal Driven by Visible Light: A Programmable Solid-State Photochromic Switch. 2018 , 24, 9747-9753	5
1348	Mesoscopic Motion of Optically Trapped Particle Synchronized with Photochromic Reactions of Diarylethene Derivatives. 2018 , 9, 2659-2664	12
1347	Synthesis of New Photoswitchable Tectons Based on Thiocalix[4]arene Azo Derivatives in the 1,3-Alternate Conformation. 2018 , 479, 31-35	

1346	A Wide Array of Photoinduced Motions in Molecular and Macromolecular Assemblies at Interfaces. 2018 , 91, 1026-1057	79
1345	Noncovalent Photochromic Polymer Adhesion. 2018 , 51, 2388-2394	16
1344	Photochemistry and photophysics of MOFs: steps towards MOF-based sensing enhancements. 2018 , 47, 4710-4728	329
1343	Bundle formation of supramolecular fibers of amphiphilic diarylethene by depletion force. 2018 , 54, 4298-4301	11
1342	Solvatomechanical Bending of Organic Charge Transfer Cocrystal. 2018 , 140, 6186-6189	63
1341	Study on the Mechanism of Diarylethene Crystal Growth by In Situ Microscopy and the Crystal Growth Controlled by an Aluminum Plasmonic Chip. 2018 , 34, 4217-4223	1
1340	Polymer and Photonic Materials Towards Biomedical Breakthroughs. 2018 ,	4
1339	Development and Characterization of Photoresponsive Polymers. 2018 , 3-47	4
1338	Photochromism and the fluorescence properties of bisbenzothienylethene and S,S',S'-tetraoxide derivatives with dual conjugated fluorescent groups on their side chains. 2018 , 17, 711-717	1
1337	Theoretical study on the reaction mechanism of the thermal - isomerization of fluorine-substituted azobenzene derivatives.. 2018 , 8, 11580-11588	22
1336	Soft matter nanoscopy. 2018 , 34, 59-73	12
1335	Visible chiral discrimination via macroscopic selective assembly. 2018 , 1,	17
1334	Optical waveguides with memory effect using photochromic material for neural network. 2018 , 57, 04FH02	1
1333	Spectroscopic Studies of Photochemical Transformations of Cymantrenylquinazolinone Derivatives. 2018 , 2018, 1945-1952	3
1332	Photoswitchable Layer-by-Layer Coatings Based on Photochromic Polynorbornenes Bearing Spiropyran Side Groups. 2018 , 34, 4210-4216	11
1331	Negative Photochromism Based on Molecular Diffusion between Hydrophilic and Hydrophobic Particles in the Solid State. 2018 , 57, 3671-3674	32
1330	Room temperature control of spin states in a thin film of a photochromic iron(II) complex. 2018 , 5, 506-513	30
1329	Synthesis and photochromic properties of dithienylethenes axially coordinating with Mn(II)-porphyrins. 2018 , 356, 661-664	1

1328	Advances in photonics of organic photochromism. 2018 , 354, 61-69	23
1327	Shape-Shifting Azo Dye Polymers: Towards Sunlight-Driven Molecular Devices. 2018 , 39, 1700253	55
1326	Modulating a D-πA type diarylethene for on-demand Cu ²⁺ check via photo-switchable detection range and sensitivity. 2018 , 257, 77-86	6
1325	Polaritonic Chemistry with Organic Molecules. 2018 , 5, 205-216	189
1324	Negatively photochromic organic compounds: Exploring the dark side. 2018 , 149, 92-121	85
1323	Dual Redox and Optical Control of Chiroptical Activity in Photochromic Dithienylethenes Decorated with Hexahelicene and Bis-Ethynyl-Ruthenium Units. 2018 , 37, 697-705	22
1322	Synthesis, molecular structure and photochemical properties of tricarbonyl and dicarbonyl derivatives of 1N- and 2N-cymantrenylalkyl-1,2,3-triazoles. 2018 , 867, 71-78	2
1321	Photochemically driven luminescence switch of metal supramolecular assembly incorporating mixed lanthanides and photochromic guest molecule. 2018 , 355, 242-248	10
1320	Ruthenium(II) Arylacetylide complexes as redox active units for (multi-)functional molecular devices. 2018 , 140, 169-180	8
1319	Taming Macromolecules with Light: Lessons Learned from Vibrational Spectroscopy. 2018 , 39, 1700430	6
1318	Expanding the Toolbox of Photoswitches for DNA Nanotechnology Using Arylazopyrazoles. 2018 , 24, 1062-1066	27
1317	Giant Fluorescence Modulation Induced by UV-vis Excitation of Benzothiadiazole Nanoparticles Doped with Diarylethene Derivatives. 2018 , 47, 163-166	5
1316	Fatigue and photochromism S1 excited state reactivity of diarylethenes from QTAIM and the stress tensor. 2018 , 118, e25565	14
1315	Comparative photophysical investigation of doubly-emissive photochromic-fluorescent diarylethenes. 2018 , 20, 2470-2479	12
1314	Fully Reversible Multistate Fluorescence Switching: Organogel System Consisting of Luminescent Cyanostilbene and Turn-On Diarylethene. 2018 , 28, 1706213	62
1313	Solid-State Fluorescence Behavior Induced by Photochemical Ring-Opening Reaction of 1,2-Bis(3-methyl-5-phenyl-2-thienyl)perfluorocyclopentene. 2018 , 91, 153-157	6
1312	Aggregation-responsive ON/OFF fluorescence-switching behaviour of twisted tetrakis(benzo[b]furyl)ethene made by hafnium-mediated McMurry coupling. 2018 , 2, 296-299	7
1311	Nano-optical functionality based on local photoisomerization in photochromic single crystal. 2018 , 124, 1	7

1310	Light controlled receptors for heavy metal ions. 2018 , 357, 18-49	51
1309	Fluorescence Commutation and Surface Photopatterning with Porphyrin Tetrathienylethene Switches. 2018 , 24, 1631-1639	6
1308	Covalent post-assembly modification in metallosupramolecular chemistry. 2018 , 47, 626-644	140
1307	Probing Transient Photoinduced Charge Transfer in Prussian Blue Analogues with Time-Resolved XANES and Optical Spectroscopy. 2018 , 2018, 272-277	23
1306	Switching or blinking? The switching behaviour of single photochromic triads. 2018 , 190, 04014	
1305	Unusual fluorescent photoswitching of imidazole derivatives: the role of molecular conformation and twist angle controlled organic solid state fluorescence. 2018 , 20, 27385-27393	11
1304	Photoresponse modulation of reduced graphene oxide by surface modification with cardanol derived azobenzene. 2018 , 42, 18182-18188	6
1303	The electronic applications of stable diradicaloids: present and future. 2018 , 6, 11232-11242	70
1302	Synthesis and reaction mechanism of high (BH) _{max} exchange coupled Nd ₂ (Fe,Co) ₁₄ B/Fe nanoparticles by a novel one-pot microwave technique. 2018 , 42, 19214-19223	7
1301	Highly reactive bis-cyclooctyne-modified diarylethene for SPAAC-mediated cross-linking. 2018 , 16, 8559-8564	8
1300	Two-step photomechanical motion of a dibenzobarrelene crystal.. 2018 , 8, 34314-34320	10
1299	Photomechanochromic mechanochromic fluorescence of a unichromophoric bimodal molecular solid: multicolour fluorescence patterning. 2018 , 9, 8990-9001	30
1298	A colorimetric and fluorescent chemosensor for Hg based on a photochromic diarylethene with a quinoline unit.. 2018 , 8, 39854-39864	8
1297	Photoresponsive supramolecular polymers based on quadruple hydrogen-bonding and a photochromic azobenzene motif. 2018 , 9, 5395-5401	10
1296	Aldehyde-Substituted Donor-Acceptor-Type Dithienylethenes as Novel Building Blocks for Photochromic Materials. 2018 , 42, 531-534	5
1295	Secret of Lotus Leaf: Importance of Double Roughness Structures for Super Water-Repellency. 2018 , 31, 705-710	3
1294	Light controls light: single molecules as optical switches. 2018 , 190, 02006	
1293	Nucleation mechanism of metal-vapor atoms on photochromic diarylethene surface with a low glass transition temperature. 2018 , 57, 121601	1

1292	Experimental Evidence for a Triplet Biradical Excited-State Mechanism in the Photoreactivity of N,C-Chelate Organoboron Compounds. 2018 , 122, 9267-9274	9
1291	Light-induced spin crossover solution and solid-state processes. 2018 , 21, 1075-1094	37
1290	Multi-triggered Supramolecular DNA/Bipyridinium Dithienylethene Hydrogels Driven by Light, Redox, and Chemical Stimuli for Shape-Memory and Self-Healing Applications. 2018 , 140, 17691-17701	96
1289	A Polymerizable Photoswitchable Fluorophore for Super-Resolution Imaging of Polymer Self-Assembly and Dynamics. 2018 , 7, 1432-1437	19
1288	Central-to-Helical-to-Axial-to-Central Transfer of Chirality with a Photoresponsive Catalyst. 2018 , 140, 17278-17289	37
1287	Supramolecular Packing and Macroscopic Alignment Controls Actuation Speed in Macroscopic Strings of Molecular Motor Amphiphiles. 2018 , 140, 17724-17733	25
1286	2H-Naphthopyran-Based Three-State Systems: From Solution Studies to Photoresponsive Organic/Inorganic Hybrid Materials. 2018 , 2, 952-958	2
1285	Allosteric Control of Photofoldamers for Selecting between Anion Regulation and Double-to-Single Helix Switching. 2018 , 140, 17711-17723	52
1284	Designing and Understanding Building Blocks for Molecular Spintronics. 2018 , 117-136	1
1283	A new fluorescence probe based on diarylethene with a benzothiazine unit for selective detection of Cd ²⁺ . 2018 , 74, 7431-7437	12
1282	Oxidative and reductive cyclization in stiff dithienylethenes. 2018 , 14, 2812-2821	6
1281	Crystal structure and photochromism of 1-(2-ethyl-5-formylthiophen-3yl)-2-(2-cyano-1,5-dimethyl-4-pyrrol)-3,3,4,4,5,5-hexafluorocyclopent-1-ene, C ₁₉ H ₁₄ F ₆ N ₂ O ₅ . 2018 , 234, 181-183	2
1280	Turn-On Fluorescent Photochromic Disulfonylarylthiophenes: Effect of Sulfone Groups on Fluorescence and Conversion. 2018 , 39, 1308-1314	3
1279	Progress on photochromic diarylethenes with aggregation induced emission. 2018 , 11, 317-332	14
1278	Cooperative supramolecular polymers with anthracene-endoperoxide photo-switching for fluorescent anti-counterfeiting. 2018 , 9, 3977	130
1277	From a Molecular Toolbox to a Toolbox for Photoswitchable Fluorescent Polymeric Nanoparticles. 2018 , 28, 1804759	32
1276	Solution and Solid-State Emission Toggling of a Photochromic Hydrazone. 2018 , 140, 12323-12327	49
1275	Terarylenes as Photoactivatable Hydride Donors. 2018 , 83, 13700-13706	9

- 1274 Multistimuli-Responsive Enaminitrile Molecular Switches Displaying H-Induced Aggregate Emission, Metal Ion-Induced Turn-On Fluorescence, and Organogelation Properties. **2018**, 140, 13640-13643 30
- 1273 Wavelength-Controlled Dynamic Metathesis: A Light-Driven Exchange Reaction between Disulfide and Diselenide Bonds. **2018**, 130, 16664-16668 15
- 1272 Photoactive Molecular-Based Devices, Machines and Materials: Recent Advances. **2018**, 2018, 4589-4603 13
- 1271 Synthesis of Polycyclic Heteroaromatic Coumarins via Photoinduced Dehydrogenative Annulation of 4-Phenyl-3-heteroaryl coumarins. **2018**, 83, 13940-13948 15
- 1270 Synthesis and Light-Induced Actuation of Photo-Labile 2-Pyridyl-1,2,3-Triazole Ru(bis-bipyridyl) Appended Ferrocene Rotors. **2018**, 23, 6
- 1269 Nanometre-scale pattern formation on the surface of a photochromic crystal by optical near-field induced photoisomerization. **2018**, 8, 14468 5
- 1268 Photo/thermochromic macrocycles based on dihydroazulenes, dithienylethenes, and spiropyrans. **2018**, 74, 6635-6646 10
- 1267 Mechanochemical Regulation of a Photochemical Reaction. **2018**, 140, 14073-14077 45
- 1266 Probe, Sample, and Instrument (PSI) – The Hat-Trick for Fluorescence Live Cell Imaging. **2018**, 6, 40 16
- 1265 Wavelength-Controlled Dynamic Metathesis: A Light-Driven Exchange Reaction between Disulfide and Diselenide Bonds. **2018**, 57, 16426-16430 65
- 1264 Switchable Fluorophores for Single-Molecule Localization Microscopy. *Chemical Reviews*, **2018**, 118, 9412-9454 124
- 1263 Structure and photochromism of 1,2-bis[2-methyl-5-(3-quinolyl)-3-thienyl]-3,3,4,4,5,5-hexafluorocyclopent-1-ene, C₃₃H₂₀F₆N₂S₂. **2018**, 233, 999-1002 5
- 1262 Structure and photochromism of 1-[2-methyl-5-phenyl-3-thienyl]-2-[2-methyl-5-(4-chlorophenyl)-3-thienyl]-3,3,4,4,5,5-hexafluorocyclopent-1-ene; C₂₇H₁₆ClF₆S₂. **2018**, 234, 49-51
- 1261 Controlling Isomerization Selectivity in Chiral, Photochromic N,C-Chelate Organoboron Systems with Extended π -Conjugation. **2018**, 83, 11970-11977 9
- 1260 Synthesis and properties of dithienylethene-functionalized switchable antibacterial agents. **2018**, 16, 6988-6997 16
- 1259 A Diarylethene-Based Photoswitch and its Photomodulation of the Fluorescence of Conjugated Polymers. **2018**, 24, 17756-17766 17
- 1258 Photochromic hybrid materials doped with vinylidene-naphthofurans. **2018**, 125, 146-152 6
- 1257 Ultrafast Pump-Repump-Probe Photochemical Hole Burning as a Probe of Excited-State Reaction Pathway Branching. **2018**, 9, 5847-5854 3

1256	Self-assembly of lattices with high structural complexity from a geometrically simple molecule. 2018 , 361, 1242-1246	71
1255	Photochromic fluorophores at the molecular and nanoparticle levels: fundamentals and applications of diarylethenes. 2018 , 10, 859-881	80
1254	Structure-function relationships of donor-acceptor Stenhouse adduct photochromic switches. 2018 , 9, 8242-8252	60
1253	Molecular Orbital Delocalization/Localization-Induced Crystal-to-Crystal Photochromism of Schiff Bases without ortho-Hydroxyl Groups. 2018 , 122, 24933-24940	1
1252	Recent advances in photoswitchable cation chemosensors. 2018 , 22,	2
1251	A multi-controllable selective fluorescent turn-on chemosensor for Al ³⁺ and Zn ²⁺ based on a new diarylethene with a 3-(4-methylphenyl)-1H-pyrazol-5-amine Schiff base group. 2018 , 74, 6299-6309	25
1250	Photochromic and photomodulated luminescence properties of two metallogen complexes constructed by a tetracarboxylate-anchored bipyridinium-based ligand. 2018 , 20, 6412-6419	24
1249	Writing and erasing multicolored information in diarylethene-based supramolecular gels. 2018 , 9, 8019-8023	21
1248	Encapsulation of a Cr(III) Single-Ion Magnet within an Fe(II) Spin-Crossover Supramolecular Host. 2018 , 130, 13697-13701	2
1247	Encapsulation of a Cr Single-Ion Magnet within an Fe Spin-Crossover Supramolecular Host. 2018 , 57, 13509-13513	31
1246	Photochromism of Amphiphilic Dithienylethenes as Langmuir-Schaefer Films. 2018 , 34, 10905-10912	4
1245	Adjustable Photochromic Behavior of a Diarylethene-Based Bistable [3]Rotaxane. 2018 , 20, 5626-5630	13
1244	Nucleation, absorption, or desorption of metal-vapor atoms on amorphous photochromic diarylethene films having a low glass transition temperature. 2018 , 6, 9786-9793	4
1243	Flipping the Switch: Fast Photoisomerization in a Confined Environment. 2018 , 140, 7611-7622	76
1242	Concise Synthesis of Photoresponsive Polyureas Containing Bridged Azobenzenes as Visible-Light-Driven Actuators and Reversible Photopatterning. 2018 , 51, 4290-4297	35
1241	Chemo-chromism in an orthogonal dabco-based Co(II) network assembled by methanol-coordination and hydrogen bond formation. 2018 , 47, 7656-7662	6
1240	Dynamic Ultralong Organic Phosphorescence by Photoactivation. 2018 , 57, 8425-8431	158
1239	Near-Infrared Photoluminescence and Reversible Trans-to-Cis Photoisomerization of Mononuclear and Binuclear Ytterbium(III) Complexes Functionalized by Azobenzene Groups. 2018 , 3, 5480-5490	8

1238	Stepwise photochromism of bisnaphthopyrans exhibiting an excitation intensity-dependent color change. 2018 , 17, 946-953	7
1237	Proton-Stabilized Photochemically Reversible E/Z Isomerization of Spiropyran. 2018 , 122, 6423-6430	40
1236	Recent advances in the use of photochromic dyes for photocontrol in biomedicine. 2018 , 372, 66-84	58
1235	Bioinspired Color Materials Combining Structural, Dye, and Background Colors. 2018 , 14, e1800817	24
1234	Redox-induced switch between luminescence and magnetism in a trinuclear cyanide-bridged compound. 2018 , 47, 9985-9988	4
1233	A rapidly responsive photochromic hydrogel with high mechanical strength for ink-free printing. 2018 , 6, 7619-7625	17
1232	Isomerization and rearrangement of boriranes: from chemical rarities to functional materials. 2018 , 61, 1249-1256	13
1231	Tripodal N-Functionalized Arylazo-3,5-dimethylpyrazole Derivatives of Trimesic Acid: Photochromic Materials for Rewritable Imaging Applications. 2018 , 2, 806-810	11
1230	Synthesis of New Photochromic Dithienylmaleimides with Acetal and Aldehyde Fragments. 2018 , 54, 785-788	1
1229	Solution Mask Liquid Lithography (SMaLL) for One-Step, Multimaterial 3D Printing. 2018 , 30, e1800364	95
1228	Dynamic Ultralong Organic Phosphorescence by Photoactivation. 2018 , 130, 8561-8567	39
1227	A highly selective fluorescent probe for detection of Cd and HSO based on photochromic diarylethene with a triazole-bridged coumarin-quinoline group.. 2018 , 8, 22786-22798	17
1226	Reversible Spatial Control in Aqueous Media by Visible Light: A Thioindigo Photoswitch that is Soluble and Operates Efficiently in Water. 2018 , 24, 14382-14386	7
1225	Dimethylcethrene: A Chiroptical Diradicaloid Photoswitch. 2018 , 140, 10839-10847	49
1224	Multicolor Fluorescence Photoswitching: Color-Related versus Color-Specific Switching. 2018 , 6, 1800678	55
1223	Molecular Photoswitching Aided by Excited-State Aromaticity. 2018 , 83, 958-967	22
1222	Effects of heteroaryl ring on the photochromism of asymmetrical diarylethenes containing a naphthalene group. 2018 , 205, 470-478	4
1221	The influence of the secondary building linker geometry on the photochromism of naphthalenediimide-based metal-organic frameworks. 2018 , 20, 4849-4856	18

1220	Toward bidirectional photoswitchable colored photochromic molecules with visible light stability. 2018 , 54, 9356-9359	12
1219	Indolino-Oxazolidine Acido- and Photochromic System Investigated by NMR and Density Functional Theory Calculations. 2018 , 83, 10409-10419	8
1218	Nanoskopische Bildgebung der Vernetzungsdichte in Polymernetzwerken mittels Diarylethen-Photoschaltern. 2018 , 130, 12460-12464	7
1217	Nanosopic Visualization of Cross-Linking Density in Polymer Networks with Diarylethene Photoswitches. 2018 , 57, 12280-12284	55
1216	Controlling Dark Equilibria and Enhancing Donor-Acceptor Stenhouse Adduct Photoswitching Properties through Carbon Acid Design. 2018 , 140, 10425-10429	76
1215	Principles of Design for Substrate-Supported Molecular Switches Based on Physisorbed and Chemisorbed States. 2018 , 10, 26772-26780	11
1214	Donor-Acceptor Styrylisoxazoles: Solvatochromism and Large First Hyperpolarizability. 2018 , 3, 7416-7421	
1213	One-Step Synthesis and Stealth Photochromism of Arylbutadienes. 2018 , 83, 10695-10700	5
1212	New molecular switch architectures. 2018 , 115, 9414-9422	128
1211	A Photoswitchable Colorimetric Sensor for Fluoride Based on a Dithienylethene Unit. 2018 , 42, 305-308	6
1210	Excited-State Electronic Asymmetry Prevents Photoswitching in Terthiophene Compounds. 2018 , 57, 9039-9047	1
1209	Crystalline to Crystalline Phase Transformations in Six Two-Dimensional Dynamic Metal-Organic Frameworks: Syntheses, Characterizations, and Sorption Studies. 2018 , 18, 5231-5244	6
1208	Covalent switching, involving divinylbenzene ligands within 3D coordination polymers, indicated by changes in fluorescence. 2018 , 54, 5831-5834	47
1207	Photochromic thermoplastics doped with nanostructured tungsten trioxide. 2018 , 42, 10885-10890	1
1206	Light-driven transformable optical agent with adaptive functions for boosting cancer surgery outcomes. 2018 , 9, 1848	216
1205	Electron donor and acceptor functionalized dithienylethenes: effects of charge density on photochromic properties. 2018 , 20, 14348-14356	10
1204	The influence of nanoparticles on the polarizabilities and hyperpolarizabilities of photochromic molecules. 2018 , 20, 23320-23327	4
1203	An Organometallic Molecular Wire Bearing a Manganese Porphyrin Linker: Coordination-driven Modulation of the Metal-Metal Interaction. 2018 , 47, 1296-1299	1

1202	Light-driven molecular trap enables bidirectional manipulation of dynamic covalent systems. 2018 , 10, 1031-1036	50
1201	Five monocyclic pyridinium derivative based halo-argentate/cuprate hybrids or iodide salts: influence of composition on photochromic behaviors. 2018 , 47, 12172-12180	20
1200	Photoresponsive Chirality-Tunable Supramolecular Metallacycles. 2018 , 39, e1800454	9
1199	A novel fluorescent sensor based on a diarylethene containing a hydrazinylpyridine unit for Cd ²⁺ and Zn ²⁺ with high selectivity. 2018 , 367, 212-218	18
1198	Fluorescence modulation by fast photochromism of a [2.2]paracyclophane-bridged imidazole dimer possessing a perylene bisimide moiety. 2018 , 6, 9523-9531	13
1197	Visible light-triggered fluorescence and pH modulation using metastable-state photoacids and BODIPY. 2018 , 20, 26804-26808	4
1196	Intersystem Crossing as a Key Component of the Nonadiabatic Relaxation Dynamics of Bithiophene and Terthiophene. 2018 , 14, 4530-4540	10
1195	Light-Responsive Pyrazine-Based Systems: Probing Aromatic Diarylethene Photocyclization. 2018 , 122, 19100-19109	10
1194	Mechanistic Aspects of Photoinduced Rearrangement of 2,3-Diarylcyclopentenone Bearing Benzene and Oxazole Moieties. 2018 , 122, 7107-7117	12
1193	Building Strain with Large Macrocycles and Using It To Tune the Thermal Half-Lives of Hydrazone Photochromes. 2018 , 140, 11829-11835	36
1192	Turn-off mode fluorescent norbornadiene-based photoswitches. 2018 , 20, 23195-23201	11
1191	Photoswitching of Copper(I) Chromophores with Dithienylethene-Based Ligands. 2018 , 24, 10315-10319	20
1190	Photochromic DTE-Substituted-1,3-di(2-pyridyl)benzene Platinum(II) Complexes: Photomodulation of Luminescence and Second-Order Nonlinear Optical Properties. 2018 , 57, 7051-7063	32
1189	Triptycene-based porous polymers regulated by diarylethenes. 2018 , 159, 72-76	6
1188	Spectral properties and structure of unsymmetrical diarylethenes based on thiazole ring with hydrogen at the reactive carbon. 2018 , 203, 348-356	2
1187	Reversed photochromism reactivity of malononitrile attached bithienylthene. 2018 , 662, 147-156	2
1186	Synthesis and photochromic properties of coumarin-based dithienylethenes. 2018 , 44, 6489-6495	3
1185	Synthesis, photochromic and fluorescence properties of new bithiazole-containing diarylethenes as cation sensors. 2018 , 203, 568-575	5

1184	Synthesis and characterization of non-symmetrical photoswitchable DTE(OMe) sensitizers. 2018 , 74, 5561-5566	2
1183	Switching of Radiation Force on Optically Trapped Microparticles through Photochromic Reactions of Pyranoquinazoline Derivatives. 2018 , 122, 22033-22040	7
1182	Stereocontrolled self-assembly and photochromic transformation of lanthanide supramolecular helicates. 2018 , 47, 14204-14210	20
1181	Photocoloration in Hybrid Amino Acid Polyoxometalates. 2019 , 2019, 461-468	6
1180	Synthesis, photophysical properties and NIR photochromism of photoresponsive difluoroboron Ediketonate complex based on dithienylethene unit. 2019 , 160, 597-603	18
1179	Crystallization-induced emission of 1,2-bis(3-methyl-5-(4-alkylphenyl)-2-thienyl)perfluorocyclopentenes: A mechanical and thermal recording system. 2019 , 160, 450-456	3
1178	PySCF-NAO: An efficient and flexible implementation of linear response time-dependent density functional theory with numerical atomic orbitals. 2019 , 236, 188-204	7
1177	Photochromic Benzo[b]phosphole Alkynylgold(I) Complexes with Mechanochromic Property to Serve as Multistimuli-Responsive Materials. 2019 , 58, 3027-3031	59
1176	Reversible Photo- and Thermo-responsive, Self-Assembling Azobenzene Containing Zwitterionic Polymers. 2019 , 35, 1465-1474	14
1175	Photochromic Benzo[b]phosphole Alkynylgold(I) Complexes with Mechanochromic Property to Serve as Multistimuli-Responsive Materials. 2019 , 131, 3059-3063	11
1174	Stimuli-chromism of photoswitches in smart polymers: Recent advances and applications as chemosensors. 2019 , 98, 101149	89
1173	Shape-memory effects in molecular crystals. 2019 , 10, 3723	45
1172	Photoswitchable Förster resonance energy transfer (FRET) within a heterometallic Ir-Pt macrocycle. 2019 , 55, 11119-11122	18
1171	Two-Way Chromic Systems Based on Tetraarylanthraquinodimethanes: Electrochromism in Solution and Mechanochromism in a Solid State. 2019 , 92, 1211-1217	14
1170	A novel and durable photochromic cotton-based fabric prepared via thiol-ene click chemistry. 2019 , 171, 107778	24
1169	Ultrafast ring-opening and solvent-dependent product relaxation of photochromic spironaphthopyran. 2019 , 21, 18119-18127	4
1168	Modulating the Charge Transport in 2D Semiconductors via Energy-Level Phototuning. 2019 , 31, e1903402	21
1167	Photoswitchable J-Aggregated Processable Organogel by Integrating a Photochromic Acceptor. 2019 , 84, 10946-10952	8

1166	Adaptable and Reprogrammable Surfaces. 2019 , 31, e1902665	15
1165	Dithienothiophenes at Work: Access to Mechanosensitive Fluorescent Probes, Chalcogen-Bonding Catalysis, and Beyond. <i>Chemical Reviews</i> , 2019 , 119, 10977-11005	68.1 83
1164	Life-like motion driven by artificial molecular machines. 2019 , 3, 536-551	130
1163	Light-Driven Intramolecular C-N Cross-Coupling via a Long-Lived Photoactive Photoisomer Complex. 2019 , 131, 14808-14814	4
1162	Light-Driven Intramolecular C-N Cross-Coupling via a Long-Lived Photoactive Photoisomer Complex. 2019 , 58, 14666-14672	21
1161	Binding of Flavylium Ions to Sulfonatocalix[4]arene and Implication in the Photorelease of Biologically Relevant Guests in Water. 2019 , 84, 10852-10859	19
1160	Crystallization-Induced Emission of Azobenzene Derivatives. 2019 , 131, 14311-14316	10
1159	Molecularly Imprinted Sites Translate into Macroscopic Shape-Memory Properties of Hydrogels. 2019 , 11, 34282-34291	11
1158	Effects of Extension on pyrrole hemithioindigo photoswitches. 2019 , 75, 130466	8
1157	Dual-color fluorescent nanoparticles showing perfect color-specific photoswitching for bioimaging and super-resolution microscopy. 2019 , 10, 3089	48
1156	Object Transportation System Mimicking the Cilia of Paramecium aurelia Making Use of the Light-Controllable Crystal Bending Behavior of a Photochromic Diarylethene. 2019 , 58, 13308-13312	17
1155	Tuneable Redox Chemistry and Electrochromism of Persistent Symmetric and Asymmetric Azine Radical Cations. 2019 , 25, 12981-12990	5
1154	Object Transportation System Mimicking the Cilia of Paramecium aurelia Making Use of the Light-Controllable Crystal Bending Behavior of a Photochromic Diarylethene. 2019 , 131, 13442-13446	6
1153	Synthesis of Functionalized Azobiphenyl- and Azoterphenyl- Ditopic Linkers: Modular Building Blocks for Photoresponsive Smart Materials. 2019 , 8, 743-759	6
1152	Room Temperature Reversible Z-E Photoisomerization of Azobenzene Appended to Anthraquinone-Benzimidazole Based Photoswitches with Resolved n- π Absorption Band. 2019 , 2019, 5768-5776	3
1151	Molecular design for a write-by-light/erase-by-heat recording system using photochromic diarylethenes with thermal cycloreversion. 2019 , 75, 130487	3
1150	Crystallization-Induced Emission of Azobenzene Derivatives. 2019 , 58, 14173-14178	28
1149	Photo-Powered Collapse of Supramolecular Polymers Based on an Overcrowded Alkene Switch. 2019 , 14, 3141-3144	2

1148	Facile synthesis of a photoresponsive AIEgen used for monitoring UV light and photo-patterning. 2019 , 171, 107750	11
1147	Deciphering the grounds of the suitability of acylhydrazones as efficient photoswitches. 2019 , 21, 16075-16082	
1146	Synthesis and switching properties of new derivatives of azoresveratrol. 2019 , 171, 107666	1
1145	Photochromic coumarin spiropyranes with switching of optical properties by lanthanide ions. 2019 , 68, 1223-1231	5
1144	Crystal structure and photochromic properties of a novel photochromic perfluordiarylethene containing a triazole bridged pyridine group moiety, C ₂₄ H ₁₈ F ₆ N ₄ S ₂ . 2019 , 234, 939-941	1
1143	Plasmon Enhanced Optical Responses of Diarylethene Molecules Adsorbed on Gold Nanorods. 2019 , 48, 537-540	5
1142	Dicyanovinyl-substituted D-A type dithienylethenes: Synthesis, photochromism and colorimetric sensing for cyanide anion. 2019 , 95, 109235	12
1141	Deep Molecular Orbital Driven High-Temperature Hydrogen Tautomerization Switching. 2019 , 10, 6755-6761	9
1140	Non-adiabatic molecular dynamics of molecules in the presence of strong light-matter interactions. 2019 , 151, 154109	9
1139	Dual-mode Photochromism of T- and P-types in a Diarylethene Derivative. 2019 , 48, 1476-1479	0
1138	Photoresponsive Luminescent Polymeric Hydrogels for Reversible Information Encryption and Decryption. 2019 , 6, 1901529	98
1137	Modulating Polymer Dispersity with Light: Cationic Polymerization of Vinyl Ethers Using Photochromic Initiators. 2019 , 131, 16356-16362	7
1136	Photochromic diarylethene ligands featuring 2-(imidazol-2-yl)pyridine coordination site and their iron(II) complexes. 2019 , 15, 2428-2437	3
1135	Mono- and bithiophene-substituted diarylethene photoswitches with emissive open or closed forms. 2019 , 15, 2344-2354	6
1134	[Development of External Stimuli-responsive Organic Molecules and the Creation of Novel Photo-functions]. 2019 , 139, 975-986	
1133	Aggregation-induced emission effect on turn-off fluorescent switching of a photochromic diarylethene. 2019 , 15, 2204-2212	3
1132	Photochromic Reaction by Red Light via Triplet Fusion Upconversion. 2019 , 141, 17744-17753	33
1131	Modulation of diarylethene fluorescence by photochromic switching and solvent polarity. 2019 , 29, 564-566	3

1130	Material Transfer and Spontaneous Motion in Mesoscopic Scale with Molecular Technology. 2019 , 187-208	1
1129	1,2-Dithienyldicyanoethene-Based, Visible-Light-Driven, Chiral Fluorescent Molecular Switch: Rewritable Multimodal Photonic Devices. 2019 , 131, 16198-16202	21
1128	Photo-Chromeleon. 2019 ,	10
1127	Excited state dynamics for visible-light sensitization of a photochromic benzil-substituted phenoxy-imidazolyl radical. 2019 , 15, 2369-2379	1
1126	1,2-Dithienyldicyanoethene-Based, Visible-Light-Driven, Chiral Fluorescent Molecular Switch: Rewritable Multimodal Photonic Devices. 2019 , 58, 16052-16056	62
1125	Inorganic/Organic Hybrid Photomechanical Crystals Consisting of Diarylethenes and Cage Siloxanes. 2019 , 31, 9372-9378	14
1124	Photoswitching off the Antiproliferative Activity of Combretastatin A-4 Analogues. 2019 , 21, 9608-9612	8
1123	Syntheses of Benzofuranoquinolines and Analogues via Photoinduced Acceptorless Dehydrogenative Annulation of α -Phenylfuranylpyridines. 2019 , 21, 9183-9187	12
1122	Solid-State Photochromism of Salts of Cationic Spiropyran with Various Anions: A Correlation between Reaction Cavity Volumes and Reactivity. 2019 , 19, 7308-7314	8
1121	Multiple Anti-Counterfeiting Guarantees from a Simple Tetraphenylethylene Derivative \square High-Contrasted and Multi-State Mechanochromism and Photochromism. 2019 , 131, 17978-17983	22
1120	Modulating Polymer Dispersity with Light: Cationic Polymerization of Vinyl Ethers Using Photochromic Initiators. 2019 , 58, 16210-16216	26
1119	Orthogonally Incorporating Dual-Fluorescence Control into Gated Photochromism for Multifunctional Molecular Switching. 2019 , 25, 15281-15287	12
1118	Aldehyde-functionalized dithienylethenes with extended π systems as versatile building blocks for NIR photochromic materials. 2019 , 60, 151166	6
1117	Photochromic Barbiturate Pendant-Containing Benzo \square phosphole Oxides with Co-Assembly Property and Photoinduced Morphological Changes. 2019 , 11, 40290-40299	9
1116	Holography with Photochromic Diarylethenes. 2019 , 12,	5
1115	Ultrafast processes triggered by one- and two-photon excitation of a photochromic and luminescent hydrazone. 2019 , 15, 2438-2446	4
1114	Photostimulus-Responsive Large-Area Two-Dimensional Covalent Organic Framework Films. 2019 , 58, 16101-16104	92
1113	An AIEgen-based luminescent photo-responsive system used as concealed anti-counterfeit material. 2019 , 216, 116750	8

1112	Photo-Control of Molecular Alignment for Photonic and Mechanical Applications. 2019 , 105-127	
1111	Small-Molecule-Based Organic Field-Effect Transistor for Nonvolatile Memory and Artificial Synapse. 2019 , 29, 1904602	102
1110	Photostimulus-Responsive Large-Area Two-Dimensional Covalent Organic Framework Films. 2019 , 131, 16247-16250	11
1109	Multiple Anti-Counterfeiting Guarantees from a Simple Tetraphenylethylene Derivative - High-Contrasted and Multi-State Mechanochromism and Photochromism. 2019 , 58, 17814-17819	108
1108	A Visible-Near-Infrared Light-Responsive Host-Guest Pair with Nanomolar Affinity in Water. 2019 , 25, 3477-3482	23
1107	All-Visible-Light-Activated Dithienylethenes Induced by Intramolecular Proton Transfer. 2019 , 141, 18467-18474	4
1106	Photochromic Performance of 5-Heteroaryl-4-vinyl-2-phenylthiazole Derivatives. 2019 , 92, 1773-1778	
1105	Spin Crossover in Iron(II) Porphyrine Induced by Noncovalent Interactions Combined with Hybridization of Iron(II) Porphyrine and Ligand π Orbitals: CASPT2, CCSD(T), and DFT Studies. 2019 , 123, 23186-23194	4
1104	Target-activated and ratiometric photochromic probe for double-check detection of toxic thiols in live cells. 2019 , 62, 1204-1212	7
1103	Switchable second-order nonlinear optical response of platinum-sensitized dithienylethenes. 2019 , 18, 1950022	
1102	Stimuli-responsive dynamic pseudorotaxane crystals. 2019 , 3, 2258-2269	9
1101	Diarylethene-based conjugated polymer networks for ultrafast photochromic films. 2019 , 43, 15797-15803	4
1100	Blue-/NIR Light-Excited Fluorescence Switch Based on a Carbazole-Dithienylethene-BF ₂ bdk Triad. 2019 , 84, 13364-13373	24
1099	An all-photonic full color RGB system based on molecular photoswitches. 2019 , 10, 3996	44
1098	Molecular design to increase the photosensitivity of photochromic phenoxyimidazolyl radical complexes. 2019 , 3, 2380-2387	4
1097	Two-Step Synthesis of Expanded Maleimides from 3,4-Diphenylfuran-2(5)-ones. 2019 , 84, 12387-12398	9
1096	Photoluminescence ON/OFF Switching of CdSe/ZnS Core/Shell Quantum Dots Coated with Diarylethene Ligands. 2019 , 48, 1394-1397	8
1095	Click chemistry towards thermally reversible photochromic 4,5-bisthiazolyl-1,2,3-triazoles. 2019 , 15, 2161-2169	2

1094	A building-block design for enhanced visible-light switching of diarylethenes. 2019 , 10, 4232	58
1093	Eliminating Fatigue in Surface-Bound Spiropyrans. 2019 , 123, 25908-25914	7
1092	Phenanthroline: A New Electron Acceptor Model for the Design and Syntheses of Photochromic Compounds. 2019 , 19, 6023-6027	9
1091	Photomechanical Azobenzene Crystals. 2019 , 9, 437	38
1090	Fluorescence modulation of eosin Y in a PMMA film by diarylethene switching. 2019 , 29, 285-287	3
1089	Crystal Growth Technique for Formation of Double Roughness Structures Mimicking Lotus Leaf. 2019 , 35, 14124-14132	9
1088	Reversibly Photoswitchable Fluorescent Diarylethenes Resistant against Photobleaching in Aqueous Solutions. 2019 , 141, 16471-16478	44
1087	Dynamic Covalent Switches and Communicating Networks for Tunable Multicolor Luminescent Systems and Vapor-Responsive Materials. 2019 , 141, 16344-16353	24
1086	Amphiphiles as novel solvents for photochromics: stability and photophysical properties. 2019 , 684, 24-36	2
1085	Helicenes as Chiroptical Photoswitches. 2019 , 3, 180-186	9
1084	Diarylethene-based fluorescent and colorimetric chemosensor for the selective detection of Al ³⁺ and CN ⁻ . 2019 , 164, 257-266	34
1083	Visible light intensity dependent negative photochromism of a binaphthyl-bridged phenoxyl-imidazolyl radical complex. 2019 , 55, 1221-1224	15
1082	Elucidating DNA binding of dithienylethenes from molecular dynamics and dichroism spectra. 2019 , 21, 3637-3643	6
1081	New Acylhydrazone Photoswitches with Quantitative Conversion and High Quantum Yield but without Hydrogen Bond Stabilizing (Z)-Isomer. 2019 , 11, 7303-7310	9
1080	Dynamically Switching the Electronic and Electrostatic Properties of Indium Tin Oxide Electrodes with Photochromic Monolayers: Toward Photoswitchable Optoelectronic Devices. 2019 , 2, 1102-1110	15
1079	Structure Switching and Modulation of the Magnetic Properties in Diarylethene-Bridged Metallosupramolecular Compounds by Controlled Coordination-Driven Self-Assembly. 2019 , 131, 4383-4388	6
1078	Photocyclization of diarylethenes: the effect of imidazole on the oxidative photodegradation process. 2019 , 18, 1101-1109	11
1077	1,2-Diarylbenzene as fast T-type photochromic switch. 2019 , 7, 2865-2870	28

1076	Thermally reversible photochromism of dipyrrolylenes. 2019 , 18, 2136-2141	13
1075	Synthesis and Photochemical Study of Thiazolidine Derivatives of Cymantrene and the Corresponding Dicarboxyl Chelates. 2019 , 4, 1613-1617	2
1074	Structure Switching and Modulation of the Magnetic Properties in Diarylethene-Bridged Metallosupramolecular Compounds by Controlled Coordination-Driven Self-Assembly. 2019 , 58, 4339-4344	39
1073	Pendant Photochromic Conjugated Polymers Incorporating a Highly Functionalizable Thieno[3,4-b]thiophene Switching Motif. 2019 , 141, 3146-3152	22
1072	Light-Driven Chiral Switching of Supramolecular Metallacycles with Photoreversibility. 2019 , 5, 634-648	53
1071	A trigonal molecular assembly system with the dual light-driven functions of phase transition and fluorescence switching. 2019 , 7, 2276-2282	11
1070	Perspective Tools for Optogenetics and Photopharmacology: From Design to Implementation. 2019 , 139-172	4
1069	Light-Wavelength-Based Quantitative Control of Dihydrofolate Reductase Activity by Using a Photochromic Isostere of an Inhibitor. 2019 , 20, 1382-1386	5
1068	An o-phthalimide-based multistimuli-responsive aggregation-induced emission (AIE) system. 2019 , 3, 50-56	45
1067	Photoinduced multi-directional deformation of azobenzene molecular crystals. 2019 , 7, 503-508	33
1066	Unveiling anharmonic coupling by means of excited state ab initio dynamics: application to diarylethene photoreactivity. 2019 , 21, 3606-3614	22
1065	Exploring the ultrafast dynamics of a diarylethene derivative using sub-10 fs laser pulses. 2018 , 21, 192-204	12
1064	Photomobile Polymer Materials with Complex 3D Deformation, Continuous Motions, Self-Regulation, and Enhanced Processability. 2019 , 7, 1900380	39
1063	Theoretical insights into the effect of heterocycles of the molecular framework on photochromic magnetic properties of diarylethene compounds. 2019 , 32, e3973	1
1062	Pillar[5]arene-Based Molecular Recognition Induced Crystal-to-Crystal Transformation and Its Application in Adsorption of Adiponitrile in Water. 2019 , 1, 111-115	7
1061	Surface molecular kinetics on the outermost layer characterized by nucleation of Mg-vapor atoms. 2019 , 490, 309-317	2
1060	Spiro-Functionalized Diphenylenes: Suppression of a Reversible Photocyclization Contributes to the Aggregation-Induced Emission Effect. 2019 , 141, 9803-9807	38
1059	Photocontrollable ambipolar transistors with π -conjugated diarylethene photochromic channels. 2019 , 58, SDDH03	5

1058	Novel Amphiphiles and Their Applications for Different Purposes with Special Emphasis on Polymeric Surfactants. 2019 , 4, 6978-6995	20
1057	Photochromic Room Temperature Ionic Liquids Based on Anionic Diarylethene Derivatives. 2019 , 3, 525-528	3
1056	An ionic liquid-modified diarylethene: Synthesis, properties and sensing cyanide ions. 2019 , 1079, 153-163	12
1055	Photocontrolled Single-/Dual-Site Alternative Fluorescence Probes Distinguishing Detection of HS/SO in Vivo. 2019 , 21, 5277-5280	84
1054	Toward Efficient Calculations Using Numerical Atomic Orbitals: Benchmarking and Application to Molecular Dynamics Simulations. 2019 , 15, 4564-4580	6
1053	Controllable Fabrication of In-Series Organic Heterostructures for Optical Waveguide Application. 2019 , 7, 1900373	16
1052	Dual-Controlled Macroscopic Motions in a Supramolecular Hierarchical Assembly of Motor Amphiphiles. 2019 , 131, 11101-11105	3
1051	Light to Shape the Future: From Photolithography to 4D Printing. 2019 , 7, 1900598	88
1050	Photoreversible Interference Color Modulation to Multicolor in Photochromic Molecular Crystals. 2019 , 92, 1299-1304	6
1049	Dithienylethene-functionalized difluoroboron diketonate complexes: Synthesis, photophysical properties and NIR photochromism. 2019 , 94, 257-265	6
1048	Flapping Molecules for Photofunctional Materials. 2019 , 17-51	7
1047	The evolution of spiropyran: fundamentals and progress of an extraordinarily versatile photochrome. 2019 , 48, 3406-3424	211
1046	Reversible ON/OFF switching of photoluminescence from CsPbX quantum dots coated with silica using photochromic diarylethene. 2019 , 55, 8060-8063	18
1045	Dual-Controlled Macroscopic Motions in a Supramolecular Hierarchical Assembly of Motor Amphiphiles. 2019 , 58, 10985-10989	20
1044	A highly selective fluorescent sensor for Ca ²⁺ and Sr ²⁺ based on diarylethene with a furan-carbohydrazide unit. 2019 , 75, 3772-3778	3
1043	Deciphering Erasing/Writing/Reading of Near-Infrared Fluorophore for Nonvolatile Optical Memory. 2019 , 11, 23750-23756	10
1042	pH-Induced Fluorescence and Thermal Relaxation Rate Modulation in a Hydrazone Photoswitch. 2019 , 3, 361-364	8
1041	From One-Pot NH-Sulfoximidations of Thiophene Derivatives to Dithienylethene-Type Photoswitches. 2019 , 21, 4293-4297	16

1040	Reversible Aggregation of Chlorophyll Derivative Induced by Phase Transition of Lipid. 2019 , 35, 7242-7248	5
1039	First-Principle Design of Blatter π Diradicals with Strong Ferromagnetic Exchange Interactions. 2019 , 123, 15186-15194	12
1038	Gold-Catalyzed Highly Chemo- and Regioselective C-H Bond Functionalization of Phenols with Haloalkynes. 2019 , 2019, 3867-3876	16
1037	Light-Controlled Generation of Singlet Oxygen within a Discrete Dual-Stage Metallocycle for Cancer Therapy. 2019 , 141, 8943-8950	88
1036	A Photoswitchable Triple Chemosensor for Cyanide Anion Based on Dicyanovinyl-Functionalized Dithienylethene. 2019 , 2019, 3614-3621	16
1035	Acceleration of photochromism and negative photochromism by the interactions with mesoporous silicas. 2019 , 18, 1742-1749	4
1034	Single-crystalline melem (C ₆ N ₁₀ H ₆) nanorods: a novel stable molecular crystal photocatalyst with modulated charge potentials and dynamics. 2019 , 7, 13234-13241	11
1033	Molecular Technology Toward Expansion of Nucleic Acid Functionality. 2019 , 165-181	
1032	Functionalization of 2D Materials with Photosensitive Molecules: From Light-Responsive Hybrid Systems to Multifunctional Devices. 2019 , 7, 1900286	32
1031	Light-Responsive (Supra)Molecular Architectures: Recent Advances. 2019 , 7, 1900392	17
1030	Photocontrol of peptide secondary structure through non-azobenzene photoswitches. 2019 , 40, 1-20	19
1029	Phase transition of spiropyrans: impact of isomerization dynamics at high temperatures. 2019 , 55, 5813-5816	10
1028	Unusual structural changes as a result of weathering benzofuran-based diarylethenes in simulated sunlight. 2019 , 6, 1961-1966	0
1027	Threading-gated photochromism in [2]pseudorotaxanes. 2019 , 10, 5104-5113	12
1026	Solid-State Photochromism by Molecular Assembly of Bis-o-carboranyl Siloles. 2019 , 25, 8149-8156	3
1025	Photoresponsive Chiral Dopants: Light-Driven Helicity Manipulation in Cholesteric Liquid Crystals for Optical and Mechanical Functions. 2019 , 3, 284-303	24
1024	In Situ Ligand Transformation for Two-Step Spin Crossover in Fe[M(CN)] (M = Mo, Nb) Cyanido-Bridged Frameworks. 2019 , 58, 6052-6063	15
1023	Reversible Photo-Switching of Dual-Color Fluorescent Mn-Doped CdS-ZnS Quantum Dots Modulated by Diarylethene Molecules. 2019 , 7, 145	8

1022	Light-triggered reversible disassembly of stimuli-responsive coordination metallosupramolecular Pd2L4 cages mediated by azobenzene-containing ligands. 2019 , 3, 1238-1243	11
1021	Applications of Photoswitches in the Storage of Solar Energy. 2019 , 3, 268-283	44
1020	Structure Property Analysis of the Solution and Solid-State Properties of Bistable Photochromic Hydrazones. 2019 , 141, 8364-8371	58
1019	Synthesis, Photo-, and Ionochromic Properties of Indolyl(thienyl)maleimides with Terpyridine Receptor. 2019 , 89, 409-415	1
1018	Designing Molecular Photoswitches for Soft Materials Applications. 2019 , 7, 1900404	52
1017	BT-2-BOX: An Assembly toward Multimodal and Multilevel Molecular System Simple as a Breeze. 2019 , 123, 11823-11832	6
1016	Dinuclear ruthenium acetylide complexes with diethynylated anthrahydroquinone and anthraquinone frameworks: a multi-stimuli-responsive organometallic switch. 2019 , 48, 7432-7441	2
1015	Conformer-dependent self-assembled metallacycles with photo-reversible response. 2019 , 10, 4896-4904	13
1014	Energy- and conformer-dependent excited-state relaxation of an E/Z photoswitchable thienyl-ethene. 2019 , 21, 14440-14452	3
1013	Theoretical exploration of second-order nonlinear optical properties of mono- and bimetallic Pt(II) dithienylcyclopentene complexes: Ligands and photoisomerization effect. 2019 , 888, 29-36	6
1012	Successive Photoswitching and Derivatization Effects in Photochromic Dithienylethene-Based Coordination Cages. 2019 , 3, 378-383	25
1011	Functional molecular switches involving tetrapyrrolic macrocycles. 2019 , 387, 325-347	46
1010	Connecting Wires: Photoinduced Electronic Structure Modulation in Metal-Organic Frameworks. 2019 , 141, 5350-5358	53
1009	Photochromic, organogelating and self-sorting behaviour of di-(dithienylethene) derivatives. 2019 , 17, 3285-3291	3
1008	Real-Time Observation of Diarylethene-Based Photoswitches in a Cyclic Peptide Environment. 2019 , 3, 403-410	15
1007	Photomechanical bending behavior of photochromic diarylethene crystals induced under polarized light. 2019 , 21, 2495-2501	14
1006	Easily Prepared and Reusable Films for Fast-Response Rewritable Light Printing. 2019 , 11, 14322-14328	15
1005	A dual-functional fluorescent sensor based on diarylethene for Zn ²⁺ and Al ³⁺ in different solvents. 2019 , 376, 185-195	19

1004	An ensemble of Zn with a rhodamine B-3-allylsalicylaldehyde hydrazone as novel photosensitive material: Photochromism, photopatterning, photoprinting and molecular logic gates. 2019 , 216, 1-6	5
1003	In Situ Photoconversion of Multicolor Luminescence and Pure White Light Emission Based on Carbon Dot-Supported Supramolecular Assembly. 2019 , 141, 6583-6591	104
1002	Mechano- and Photoresponsive Behavior of a Bis(cyanostyryl)benzene Fluorophore. 2019 , 25, 6162-6169	11
1001	The influence of nanoparticles on the excitation energies of the photochromic dihydroazulene/vinylheptafulvene system. 2019 , 21, 6689-6698	5
1000	Humidity driven molecular switch based on photoluminescent DyIII/CoIII single-molecule magnets. 2019 , 7, 4164-4172	21
999	Colour-tunable ultra-long organic phosphorescence of a single-component molecular crystal. 2019 , 13, 406-411	324
998	A novel photochromic metal-organic framework with good anion and amine sensing. 2019 , 48, 6558-6563	38
997	Fast-and-Giant Photorheological Effect in a Liquid Crystal Dimer. 2019 , 6, 1802032	41
996	Synthesis and photochromic behavior of new hybridized 1,3-diazabicyclo[3.1.0]hex-3-ene with tri, and tetraarylimidazole units. 2019 , 167, 89-97	4
995	Switching the Electronic Properties of ZnO Surfaces with Negative T-Type Photochromic Pyridyl-dihdropyrene Layers and Impact of Fermi Level Pinning. 2019 , 6, 1900211	10
994	Fabrication of Robust Spatially Resolved Photochromic Patterns on Cellulose Papers by Covalent Printing for Anticounterfeiting Applications. 2019 , 1, 1240-1250	16
993	Manipulating Spin Transition To Achieve Switchable Multifunctions. 2019 , 52, 1369-1379	59
992	Thermal and Photo Dual-Responsive Core/Shell Polymeric Nanocarriers with Encapsulation of Upconversion Nanoparticles for Controlled Anticancer Drug Release. 2019 , 123, 10658-10665	17
991	Photo-triggered phase transition of a crystal. 2019 , 2,	25
990	Photoswitchable polymerization catalysis: state of the art, challenges, and perspectives. 2019 , 55, 4290-4298	31
989	Photosalient Effect of Diarylethene Crystals of Thiazoyl and Thienyl Derivatives. 2019 , 25, 7874-7880	23
988	Dual Colorimetric/Fluorometric Double-Throw pH-Switches: The Dimroth Rearrangement of N,9-Diaryl 8-Azaadenines. 2019 , 84, 427-431	
987	Light-Controlled in Vitro Gene Delivery Using Polymer-Tethered Spiropyran as a Photoswitchable Photosensitizer. 2019 , 11, 15222-15232	12

986	Photocontrollable Proteins for Optoacoustic Imaging. 2019 , 91, 5470-5477	7
985	Photoisomerization of Pt Complexes Containing Two Different Photochromic Chromophores: Boron Chromophore versus Dithienylethene Chromophore. 2019 , 25, 5757-5767	5
984	Photochromic Diarylethenes Designed for Surface Deposition: From Self-Assembled Monolayers to Single Molecules. 2019 , 84, 564-577	5
983	Construction of Highly Emissive Pt(II) Metallacycles upon Irradiation. 2019 , 37, 323-329	16
982	Modulating the selectivity of a colorimetric sensor based on a Schiff base-functionalized diarylethene towards anions by judicious choice of solvent. 2019 , 375, 9-17	9
981	Single Laser Shot Photoinduced Phase Transition of Rubidium Manganese Hexacyanoferrate Investigated by X-ray Diffraction. 2019 , 2019, 3142-3147	7
980	Photoswitchable probe with distinctive characteristics for selective fluorescence imaging and long-term tracing.. 2019 , 9, 4812-4815	4
979	Unraveling ultrafast dynamics of the photoswitchable bridged dithienylethenes under structural constraints. 2019 , 21, 6407-6414	4
978	Multimodal switching of a redox-active macrocycle. 2019 , 10, 1007	13
977	Cyclization reaction dynamics of an inverse type diarylethene derivative as revealed by time-resolved absorption and fluorescence spectroscopies. 2019 , 21, 8623-8632	8
976	Large-scale synthesis of carbon dots/TiO ₂ nanocomposites for the photocatalytic color switching system. 2019 , 1, 1819-1825	13
975	Photo-writing self-erasable phosphorescent images using poly(N-vinyl-2-pyrrolidone) as a photochemically deoxygenating matrix. 2019 , 55, 4299-4302	9
974	Optically switchable organic light-emitting transistors. 2019 , 14, 347-353	87
973	Design, synthesis and study of a photochromic π -diene: toward new classes of photoswitchable polymers. 2019 , 17, 2486-2491	2
972	Spectral and Kinetic Studies of Photochromic Systems Based on Graphene and Graphene Oxide Nanostructures. 2019 , 127, 1148-1154	2
971	A chiral self-sorting photoresponsive coordination cage based on overcrowded alkenes. 2019 , 15, 2767-2773	12
970	Crystal structure and photochromic properties of 1-(2-methyl-5-phenyl-3-thienyl)-2-{2-methyl-5-[4-(9-fluorenone hydrazone)-phenyl]-3-thienyl}perfluorocyclopentene, C ₄₁ H ₂₆ F ₆ N ₂ S ₂ . 2019 , 234, 979-981	2
969	Photoregulation between small DNAs and reversible photochromic molecules. 2019 , 7, 4944-4962	15

968	Synthesis and photochromism of some mono and bis (thienyl) substituted oxathiine 2,2-dioxides. 2019 , 17, 9578-9584	4
967	Stimuli-responsive supramolecular nano-systems based on pillar[n]arenes and their related applications. 2019 , 7, 7656-7675	27
966	Efficient green light-excited switches based on dithienylethenes with BF-doped π -conjugated systems. 2019 , 55, 13430-13433	22
965	Photoswitching hydrazones based on benzoylpyridine. 2019 , 21, 24749-24757	7
964	Multi-functional switches of ditopic ligands with azobenzene central bridges at a molecular scale. 2019 , 11, 23042-23048	3
963	The light-controlling of temperature-responsivity in stimuli-responsive polymers. 2019 , 10, 5686-5720	83
962	Tuning of Optical Properties and Thermal Cycloreversion Reactivity of Photochromic Diarylbenzene by Introducing Electron-Donating Substituents. 2019 , 123, 31212-31218	12
961	Dual Light and Redox Control of NIR Luminescence with Complementary Photochromic and Organometallic Antennae. 2019 , 141, 20026-20030	16
960	Photo-Lewis Acid Generator Based on Radical-Free 6 π -Photo-Cyclization Reaction. 2019 , 141, 20043-20047	11
959	Imine-based dynamic polymer networks as photoprogrammable amine sensing devices. 2019 , 57, 2378-2382	4
958	Photochromic dithienylethenes characterized by in situ irradiation NMR-spectroscopy and electrochemically induced responsiveness on gold substrates. 2019 , 7, 14088-14097	2
957	A solvent-dependent chemosensor for fluorimetric detection of Hg and colorimetric detection of Cu based on a new diarylethene with a rhodamine B unit.. 2019 , 9, 42155-42162	6
956	A photochemical determination of luminescence efficiency of upconverting nanoparticles. 2019 , 15, 2671-2677	3
955	Photochemical multivariate curve resolution models for the investigation of photochromic systems under continuous irradiation. 2019 , 1053, 32-42	3
954	Light on the Structural Evolution of Photoresponsive Molecular Switches in Electronically Excited States. 2019 , 25, 6252-6258	2
953	Nonlinear and Nonsymmetric Single-Molecule Electronic Properties Towards Molecular Information Processing. 2019 , 107-135	
952	A new highly selective diarylethene with near-infrared fluorochrome unit for sequential detection of copper ion. 2019 , 211, 322-329	5
951	Origin of the Preferential Formation of Helicenes in Mallory Photocyclizations. Temperature as a Tool to Influence Reaction Regiochemistry. 2019 , 84, 817-830	0

950	[Zn(OOCH) ₂ (4,4'-bipyridine)] _n : A metal-organic-framework (MOF) with x-ray-induced photochromic behaviour at room temperature. 2019 , 163, 656-659	14
949	Multi-modulated photochromic behavior of a D-A type dithienylethene. 2019 , 162, 712-720	20
948	Photoconstruction of a Microrelief in a Photochromic Crystalline Spirooxazine Film. 2019 , 48, 32-35	2
947	Ambipolar carrier transport in an optically controllable diarylethene thin film transistor. 2019 , 64, 205-208	12
946	Cr ³⁺ -doped Mg ₄ Ga ₄ Ge ₃ O ₁₆ near-infrared phosphor membrane for optical information storage and recording. 2019 , 777, 991-1000	27
945	A new Turn-on Fluorescent chemosensor for Zn ²⁺ based on a diarylethene derivative and its practical applications. 2019 , 371, 248-254	31
944	Photochemical Chirality Induction and Inversion in Soft Materials. 2019 , 125-166	1
943	Photoresponsive Supramolecular Polymers. 2019 , 45-90	4
942	Soft Crystals: Flexible Response Systems with High Structural Order. 2019 , 25, 5105-5112	166
941	Stereoinformation Relay: Coupling Diastereoselectivity of a Thermal Diels-Alder Reaction with the Photochemical Ring-Closure of Diarylethenes. 2019 , 3, 461-466	
940	Synthesis and the effect of alkyl chain length on photochromic properties of diarylethene derivatives. 2019 , 75, 784-790	4
939	New Bifunctional Diarylethene Sensor for Multianalyte Detection and Al ³⁺ Imaging in Live Cells. 2019 , 4, 309-319	20
938	Photoswitchable Host-Guest Systems Incorporating Hemithioindigo and Spiropyran Units. 2019 , 3, 304-317	10
937	Asymmetric Diarylethenes with Oxidized 2-Alkylbenzothiophen-3-yl Units: Chemistry, Fluorescence, and Photoswitching. 2019 , 7, 1801746	17
936	Photomechanical Organic Crystals as Smart Materials for Advanced Applications. 2019 , 25, 5611-5622	41
935	Metal-Organic Frameworks as Hosts for Fluorinated Azobenzenes: A Path towards Quantitative Photoswitching with Visible Light. 2019 , 25, 3606-3616	27
934	A unimolecular platform based on diarylethene with multiple stimuli-gated photochromism. 2019 , 164, 91-96	10
933	Hybrid Organic/Inorganic Photon-Powered Actuators Based on Aligned Diarylethene Nanocrystals. 2019 , 31, 1016-1022	37

932	Mechanistic Interplay between Light Switching and Guest Binding in Photochromic [PdDithienylethene] Coordination Cages. 2019 , 141, 2097-2103	77
931	A Redox Strategy for Light-Driven, Out-of-Equilibrium Isomerizations and Application to Catalytic C-C Bond Cleavage Reactions. 2019 , 141, 1457-1462	109
930	A Photochromic Benzothiadiazole-Diarylethene System with Tunable On/Off Fluorescence Modulation. 2019 , 3, 396-402	2
929	Reversible Laser Threshold Modulation in Dithienylethene Conjugated Polymer Blends: A Concept for q-Switching in Organic DFB Lasers. 2019 , 6, 558-564	3
928	Solvent-dependent and visible light-activated NIR photochromic dithienylethene modified by difluoroboron β -diketonates as fluorescent turn-on pH sensor. 2019 , 162, 339-347	38
927	Synthesis of amphiphilic asymmetrical dithienylethenes with aryl groups at the reactive carbons. 2019 , 97, 398-405	
926	Externe Umkehr eines Chiralitätstransfers im Photoschalter. 2019 , 131, 1965-1969	4
925	A bifunctional probe for Al ³⁺ and Zn ²⁺ based on diarylethene with an ethylimidazo[2,1-b]thiazole-6-hydrazide unit. 2019 , 60, 106-112	18
924	External Reversal of Chirality Transfer in Photoswitches. 2019 , 58, 1945-1949	19
923	Minute Organic Memory Fabricated by Laser Scanning and Selective Metal-Vapor Deposition of a Diarylethene/Cu Composite Film. 2019 , 5, 1800491	6
922	Nature-Inspired Emerging Chiral Liquid Crystal Nanostructures: From Molecular Self-Assembly to DNA Mesophase and Nanocolloids. 2020 , 32, e1801335	138
921	Post-Modification of the Ethene Bridge in the Rational Design of Photochromic Diarylethenes. 2020 , 20, 51-63	14
920	Radiochromic properties of organic films based on a diarylethene molecule. 2020 , 954, 161828	4
919	Effects of Template and Molecular Nanostructure on the Performance of Organic/Inorganic Photomechanical Actuator Membranes. 2020 , 30, 1902396	4
918	Gated photochromic reactivity of azadithiacrown-ether functionalized diarylethene. 2020 , 172, 107869	8
917	A mild and sequentially Pd/Cu-catalyzed domino synthesis of acidochromic Indolo[3,2-a]carbazoles [Free bases of apocyanine dyes. 2020 , 173, 107890	1
916	Unraveling Dual Aggregation-Induced Emission Behavior in Steric-Hindrance Photochromic System for Super Resolution Imaging. 2020 , 132, 8638-8648	11
915	Unraveling Dual Aggregation-Induced Emission Behavior in Steric-Hindrance Photochromic System for Super Resolution Imaging. 2020 , 59, 8560-8570	42

9 ¹⁴	Polymeric Photoacids Based on Naphthols-Design Criteria, Photostability, and Light-Mediated Release. 2020 , 26, 2365-2379	5
9 ¹³	Unsymmetrical photochromic bithienylethene-bridge tetraphenylethene molecular switches: Synthesis, aggregation-induced emission and information storage. 2020 , 31, 361-364	26
9 ¹²	Tunable fluorescent pyrene/diarylethene-based bistable [3]rotaxane. 2020 , 172, 107800	8
9 ¹¹	Phenanthroline-Based Molecular Switches for Prospective Chemical Grafting: A Synthetic Strategy and Its Application to Spin-Crossover Complexes. 2020 , 59, 2659-2666	7
9 ¹⁰	1,2-Bis- and 1,2,3-tris(2,5-dimethylthiophen-3-yl)azulenes: Synthesis, structure and properties. 2020 , 172, 107843	2
9 ⁰⁹	Photochromic and photocontrolled luminescence properties of two metal-organic frameworks constructed from a naphthalene diimide derivative. 2020 , 172, 107856	15
9 ⁰⁸	Non-Oxido-Vanadium(IV) Metalloradical Complexes with Bidentate 1,2-Dithienylethene Ligands: Observation of Reversible Cyclization of the Ligand Scaffold in Solution. 2020 , 26, 1335-1343	2
9 ⁰⁷	Positional Isomerism Controlled Electronic and Photochromic Properties of Naphthalene Diimide-Based Chlorozincate Hybrids. 2020 , 20, 345-351	20
9 ⁰⁶	Photoinduced Bending of Single Crystals of a Linear Bis-Olefin via Water-Templated Solid-State [2+2] Photopolymerization Reaction. 2020 , 26, 396-400	20
9 ⁰⁵	Photophysics Modulation in Photoswitchable Metal-Organic Frameworks. <i>Chemical Reviews</i> , 2020 , 120, 8790-8813	68.1 142
9 ⁰⁴	Assembly of Molecular Building Blocks into Integrated Complex Functional Molecular Systems: Structuring Matter Made to Order. 2020 , 30, 1907625	22
9 ⁰³	Metal ions-triggered photo-induced fluorescence change in rhodamine B-based photo-responsive complexes. 2020 , 230, 118069	8
9 ⁰²	Reversible Shifting of a Chemical Equilibrium by Light: The Case of Keto-Enol Tautomerism of a β -Ketoester. 2020 , 22, 604-609	5
9 ⁰¹	1,8-Dioxapyrene-based electrofluorochromic supramolecular hyperbranched polymers. 2020 , 56, 383-386	15
9 ⁰⁰	Multi-color emission with orthogonal input triggers from a diarylethene pyrene-OTHO organogelator cocktail. 2020 , 56, 988-991	8
8 ⁹⁹	Mimicking light-sensing chromophore in visual pigments and determination isomerization site. 2020 , 175, 108177	2
8 ⁹⁸	Spin modification of iron(ii) complexes via covalent (dative) and dispersion guided non-covalent bonding with N-heterocyclic carbenes: DFT, DLPNO-CCSD(T) and MCSCF studies. 2020 , 49, 164-170	4
8 ⁹⁷	Chemistry of photoswitching molecules in the confined nanospace of aqueous molecular vessels. 2020 , 49, 1716-1720	7

896	Charge carrier traps in organic semiconductors: a review on the underlying physics and impact on electronic devices. 2020 , 8, 759-787		191
895	Synthesis and fluorescence on/off switching of hyperbranched polymers having diarylethene at the branching point. 2020 , 390, 112341		6
894	Design of Collective Motions from Synthetic Molecular Switches, Rotors, and Motors. <i>Chemical Reviews</i> , 2020 , 120, 310-433	68.1	175
893	Hysteresis Photomodulation via Single-Crystal-to-Single-Crystal Isomerization of a Photochromic Chain of Dysprosium Single-Molecule Magnets. 2020 , 142, 931-936		31
892	Selective Expression of Chromophores in a Single Molecule: Soft Organic Crystals Exhibiting Full-Colour Tunability and Dynamic Triplet-Exciton Behaviours. 2020 , 132, 3768-3774		12
891	Selective Expression of Chromophores in a Single Molecule: Soft Organic Crystals Exhibiting Full-Colour Tunability and Dynamic Triplet-Exciton Behaviours. 2020 , 59, 3739-3745		60
890	Directing the solid-state photochromic and luminescent behaviors of spiromolecules with Dawson and Anderson polyoxometalate units. 2020 , 8, 637-649		5
889	Photomechanical Luminescence from Through-Space Conjugated AIEgens. 2020 , 132, 8913-8917		4
888	Design and synthesis of rare earth organic-inorganic hybrid material based on dawson type polyoxometallate {P2Mo18}. 2020 , 112, 107717		4
887	Mapping Atomic Motions with Electrons: Toward the Quantum Limit to Imaging Chemistry. 2020 , 7, 296-320		8
886	Mechanically Responsive Crystals by Light and Heat. 2020 , 57-82		2
885	Photomechanical Behavior of Photochromic Diarylethene Crystals. 2020 , 1-28		1
884	Structure and photochromic properties of a novel diarylethene containing a 9-fluorenone hydrazone Schiff base moiety. 2020 , 44, 137-141		3
883	Photomechanical Luminescence from Through-Space Conjugated AIEgens. 2020 , 59, 8828-8832		26
882	Phototuning Selectively Hole and Electron Transport in Optically Switchable Ambipolar Transistors. 2020 , 30, 1908944		18
881	Advanced Photoresponsive Materials Using the Metal-Organic Framework Approach. 2020 , 32, e1905227		95
880	Aldehyde-substituted acceptor-DTE-acceptor-type dithienylethene as a versatile building block for near-infrared photochromic materials. 2020 , 44, 108-113		1
879	Photomechanical Crystals Made from Anthracene Derivatives. 2020 , 29-56		

- 878 A non-linear phenomenon observed in the photochromic crystals of a rhodium dithionite complex with n-propyl moieties. **2020**, 49, 1721-1725 3
- 877 Symmetry Breaking and Photomechanical Behavior of Photochromic Organic Crystals. **2020**, 12, 1478 3
- 876 Photochromic and energy storage properties in K_{0.5}Na_{0.5}NbO₃-based ferroelectrics. **2020**, 31, 19277-19292 2
- 875 A hydrogen peroxide activatable nanoprobe for light-controlled "double-check" multi-colour fluorescence imaging. **2020**, 12, 22527-22533 6
- 874 Photoswitchable phosphines in catalysis. **2020**, 12, 5573-5589 5
- 873 Tunable Photomechanics in Diarylethene-Driven Liquid Crystal Network Actuators. **2020**, 12, 47939-47947 12
- 872 8-(Pyridin-2-yl)quinolin-7-ol as a Platform for Conjugated Proton Cranes: A DFT Structural Design. **2020**, 11, 4 4
- 871 Photoluminescent and Chromic Nanomaterials for Anticounterfeiting Technologies: Recent Advances and Future Challenges. **2020**, 14, 14417-14492 109
- 870 Molecular Switches and Motors Powered by Orthogonal Stimuli. **2020**, 2020, 7254-7283 11
- 869 Rapid Access to Dispirocyclic Scaffolds Enabled by Diastereoselective Intramolecular Double Functionalization of Benzene Rings. **2020**, 15, 4271-4274 1
- 868 Cyclization Dynamics and Competitive Processes of Photochromic Perfluorocyclopentene Dithienylethylene in Solution. **2020**, 21, 2223-2229 2
- 867 Photoresponsive Luminescence Switching of Metal-Free Organic Phosphors Doped Polymer Matrices. **2020**, 8, 2000654 12
- 866 Photochromic Rhenium-Based Molecular Rectangles: Syntheses, Structures, Photophysical Properties, and Electrochemistry. **2020**, 59, 15019-15027 4
- 865 Wavelength-Dependent Photochemistry and Biological Relevance of a Bilirubin Dipyrrinone Subunit. **2020**, 85, 13015-13028 5
- 864 Combining Photomodulation and Rectification in Coordination Molecular Wires Based on Dithienylethene Molecular Junctions. **2020**, 124, 26304-26309 4
- 863 The photochromic, electrochemical and third-order nonlinear optical properties of the novel naphthopyran derivatives. **2020**, 183, 108689 1
- 862 The Photoisomerization Pathway(s) of Push-Pull Phenylazoheteroarenes*. **2020**, 26, 14724-14729 3
- 861 Synthesis and photorearrangement of furanone diarylethenes with an additional E₃system. **2020**, 61, 152277 1

860	Photoinduced Changes in Aromaticity Facilitate Electrocyclization of Dithienylbenzene Switches. 2020 , 142, 13941-13953	15
859	Plasmon-Induced Grafting in the Gap of Gold Nanoparticle Dimers for Plasmonic Molecular Junctions. 2020 , 3, 7789-7794	6
858	Photoluminescence On/Off Switching of a Single Colloidal Quantum Dot Using Photochromic Diarylethene. 2020 , 124, 17423-17429	10
857	High response photochromic films based on D-A diarylethenes and their application in holography.. 2020 , 10, 26177-26187	4
856	Unprecedented switching endurance affords for high-resolution surface temperature mapping using a spin-crossover film. 2020 , 11, 3611	14
855	Multicolour photochromic fluorescence of a fluorophore encapsulated in a metal-organic framework. 2020 , 56, 9651-9654	3
854	Advances in Organic Crystal Chemistry. 2020 ,	1
853	Transition Metal Complexes as Photofunctional Materials From Photosensitization and Photochromism to Artificial Photosynthesis and Energy Applications. 2020 , 2-2	1
852	Maximizing Amplified Energy Transfer: Tuning Particle Size and Dye Loading in Conjugated Polymer Nanoparticles. 2020 , 124, 26474-26485	4
851	Reversible Photoinduced Luminescence Modulation from Nanospheres Containing CdSe/ZnS Quantum Dots and Photochromic Diarylethene. 2020 , 124, 27064-27070	5
850	Recent Trends in Elaboration, Processing, and Derivatization of Cellulosic Materials Using Ionic Liquids. 2020 , 8, 17893-17907	18
849	High fatigue resistance of a photochromic dithienylethene embedded into the pores of a metal-organic framework (MOF). 2020 , 19, 1730-1740	5
848	Photo-Modulated Reversible Switching of Fluorescence from ZnO Quantum Dots with a Photochromic Diarylethene. 2020 , 5, 13919-13924	2
847	Light-Gated Modulation of Electronic Mobility of a Dihydropyrene-Based Photochromic Coordination Polymer. 2020 , 12, 52983-52991	2
846	Single-Crystal-to-Single-Crystal [2 + 2] Photocycloaddition Reaction in a Photosalient One-Dimensional Coordination Polymer of Pb(II). 2020 , 142, 20117-20123	27
845	Hochkooperatives Photoschalten in Dihydropyren-Dimeren. 2020 , 132, 19517-19523	0
844	Novel Arylazo-1,2,5-oxadiazole Photoswitches: Synthesis, Photoisomerization and Nitric Oxide Releasing Properties. 2020 , 4, 5346-5354	5
843	Synthesis and photochemical study of tricarbonyl and dicarbonyl derivatives of 3-cymantrenylalkylisothioureas. 2020 , 926, 121465	2

842	Controlling the S Energy Profile by Tuning Excited-State Aromaticity. 2020 , 142, 14985-14992	18
841	Photochromic organic cage-encapsulated Au nanoparticles: light-regulated cavities for catalytic reduction of 4-nitrophenol. 2020 , 49, 12145-12149	3
840	Photoplasticization Behavior and Photoinduced Pressure-Sensitive Adhesion Properties of Various Polymers Containing an Azobenzene-Doped Liquid Crystal. 2020 , 93, 1588-1594	3
839	A novel approach to achieve molecular switching in solid-state driving by thermal treatment: A photochromic zinc-coordination polymer. 2020 , 512, 119879	
838	Dual Emission: Classes, Mechanisms, and Conditions. 2021 , 60, 22624-22638	42
837	Fluorescence Toggling Mechanism of Photochromic Phenylhydrazones: N-N Single Bond Rotation-Assisting / Photoisomerization Differs from Imine. 2020 , 124, 6411-6419	4
836	Noncommutative Switching of Double Spiroprans. 2020 , 124, 6458-6467	0
835	Highly Cooperative Photoswitching in Dihydropyrene Dimers. 2020 , 59, 19352-19358	9
834	Ultrahigh-sensitive fluorescence dosimeters that use turn-on mode fluorescent diarylethenes. 2020 , 61, 152232	1
833	Photochemically Crushable and Regenerative Metal-Organic Framework. 2020 , 142, 14069-14073	7
832	Photoregulated macrocyclic cell-penetrating peptides (microreview). 2020 , 56, 719-721	2
831	Photochromism for optically functionalized organic field-effect transistors: a comprehensive review. 2020 , 8, 10956-10974	19
830	From cyclohexanone to photosensitive polyesters: Synthetic pathway, basic characterization, and photo-/halochromic properties. 2020 , 316, 113888	3
829	Low-power, deformable, dynamic multicolor electrochromic skin. 2020 , 78, 105199	14
828	Toward Two-Photon Absorbing Dyes with Unusually Potentiated Nonlinear Fluorescence Response. 2020 , 142, 14854-14858	8
827	Photofunctions of Dye-Clay Hybrids: Recent Developments. 2020 , 251-320	4
826	Photoinduced Mechanical Motions of Pseudorotaxane Crystals Composed of Azobenzene and Ferrocenyl Groups on an Axle and a Crown Ether Ring. 2020 , 12, 50002-50010	10
825	An Electron lock toward the photochromic activity of phenylacetylene appended bithienylethene. 2020 , 706, 141-149	0

824	Supramolecular chiroptical switches. 2020 , 49, 9095-9120	65
823	Switchable slow relaxation of magnetization in photochromic dysprosium(III) complexes manipulated by a dithienylethene ligand. 2020 , 44, 20129-20136	3
822	Basic enemies of photochromism: irreversible transformation of fluorinated diarylethenes to polyenic enamines and enols. 2020 , 19, 1511-1516	2
821	Photochromic nafion films containing cationic diarylethenes. 2020 , 402, 112831	2
820	Arene Substitution Design for Controlled Conformational Changes of Dibenzocycloocta-1,5-dienes. 2020 , 142, 16651-16660	7
819	Putting Photomechanical Switches to Work: An Multiple Spawning Study of Donor-Acceptor Stenhouse Adducts. 2020 , 11, 7901-7907	11
818	Hydrazones as New Molecular Tools. 2020 , 6, 2162-2173	27
817	Modeling Photonastic Materials: A First Computational Study. 2020 , 16, 7017-7032	1
816	Metal-directed synthesis of quadruple-stranded helical Eu(III) molecular switch: a significant improvement in photocyclization quantum yield. 2020 , 56, 13213-13216	12
815	Flexible C-C Bonds: Reversible Expansion, Contraction, Formation, and Scission of Extremely Elongated Single Bonds. 2020 , 59, 22252-22257	9
814	Flexible C=C Bonds: Reversible Expansion, Contraction, Formation, and Scission of Extremely Elongated Single Bonds. 2020 , 132, 22436-22441	3
813	Circularly polarized luminescence of nanoassemblies via multi-dimensional chiral architecture control. 2020 , 12, 19497-19515	25
812	100th Anniversary of Macromolecular Science Viewpoint: Enabling Advances in Fluorescence Microscopy Techniques. 2020 , 9, 1342-1356	10
811	Trisaminocyclopropenium Cations as Small-Molecule Organic Fluorophores: Design Guidelines and Bioimaging Applications. 2020 , 85, 13997-14011	5
810	Using Active Surface Plasmons in a Multibit Optical Storage Device to Emulate Long-Term Synaptic Plasticity. 2020 , 217, 2000354	1
809	Synthesis strategies for non-symmetric, photochromic diarylethenes. 2020 , 18, 7238-7252	2
808	Chemistry in Action: Making Molecular Movies with Ultrafast Electron Diffraction and Data Science. 2020 ,	0
807	Synthesis, Photophysical, Photochromic, and Photomodulated Resistive Memory Studies of Dithienylethene-Containing Copper(I) Diimine Complexes. 2020 , 59, 14785-14795	2

806	Reversible Magnetic Transition in a Bench-Stable Radical Cation Triggered by Structural Transition in the Magnetically Silent Counteranion. 2020 , 20, 6296-6301	3
805	General Principles for the Design of Visible-Light-Responsive Photoswitches: Tetra-ortho-Chloro-Azobenzenes. 2020 , 59, 21663-21670	36
804	Fusion of aggregation-induced emission and photochromics for promising photoresponsive smart materials. 2020 , 4, 3153-3175	23
803	Photochromic organic solar cells based on diarylethenes.. 2020 , 10, 30176-30185	5
802	Photochromism and Fluorescence Switch of Furan-Containing Tetraarylethene Luminogens with Aggregation-Induced Emission for Photocontrolled Interface-Involved Applications. 2020 , 12, 42410-42419	21
801	Mechanical Properties and Photomechanical Fatigue of Macro- and Nanodimensional Diarylethene Molecular Crystals. 2020 , 20, 6744-6749	12
800	Polymeric nano-carriers for on-demand delivery of genes specific responses to stimuli. 2020 , 8, 9621-9641	13
799	General Principles for the Design of Visible-Light-Responsive Photoswitches: Tetra-ortho-Chloro-Azobenzenes. 2020 , 132, 21847-21854	13
798	Preparation and Insights of Smart Foams with Phototunable Foamability Based on Azobenzene-Containing Surfactants. 2020 , 36, 15423-15429	5
797	Chloro- and BF ₂ bdk-substituted dithienylethene: Synthesis, photophysical properties, and optical switching behavior. 2020 , 174751982095141	1
796	Design, synthesis and applications of responsive macrocycles. 2020 , 3,	9
795	Effect of the position of cyano group in cyano-functionalised diarylethene chiral fluorescent photoswitches on phototunable behaviours of cholesteric liquid crystals. 2020 , 1-10	2
794	Photochromic and fluorescence properties of coumarin fulgimides. 2020 , 44, 1031-1042	
793	Photoinduced swing of a diarylethene thin broad sword shaped crystal: a study on the detailed mechanism. 2020 , 11, 12307-12315	13
792	Metal pattern resolution for fine electrode formation using selective metal-vapor deposition using photochromic diarylethene. 2020 , 59, 061001	1
791	1,2,4,5-Tetrakis(tetramethylguanidino)-3,6-diethynyl-benzenes: Fluorescent Probes, Redox-Active Ligands and Strong Organic Electron Donors. 2020 , 26, 10336-10347	1
790	Photo- and Thermosensitive Molecular Crystals. Valence Tautomeric Interconversion as the Cause of the Photomechanical Effect in Crystals of Bis(dioxolene)cobalt Complex. 2020 , 59, 6679-6683	5
789	Enhancement of Negative Photochromic Properties of Naphthalene-Bridged Phenoxyl-Imidazolyl Radical Complex. 2020 , 21, 1578-1586	1

788	Visible-Light-Driven Photoswitching of Aggregated-Induced Emission-Active Diarylethenes for Super-Resolution Imaging. 2020 , 12, 27651-27662	29
787	Photoreversible Birefringence Change of Diarylethene Single Crystals as Revealed by Change in Molecular Polarizability Anisotropy. 2020 , 124, 4732-4741	5
786	New Donor-Acceptor Stenhouse Adducts as Visible and Near Infrared Light Polymerization Photoinitiators. 2020 , 25,	10
785	Cyclization from Higher Excited States of Diarylethenes Having a Substituted Azulene Ring. 2020 , 26, 11441-11450	2
784	Dynamic Assemblies of Molecular Motor Amphiphiles Control Macroscopic Foam Properties. 2020 , 142, 10163-10172	15
783	Macroscale Light-Controlled Lubrication Enabled by Introducing Diarylethene Molecules in a Nanoconfinement. 2020 , 36, 5820-5828	5
782	Chiral, Thermally Irreversible and Quasi-Stealth Photochromic Dopant to Control Selective Reflection Wavelength of Cholesteric Liquid Crystal. 2020 , 21, 1375-1383	2
781	Regulation of an Ambient-Light-Induced Photocyclization Pathway (Norrish-Yang Versus 6)] by Substituent Choice. 2020 , 26, 12418-12430	2
780	Diarylethene moiety as an enthalpy-entropy switch: photoisomerizable stapled peptides for modulating p53/MDM2 interaction. 2020 , 18, 5359-5369	6
779	Engineering Optically Switchable Transistors with Improved Performance by Controlling Interactions of Diarylethenes in Polymer Matrices. 2020 , 142, 11050-11059	24
778	Octacyanidorhenate(V) Ion as an Efficient Linker for Hysteretic Two-Step Iron(II) Spin Crossover Switchable by Temperature, Light, and Pressure. 2020 , 59, 15741-15749	33
777	Ultrafast processes in photochromic material YHxOy studied by excited-state density functional theory simulation. 2020 , 63, 1579-1587	9
776	Driving Smart Molecular Systems by Artificial Molecular Machines. 2020 , 2, 1900169	8
775	Norbornadiene-bridged diarylethenes and their conversion into turn-off fluorescent photoswitches. 2020 , 56, 7124-7127	6
774	A thermoresponsive fluorophore based on a photochromic diarylethene having donor-acceptor moieties. 2020 , 56, 6492-6494	3
773	Photoresponsivity and antibiotic sensing properties of an entangled tris(pyridinium)-based metal-organic framework. 2020 , 49, 7488-7495	24
772	Turn-on mode fluorescent diarylethenes: effect of electron-donating and electron-withdrawing substituents on photoswitching performance. 2020 ,	11
771	Novel linen/polyethyleneimine/sodium decadecanate photochromic fabric prepared by layer-by-layer self-assembly method. 2020 , 27, 6591-6602	7

770	Optical microresonator arrays of fluorescence-switchable diarylethenes with unreplicable spectral fingerprints. 2020 , 7, 1801-1808	19
769	Visible Light-Enabled sp ² -C-H Functionalization with Chloro- and Bromoalkynes: Chemoselective Route to Vinylchlorides or Alkynes. 2020 , 26, 15573-15580	9
768	A dual-emitting inorganic-organic hybrid material with emission intensity enhanced via electron-transfer photochromism. 2020 , 181, 108441	8
767	Efficient Photomodulation of Visible Eu(III) and Invisible Yb(III) Luminescences using DTE Photochromic Ligands for Optical Encryption. 2020 , 30, 2002943	19
766	Light-driven coordination anions-directed regulation of chromism in three metal complexes assembled by cyano-equipped dithienylethene ligand. 2020 , 509, 119666	
765	Reversible Luminescence Photoswitching of Colloidal CsPbBr ₃ Nanocrystals Hybridized with a Diarylethene Photoswitch. 2020 , 2, 727-735	7
764	Nanosecond laser photothermal effect-triggered amplification of photochromic reactions in diarylethene nanoparticles. 2020 , 56, 7088-7091	7
763	Restriction of the conrotatory motion in photo-induced 6π electrocyclic reaction: formation of the excited state of the closed-ring isomer in the cyclization.. 2020 , 10, 20038-20045	2
762	Theoretical study of cyclohexadiene/hexatriene photochemical interconversion using spin-Flip time-Dependent density functional theory. 2020 , 118, e1764120	7
761	Ultrafast Photoemission Electron Microscopy: Imaging Plasmons in Space and Time. <i>Chemical Reviews</i> , 2020 , 120, 6247-6287	68.1 32
760	Switching the Mallory Reaction to Synthesis of Naphthalenes, Benzannulated Heterocycles, and Their Derivatives. 2020 , 85, 8749-8759	9
759	Direct synthesis of variously substituted negative photochromes of hydroxytricyanopyrrole (HTCP) series. 2020 , 50, 2413-2421	2
758	Systematic studies of structural variations in terarylene photohydride generators. 2020 , 397, 112594	0
757	Thermosalience in Macrocyclic-Based Soft Crystals via Anisotropic Deformation of Disilanyl Architecture. 2020 , 142, 12651-12657	22
756	Synthesis and fluorescence photoswitching of a diarylethene derivative having a dibenzoylmethanato boron difluoride complex. 2020 , 61, 152108	3
755	Efficient luminescence control in dithienylethene functionalized cyclen macrocyclic lanthanide complexes. 2020 , 7, 2979-2989	5
754	A Mixed-Valence {Fe ₁₃ } Cluster Exhibiting Metal-to-Metal Charge-Transfer-Switched Spin Crossover. 2020 , 132, 16535	
753	A Mixed-Valence {Fe } Cluster Exhibiting Metal-to-Metal Charge-Transfer-Switched Spin Crossover. 2020 , 59, 16393-16397	7

- 752 Geometrical Evolution and Formation of the Photoproduct in the Cycloreversion Reaction of a Diarylethene Derivative Probed by Vibrational Spectroscopy. **2020**, 21, 1524-1530 3
- 751 Photomechanical materials driven by photoisomerization or photodimerization. **2020**, 52, 1027-1034 8
- 750 Photoinduced Strain-Assisted Synthesis of a Stiff-Stilbene Polymer by Ring-Opening Metathesis Polymerization. **2020**, 26, 14828-14832 2
- 749 Mechanistic Insights into the Triplet Sensitized Photochromism of Diarylethenes. **2020**, 26, 7672-7677 10
- 748 Fluorescence to multi-colored phosphorescence interconversion of a novel, asterisk-shaped luminogen via multiple external stimuli. **2020**, 56, 4336-4339 11
- 747 Mechanical Actuation and Patterning of Rewritable Crystalline Monomer-Polymer Heterostructures via Topochemical Polymerization in a Dual-Responsive Photochromic Organic Material. **2020**, 12, 16856-16863 ¹⁴ 14
- 746 Understanding the properties of dithienylethenes functionalized for supramolecular self-assembly: a molecular modeling study. **2020**, 22, 6942-6952 5
- 745 Visible light responsive donor-acceptor stenhouse adducts with indoline-tri/tetra-phenylethylene chromophore: Synthesis, aggregation-induced emission, photochromism and solvent dependence effect. **2020**, 178, 108352 14
- 744 Stiff-Stilbene Photoswitches: From Fundamental Studies to Emergent Applications. **2020**, 59, 13192-13202 39
- 743 Catalytic Light-Triggered Reduction Promoted by a Dithienylethene Derivative. **2020**, 26, 13359-13362 2
- 742 Synthesis and properties of a photochromic perinaphthothioindigo conjugated with two porphyrins. **2020**, 24, 1030-1037
- 741 Photoluminescent and Photoresponsive Iptycene-Incorporated π -Conjugated Systems: Fundamentals and Applications. **2020**, 4, 538-563 6
- 740 Fast visible light-induced synthesis of annulated perylene bisimides. **2020**, 178, 108372 2
- 739 Stiff-Stilbene Photoswitches: From Fundamental Studies to Emergent Applications. **2020**, 132, 13292-13302 9
- 738 Red or Near-Infrared Light Operating Negative Photochromism of a Binaphthyl-Bridged Imidazole Dimer. **2020**, 142, 7995-8005 19
- 737 Solid-state photoswitching molecules: structural design for isomerization in condensed phase. **2020**, 6, 100058 39
- 736 Giant Single-Crystal Shape Transformation with Wide Thermal Hysteresis Actuated by Synergistic Motions of Molecular Cations and Anions. **2020**, 26, 6778-6783 5
- 735 Crystal actuator based on a thermal phase transition and photothermal effect. **2020**, 8, 4876-4884 11

734	Crystal structure and photochromism of 1-(2,5-dimethyl-3-thienyl)-2-[2-methyl-5-(benzaloxime)-3-thienyl] perfluorocyclopentene, C ₂₃ H ₁₇ F ₆ NOS ₂ . 2020 , 235, 505-507	1
733	The Future of Molecular Machines. 2020 , 6, 347-358	99
732	Sterically hindered diarylethenes with thienopyridine: Substituent position effect on photochromic properties. 2020 , 182, 108620	3
731	Recent progress in all-visible-light-triggered diarylethenes. 2020 , 182, 108623	25
730	Photoresponsive Dithienylethene-Containing Tris(8-hydroxyquinolinato)aluminum(III) Complexes with Photocontrollable Electron-Transporting Properties for Solution-Processable Optical and Organic Resistive Memory Devices. 2020 , 142, 12193-12206	21
729	A novel diarylethene probe with high selective recognition of CN ⁻ and Mg ²⁺ and its application. 2020 , 401, 112754	2
728	Fast Photochromism of the Imidazole Dimers Bridged by Group 14 Atoms. 2020 , 22, 5680-5684	2
727	Rational design of reversibly photochromic molecules with aggregation-induced emission by introducing photoactive thienyl and benzothienyl groups. 2020 , 8, 13197-13204	25
726	Organic Room-Temperature Phosphorescent Materials: From Static to Dynamic. 2020 , 11, 6191-6200	34
725	Substituent Effect Induces Emission Modulation of Stilbene Photoswitches by Spatial Tuning of the N/B Electronic Constraints. 2020 , 22, 5758-5762	10
724	Cu(II)-Catalyzed 6E Photocyclization of Non-6E Substrates. 2020 , 22, 5502-5505	4
723	Modulation of porosity in a solid material enabled by bulk photoisomerization of an overcrowded alkene. 2020 , 12, 595-602	29
722	Octacyanidorhenate(V) Ion as an Efficient Linker for Hysteretic Two-Step Iron(II) Spin Crossover Switchable by Temperature, Light, and Pressure. 2020 , 132, 15871-15879	5
721	Self-assembly of an alkynylpyrene derivative for multi-responsive fluorescence behavior and photoswitching performance. 2020 , 16, 7390-7399	8
720	Photoreductive BiOCl Ultrathin Nanosheets for Highly Efficient Photocatalytic Color Switching. 2020 , 12, 8604-8613	18
719	Recent advances in light-regulated non-radical polymerisations. 2020 , 49, 1867-1886	24
718	Generation of Schubert polynomial series via nanometre-scale photoisomerization in photochromic single crystal and double-probe optical near-field measurements. 2020 , 10, 2710	5
717	Metal-like Ductility in Organic Plastic Crystals: Role of Molecular Shape and Dihydrogen Bonding Interactions in Aminoboranes. 2020 , 59, 10971-10980	32

716	Interface Engineering in Organic Field-Effect Transistors: Principles, Applications, and Perspectives. <i>Chemical Reviews</i> , 2020 , 120, 2879-2949	68.1	92
715	Metal-like Ductility in Organic Plastic Crystals: Role of Molecular Shape and Dihydrogen Bonding Interactions in Aminoboranes. 2020 , 132, 11064-11073		14
714	A simplicity-guided cocktail approach toward multicolor fluorescent systems. 2020 , 56, 3377-3380		8
713	A deeper look into the photocycloreversion of a yellow diarylethene photoswitch: why is it so fast?. 2020 , 22, 5408-5412		4
712	Effect of donor-acceptor structure on photochromism of dithienylethene-based dyes. 2020 , 177, 108315		6
711	Primary processes in photochemistry of 2,3-bis(2,5-dimethylthiophen-3-yl)cyclopent-2-enone. 2020 , 30, 61-63		1
710	Preparation and properties of multifunctional tetraarylethenes and their oxides. 2020 , 177, 108264		2
709	A clustering-triggered emission strategy for tunable multicolor persistent phosphorescence. 2020 , 11, 2926-2933		65
708	Mechanism of photochromic transformations and photodegradation of an asymmetrical 2,3-diarylcyclopentenone. 2020 , 22, 5220-5228		5
707	Quinoline-containing diarylethenes: bridging between turn-on fluorescence, RGB switching and room temperature phosphorescence. 2020 , 11, 2729-2734		14
706	Recent Advances and a Roadmap to Wearable UV Sensor Technologies. 2020 , 5, 1901036		42
705	Multifunctional naphthalene diimide-based coordination polymers: Photochromism and solvatochromism. 2020 , 177, 108269		18
704	Reversible single-crystal-to-single-crystal conversion of a photoreactive coordination network for rewritable optical memory storage. 2020 , 56, 1984-1987		22
703	Multicolour fluorescent "sulfide-sulfone" diarylethenes with high photo-fatigue resistance. 2020 , 56, 2198-2201		8
702	Mechanism of the photo triggered ring-opening reaction of spiropyran derivatives (SP-X1-7; X1-7 = H, NO ₂ , CF ₃ , CN, OH, OMe and NMe ₂) in the gas phase and various solvent media: A GD3-TD-DFT approach. 2020 , 392, 112410		3
701	Light-controllable dithienylethene-modified cyclic peptides: photoswitching the in vivo toxicity in zebrafish embryos. 2020 , 16, 39-49		13
700	Controlling Metallophilic Interactions in Chiral Gold(I) Double Salts towards Excitation Wavelength-Tunable Circularly Polarized Luminescence. 2020 , 59, 6915-6922		31
699	Synthesis and characterization of gated photochromic diarylethene functionalized with dipicolylamine. 2020 , 176, 108202		2

698	Chemo- and biosensing applications of spiropyran and its derivatives - A review. 2020 , 1110, 199-223	45
697	A Computational Strategy for the Design of Photochromic Derivatives Based on Diarylethene and Nickel Dithiolene with Large Contrast in Nonlinear Optical Properties. 2020 , 124, 4221-4241	13
696	Photosynergetic amplification of radiation input: from efficient UV induced cycloreversion to sensitive X-ray detection. 2020 , 11, 2504-2510	10
695	Controlling Metallophilic Interactions in Chiral Gold(I) Double Salts towards Excitation Wavelength-Tunable Circularly Polarized Luminescence. 2020 , 132, 6982-6989	9
694	A dominant factor of the cycloreversion reactivity of diarylethene derivatives as revealed by femtosecond time-resolved absorption spectroscopy. 2020 , 152, 034301	8
693	A diarylethene annulated isomer as a highly-conductive molecular wire evaluated by the exchange interaction between two nitroxides. 2020 , 56, 2447-2450	1
692	Inorganic/Organic Hybrid Photomechanical Crystals of Azobenzene-modified Polyhedral Oligomeric Silsesquioxane (POSS). 2020 , 49, 327-329	2
691	Core structure dependence of cycloreversion dynamics in diarylethene analogs. 2020 , 22, 3314-3328	3
690	Simultaneous Optical Tuning of Hole and Electron Transport in Ambipolar WSe Interfaced with a Bicomponent Photochromic Layer: From High-Mobility Transistors to Flexible Multilevel Memories. 2020 , 32, e1907903	19
689	Theoretical investigation on radical anion promoted electrocyclization in photochromes. 2020 , 97, 107550	1
688	Planarization-Induced Activation Wavelength Red-Shift and Thermal Half-Life Acceleration in Hydrazone Photoswitches. 2020 , 9, 191-194	7
687	Dithienylethene-bridged difluoroboron Ediketonate dyes: Optical switching behaviors and triple sensing for volatile amine vapors. 2020 , 179, 108419	12
686	Photochromic Radical Complexes That Show Heterolytic Bond Dissociation. 2020 , 142, 10132-10142	8
685	Circularly Polarized Luminescence of Isolated Small Organic Molecules. 2020 ,	37
684	Controlling Photophysical Properties of Systems Containing Multiple BODIPY Units Linked by Methylene Bridge. 2020 , 124, 9056-9067	5
683	Regiodivergent Synthesis of Bis(4-oxycoumarin)-based Dioxabicycles: Exploration of [4 + 4] (Heterocyclo)reversion/addition and 1,5-Hydrogen Shift Photochromism. 2020 , 22, 3166-3170	5
682	Highly Efficient Photoswitch in Diarylethene-Based Molecular Junctions. 2020 , 142, 7732-7736	31
681	Improving photosensitivity without changing thermal reactivity in photochromic diarylbenzenes based on accurate prediction by DFT calculations. 2020 , 19, 644-653	4

- 680 Halogen-sensitive solvatochromism based on a phenolic polymer of tetraphenylethene.. **2020**, 10, 12695-12698
- 679 Isomerization behavior of diarylethene-type photochromic compounds under X-ray irradiation: application to dosimetry. **2020**, 59, 046004 1
- 678 Ring-Fused 1,4-Dihydro[1,2,4]triazin-4-yls through Photocyclization. **2020**, 22, 3835-3840 10
- 677 Arylazopyrazoles for Long-Term Thermal Energy Storage and Optically Triggered Heat Release below 0 °C. **2020**, 142, 8688-8695 50
- 676 Imidazole diarylethene switches: an alternative to acid-gated photochromism. **2020**, 44, 8061-8067 1
- 675 Modeling of Stripe Patterns in Photosensitive Azopolymers. **2020**, 12, 5
- 674 Photochromic Conjugated Microporous Polymer Manifesting Bio-Inspired pcFRET and Logic Gate Functioning. **2020**, 12, 20991-20997 17
- 673 A light triggered optical and chiroptical switch based on a homochiral Eu2L3 helicate. **2020**, 8, 6788-6796 14
- 672 From a mononuclear FeL2 complex to a Fe4L4 molecular square: Designed assembly and spin-crossover property. **2021**, 14, 398-403 2
- 671 Recent Process of Flexible Transistor-Structured Memory. **2021**, 17, e1905332 36
- 670 Acylhydrazones liquid crystals: effect of structure over thermal behaviour and molecular switching. **2021**, 48, 88-99 2
- 669 Spectroscopic Study of the E/Z Photoisomerization of a New Cyrhetyrenyl Acylhydrazone: A Potential Photoswitch and Photosensitizer. **2021**, 97, 61-70 3
- 668 Fluorescent Photochromic Cyanodiarylethene Molecular Switches: An Emerging and Promising Class of Functional Diarylethene. **2021**, 31, 2007957 47
- 667 A methyl viologen-containing cadmium crystalline material with photochromism and methylamine sensing properties. **2021**, 293, 121755 9
- 666 High transmittance and optical storage behaviors in Tb³⁺ doped K_{0.5}Na_{0.5}NbO₃-based ferroelectric materials. **2021**, 41, 1211-1220 11
- 665 Stimuli-responsive photofunctional materials for green and security printing. **2021**, 3, 82-100 12
- 664 Photochromic properties of ruthenium complexes with dithienylethene-ethynylthiophene. **2021**, 184, 108750 2
- 663 Duale Emission: Klassen, Mechanismen und Bedingungen. **2021**, 133, 22804 2

- 662 Energy manipulation and metal-assisted photochromism in photochromic metal complex. **2021**, 427, 213579 21
- 661 Dithienylethene-bridged gold(I) isocyanide complexes: Synthesis, photochromism and Turn-on fluorescent switching behavior. **2021**, 185, 108933 4
- 660 Effect of positional isomerism on electron-transfer photochromism and photoluminescence of two pyromellitic diimide-based organic molecules. **2021**, 186, 108941 6
- 659 Multifunctional organic field effect transistors constructed with photochromic molecules. **2021**, 5, 1060-1075 10
- 658 Light-responsive color switching of self-doped TiO₂/WO₃·3.33H₂O hetero-nanoparticles for highly efficient rewritable paper. **2021**, 14, 165-171 11
- 657 Facile access to photo-switchable, dynamic-optical, multi-colored and solid-state materials from carbon dots and cellulose for photo-rewritable paper and advanced anti-counterfeiting. **2021**, 406, 126794 17
- 656 High-Preservation Single-Cell Operation through a Photo-responsive Hydrogel-Nanopipette System. **2021**, 60, 5157-5161 18
- 655 Through-Space C⁺Br⁻Halogen Interaction: Efficient Modulation of Reaction-Based Photochromism and Photoluminescence at Crystalline States for Irradiation Time-Dependent Anti-Counterfeiting. **2021**, 31, 2009024 7
- 654 Tuning the Photophysical Properties of Spirolactam Rhodamine Photoswitches. **2021**, 61, 244-252 5
- 653 Measurement of glass-transition temperature of thermoreversible photochromic materials based on mechanochemical amorphization. **2021**, 186, 109069 1
- 652 Synthesis and photochromism of dithienylethene-based isocyanide and gold (I) complexes with various alkyl chains. **2021**, 186, 108964 1
- 651 Photoresponsive porous materials. **2021**, 3, 24-40 15
- 650 Theoretical study on the photocyclization reactivity mechanism in a diarylethene derivative with multicolour fluorescence modulation. **2021**, 406, 113024 0
- 649 One molecule, two states: Single molecular switch on metallic electrodes. **2021**, 11, e1511 3
- 648 Light-stimulated molecular and supramolecular systems for information processing and beyond. **2021**, 429, 213695 13
- 647 High-Preservation Single-Cell Operation through a Photo-responsive Hydrogel-Nanopipette System. **2021**, 133, 5217-5221 3
- 646 Structural Transition Dynamics in Carbon Electrode-Based Single-Molecule Junctions. **2021**, 39, 223-231 5
- 645 Fatigue and fatigue resistance in S₁ excited state diarylethenes in electric fields. **2021**, 121, e26527 4

644	Photoswitchable Metal-Organic Framework Thin Films: From Spectroscopy to Remote-Controllable Membrane Separation and Switchable Conduction. 2021 , 37, 2-15	6
643	Aggregation-mediated photo-responsive luminescence of cyanostilbene based cruciform AIEgens. 2021 , 9, 975-981	2
642	New bis-photochromic compounds based on diarylimidazoles: Synthesis and multistimuli-responsive optical properties. 2021 , 36, 684-690	1
641	Near-infrared light-induced photoisomerization and photodissociation of a chiral fluorescent photoswitch in cholesteric liquid crystals assisted by upconversion nanoparticles. 2021 , 17, 1404-1408	6
640	A highly selective diarylethene fluorescence sensor of aluminum ion and its application. 2021 , 405, 112958	5
639	Stepwise Assembly of Ultrathin Poly(vinyl alcohol) Films on Photoresponsive Diarylethene Crystals. 2021 , 50, 84-86	4
638	Thermochromic Color Switching to Temperature Controlled Volatile Memory and Counter Operations with Metal-Organic Complexes and Hybrid Gels. 2021 , 133, 459-469	0
637	Autopolymerization of 2-bromo-3-methoxythiophene, analysis of reaction products and estimation of polymer structure. 2021 , 53, 429-438	1
636	A MC-spiropyran for smartphone assisted reversible, selective and nanomolar level detection of formic acid in water and gas phase. 2021 , 1223, 129249	8
635	Thermochromic Color Switching to Temperature Controlled Volatile Memory and Counter Operations with Metal-Organic Complexes and Hybrid Gels. 2021 , 60, 455-465	10
634	Let the light be a guide: Chromophore communication in metal-organic frameworks. 2021 , 14, 338-354	18
633	Towards Responsive Single-Molecule Device. 2021 , 39, 421-439	2
632	Efficient NIR-I fluorescence photoswitching based on giant fluorescence quenching in photochromic nanoparticles. 2021 , 57, 5422-5425	2
631	Molecular crystalline capsules that release their contents by light. 2021 , 12, 11585-11592	5
630	One-way photoisomerization of ligands for permanent switching of metal complexes. 2021 , 9, 4757-4763	1
629	Fluorescence Switchable Conjugated Polymer Microdisk Arrays by Cosolvent Vapor Annealing. 2021 , 13,	2
628	Photoresponsive frameworks: energy transfer in the spotlight. 2021 , 231, 266-280	4
627	Remote Control of Near Infrared Emission with Lanthanide Complexes. 2021 , 5, 393-405	3

- 626 Taming the excited state reactivity of imines - from non-radiative decay to aza Paternò-Büchi reaction. **2021**, 50, 1617-1641 17
- 625 A color-tunable single-component luminescent molecule with multiple emission centers. **2021**, 12, 9201-9206 13
- 624 Rational design of photochromic diarylbenzene with both high photoreactivity and fast thermal back reactivity. 2
- 623 Light-mediated chiroptical switching of an achiral foldamer host in presence of a carbohydrate guest. **2021**, 57, 93-96 4
- 622 Tailoring effects of the chain length and terminal substituent on the photochromism of solid-state spiropyrans. **2021**, 19, 8722-8726 1
- 621 Photochemical rearrangements in organic synthesis and the concept of the photon as a traceless reagent. **2021**, 283-328 3
- 620 A multifunctional colorimetric sensor originating from a cadmium naphthalene diimide-based metal-organic framework: photochromism, hydrochromism, and vapochromism. **2021**, 23, 4513-4521 5
- 619 AIE Ligand Constructed Zn(II) Complex with Reversible Photo-induced Color and Emission Changes. **2021**, 37, 123-128 1
- 618 A dual-mode visual detector for toxic hydrazine.. **2021**, 11, 22835-22841 2
- 617 Acid-catalysed liquid-to-solid transitioning of arylazoisoxazole photoswitches. **2021**, 12, 11338-11346 2
- 616 Multicomponent one-pot synthesis of novel imidazole-2-thione derivatives containing allomaltol fragment. **2021**, 58, 864-872 0
- 615 Diastereoselective self-assembly of a triple-stranded europium helicate with light modulated chiroptical properties. **2021**, 50, 4604-4612 4
- 614 Controlling dynamic magnetic properties of coordination clusters via switchable electronic configuration. **2021**, 50, 6832-6870 8
- 613 Functionalisation of MoS₂ 2D layers with diarylethene molecules. **2021**, 9, 10975-10984 4
- 612 Carborane photochromism: a fatigue resistant carborane switch. **2021**, 57, 9466-9469 1
- 611 Recent Advances on Supramolecular Gels: From Stimuli-Responsive Gels to Co-Assembled and Self-Sorted Systems. **2021**, 03, 025-040 7
- 610 Responsive organoboranes with dynamic conformation of octacyclophane-type scaffolds: synthesis, AIE and temperature-dependent dual emissions. 1
- 609 Cucurbituril-activated photoreaction of dithienylethene for controllable targeted lysosomal imaging and anti-counterfeiting. **2021**, 8, 2494-2502 5

608 Photochromism. **2021**, 263-281

607 A new color in green chemistry: Photochromic molecular switches as components of multifunctional catalytic systems. **2021**, 241-282

606 Redesigning donor-acceptor Stenhouse adduct photoswitches through a joint experimental and computational study. **2021**, 12, 2916-2924

605 Photoreversible Loading and Unloading of Q²Bilsesquioxane Dynamic Network Sponges. **2021**, 31, 2010114

604 Photomechanical response of sulfonylhydrazone molecular crystals. **2021**, 23, 4910-4916

603 Quasi single-crystalline transformation of porous frameworks accompanied by interlayer rearrangements of hydrogen bonds. **2021**, 57, 8568-8571

602 An ultraviolet excitation anti-counterfeiting material of Sb³⁺ doped Cs₂ZrCl₆ vacancy-ordered double perovskite. **2021**, 8, 4035-4043

601 Enhanced reversible solid-state photoswitching of a cationic dithienylethene assembled with a polyoxometalate unit.

600 Regio- and stereoselective electrochemical synthesis of sulfonylated enethers from alkynes and sulfonyl hydrazides. **2021**, 23, 2420-2426

599 Modulating Fading Time of Photochromic Compounds by Molecular Design for Erasable Inkless Printing and Anti-counterfeiting. **2021**, 21, 1323-1328

598 Photochemical solid-state reactions. **2021**, 189-203

597 A plastically bendable and polar organic crystal. **2021**, 23, 5560-5563

596 Multidimensional Information Encryption and Storage: When the Input Is Light. **2021**, 2021, 7897849

595 Trace mild acid-catalysed α -isomerization of norbornene-fused stilbene derivatives: intelligent chiral molecular photoswitches with controllable self-recovery. **2020**, 12, 2614-2622

594 A modular approach to mechanically gated photoswitching with color-tunable molecular force probes. **2021**, 12, 11703-11709

593 Molecular platforms based on biocompatible photoreactions for photomodulation of biological targets. **2021**, 19, 9358-9368

592 Carbon Spacer Strategy: Control the Photoswitching Behavior of Donor-Acceptor Stenhouse Adducts. **2021**, 37, 802-809

591 Reversible Thermosalience in a One-Dimensional Coordination Polymer Preceded by Anisotropic Thermal Expansion and the Shape Memory Effect. **2021**, 143, 2088-2096

590	Stabilization of ultra-small gold nanoparticles in a photochromic organic cage: modulating photocatalytic CO ₂ reduction by tuning light irradiation. 2021 , 9, 5780-5786	6
589	Azulene as an ingredient for visible-light- and stimuli-responsive photoswitches. 2021 , 19, 4460-4468	3
588	Rapid amplitude-modulation of a diarylethene photoswitch: en route to contrast-enhanced fluorescence imaging. 2021 , 12, 7073-7078	4
587	Regioisomeric AIE-active luminogens with a substituent aldehyde group for controllable and reversible photochromic behavior and sensitive fluorescence detection of hydrogen sulfite. 2021 , 9, 3882-3891	8
586	A simple strategy to overcome concentration dependence of photoswitching properties in donor-acceptor Stenhouse adducts. 2021 , 23, 2775-2779	2
585	Photoswitchable Fluorescent Self-Assembled Metallacycles with High Photostability. 2021 , 27, 5240-5245	5
584	Optical properties of solute molecules: Environmental effects, challenges, and their practical implications. 2021 , 161, 105797	2
583	General Landau theory of non-symmetry-breaking and symmetry-breaking spin transition materials. 2021 , 129, 085106	9
582	Chromic Platinum Complexes Containing Multidentate Ligands. 2021 , 2021, 894-906	7
581	Mechanically Responsive Soft Crystals Induced by Light and Heat. 2021 , 63, 31-37	
580	Dithienylethene-Based Photoswitchable Catalysts: State of the Art and Future Perspectives. 2021 , 11, 2244-2252	4
579	Dual-Wavelength Gated -Diels-Alder Photoligation. 2021 , 23, 2405-2410	3
578	Photoswitching, Colloidal Stability, and Reversible Self-Assembly of Gold Nanoparticles Covered with Thiolated Donor-Acceptor Stenhouse Adducts. 2021 , 125, 5306-5314	3
577	Fast T-Type Photochromic Crystals of Diarylbenzene. 2021 , 125, 4588-4594	3
576	Molecular Rotor Functionalized with a Photoresponsive Brake. 2021 , 60, 3492-3501	5
575	Photoresponsive supramolecular coordination polyelectrolyte as smart anticounterfeiting inks. 2021 , 12, 1363	47
574	Recent advances in aggregation-induced emission of mechanochromic luminescent organic materials. 2021 , 4, 673-724	1
573	Development of High-Performance Pyrimidine Nucleoside and Oligonucleotide Diarylethene Photoswitches. 2021 , 60, 8164-8173	10

572	Turn-on mode diarylethenes for bioconjugation and fluorescence microscopy of cellular structures. 2021 , 118,	10
571	Light- and Chemical-Stimuli-Induced Isomerization of Donor-Acceptor Stenhouse Adducts. 2021 , 5, 559-564	0
570	An aroylhydrazone-containing diarylethene derivative derived chemosensor for colorimetric and fluorimetric dual sensing Cu ²⁺ . 2021 , 409, 113128	1
569	Reversible Redox System of 2-Oxypyritriphyrin(1.2.1) Accompanying Interconversion between 3-Pyridone and 3-Hydroxypyridine Units. 2021 , 16, 1077-1080	1
568	Development of High-Performance Pyrimidine Nucleoside and Oligonucleotide Diarylethene Photoswitches. 2021 , 133, 8245-8254	0
567	Structurally photo-active metal-organic frameworks: Incorporation methods, response tuning, and potential applications. 2021 , 2, 011301	1
566	A multi-stimuli responsive tetraphenylethene derivative: Self-reversible mechanochromism, mechanoluminescence, switchable photochromism. 2021 , 187, 109128	14
565	Multiresponsive Nonvolatile Memories Based on Optically Switchable Ferroelectric Organic Field-Effect Transistors. 2021 , 33, e2007965	25
564	Extending the Lifetimes of Charge Transfer States Generated by Photoinduced Heterolysis of Photochromic Radical Complexes. 2021 , 10, 891-900	1
563	Diarylethene-Powered Light-Induced Folding of Supramolecular Polymers. 2021 , 143, 5845-5854	10
562	Recent Advances in Stimuli-Responsive Commodity Polymers. 2021 , 42, e2100054	14
561	Photomodulation of a Dual-Color Luminescent System Combining Quantum Dots with a FRET Acceptor Ligand**. 2021 , 5, 582-590	1
560	Synthesis of dibenzo[e,g]isoindol-1-ones via photoinduced intramolecular annulation of 3,4-diphenyl-1H-pyrrol-2(5H)-ones. 2021 , 84, 131981	1
559	Efficient Negative Photochromism by the Photoinduced Migration of Photochromic Merocyanine/Spiropyran in the Solid State. 2021 , 37, 3702-3708	6
558	Photoswitchable Components to Drive Molecular Systems Away from Global Thermodynamic Minimum by Light. 2021 , 275-304	0
557	Dithienylethene-Based Photochromic Siloles: A Straightforward and Divergent Synthetic Strategy. 2021 , 133, 12464-12467	0
556	Dynamically Controlled Electronic Behavior of Stimuli-Responsive Materials: Exploring Dimensionality and Connectivity. 2100441	10
555	The ON/OFF switching of thermal spin crossover by interstitial solvent exchange in a layered ReV ₂ N ₂ Cl ₂ coordination framework. 2021 , 129, 143902	1

- 554 Energy Conversion in Single-Crystal-to-Single-Crystal Phase Transition Materials. 2100324 6
- 553 Photoswitchable stimulated Raman scattering spectroscopy and microscopy. **2021**, 46, 2176-2179 5
- 552 Dithienylethene-Based Photochromic Siloles: A Straightforward and Divergent Synthetic Strategy. **2021**, 60, 12356-12359 2
- 551 Room-Temperature Stable Noncovalent Charge-Transfer Dianion Biradical to Produce Singlet Oxygen by Visible or Near-Infrared Light Photoexcitation. **2021**, 12, 4306-4312 0
- 550 Memory. **2021**, 125-135
- 549 Photocontrolled Nanopipette Biosensor for ATP Gradient Electroanalysis of Single Living Cells. **2021**, 6, 1529-1535 4
- 548 Photocontrollable Modulation of Frontier Molecular Orbital Energy Levels of Cyclopentenone-Based Diarylethenes. **2021**, 125, 3681-3688 0
- 547 A Solid-State Fluorescence Switch Based on Triphenylethene-Functionalized Dithienylethene With Aggregation-Induced Emission. **2021**, 9, 665880 2
- 546 Introduction. 1-13
- 545 Reaction Mechanism. **2021**, 15-30
- 544 Controlling Self-Assembly of Nanoparticles Using Light 1. **2021**, 241-273
- 543 Photoswitchable Crystals. **2021**, 93-124
- 542 Chirality Remote Control in Nanoporous Materials by Circularly Polarized Light. **2021**, 143, 7059-7068 9
- 541 Phosphorescent Soft Salt Based on Platinum(II) Complexes: Photophysics, Self-Assembly, Thermochromism, and Anti-counterfeiting Application. **2021**, 60, 7510-7518 9
- 540 Single-Photon Near-Infrared-Responsiveness from the Molecular to the Supramolecular Level via Platination of Pentacenes. **2021**, 60, 14076-14082 11
- 539 Photoresponsive aggregation-induced emission polymer film for anti-counterfeiting. **2021**, 32, 3882-3882 1
- 538 Constructing photochromic diarylethene with NIR-absorption beyond 800 nm. **2021**, 189, 109273 2
- 537 Hydrostatic Pressure-Controllable Chiroptical Properties of Chiral Perylene Bisimide Dyes: A Chiral Aggregation Case. **2021**, 125, 5952-5958 0

536	Photo-cycloreversion mechanism in diarylethenes revisited: A multireference quantum-chemical study at the ODM2/MRCI level. 2021 , 154, 204305	1
535	Switchable stimulated Raman scattering microscopy with photochromic vibrational probes. 2021 , 12, 3089	7
534	DYOTROPIC REARRANGEMENT OF DIARYLETHENES. 2021 , 1, 35-35	
533	Photo/Thermal Dual Responses in Aqueous-Soluble Copolymers Containing 1-Naphthyl Methacrylate. 2021 , 54, 4860-4870	2
532	Chromic Ionic Liquids. 2021 , 3, 2468-2482	6
531	Single-Photon Near-Infrared-Responsiveness from the Molecular to the Supramolecular Level via Platination of Pentacenes. 2021 , 133, 14195-14201	6
530	General approach to substituted naphtho[1,2-b]benzofurans via photochemical 6 π electrocyclization of benzofuranyl containing cinnamitriles. 2021 , 90, 132207	4
529	A photochromic nylon webbing for ultra-violet light sensing.	0
528	Actuators with nanofiber mat electrodes: effect of electrode preparation method on actuator performance.	1
527	Boundary formation in photochromic diarylethene single crystals and its catastrophe theory modeling. 2021 , 14, 075003	1
526	Challenges for Incorporating Optical Switchability in Organic-Based Electronic Devices. 2021 , 13, 27737-27748	1
525	Mechanical Bending and Modulation of Photoactuation Properties in a One-Dimensional Pb(II) Coordination Polymer. 2021 , 33, 4621-4627	15
524	UV Photochromism in Transition Metal Oxides and Hybrid Materials. 2021 , 17, e2100621	14
523	Photothermally Driven High-Speed Crystal Actuation and Its Simulation. 2021 , 143, 8866-8877	13
522	Multifunctional Optical Polymeric Films with Photochromic, Fluorescent, and Ultra-Long Room Temperature Phosphorescent Properties. 2101266	5
521	Long-term switching of single photochromic triads based on dithienylcyclopentene and fluorophores at cryogenic temperatures. 2021 , 155, 014901	0
520	Molecule deposition in mask-shielded regions revealed by selective Mg vapor deposition. 2021 , 39, 043202	
519	Determining Factor of the Quantum Yield of the Cyclization Reaction via Triplet States for Dye-Attached Diarylethene. 2021 , 125, 5895-5902	1

518	Understanding the Molecular Origin of the Collective Movement in a Diarylethene-based Photo-Responsive Actuator. 2021 , 22, 1658-1661	1
517	Wavelength-selective light-matter interactions in polymer science. 2021 , 4, 2172-2229	12
516	Stimuli-Responsive Metal-Organic Framework on a Metal-Organic Framework Heterostructure for Efficient Antibiotic Detection and Anticounterfeiting. 2021 , 13, 35689-35699	16
515	On-Demand Chirality Transfer of Human Serum Albumin to Bis(thiophen-2-yl)hexafluorocyclopentenes through Their Photochromic Ring Closure. 2021 , 86, 12549-12558	3
514	Multi-Light-Responsive Upconversion-and-Downshifting-Based Circularly Polarized Luminescent Switches in Chiral Metal-Organic Frameworks. 2021 , 33, e2101797	13
513	A Photo- and Redox-Driven Two-Directional Terthiazole-Based Switch: A Combined Experimental and Computational Investigation. 2021 , 27, 12866-12876	2
512	Fluorescence Photoswitching in a Series of Metal-Organic Frameworks Loaded with Different Anthracenes. 2021 , 2021, 2986-2992	0
511	Hydrogen-Bonded Dimeric Capsules with Appended Spiropyran Units: Towards Controlled Cargo Release. 2021 , 27, 12675-12685	2
510	Zero-crosstalk and color-specific photoswitching of dual-emissive polymer nanoparticles for multiple applications. 2021 , 191, 109370	4
509	Synthesis of 2H-benzo[g]furo/thieno/pyrrolo[2,3-e]indazoles via Intramolecular Dehydrogenation Photocyclization. 2021 , 39, 2213-2219	3
508	Photocyclization of Diarylethenes: The Effect of Electron and Proton Acceptors as Additives. 2021 , 86, 10023-10031	2
507	Fluorescein Based Fluorescence Sensors for the Selective Sensing of Various Analytes. 2021 , 31, 1251-1276	4
506	Triboluminescence and Selective Hydrogen-Bond Responsiveness of Thiochromanone Derivative. 2021 , 3, 1300-1306	1
505	Dithienylethenes functionalized by triphenylethene and difluoroboron Ediketonate fragments: Synthesis, optical switching behavior and fluorescent turn-on sensing for volatile organic amines. 2021 , 192, 109422	5
504	A series of multi-responsive viologen-based alkaline-earth metal coordination complexes: Thermochromism, photochromism, and vapochromism. 2021 , 1238, 130444	1
503	Mechanical Motion in Crystals Triggered by Solid State Photochemical [2+2] Cycloaddition Reaction. 2021 , 16, 2806-2816	6
502	Multicolor and multimode luminescent modulation via energy transfer engineering in Tb ³⁺ /Eu ³⁺ co-doped (K _{0.5} Na _{0.5})NbO ₃ transparent photochromic materials. 2021 , 873, 159852	3
501	Optical and electrical modulation in ultraviolet photodetectors based on organic one-dimensional photochromic arrays. 2021 , 2, 388-397	7

500	Stimuli-responsive hydrogels: Fabrication and biomedical applications. 20200112	12
499	Advance Optical Properties and Emerging Applications of 2D Materials. 2021 , 8,	6
498	Stimuli-responsive switchable halide perovskites: Taking advantage of instability. 2021 , 5, 2027-2046	13
497	Spin-Crossover-Triggered Linkage Isomerization by the Pedal-like Motion of the Azobenzene Ligand in a Neutral Heteroleptic Iron(III) Complex. 2021 , 60, 12735-12739	2
496	Optical Control of Polarization Switching in a Single-Component Organic Ferroelectric Crystal. 2021 , 143, 13816-13823	11
495	Contrasting Photochromic and Acidochromic Behaviors of Pyridyl- and Pyrimidylethynylated Mono- and Bis-Benzopyrans. 2021 , 6, 21113-21124	1
494	Mechanism of the Photodegradation of A-D-A Acceptors for Organic Photovoltaics*. 2021 , 60, 24833-24837	6
493	Reversibly Photoswitchable Tristate Fluorescence within a Single Polymeric Nanoparticle. 2101227	5
492	Photo-Switchable Aggregation-Induced Emission of Bisthienylethene-Dipyrimido[2,1-][1,3]benzothiazole Triad. 2021 , 26,	0
491	Magnetic Transition in Organic Radicals: The Crystal Engineering Aspects.	2
490	Novel colorimetric and fluorescent chemosensor for Hg ²⁺ /Sn ²⁺ based on a photochromic diarylethene with a styrene-linked pyrido[2,3-b]pyrazine unit. 2021 , 418, 113439	3
489	Mechanically Responsive Organic Crystals by Light.	4
488	Multiphoton Control of π -Photocyclization via State-Dependent Reactant-Product Correlations. 2021 , 12, 9493-9500	1
487	Solvent dependent photoswitching and emission of diarylethenes with a π -conjugated push-pull system. 2021 , 118472	1
486	Salicylideneaniline is a Photoswitchable Ferroelectric Crystal. 2021 , 27, 14831-14835	4
485	Photofluorochromic water-dispersible nanoparticles for single-photon-absorption upconversion cell imaging. 2021 , 32,	0
484	Unveiling electron transfer in a supramolecular aggregate for adaptive and autonomous photochromic response. 2021 , 24, 102956	2
483	Extraction of mechanical work from stimuli-responsive molecular systems and materials. 2021 ,	1

- 482 Sheet-Like Supramolecular Assembly of Amphiphilic Diarylethene Showing Photoinduced Transformation Formed by Depletion Force.
- 481 Achieving Enhanced Photochromic Properties of Diarylethene through Host-Guest Interaction in Aqueous Solution. **2021**, 27, 16153-16160 1
- 480 Bio-inspired electrochromic skin based on tungsten oxide. **2021**, 230, 111195 4
- 479 Dithienylethene metallodendrimers with high photochromic efficiency. **2021**, 0
- 478 Unprecedented ON/OFF Ratios in Photoactive Diarylethene-Bisthierylbenzene Molecular Junctions. **2021**, 21, 7555-7560 2
- 477 Elaboration of multimodal ligands based on BOX units: Toward full zinc release in Zn(II) complexes by external stimulation. **2021**, 193, 109476
- 476 Mechanism of the Photodegradation of A-D-A Acceptors for Organic Photovoltaics**.
- 475 Dynamic Control of the Interparticle Distance in a Self-Assembled Ag Nanocube Monolayer for Plasmonic Color Modulation. **2021**, 4, 9721-9728 3
- 474 Theoretical study of linear and non-linear optical activity in dithienylethene-based photo-switch and its derivatives. **2021**, 780, 138892 0
- 473 Ultrafast and reversibly cyclization/cycloreversion of 4-imino-4H-Quinolizine-1-Carbonitrile: A new strategy for fluorescence modulation in pH sensing in living cells. **2021**, 195, 109694 1
- 472 An excursion in the second-order nonlinear optical properties of platinum complexes. **2021**, 446, 214113 5
- 471 A multi-functional chemosensor for dual channel detection of Arg and colorimetric recognition of Cu²⁺. **2021**, 195, 109752 2
- 470 An efficient approach to diarylethene-amino acid photochromic fluorescent hybrids. **2021**, 1243, 130758
- 469 Low-Dose High-Resolution TOF-PET Using Ionization-activated Multi-State Low-Z Detector Media. **2021**, 1017,
- 468 Construction of a multicolored emission tetraphenylethene derivative in response to multiple stimuli. **2021**, 195, 109723 3
- 467 Dithienylethene-containing cyclic and linear conjugated molecules: Synthesis, photochromism, and photoluminescence. **2021**, 195, 109700 1
- 466 Dual photochromics-contained photoswitchable multistate fluorescent polymers for advanced optical data storage, encryption, and photowritable pattern. **2021**, 425, 131557 8
- 465 Fast photochromism in solid: Microenvironment in metal-organic frameworks promotes the isomerization of donor-acceptor Stenhouse adducts. **2022**, 427, 132037 4

- 464 New Mononuclear Mn(III) Complexes with Hydroxyl-Substituted Hexadentate Schiff Base Ligands. **2021**, 7, 12
- 463 A light-activatable photosensitizer for photodynamic therapy based on a diarylethene derivative. **2021**, 57, 8320-8323 7
- 462 Dynamic effects in crystalline coordination polymers. **2021**, 23, 5738-5752 5
- 461 Photoinduced topographical surface changes and photoresponse of the crystals of 7-methoxycoumarin. **2021**, 23, 5780-5787 0
- 460 Anisotropic bending and twisting behaviour of a twin crystal composed of a diarylethene. **2021**, 23, 5795-5800 1
- 459 Wavelength-dependent multicolor photochromism and fluorescence switching based on an AIE-active skeleton by regulating the conjugation of the photoactive unit. **2021**, 9, 8249-8257 3
- 458 Achieving highly efficient aggregation-induced emission, reversible and irreversible photochromism by heavy halogen-regulated photophysics and D-A molecular pattern-controlled photochemistry of through-space conjugated luminogens. **2021**, 12, 10710-10723 6
- 457 Protein-Activatable Diarylethene Monomer as a Smart Trigger of Noninvasive Control Over Reversible Generation of Singlet Oxygen: A Facile, Switchable, Theranostic Strategy for Photodynamic-Immunotherapy. **2021**, 143, 2413-2422 37
- 456 Fast T-Type Photochromism of Colloidal Cu-Doped ZnS Nanocrystals. **2021**, 143, 2239-2249 11
- 455 Molecular photoswitches in aqueous environments. **2021**, 50, 12377-12449 23
- 454 Actuation performance of a photo-bending crystal modeled by machine learning-based regression. **2021**, 23, 5839-5847 4
- 453 Synthesis of cis/trans-dihydrochromenones via a photoinduced rearrangement of 4-phenyl-3-aryl/cyclohexenylcoumarins. **2021**, 19, 7176-7180 0
- 452 Thermodynamic driving forces of guest confinement in a photoswitchable cage. **2021**, 23, 7321-7332 4
- 451 "Click-switch" - one-step conversion of organic azides into photochromic diarylethenes for the generation of light-controlled systems. **2021**, 12, 11593-11603 2
- 450 Tunable photochemical 6 π heterocyclization reactions mediated by a boron Lewis acid. 0
- 449 Hydrogen-Bonding Donor-Acceptor Stenhouse Adducts. **2020**, 4, 407-412 16
- 448 Modification of Electrode Interfaces with Nanosized Materials for Electronic Applications. **2017**, 399-416 2
- 447 Multiphoton-Gated Photochromic Reactions Induced by Pulsed Laser Excitation. **2017**, 225-235 2

446	Supramolecular Photochromism of Bis(phenanthrolylthienyl)-Hexafluorocyclopentene. 2017 , 385-405	4
445	Novel Ethene-Bridged Diarylethene Photochromic Systems: Self-Assembly, Photoswitcher, and Molecular Logic Gates. 2017 , 37-68	3
444	Cooperative Self-assembly of Photochromic Diarylethenes at Liquid/Solid Interface and Highly Sensitive Photoinduced Transformation of the Ordering. 2017 , 409-419	1
443	Properties and Applications of Indolinoxazolidines as Photo-, Electro-, and Acidochromic Units. 2017 , 69-91	3
442	Diarylethenes that Photoswitch with Visible Light. 2017 , 169-180	3
441	A simple strategy for constructing acylhydrazone photochromic system with visible color/emission change and its application in photo-patterning. 2020 , 31, 3271-3275	0
440	Highly-stable red-emissive photochromic nanoparticles based on a diarylethene-perylenebisimide dyad. 2020 , 180, 108490	3
439	Visible light-activated optical switching behaviors of tetra-/triphenylethene-dithienylethene-BF ₂ bdk triad. 2020 , 182, 108686	6
438	Enhancement of coloring under ultraviolet irradiation in photochromic diarylbenzenes. 2020 , 61, 151968	6
437	End-Functionalization of Diarylethene for Opto-Electronic Switching with High Fatigue Resistance. 2021 , 33, 403-412	8
436	Facile light-initiated radical generation from 4-substituted pyridine under ambient conditions. 2020 , 56, 6937-6940	2
435	A monomolecular platform with varying gated photochromism.. 2020 , 10, 42194-42199	5
434	Low-bias conductance mechanism of diarylethene isomers: A first-principle study. 2020 , 33, 697-702	2
433	Rotational switches in the two-dimensional fullerene quasicrystal. 2019 , 75, 41-49	5
432	Organic photoresponsive materials for information storage: a review. 2020 , 3,	17
431	Dual-responsive "smart" window and visually attractive coating based on a diarylethene photochromic dye. 2019 , 58, 9823-9828	16
430	Diarylethene Dyes. 2020 , 5,	3
429	Modulation of propagating surface plasmons. 2019 , 68, 147302	4

428	Designing light-driven rotary molecular motors.. 2021 , 12, 14964-14986	9
427	Phenylimino Indolinone: A Green-Light-Responsive T-Type Photoswitch Exhibiting Negative Photochromism. 2021 , 133, 25494	0
426	Push-Pull Stiff-Stilbene: Proton-Gated Visible-Light Photoswitching and Acid-Catalyzed Isomerization. 2021 , 27, 17346-17350	1
425	An Oxidant- and Catalyst-Free Synthesis of Dibenzo[a,c]carbazoles via UV Light Irradiation of 2,3-Diphenyl-1H-indoles. 54,	1
424	Hybrid Molecules Based on Fullerene C60 and Dithienylethenes. Synthesis and Photochromic Properties. Optically Controlled Organic Field-Effect Transistors. 2021 ,	0
423	Phenylimino Indolinone: A Green-Light-Responsive T-Type Photoswitch Exhibiting Negative Photochromism. 2021 , 60, 25290-25295	4
422	Synthesis and Characterization of Bisthienylethene-Porphyrin Photoswitchable Copolymers. 2021 , 2021, 6636	
421	Photoinduced 6 π Electrocyclization of a 1,3,5-Hexatriene System Containing an Allomaltol Fragment. 2021 , 86, 15345-15356	4
420	H/F substitution for advanced molecular ferroelectrics. 2021 ,	6
419	Recent advances of dynamic molecular crystals with light-triggered macro-movements. 2021 , 8, 041310	4
418	Light-Driven Molecular Crystal Actuators: An Approach to Molecular Machinery. 2016 , 74, 1217-1224	0
417	Linear and Nonlinear Optical Molecular Switches Based on Photochromic Metal Complexes. 2017 , 363-384	1
416	Turn-On Mode Fluorescent Diarylethenes. 2017 , 117-131	2
415	Photoswitchable Hybrid Nanosystems Based on Diarylethene Molecules and Gold Nanoparticles. 2017 , 443-464	1
414	Fluorescent Switchable Diarylethene Derivatives and Their Application to the Imaging of Living Cells. 2017 , 133-152	
413	Chiroptical Study on Organic Crystals Using the G-HAUP. 2017 , 75, 530-537	
412	A Hollow Crystal Showing Photoinduced Scattering of Inclusions Like Impatiens. 2018 , 60, 70-71	
411	Exotic Functions of Flexible Coordination Polymer Crystals. 2018 , 71, 30-38	

- 410 Development of Chromic Molecule that Can Change Color and Absorption/Fluorescence Wavelengths Largely in Response to External Stimuli. **2018**, 76, 1066-1075 0
- 409 Photoinduced LCST Behavior of Amphiphilic Diarylethene Assemblies: Phototransformative Supramolecular Architectures and Photodriven Actuation. **2019**, 77, 236-245 0
- 408 Advances in photochromic computer-generated holograms. **2019**,
- 407 Photosynergetic Response of High-Performance Fast Photochromic Molecules Based on Imidazolyl Radicals. **2019**, 77, 482-493 3
- 406 Selective Metal-vapor Deposition on Photochromic Diarylethene Surfaces. **2019**, 62, 411-415
- 405 Multi-color fluorescence photoswitching in fluorescence diarylethene nanoparticles. **2019**,
- 404 Stepwise Two-Photon Photochromism. **2020**, 57-78
- 403 Biomimetic Functions by Microscopic Molecular Reactions in Macroscopic Photoresponsive Crystalline System. **2020**, 405-425
- 402 Solid-State Fluorescence Switching Using Photochromic Diarylethenes. **2020**, 299-323
- 401 Photo-Switching of Circularly Polarized Luminescence. **2020**, 177-195
- 400 1,2,5,6-Tetrakis(guanidino)-Naphthalenes: Electron Donors, Fluorescent Probes and Redox-Active Ligands. **2020**, 26, 5834-5845 2
- 399 Coordination-enhanced photochromism in dysprosium dinuclear complexes with photomodulated single-molecule magnet behavior. 4, 2
- 398 Structure of 7-(3,3,4,4,5,5-hexafluoro-2-(2-methylbenzo[b]thiophen-3-yl)cyclopent-1-en-1-yl)-8-methylquinoline, C₂₄H₁₅F₆N₂. **2020**, 235, 1195-1197 0
- 397 Photoinduced Skeletal Rearrangement of Diarylethenes: Photorelease of Lewis Acid and Synthetic Applications. **2021**, 86, 16806-16814 1
- 396 Optically Induced Ferroelectric Polarization Switching in a Molecular Ferroelectric with Reversible Photoisomerization. **2021**, 8, e2102614 7
- 395 A fluorescent sensor for Zn²⁺ and Cd²⁺ based on a diarylethene derivative with an indole-2-methylhydrazone moiety. **2021**, 424, 113634 2
- 394 Selective isomer emission via funneling of exciton polaritons. **2021**, 7, eabj0997 6
- 393 Effect of incorporation of silole and phosphole heterocycles into photoswitchable diarylethenes. **2021**, 957, 122151

- 392 Advanced Control of Photochemical Reactions Leading to Synergetic Responses in Molecules and Mesoscopic Materials. **2020**, 3-27 0
- 391 Two [Ln] molecular rings folded as compact tetrahedra. **2020**, 49, 7182-7188 1
- 390 Encapsulating viologen derivatives in anionic MOFs: Photochromism and photocontrolled luminescence. **2022**, 305, 122616 0
- 389 Preparation and application of multi-wavelength-regulated multi-state photoswitchable fluorescent polymer nanoparticles. **2022**, 197, 109919 3
- 388 Baso-chromic spiropyrrolizine: The spiromerocyanine isomerization and alkaline detection. **2022**, 1250, 131631 2
- 387 Advanced Electronic Structure Theory for High-Accuracy Prediction of Higher Excited States and Its Application to Photochromic Molecules. **2020**, 29-41
- 386 High-temperature enantiomeric azobenzene-based photoisomerized piezoelectrics: 4-(phenyldiazenyl)anilinium) D- and L-tartrate. 3
- 385 Photosynergetic Enhancement of Photosensitivity of Photochromic Terarylenes. **2020**, 241-252
- 384 Plasmon-Associated Control of Chemical Reaction at Nanometer Scale. **2020**, 117-133
- 383 Creation of Molecularly Integrated Multi-responsive Photochromic Systems. **2020**, 253-273
- 382 Photocyclization Dynamics of Diarylethene. **2020**, 91-104
- 381 Manipulating Photochemistry. **2020**, 99-120
- 380 Crystallization Control of the Photoresponsible Diarylethene Film with an Aluminum Plasmonic Chip. **2020**, 581-593
- 379 Giant Amplification of Fluorescence Quenching in Photochromic Nanoparticles and Crystals. **2020**, 361-374
- 378 Photoinduced Morphological Transformation and Photodriven Movement of Objects Using Self-assembly of Amphiphilic Diarylethene in Water. **2020**, 327-348
- 377 Photoresponsive Molecular Crystals for Light-Driven Photoactuators. **2020**, 427-447
- 376 Photochromic properties and crystal structure of 3,3'-(perfluorocyclopent-1-ene-1,2-diyl)bis(5-(4-(azidomethyl)phenyl)-2-methylthiophene), C₂₉H₂₀F₆N₆S₂. **2020**, 235, 531-533 1
- 375 Diarylethenes in Optically Switchable Organic Light-Emitting Diodes: Direct Investigation of the Reversible Charge Carrier Trapping Process. 2101116 1

- 374 Aggregation-induced emission luminogens and tunable multicolor polymer networks modulated by dynamic covalent chemistry. **2021**, 2
- 373 Colloidal Self-Assembly Approaches to Smart Nanostructured Materials. *Chemical Reviews*, **2021**, 68.1 28
- 372 Diarylethene-containing stapled peptides as inhibitors of p53/MDM2 interaction. **2020**, 52-61
- 371 Colorant, Photochromic. **2021**, 1-9
- 370 Substituent position effect on photochromic properties of aldehyde-functionalized dithienylethenes. **2020**, 712, 24-30
- 369 The red cage implementation of pH-responsiveness within a macrobicyclic pyridinium-based molecular host. 0
- 368 Mono- and polychromatic light diarylethene-actinometer for the visible range. **2022**, 198, 109942 1
- 367 In Silico Discovery of Multistep Chemistry Initiated by a Conical Intersection: The Challenging Case of Donor-Acceptor Stenhouse Adducts. **2021**, 143, 20015-20021 5
- 366 Energy Storage upon Photochromic 6-Photocyclization and Efficient On-Demand Heat Release with Oxidation Stimuli. **2021**, 12, 11391-11398 0
- 365 Reversible Photoswitching between Fluorescence and Room Temperature Phosphorescence by Manipulating Excited State Dynamics in Molecular Aggregates. **2021**, 1 1
- 364 Multistimuli-Responsive Fluorescent Switches Based on Reversible Decomposition and Regeneration of charge-transfer Complexes. 0
- 363 Tunable Symmetry-Breaking-Induced Dual Functions in Stable and Photoswitched Single-Molecule Junctions. **2021**, 3
- 362 Light-Induced Formation/Scission of C-N, C-O, and C-S Bonds Enables Switchable Stability/Degradability in Covalent Systems. **2021**, 143, 20368-20376 1
- 361 Crystal structure of 1-(2-methylphenyl)-2-(2-methylbenzo[b]thienyl)-3,3,4,4,5,5-hexafluorocyclopent-ene, C₂₁H₁₄F₆S. **2021**, 1
- 360 A dual-functional chemical sensor for the detection of Cu²⁺ and Cd²⁺ based on the photochromic diarylethene. **2021**, 132583 1
- 359 Natural and Synthetic Flavylum-Based Dyes: The Chemistry Behind the Color. *Chemical Reviews*, **2021**, 68.1 15
- 358 Bioinspired Color Elastomers Combining Structural, Dye, and Background Colors. **2021**, 13, 55591-55599 3
- 357 Reversible photochromism and photoresponsive luminescence in naphthalene diimide-based framework with Lindqvist-type polyoxometalate template. **2021**, 132011 0

356	Molecular Approach to Engineer Two-Dimensional Devices for CMOS and beyond-CMOS Applications. <i>Chemical Reviews</i> , 2021 ,	68.1	7
355	Multi-Stimuli-Induced Mechanical Bending and Reversible Fluorescence Switching in a Single Organic Crystal. 2021 ,		3
354	Reversible Photoswitching between Fluorescence and Room Temperature Phosphorescence by Manipulating Excited State Dynamics in Molecular Aggregates.		
353	Recent Development of Photodeformable Crystals: From Materials to Mechanisms. 2021 , 2021 , 9816535		2
352	Multi-Stimuli-Induced Mechanical Bending and Reversible Fluorescence Switching in a Single Organic Crystal.		1
351	Photochromism in inorganic crystallised compounds. 2021 , 12, 100110		1
350	Metal complexes bearing photochromic ligands: photocontrol of functions and processes. 2021 ,		1
349	Electron transfer photochromism of solid-state supramolecules constructed by cucurbit[n]uril (n = 5B) and 1-(4-carboxybenzyl)-4-[2-(4-pyridyl)-vinyl]-pyridinium chloride. 2021 , 45, 22249-22254		1
348	New photochromic-ligand-based luminescent coordination polymer as MnO ₄ ⁻ sensor with extremely high sensitivity and excellent selectivity.		0
347	Tailor-made aromatic porphyrinoids with NIR absorption.. 2022 ,		1
346	Electronic state of a fluoranthene-urea compound and the kinetics of its emissive tautomer state in the presence of acetate anions.		1
345	Quantum Molecular Devices Toward Large-Scale Integration. 2022 , 181-195		
344	Superelasticity of a photo-actuating chiral salicylideneamine crystal. 2022 , 5,		0
343	New shoots from old roots: multiple stimuli-responsive properties of a common tetraphenylethene derivative.		0
342	Reversible Photoluminescence Control of Azobenzene Crystals by Light and Heat Stimulation.		0
341	A viologen-derived host-guest MOF material: Photochromism, photoswitchable luminescence, and inkless and erasable printing. 2022 , 306, 122812		1
340	Oligo-β-diketones as versatile ligands for use in metallo-supramolecular chemistry: Recent progress and perspectives. 2022 , 455, 214355		4
339	Donor-acceptor type NIR dithienylethene with aggregation-induced emission for multi-state photochromic behavior. 2022 , 199, 110055		2

- 338 A high selective chemosensor for detection of Al³⁺ based on diarylethene with a hydrazide unit. **2022**, 425, 113718 2
- 337 Photoresponsive Metal-Organic Frameworks: Tailorable Platforms of Photoswitches for Advanced Functions. 1
- 336 Ein DNA-basierter exzitonischer Zweikomponenten-Schalter auf der Grundlage von Hochleistungs-Diarylethenen.
- 335 Polymorph-Derived Diversification of Crystal Actuation by Photoisomerization and the Photothermal Effect. **2022**, 34, 1315-1324 3
- 334 Visible Light-Driven Molecular Switches and Motors: Recent Developments and Applications.. **2021**, 2
- 333 A novel bifunctional chemosensor for bioimaging in living cells with highly sensitive colorimetric and fluorescence detection of CN⁻ and Al³⁺. **2022**, 46, 2411-2422 0
- 332 Multiple functionalities of highly conductive and flexible photo- and thermal-responsive colorimetric cellulose films. **2022**, 10, 36-44 1
- 331 Structure-property relationships in normal and mixed dithienylethenes-polyoxometalates supramolecular assemblies with fast solid-state photochromic properties. **2022**, 10, 899-907 1
- 330 Shape Permanence in Diarylethene-Functionalized Liquid Crystal Elastomers Facilitated by Thiol-Anhydride Dynamic Chemistry.. **2022**, 1
- 329 Shape Permanence in Diarylethene-Functionalized Liquid-Crystal Elastomers Facilitated by Thiol-Anhydride Dynamic Chemistry. 0
- 328 Construction of polymer materials with specific responses to violet and green lights and their potential applications in an artificial visual memory system. **2022**, 10, 1653-1659 0
- 327 Dynamic covalent chemistry constrained diphenylethenes: control over reactivity and luminescence both in solution and in the solid state. 0
- 326 Reversible Near-Infrared Fluorescence Photoswitching in Aqueous Media by Diarylethene: Toward High-Accuracy Live Optical Imaging.. **2022**, e2103523 1
- 325 Conductive gold nanoparticle assembly linked through interactions between the radical cations of ethylene- and propylene-3,4-dioxythiophene mixed tetramer thiolate. 0
- 324 Crystal polymorphism and crystalline-state photochromism of a rhodium dithionite complex with n-methoxypropyl moieties. 0
- 323 Crystalline-State Photochromism of a Newly Synthesized Rhodium Dithionite Complex with Inflexible Cyclo-Pentyl Groups. **2022**, 95, 169-174 0
- 322 Photochromic behavior of diarylbenzene nanoparticles prepared by top-down and bottom-up approaches. **2022**, 3, 1280-1285 0
- 321 The / conformation approach for tuning the magnetic coupling in a diradical: isolation of pure pyridine-based diradical dianions.. **2022**, 1

320	Photocontrolled multiple-state photochromic benzo[b]phosphole thieno[3,2-b]phosphole-containing alkynylgold(I) complex via selective light irradiation.. 2022 , 13, 33	4
319	A light-responsive molecular switch based on cucurbit[7]uril and 1,1'-bis(benzyl)-4-[2-(4-pyridyl)-vinyl]-pyridinium dibromide displaying white light emission.. 2022 ,	0
318	Photoinduced Bending Crystals of a Rhodium Dithionite Complex with n-Methoxybutyl Moieties.	
317	Intracrystalline Kinetics Analyzed by Real-time Monitoring of a 1,2-Dioxetane Chemiluminescence Reaction in a Single Crystal.	2
316	Unusual motion of the -methoxypropyl moiety observed in the photochromic crystals of an organorhodium dithionite complex with -methoxypropyltetramethylcyclopentadienyl ligands. 2021 ,	0
315	A DNA-based two-component excitonic switch utilizing high-performance diarylethenes.. 2022 ,	3
314	Zn-diarylethene organic framework for anticounterfeiting: Crystal structure, photochromism and fluorescence switch. 2022 , 309, 122950	1
313	Photooxidation of IR -820 by Calixpyridinium-Induced Assembled Material and Its pH-Controlled Visual Multicolor Luminescence.	2
312	Photochromic materials as a photosensitizer in reversible reactive singlet oxygen generation. 2022 , 199, 110104	1
311	Potential photo-switching sorbents for CO2 capture [A review. 2022 , 158, 112079	3
310	A novel photochromic hetarylalkylideneisocromandione system. 2022 , 427, 113793	
309	Photoresponsive Covalent Organic Frameworks with Diarylethene Switch for Tunable Singlet Oxygen Generation.	4
308	Quadri-Dimensional Manipulable Laser with Intrinsic Chiral Photoswitch.. 2022 , e2110170	7
307	Stimuli-Modulated Metal Oxidation States in Photochromic MOFs.. 2022 ,	2
306	Recent Advances in Photochemical Reactions on Single-Molecule Electrical Platforms.. 2022 , e2200017	3
305	Influence of periodic heteroatom substitution in the aryl rings on optical properties and thermal stability of diarylethene derivatives. 2022 , 1256, 132529	1
304	Future-oriented Advanced Diarylethene Photoswitches: From Molecular Design to Spontaneous Assembly Systems. 2021 , e2108289	8
303	Terphenylthiazole-based self-assembled monolayers on cobalt with high conductance photo-switching ratio for spintronics.. 2022 ,	0

302	All-visible-light triggered solid-state dual-color fluorescence switching of phenanthroimidazole-based bithienylethene.	2
301	INCLUSION COMPOUNDS OF ORGANIC AZOCHROMOPHORES IN THE CAVITIES OF METAL-ORGANIC FRAMEWORKS (Cr,Al) MIL-101: SYNTHESIS AND PHOTOCHEMICAL STUDIES. 2022 , 63, 152-163	0
300	Photomechanical crystalline materials: new developments, property tuning and applications.	1
299	Photochromic dithienylethene-containing four-coordinate boron(III) compounds with a spirocyclic scaffold.. 2022 ,	0
298	Recent advances in low-power-threshold nonlinear photochromic materials.. 2022 ,	4
297	Turn-on mode fluorescent diarylethene containing neopentyl substituents that undergoes all-visible-light switching.. 2022 , 58, 4715-4718	0
296	Photoswitchable architecture transformation of a DNA-hybrid assembly at the microscopic and macroscopic scale.. 2022 , 13, 3263-3272	2
295	Tailored metal-organic tetrahedral nanocages with aggregation-induced emission for an anti-counterfeiting ink and stimulus-responsive luminescence.	0
294	Excited state dynamics of normal dithienylethene molecules either isolated or deposited on an argon cluster.. 2022 ,	0
293	Photoinduced cytotoxicity of photochromic symmetric diarylethene derivatives: the relation of structure and cytotoxicity.. 2022 ,	0
292	Mechanofluorochromic Material toward a Recoverable Microscale Force Sensor. 2102246	0
291	Photochromic properties in a head coupled ruthenium complex with dithienylethene-ethynylthiophene. 1-11	0
290	Design of untethered soft material micromachine for life-like locomotion. 2022 ,	3
289	Intriguing Second-Order NLO Switches Based on New DTE Compounds.	0
288	An Eight-State Molecular Sequential Switch Featuring a Dual Single-Bond Rotation Photoreaction.. 2022 ,	3
287	Photo-electrochromic salt composed by viologen cation and diarylethene anion derivatives.	1
286	Fatigue resistance of photochromic diarylethene in the presence of cyclodextrins with different pore sizes.	0
285	Smart Photochromic Materials Triggered with Visible Light.	2

284	Digital photoprogramming of liquid-crystal superstructures featuring intrinsic chiral photoswitches. 2022 , 16, 226-234	15
283	Photoswitchable stimulated Raman scattering spectroscopy and microscopy. 2022 ,	
282	Ultrafast, Light, Soft Martensitic Materials. 2112117	0
281	Chromogenic Materials, Photochromic. 1-33	
280	Calculation of Core-Excited and Core-Ionized States Using Variational Quantum Deflation Method and Applications to Photocatalyst Modeling.. 2022 , 7, 10840-10853	0
279	Optically Controlled Polarization Switching in an Organic Ferroelectric with Light- and Temperature-Triggered Phase Transitions.	3
278	Cold photo-carving of halogen-bonded co-crystals of a dye and a volatile co-former using visible light.. 2022 ,	1
277	New insights into the redox properties of pyridinium appended 1,2-Dithienylcyclopentenes.. 2022 ,	1
276	Molecular-Switch-Embedded Organic Photodiode for Capturing Images Against Strong Backlight.. 2022 , e2200526	0
275	Simultaneous high transmittance and large tunability of up-conversion photoluminescence in Er ³⁺ -doped KNN-based ceramics. 2022 ,	1
274	Theoretical Comparison of a Longitudinal versus a Transverse Transport Path through Diarylethene Molecular Switches. 2022 , 126, 5675-5681	
273	Engineering Photomechanical Molecular Crystals to Achieve Extraordinary Expansion Based on Solid-State [2 + 2] Photocycloaddition.. 2022 ,	8
272	Phototriggered Complex Motion by Programmable Construction of Light-Driven Molecular Motors in Liquid Crystal Networks.. 2022 ,	3
271	β-Cyclodextrin Supramolecular Recognition of bis-Cationic Dithienylethenes. 2022 , 3, 77-86	
270	Photo-switching behaviour in liquid crystalline materials incorporating a non-planar dithienylcyclopentene core and their birefringence properties. 1-13	1
269	Sterically Frustrated Aromatic Enes with Various Colors Originating from Multiple Folded and Twisted Conformations in Crystal Polymorphs.. 2022 ,	0
268	Rational design of state-depending photoactivatable and photoconvertible fluorescent AIEgens through a rapid photocyclodehydrogenation reaction. 2022 , 201, 110235	1
267	Effect of the alkyl linker length on the photoisomerization of hydrazone switches on metal surfaces. 2022 , 24, 100797	2

- 266 Is it possible to maintain photomechanical properties of crystalline diarylethenes after thermal amorphization?. **2022**, 1261, 132857
- 265 Stimuli-Responsive Porous Molecular Crystal with Reversible Modulation of Porosity.. **2021**, 1
- 264 Insights into the Effect of Trans-to-Cis Photoisomerization of a Co-coordinated Stilbene Derivative on the Luminescence of Di- β -diketonate Lanthanide Complexes.. **2022**, 7, 947-958 1
- 263 Solid-State Supramolecular Inclusion Complexes of β -Cyclodextrin with Carboxyphenyl Viologens Showing Photochromic Properties. **2022**, 126, 844-850 1
- 262 Temperature-Reliant Dynamic Properties and Elasto-Plastic to Plastic Crystal (Rotator) Phase Transition in a Metal Oxyacid Salt. **2022**, 134,
- 261 Tunable Anti-Stokes-Shift Behaviors Based on Intramolecular Charge Transfer Characteristics of Diarylethene Derivatives. **2022**, 10, 2102180 0
- 260 Temperature-Reliant Dynamic Properties and Elasto-Plastic to Plastic Crystal (Rotator) Phase Transition in a Metal Oxyacid Salt. **2021**, 0
- 259 Towards low-energy-light-driven bistable photoswitches: ortho-fluoroaminoazobenzenes. **2021**, 21, 159 3
- 258 Synthesis of redox active photochromic phenanthrene derivatives. **2021**, 2
- 257 Reversible Photochromic Coordination Polymer by Phototriggered Subtle Molecular Conformation Variations. **2021**, 1
- 256 Sustainable Preparation of Photoactive Indole-fused Tetracyclic Molecules: A New Class of Organophotocatalysts. 2
- 255 Fabricating and Modulating Robust Multi-Photoaddressable Systems with the Derivatives of Diarylethylene and Donor-Acceptor Stenhouse Adducts.. **2022**, 3611-3620
- 254 Synthesis and Photochromic Reaction of 6,6-Bis(diarylethen-yl)-1,1-Binaphthyl-2,2-Diether.
- 253 Aggregation-induced Emission from the Restriction of Double Bond Rotation at the Excited State. **2022**, 55-97
- 252 Visible Light-induced Emission Enhancement in Aggregates of an Azobenzene Derivative. **2022**, 51, 473-476
- 251 Photodeprotection Reaction Mechanisms of Caged Species Utilizing a Photochromism Function.. **2022**, 3417-3423 0
- 250 Controlling forward and backward rotary molecular motion on demand.. **2022**, 13, 2124 3
- 249 Photoinduced 6 π -Electrocyclization of 1,3,5-hexatriene system containing allomaltol fragment: A convenient approach to polycondensed pyrrole derivatives. **2022**, 132780 1

248	Controllable photomechanical bending of metal-organic rotaxane crystals facilitated by regioselective confined-space photodimerization.. 2022 , 13, 2030	3
247	A spiropyran-based photochromic webbing for ultra-violet light damage sensing. 2022 ,	
246	Visualization and Comprehension of Electronic and Topographic Contrasts on Cooperatively Switched Diarylethene-Bridged Ditopic Ligand.. 2022 , 12,	1
245	Data_Sheet_1.pdf. 2019 ,	
244	Multicolor Zinc(II)-coordinated Hydrazone-based Bistable Photoswitches for Rewritable Transparent Luminescent Labels.. 2022 ,	2
243	Multiwavelength-Controlled Multicolor Photochromism and Fluorescence Switch Based on an Efficient Photocyclization Reaction by Introducing Two Photoactive Subunits into AIEgens.	1
242	Systematic modifications of substitution patterns for property tuning of photoswitchable asymmetric azobenzenes.. 2022 ,	1
241	A Conjugated Photoresponsive Dithienylethene-Ferrocene System: Application in Secret Writing and Decoding Information.	0
240	Providing theoretical insight into the role of symmetry in the photoisomerization mechanism of a non-symmetric dithienylethene photoswitch.. 2022 ,	0
239	Energy profile of formal 1,2-dyotropic rearrangement of diarylethenes. 2022 , 12, 153-159	
238	Organic crystal-based flexible smart materials.	1
237	Controlling the Isomerization of Photoresponsive Molecules through a Limiting Tautomerization Strategy.. 2022 ,	1
236	Designing photochromatic pigments based on clay minerals and spiropyran. 2022 , 110358	1
235	Multicolor Zinc(II)-Coordinated Hydrazone-Based Bistable Photoswitches for Rewritable Transparent Luminescent Labels.	0
234	Stepping Out of the Blue: From Visible to Near-IR Triggered Photoswitches.	0
233	Switched Proton Conduction in MetalOrganic Frameworks.	2
232	Stepping Out of the Blue: From Visible to Near-IR Triggered Photoswitches.. 2022 ,	3
231	Photochromic polyoxometalate/naphthalenediimide hybrid structure with visible-light-driven dye degradation. 2022 , 123236	

230	Excitation wavelength- and intensity-dependent stepwise two-photon-induced photochromic reaction.. 2022 , 1	1
229	Tuning ON/OFF Ratios in Diarylethene-Based Single- and Bilayer Molecular Junctions.	
228	Contactless Manipulation of Write-Read-Erase Data Storage in Diarylethene Ferroelectric Crystals.. 2022 ,	8
227	Optical Switches for Lipid Membranes: Computed Molecular Projection Area as a Switch Selection Criterion. 2022 , 6, 30	1
226	Fluorescence photoswitch of stiff-stilbene derivatives for anti-counterfeiting. 2022 , 203, 110361	
225	Visible-light-triggered fluorescence turn-on diarylethenes: Computational molecular design and photophysical studies. 2022 , 248, 118973	0
224	Electric Properties of Photochromic Molecules Physisorbed on Silver and Copper Nanoparticles.. 2022 ,	0
223	Photomodulation of ultrastable host-guest complexes in water and their application in light-controlled steroid release.	2
222	Cotton fabric containing photochromic microcapsules combined thermal energy storage features. 2022 , 129249	0
221	Gated photochromic reactivity of diarylethenes with visible-light-triggered turn-on fluorescence. 2022 , 110441	
220	Controlled Synthesis and Photoresponsive Properties of Spiropyran End-Functionalized Poly(vinyl ether)s. 2022 , 12, 742	
219	Charge-regulated regioselective mechanism of cobalt-catalyzed hydrogermylation of alkynes: DFT investigation. 2022 , 526, 112379	1
218	Photoswitchable Aie Photosensitizer for Reversible Control of Singlet Oxygen Generation in Imaging-Guided Antimicrobial Photodynamic Therapy.	
217	A study of the photochemical behavior of terarylenes containing allomaltol and pyrazole fragments. 18, 588-596	3
216	Dithienylethene-Bridged Fluoroquinolone Derivatives for Imaging-Guided Reversible Control of Antibacterial Activity. 2022 , 87, 7446-7455	0
215	The structural origin of the efficient photochromism in natural minerals. 2022 , 119,	1
214	Physicochemical Aspects of Photoswitching. 2022 , 1-18	
213	Molecular Photoswitches for Information Processing: From Simple to Complex. 2022 , 785-809	

212	Photoswitchable Fluorophores for Super-Resolution Optical Microscopy. 2022 , 605-626	0
211	Fulgides and Fulgimides. 2022 , 177-192	
210	Photomechanical Performance of Diarylethene Single Crystals. 2022 , 679-693	
209	Performance of Composite GlassDiarylethene Crystal Photomechanical Actuator Membranes.	2
208	Diarylethenes [Molecules with Good Memory. 2022 , 151-175	0
207	Photochromism of Coordination Compounds. 2022 , 425-453	
206	Patterning Submicron Photomechanical Features into Single Diarylethene Crystals Using Electron Beam Lithography.	1
205	Photoinduced 6EElectrocyclization of 2,5-Dichlorothiophene Containing Benzofuranylacrylonitriles as Efficient Method for the Generation of Hydrogen Chloride.	
204	Photo-induced 6EElectrocyclisation and cycloreversion of isolated dithienylethene anions.	
203	Supramolecular Assembly Confined Purely Organic Room Temperature Phosphorescence and Its Biological Imaging.	7
202	Acyldiazone-based supramolecular assemblies undergoing a converse sol-to-gel transition on trans -cis photoisomerization.	1
201	Synthesis and photochromism of catechol-containing symmetrical azobenzene compounds. 2022 , 9,	0
200	Orthogonal- and Path-dependent Photo/Acidoswitching in an Eight-state Dihydroazulene-Spiropyran Dyad.	1
199	Tetrathienyl corannulene compounds with highly sensitive photochromism.	1
198	Photomechanical Structures Based on Porous Alumina Templates Filled with 9-Methylantracene Nanowires. 2022 , 12, 808	1
197	A multi-stage single photochrome system for controlled photoswitching responses.	1
196	Photoisomerization of Covalently Attached Diarylethene on Locally Functionalized Single-Walled Carbon Nanotubes for Photoinduced Wavelength Switching of Near-Infrared Photoluminescence.	0
195	Stimuli-Responsive and Switchable Platinum(II) Complexes and Their Applications in Memory Storage. 2022 , 95, 846-854	0

- 194 Orthogonal Control of Neuronal Circuits and Behavior Using Photopharmacology. 1
- 193 A TD-DFT study on photoswitchable chloride salts receptor based on acylhydrazone and crown ether embedded Macrocyclic molecule. **2022**, 1214, 113785
- 192 Cyanostilbene-functionalized dithienylethenes with aggregation -induced emission for photoswitching behavior in multi-media. **2022**, 250, 119061 0
- 191 Ferroelectricity in organic materials: from materials characteristics to de novo design.
- 190 Synthesis and application of near-infrared dyes based on sulfur-substituted dicyanomethylene-4H-chromene and diarylethene.
- 189 Photochromic Intradermal Smart Tattoo Based on Diarylethene-Doped Polystyrene Nanoparticles for Personal β Ray Dosimetry. 1
- 188 2,7- and 4,9-Dialkynyldihydropyrene Molecular Switches: Syntheses, Properties, and Charge Transport in Single-Molecule Junctions. 2
- 187 Turn-On Mode Circularly Polarized Luminescence in Self-Organized Cholesteric Superstructure for Active Photonic Applications. **2022**, 14, 30362-30370 2
- 186 Site-specific fabrication of gold nanocluster-based fluorescence photoswitch enabled by the dual roles of albumin proteins.
- 185 Preparation of photonic molecular trains via soft-crystal polymerization of lanthanide complexes. **2022**, 13, 2
- 184 Spin-Crossover Tuned Rotation of Pyrazolyl Rings in a 2D Iron(II) Complex towards Synergetic Magnetic and Dielectric Transitions. 0
- 183 Photoswitching of Local (Anti)Aromaticity in Biphenylene-Based Diarylethene Molecular Switches. 0
- 182 Stepwise Photochromism of Bis(Imidazole Dimer) Bridged by a Sulfur Atom. 1
- 181 Efficient blue light-responded dithienylethenes with exceptional photochromic performance. **2022**, 0
- 180 Photochromism of colloidal ZnO nanocrystal powders under ambient conditions. 0
- 179 Nonaromatic amine containing Dibenzo[b,d]thiophene donor for D-A type visible-light-driven fluorescence turn-on diarylethenes. **2022**, 110571 0
- 178 Spin-Crossover Tuned Rotation of Pyrazolyl Rings in a 2D Iron(II) Complex towards Synergetic Magnetic and Dielectric Transitions.
- 177 Energy-Transfer Photocatalysis Using Lead Halide Perovskite Nanocrystals: Sensitizing Molecular Isomerization and Cycloaddition. 2

- 176 Energy-Transfer Photocatalysis Using Lead Halide Perovskite Nanocrystals: Sensitizing Molecular Isomerization and Cycloaddition.
- 175 Metalloenzyme-mediated thiol-yne addition towards photoisomerizable fluorescent dyes.
- 174 Photoswitchable AIE Photosensitizer for Reversible Control of Singlet Oxygen Generation in Specific Bacterial Discrimination and Photocontrolled Photodynamic Killing of Bacteria. **2022**, 138087 1
- 173 A Brief Review on Advances in Rhodamine B Based Chromic Materials and Their Prospects. 2
- 172 Coumarinyl(thienyl)thiazole Molecules as Fluorescent Photoswitches. **2022**, 34, 2281-2287
- 171 Tuning the selectivity of amino acid recognition with dynamic covalent bond constrained fluorophores in aqueous media.
- 170 Calculation of the Förster Resonance Energy Transfer Parameters in Nanospheres Containing CdSe/ZnS Quantum Dots and Diarylethene. **2022**, 89, 462-470
- 169 Supramolecular Complex of Photochromic Diarylethene and Cucurbit[7]uril: Fluorescent Photoswitching System for Biolabeling and Imaging. **2022**, 144, 14235-14247 4
- 168 Stacked Reconfigurable Optical Cavities for Smart Sensing Pixels. **2022**, 28, 1-12
- 167 Ultrafast Dynamics of a Molecular Switch from Resonance Raman Spectroscopy: Comparing Visible and UV Excitation. 1
- 166 Phototunable golden luster microcrystalline film of photochromic diarylethene.
- 165 Single-Fluorophore-Based Organic Crystals with Distinct Conformers Enabling Wide-Range Excitation-Dependent Emissions.
- 164 Modulating the Photocyclization Reactivity of Diarylethenes through Changes in the Excited-State Aromaticity of the Linker. 0
- 163 Single-Fluorophore-Based Organic Crystals with Distinct Conformers Enabling Wide-Range Excitation-Dependent Emissions. 0
- 162 Aqueous Supramolecular Co-Assembly of Anionic and Cationic Photoresponsive Stiff-Stilbene Amphiphiles. 2200438 0
- 161 Effect of Substrate Surfaces for Crystal Growth of a Photochromic Diarylethene by Sublimation. 0
- 160 All-Visible (>500 nm)-Light-Induced Diarylethene Photochromism Based on Multiplicity Conversion via Intramolecular Energy Transfer. **2022**, 13, 7429-7436 0
- 159 Delicate and Independent Manipulation of Dynamic Fluorescence Behavior of Polymer Nanoparticles Based on a Core-Shell Strategy. 1

- 158 Visible-light controlled supramolecular transformations of donor-acceptor Stenhouse adducts amphiphiles at multiple length-scale. **2022**, 628, 984-993 ○
- 157 Photoinduced 6E electrocyclization of 2,5-dichlorothiophene containing benzofuranylacrylonitriles as efficient method for the generation of hydrogen chloride. ○
- 156 Photochemical behavior of diheteroarylethenes and photochromism. **2023**, 161-217 ○
- 155 Dynamics of a Photochromic-Actuated Slot Microring Photonic Memristor. **2023**, 29, 1-10 ○
- 154 Phototriggered color modulation of perovskite nanoparticles for high density optical data storage. **2022**, 13, 10315-10326 ○
- 153 Unsymmetrical benzothiazole-based dithienylethene photoswitches. **2022**, 24, 23758-23768 ○
- 152 Inclusion Complex of Cucurbit[7]uril with Benzimidazolyl Benzyl Viologen Showing Fluorescence and Photochromic Properties. 1
- 151 Suppression of Reversible Photocyclization Reaction Induced Fluorescence Enhancement: A Theoretical Study. ○
- 150 Crystal actuation switching by crystal thickness and light wavelength. **2022**, 3, 7098-7106 ○
- 149 Photochromic spiro-indoline naphthoxazines and naphthopyrans in dye-sensitized solar cells. 1
- 148 Cold crystallization and photo-induced thermal behavior of alkyl-derivatized diarylethene molecules. **2022**, 12, 21926-21931 ○
- 147 A General Approach for All-visible-light Switching of Diarylethenes through Triplet Sensitization using Semiconducting Nanocrystals. ○
- 146 E/Z photoisomerization pathway in pristine and fluorinated di(3-furyl)ethenes. **2022**, 24, 23749-23757 ○
- 145 Green-/NIR-light-controlled rapid photochromism featuring reversible thermally activated delayed fluorescence and photoelectronic switching. **2022**, 13, 9381-9386 1
- 144 Visible light activated BINOL-derived chiroptical switches based on boron integrated hydrazone complexes. **2022**, 13, 9713-9718 ○
- 143 Synthesis, Structure-Property Relationships and Absorbance Modulation of Highly Asymmetric Photochromes with Variable Oxidation and Substitution Patterns. 1
- 142 SUPRAMOLECULAR COMPOUNDS FORMED BY METAL-ORGANIC FRAMEWORKS AND ORGANIC PHOTOCROMES. REVIEW. **2022**, 63, 1453-1483 ○
- 141 Solid-State Self-Assembly of a Linear Hexanuclear Copper(II) Oxamate Complex with Alternating Antiferro- and Ferromagnetic Coupling. **2022**, 8, 116 ○

140	Synergistic interplay between photoisomerization and photoluminescence in a light-driven rotary molecular motor. 2022 , 13,	0
139	Photochemical Mechanisms of Fluorophores Employed in Single-Molecule Localization Microscopy.	3
138	Photoresponsive Small Molecule Enzyme Mimics.	0
137	Steering the Ultrafast Opening and Closure Dynamics of a Photochromic Coordination Cage by Guest Molecules.	0
136	Repeatable Actuations of Organic Single Crystal Fibers Driven by Thermosalient-Phase-Transition-Induced Buckling. 2204500	1
135	Optical trapping of photochromic microcrystals by a dual fiber tweezers. 2022 , 121, 111103	0
134	Heterocyclic Hemithioindigos: Highly Advantageous Properties as Molecular Photoswitches**.	0
133	Heterocyclic Hemithioindigos: Highly Advantageous Properties as Molecular Photoswitches**.	0
132	Photoinduced Electron Transfer in Multicomponent Truxene-Quinoxaline Metal-Organic Frameworks. 2022 , 34, 8437-8445	1
131	Steering the Ultrafast Opening and Closure Dynamics of a Photochromic Coordination Cage by Guest Molecules.	3
130	The Development and Application of Opto-Chemical Tools in the Zebrafish. 2022 , 27, 6231	0
129	Photochemical Mechanisms of Fluorophores Employed in Single-Molecule Localization Microscopy.	0
128	Light modulated reversible On-Off Transformation of arylazoheteroarene based discotics in nematic organization.	0
127	Wide-range IR spectra of diarylethene derivatives and their simulation using the density functional theory. 2022 , 12,	0
126	Synthesis and photoswitching behavior of donor-acceptor type dithienylethene derivatives modified by diestervinyl moieties. 2022 , 207, 110781	0
125	Red-light controlled supramolecular co-assembly transformations of stiff stilbene and donor acceptor stenhouse adduct amphiphiles. 2022 , 208, 110807	0
124	Multi-faceted elastic flexibility of 1-naphthyl and 9-anthryl 2,2',6,6'-terpyridine crystals.	0
123	A Photo-Switchable Molecular Capsule: Sequential Photoinduced Processes.	0

- 122 Light-Stimulated Luminescence Control of Lead Halide-Based Perovskite Nanocrystals Coupled with Photochromic Molecules via Electron and Energy Transfer. 2205046 0
- 121 Redirecting of Charge Transfer Enables the Control of the Photoactivity of Terarylenes. **2022**, 24, 7538-7543 2
- 120 Photoresponsive Supramolecular Polymers: From Light-controlled Small Molecules to Smart Materials. 2204413 1
- 119 Enhanced Sampling Aided Design of Molecular Photoswitches. **2022**, 144, 19265-19271 0
- 118 Correlation between Absorption and Substitution of Photochromic 1,2-Bis(thienyl)ethenes (BTEs) Using Modified Spectroscopic Hammett Equations. 0
- 117 Dithienylethene-Containing Cyclometalated Platinum(II) Complexes with Tunable Photochromic and Photophysical Properties. 0
- 116 Indane Based Molecular Motors: UV-Switching Increases Number of Isomers. **2022**, 27, 6716 0
- 115 Sterically Hindered Diarylethenes with a Benzobis(thiadiazole) Bridge: Enantiospecific Transformation and Reversible Photosuperstructures. **2022**, 55, 3136-3149 4
- 114 Ionic Liquids to Process Silk Fibroin and Wool Keratin for Bio-sustainable and Biomedical Applications. 0
- 113 Inclusion Complexes of Cyclodextrins with 1-(4-Carboxybenzyl)-4-[2-(4-pyridyl)vinyl]pyridinium Chloride: Photochromism, Erasable Inkless Printing, and Color Tuning. 1
- 112 Investigation of Triangle Terthiophene and Hydroxyphenylbenzothiazole Configured Fluorescent Dye with a Triple Bond Bridge. 0
- 111 Harnessing molecular isomerization in polymer gels for sequential logic encryption and anticounterfeiting. **2022**, 8, 1
- 110 Photoinduced movement; how photoirradiation induced the movements of matter. 0
- 109 Flexible metal complex crystals in response to external mechanical stimuli. **2023**, 475, 214890 1
- 108 The interactive effect between the oxazole-containing optical switch nucleus and carbazole-containing salicylidene Schiff base: Enhancing photoreactivity and tuning the ion sensing property. **2023**, 436, 114352 0
- 107 Photo-cyclization, photo-ring opening and thermo-ring opening reaction of cationic diarylethene adsorbed on the clay nanosheet surface. **2023**, 657, 130537 0
- 106 CALCULATION OF THE FÖRSTER RESONANCE ENERGY TRANSFER PARAMETERS IN NANOSPHERES CONTAINING CdSe/ZnS QUANTUM DOTS AND DIARYLETHENE. **2022**, 89, 360-368 0
- 105 Theoretical Study on the Structures, Electronic Properties, and Aromaticity of Thiophene Analogues of Anti-Kekulene. **2022**, 4, 1546-1560 1

- 104 Sterically Hindered Stiff-Stilbene Photoswitch Offers Large Motions, 90% Two-Way Photoisomerization, and High Thermal Stability. ○
- 103 Excitation-Dependent Multicolour Luminescence of Organic Materials: Internal Mechanism and Potential Applications. ○
- 102 Photoswitchable Keto-Enol Tautomerism Driven by Light-Induced Change in Antiaromaticity. ○
- 101 Multistimuli-responsive Photochromism of Vinylene-linked Bisflavin based on the Aggregation and Redox Properties. ○
- 100 Light-Reconfiguring Inhomogeneous Soft Helical Pitch with Fatigue Resistance and Reversibility. **2022**, 144, 20773-20784 ○
- 99 Order recognition by Schubert polynomials generated by optical near-field statistics via nanometre-scale photochromism. **2022**, 12, ○
- 98 Excitation-Dependent Multicolour Luminescence of Organic Materials: Internal Mechanism and Potential Applications. ○
- 97 Nanostructured tungsten oxide as photochromic material for smart devices, energy conversion, and environmental remediation. **2022**, 53, 100555 ○
- 96 Nondestructive All-Optical Readout through Photoswitching of Intramolecular Excimer Emission. 10936-10942 ○
- 95 A multi-responsive diarylethene chemosensor via salicylaldehyde linking fluorescein unit. ○
- 94 Surface supramolecular assemblies tailored by chemical/physical and synergistic stimuli: a scanning tunneling microscopy study. 1
- 93 Multi-state photochromism of bis-tetraarylethene luminogens modulated through oligosilane linkages. **2022**, 10, 18182-18188 ○
- 92 Photo-induced periodical swing deformation of multiple hydrogen bonds crosslinked liquid crystal elastomer. **2023**, 182, 105458 ○
- 91 Bio-inspired color-changing and self-healing hybrid hydrogels for wearable sensors and adaptive camouflage. **2022**, 11, 285-298 ○
- 90 Multifunctional switching properties of wire-like dinuclear ruthenium bis-alkynyl spiropyran complexes. **2022**, 52, 185-200 ○
- 89 Room-temperature bistability in a cobalt-octacyanidotungstate framework showing a charge-transfer phase transition with a red-blue color change. ○
- 88 Dual and sequential locked/unlocked photo-switching effects on FRET processes by tightened/loosened nano-loops of diarylethene-based [1]rotaxanes. ○
- 87 A theoretical framework for the design of molecular crystal engines. ○

- 86 Nonadiabatic molecular dynamics study of a complete photoswitching cycle for a full-size diarylethene system. **2023**, 438, 114513 0
- 85 Combined QM (MS-CASPT2)/MM studies on photocyclization and photoisomerization of a fulgide derivative in toluene solution. **2022**, 24, 29918-29926 0
- 84 Emission modulation of fluorescent turn-on mode dibenzothienyl sulfonyl ethene photoswitches embedded in a polymer film. **2022**, 24, 29791-29800 0
- 83 Light-triggered molecular switch for efficient OFET-based organic memory. 0
- 82 Application of smart responsive materials in phosphopeptide and glycopeptide enrichment. **2022**, 40, 862-871 0
- 81 Multicolor Photochromism of Two-Component Diarylethene Crystals Containing Oxidized and Unoxidized Benzothiophene Groups. **2022**, 12, 1730 1
- 80 Cooperative photochemical reaction kinetics in organic molecular crystals. 0
- 79 Photochemical Ring-Opening Reaction of 1,3-Cyclohexadiene: Identifying the True Reactive State. **2022**, 144, 21878-21886 0
- 78 Photomechanical Motions in Organoboron-Based Phosphorescent Molecular Crystals Driven by a Crystal-State [2 + 2] Cycloaddition Reaction. **2022**, 144, 22051-22058 0
- 77 Visible light-promoted synthesis of bioactive N, N-heterocycles. **2022**, 10, 1
- 76 Photoresponsive Polymer and Polymer Composite Membranes for Gas Separation. 0
- 75 Excited-state resonance Raman spectroscopy probes the sequential two-photon excitation mechanism of a photochromic molecular switch. **2022**, 157, 234302 0
- 74 Diarylethene isomerization using triplet-triplet annihilation photon upconversion. 0
- 73 Thermal and (Thermo-Reversible) Photochemical Cycloisomerization of 1H-2-Benzo[c]oxocins: From Synthetic Applications to the Development of a New T-Type Molecular Photoswitch. 2
- 72 Covalent Functionalization of Black Phosphorus Nanosheets with Photochromic Polymer for Transient Optoelectronic Memory Devices. 2200925 1
- 71 Reactions in single-molecule junctions. 0
- 70 Swift Photochromic Smart Window Based on Plasmonic Yolk-Shell Nanophosphors. 2202171 1
- 69 MetalPhotoswitch Friendship: From Photochromic Complexes to Functional Materials. 1

- 50 Photochromism and Long Persistent Luminescence in Pr³⁺-Doped Garnet Transparent Ceramic via UV or Blue Light Up-Conversion Charging. 2202612 ○
- 49 Ytterbium(III) Complex with Photochromic Ruthenium(II) Acetylide Ligand: All Visible Light Photoswitching of NIR Luminescence. **2023**, 62, 2049-2057 ○
- 48 Exceptionally Flexible Quinodimethanes with Multiple Conformations: Polymorph-Dependent Colour Tone and Emission of Crystals. ○
- 47 Visible-Light-Driven Bistable Photoswitching with Enhanced Solid State NIR-Fluorescence for Multi-Level Optical Storage. ○
- 46 Photoswitchable semiconducting polymer dots for pattern encoding and superresolution imaging. ○
- 45 Green-Light Responsive Perylene Bisimides for Atom-Economic Thiol Generation and Click-Ligation. **2023**, 25, 872-876 ○
- 44 Phototransduction in a supramolecular cascade: a mimic for essential features of the vision process. **2023**, 59, 3431-3434 ○
- 43 A photochromic metallacycle with highly anisotropic Dy^{III} magnetic units. ○
- 42 Stimuli-responsive structure-property switchable polymer materials. ○
- 41 Photo-responsive metal-organic frameworks: Design strategies and emerging applications in photocatalysis and adsorption. **2023**, 4, 1258-1285 ○
- 40 Solid-State Luminescent Molecular Photoswitches. ○
- 39 Molecular modification effects on the electrochromic and photochromic properties of diarylethene with intramolecular isomerization behavior. **2023**, 158, 114701 ○
- 38 Pyrene-dithienylethene-tetra(tri)phenylethylene triads: Photocontrolled intramolecular energy transfer and photochromic fluorescence switching. **2023**, 214, 111231 ○
- 37 Diestervinyl-functionalized acceptor-acceptor type dithienylethenes with efficient photochromic performance. **2023**, 294, 122488 ○
- 36 High-contrast photochromic properties with reversible luminescence modulation behaviors in Ba₃MgSi₂O₈:Sm³⁺ ceramics. **2023**, 258, 119800 ○
- 35 Evaluation of tight-binding DFT performance for the description of organic photochromes properties. **2023**, 158, 074303 ○
- 34 Mathematical modeling of morphological changes in photochromic crystals by catastrophe theory. **2023**, 133, 055110 ○
- 33 Dithienylethene-Based Single Molecular Photothermal Linear Actuator. **2023**, 135, ○

- 32 Dithienylethene-Based Single Molecular Photothermal Linear Actuator. **2023**, 62, ○
- 31 Investigating the Properties of Double Triangle Terthiophene Configured Dumbbell-Like Photochromic Dye with Ethyne and 1,3-Butadiene Bridge. ○
- 30 Crystal structure of photochromic 3-(5-(2,5-dimethylthiophen-3-yl)-2,2,3,3,4,4-hexafluorocyclopentyl)-2-methylbenzo[b]-thiophene, C₂₀H₁₄F₆S₂. **2023**, 238, 343-344 ○
- 29 Isomerization of DASA Molecules in the Nanopores of Metal-Organic Frameworks: What Determines Its Reversibility?**. ○
- 28 Heterocyclic Hemipiperazines: Water-Compatible Peptide-Derived Photoswitches. ○
- 27 Substratverankerte Diarylethen-basierte Filme aus metallorganischem Gerüst als gerichtete Photoaktoren. ○
- 26 Substrate-Bound Diarylethene-Based Anisotropic Metal-Organic Framework Films as Photoactuators with a Directed Response. ○
- 25 Red-light photoswitching of indigos in polymer thin films. **2023**, 14, 2482-2488 ○
- 24 Rational Design of High-Performance Hemithioindigo-Based Photoswitchable AIE Photosensitizer and Enabling Reversible Control Singlet Oxygen Generation. **2023**, 13, 324 ○
- 23 Proton-transfer regulated magnetic coupling characteristics in Blatter-based diradicals. **2023**, 47, 6903-6915 ○
- 22 Tuning the photochemical ring-closing reaction efficiency in diarylethene-based photoswitches through engineering of internal charge transfer. **2023**, 25, 7741-7749 ○
- 21 Large Thermally Irreversible Photoinduced Shift of Selective Light Reflection in Hydrazone-Containing Cholesteric Polymer Systems. ○
- 20 Separation of diarylethene-based photoswitchable isomeric compounds by high-performance liquid chromatography and supercritical fluid chromatography. 2200830 ○
- 19 Crystal Engineering of Two Light and Pressure Responsive Physisorbents. ○
- 18 Crystal Engineering of Two Light and Pressure Responsive Physisorbents. ○
- 17 Photo-Induced Fluorochromism of a Star-Shaped Photochromic Dye with 2,4-Dimethylthiazole Attaching to Triangle Terthiophene. ○
- 16 Selective Expression of Organic Phosphorescence Units: When H-Benzo[f]indole Meets 7H-Benzo[c]carbazole. **2023**, 35, 2624-2634 ○
- 15 Tuned Intra- and Intermolecular Photoreactions of Tridentate Cyanostilbenes with Distinct Aggregated-State Photomechanical and Dispersed-State Photochromic Behaviors. 2212886 ○

- 14 Realizing Photoswitchable Mechanoluminescence in Organic Crystals Based on Photochromism. ○
- 13 Controlling Isomerization of Photoswitches to Modulate 2D Logic-in-Memory Devices by Organic/Inorganic Interfacial Strategy. 2207443 ○
- 12 Designing P-type bi-stable overcrowded alkene-based chiroptical photoswitches. ○
- 11 Dynamics of the energy transfer involved in a diarylethene-perylenebisimide dyad: comparison between the molecule and the nanoparticle level. ○
- 10 Luminescent Mechanochromism and the Photosensitive Effect of Aryl Gold(I) Isocyanide Complexes. **2023**, 53-85 ○
- 9 Photo- and Ionochromic Diarylethenes with Receptor Fragments in the Thiazole Bridge. **2023**, 93, 278-285 ○
- 8 Discovery of Flexible Bonds Based on an Extremely Elongated C-C Single Bond. **2023**, 41-78 ○
- 7 Exploration of molecular machines in supramolecular soft robotic systems. **2023**, 315, 102892 ○
- 6 Phototunable Cell Killing by Photochromic Diarylethene of Thiazoyl and Thienyl Derivatives. ○
- 5 Light-Triggered Reversible Tuning of Second-Harmonic Generation in a Photoactive Plasmonic Molecular Nanocavity. ○
- 4 Mechanical properties and peculiarities of molecular crystals. ○
- 3 Recent Progress in Photoresponsive Biomaterials. **2023**, 28, 3712 ○
- 2 Multifunctional fluorescent diarylethene: time-resolved study of photochemistry. ○
- 1 A simple AIE-active salicylideneaniline towards bimodal encryption-decryption with unique ESIPt-inhibited amorphous state. **2023**, 466, 143353 ○