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Diarylethenes for Memories and Switches

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2326	Synthesis of Amorphous Diarylethenes Having Diphenylethenyl Substituents. 2000 , 29, 1188-1189		9
2325	Fatigue Mechanism of Photochromic 1,2-Bis(3-thienyl)perfluorocyclopentene. 2000 , 29, 1358-1359		51
2324	X-Ray Crystallographic Study on Single-Crystalline Photochromism of 1,2-Bis(2,5-dimethyl-3-thienyl)perfluorocyclopentene. 2000 , 73, 2179-2184		72
2323	Fatigue Mechanism of Photochromic 1,2-Bis(2,5-dimethyl-3-thienyl)perfluorocyclopentene. 2000 , 73, 2389-2394		67
2322	Photochromism of Diarylethenes Having Isopropyl Groups at the Reactive Carbons. Thermal Cycloreversion of the Closed-Ring Isomers. 2000 , 29, 1340-1341		35
2321	Reversible Diastereoselective Photocyclization of a Diarylethene in a Single-Crystalline Phase. 2000 , 122, 9631-9637		129
2320	Novel Photoisomerization of Azoferrocene with a Low-Energy MLCT Band and Significant Change of the Redox Behavior between the cis- and trans-Isomers. 2000 , 122, 12373-12374		54
2319	Photochromism of 1,2-Bis(2-ethyl-5-phenyl-3-thienyl)perfluorocyclopentene in a Single-Crystalline Phase. Conrotatory Thermal Cycloreversion of the Closed-Ring Isomer. 2000 , 122, 12135-12141		96
2318	Photoswitching of Intramolecular Magnetic Interaction Using a Photochromic Spin Coupler: An ESR Study. 2000 , 122, 8309-8310		106
2317	Photoswitching of intramolecular magnetic interaction using diarylethene with oligothiophene pi-conjugated chain. 2001 , 66, 8799-803		76
2316	Photoregulation of fluorescence in a porphyrinic dithienylethene photochrome. 2001 , 123, 1784-5		298
2315	Synthesis and photoisomerization of dithienylethene-bridged diporphyrins. 2001 , 66, 3913-23		153
2314	Synthesis of fluorescent diarylethenes having a 2,4,5-triphenylimidazole chromophore. 2001 , 66, 5419-23		156
2313	Reversible surface morphology changes of a photochromic diarylethene single crystal by photoirradiation. 2001 , 291, 1769-72		516
2312	Improved synthesis of indolyl fulgides. 2001 , 66, 1914-8		34
2311	Reversible [7]-thiahelicene formation using a 1,2-dithienylcyclopentene photochrome. 2001 , 123, 7447-8		65
2310	Effect of saturable response to two-photon absorption on the readout signal level of three-dimensional bit optical data storage in a photochromic polymer. 2001 , 79, 148-150		16

2309	Photoswitching of the magnetic properties of one-dimensional π -electron systems. Part II. Conjugated polymers with di-hetarylethene and benzylidene-anthrone fragments in the elementary units. 2001 , 3, 4600	10
2308	Photochromism of ClayDiarylethene Hybrid Materials in Optically Transparent Gelatin Films. 2001 , 13, 2012-2016	57
2307	Photoswitching of intramolecular magnetic interaction using a diarylethene dimer. 2001 , 123, 9896-7	120
2306	Conformational switching and exciton interactions in hemicyanine-based bichromophores. 2001 , 123, 7859-65	62
2305	Three-dimensional erasable optical memory using a photochromic diarylethene single crystal as the recording medium. 2001 , 77, 30-35	61
2304	Photochromism of Diarylethenes on Porous Aluminum Oxide: Fatigue Resistance and Redox Potentials of the Photochromes. 2001 , 30, 366-367	4
2303	Photoswitching of Intramolecular Magnetic Interaction Using Photochromic Diarylethene Spin Coupler: Introduction of Thiophene Spacer. 2001 , 30, 436-437	15
2302	Synthesis of Fluorescent Amorphous Diarylethenes. 2001 , 30, 702-703	30
2301	Extraordinarily Low Cycloreversion Quantum Yields of Photochromic Diarylethenes with Methoxy Substituents. 2001 , 30, 618-619	49
2300	Photochromism of a Dithienylethene Having Diphenylamino Side Groups in the Bulk Amorphous Phase. 2001 , 30, 70-71	13
2299	A Novel Photochromic Amorphous Molecular Material Based on Bisthienylethene with a Spiro-linker. 2001 , 30, 990-991	21
2298	Photoswitching of magnetic interaction: diarylethene photochromic spin couplers. 2001 , 20, 1391-1395	15
2297	Photoswitching of the magnetic properties of one-dimensional π -electron systems. 2001 , 265, 165-175	11
2296	Diastereoselective cyclization of a diarylethene having a chiral N -phenylethylamide substituent in crystals. 2001 , 42, 7291-7293	32
2295	Reaction and excited state relaxation dynamics of photochromic dithienylethene derivatives. 2001 , 94-95, 51-54	11
2294	Synthesis and photochromic properties of 1,2-dicyano[2.n]metacyclophan-1-enes. 2001 , 42, 4345-4347	17
2293	Photokinetic behaviour of biphotochromic supramolecular systems: Part 2. A bis-benzo-[2H]-chromene and a spirooxazinechromene with a (Z)-ethenic bridge between each moiety. 2001 , 139, 133-141	23
2292	Synthesis and structural analysis of 1,4-bis[n-(N,N-dimethylamino)phenyl]buta-1,3-diyne and charge-transfer complexes with TCNE. 2001 , 14, 859-868	25

- 2291 Nondestructive Data Processing Based on Chiroptical 1,2-Dithienylethene Photochromes. **2001**, 113, 1802-1805 16
- 2290 Molecular signal transduction by conformational transmission: use of tetrasubstituted perhydroanthracenes as transducers. **2001**, 7, 2075-88 33
- 2289 Nondestructive Data Processing Based on Chiroptical 1,2-Dithienylethene Photochromes. **2001**, 40, 1752-1755 156
- 2288 Relaxation pathways and fs dynamics in a photoswitchable intramolecular D->A energy transfer system. **2001**, 343, 83-90 47
- 2287 Molecular Memory and Processing Devices in Solution and on Surfaces. **2001**, 237-281 27
- 2286 Carrier Injection/Transport Characteristics of Photochromic Diarylethene Film. **2001**, 40, 7029-7030 16
- 2285 Refractive Index Change of an Amorphous Bisbenzothienylethene. **2001**, 40, 2518-2522 50
- 2284 Two-photon induced fluorescence of diarylethene molecule. **2002**, 31, 1224-1225 34
- 2283 Absorption Spectra of Colored Isomer of Diarylethene in Single Crystals. **2002**, 31, 1224-1225 34
- 2282 Photochromic Films Prepared by Oxidation Polymerization of a Diarylethene Having Phenol Moieties. **2002**, 31, 476-477 13
- 2281 Single-Crystalline Photochromism of Diarylethene Mixtures. **2002**, 75, 167-173 27
- 2280 Thermal Cycloreversion Reaction of a Photochromic Dithienylperfluorocyclopentene with tert-Butoxy Substituents at the Reactive Carbons. **2002**, 31, 572-573 17
- 2279 Single-Crystalline Photochromism of Bis[2-(aminomethyl)pyridine]platinum(II) Chloride Monohydrate. **2002**, 31, 930-931 6
- 2278 Synthesis and Physical Property of a Novel Diarylethene Derivative Having a Chryso[b]thiophene Ring. **2002**, 31, 58-59 9
- 2277 Synthesis and multiwavelength optical recording properties of two new photochromic diarylethenes. **2002**, 4930, 426
- 2276 An ab Initio MO Study of the Photochromic Reaction of Dithienylethenes. **2002**, 106, 7222-7227 111
- 2275 Structure and thermodynamics of carbon and carbon/silicon precursors to nanostructures. **2002**, 124, 6144-52 5
- 2274 Efficient photocyclization of dithienylethene dimer, trimer, and tetramer: quantum yield and reaction dynamics. **2002**, 124, 2015-24 119

2273	Bistable ferroelectric liquid crystal photoswitch triggered by a dithienylethene dopant. 2002 , 124, 7898-9	67
2272	An Optical and Theoretical Investigation of the Ultrafast Dynamics of a Bisthienylethene-Based Photochromic Switch. 2002 , 106, 8498-8507	88
2271	Solvent Viscosity Effects on Photochromic Reactions of a Diarylethene Derivative As Revealed by Picosecond Laser Spectroscopy. 2002 , 106, 8096-8102	55
2270	Reversed Photoswitching of Intramolecular Magnetic Interaction Using A Photochromic Bis(2-thienyl)ethene Spin Coupler. 2002 , 106, 11218-11225	60
2269	Magnetic Properties of Langmuir-Blodgett Films: A Theoretical Study. 1. Photoswitching of the Magnetic Properties of Langmuir Films. 2002 , 18, 10030-10034	5
2268	Ring-Opening and -Closure Reaction Dynamics of a Photochromic Dithienylethene Derivative. 2002 , 106, 1654-1660	63
2267	Photoinduced reversible optical gratings in photochromic diarylethene-doped polymeric thin films. 2002 , 19, 2032	18
2266	Synthesis of photochromic 1,2-diheteroarylethene using regioselective acylation of thienopyrroles. 2002 , 4, 3879-81	23
2265	Synthesis of photochromic derivatives of cyclobutene-1,2-dione. 2002 , 12, 141-143	17
2264	Diheteroarylethenes as thermally stable photoswitchable acceptors in photochromic fluorescence resonance energy transfer (pcFRET). 2002 , 124, 7481-9	345
2263	Excited state properties of some 1-(9-anthryl)-2-naphthylethene and 1-(9-anthryl)-2-quinolyethene derivatives. 2002 , 4, 5088-5095	14
2262	Dynamics of photoinduced changes in birefringence and dichroism in a nematic phase containing an azobenzene as dopant. 2002 , 1, 507-13	5
2261	A dithienylethene-tethered beta-cyclodextrin dimer as a photoswitchable host. 2002 , 2734-5	42
2260	Regulating pi-conjugated pathways using a photochromic 1,2-dithienylcyclopentene. 2002 , 2274-5	28
2259	A remarkably efficient synthesis of pure cis-stilbenoid hydrocarbons using trans-dibromoalkenes via palladium catalysis. 2002 , 124, 14832-3	31
2258	Reversible Photocontrollable Magnetic Vesicles Consisting of Azobenzene. 2002 , 14, 4846-4850	24
2257	Theoretical study of an intermediate, a factor determining the quantum yield in photochromism of diarylethene derivatives. 2002 , 579, 115-120	53
2256	Asymmetrische Photochemie und Photochirogenese. 2002 , 114, 3279-3286	25

2255	Asymmetric photochemistry and photochirogenesis. 2002 , 41, 3147-54	140
2254	Digital Processing and Communication with Molecular Switches. 2002 , 14, 401-414	585
2253	Photochemistry of Anils in NaY Zeolite. 2002 , 2002, 2074	33
2252	Optical and thermal properties of photochromic fluorinated adamantylidene indolylfulgides. 2002 , 147, 39-44	19
2251	A photochromic acceptor as a reversible light-driven switch in fluorescence resonance energy transfer (FRET). 2002 , 150, 177-185	51
2250	Photochromic reactivity of a dithienylethene dimer. 2002 , 152, 141-146	36
2249	Photochromism of dihydroindolizines. Part II Synthesis and photophysical properties of new photochromic IR-sensitive photoswitchable substituted fluorene-9?-styrylquinolinedihydroindolizines. 2002 , 15, 392-402	29
2248	Thermal stability of the π spironaphthoxazine colored form in π polymeric siloxanes. 2002 , 13, 81-86	15
2247	Synthesis and photochromic behaviour under flash photolysis and continuous irradiation of novel 2H-chromenes derived from hydroxydibenzothiophenes. 2002 , 58, 1709-1718	20
2246	Electronic spectrum of a photochromic diarylethene derivative in a supersonic free jet. Internal conversion from S ₂ (1B) to S ₁ (2A). 2002 , 616, 113-118	36
2245	Novel intramolecular photocyclization of tris(2-benzo[b]thienyl)methyl alcohol. 2002 , 43, 8669-8672	10
2244	Organic chemistry: a digital fluorescent molecular photoswitch. 2002 , 420, 759-60	1012
2243	Raman spectroscopic study on photochromic reaction of a diarylethene derivative. 2002 , 357, 113-118	24
2242	Ultrafast photoinduced ring-closure dynamics of a diarylethene polymer. 2002 , 359, 278-282	31
2241	Synthesis and Applications of Amorphous Diarylethenes. 2002 , 541-552	
2240	Photochromic Dihetarylethenes: XVI. Synthesis of 1,2-Dihetarylethenes on the Basis of Thieno[3,2-b]pyrrole. 2002 , 38, 1331-1334	8
2239	Electrical carrier-injection and transport characteristics of photochromic diarylethene films. 2003 , 83, 4978-4980	45
2238	Synthesis and application on parallel image storage of bisfurylfulgide. 2003 , 46, 445	

2237	A circular dichroism detection of stereostructural change due to amine protonation. 2003 , 44, 8311-8314	2
2236	Multifrequency photochromic recording and nondestructive readout using IR light. 2003 , 4, 1124-7	30
2235	A photochromic liquid crystal system. 2003 , 4, 101-3	23
2234	Photochromic Properties of Perhydro- and Perfluorodithienylcyclopentene Molecular Switches. 2003 , 2003, 1887-1893	52
2233	Non-Destructive Readout of the Photochromic Reactions of Diarylethene Derivatives Using Infrared Light. 2003 , 15, 121-125	83
2232	Preparation and photochromic properties of diarylethene nanoparticles. 2003 , 380, 206-212	31
2231	Picosecond and femtosecond laser photolysis studies of a photochromic diarylethene derivative: multiphoton gated reaction. 2003 , 371, 40-48	51
2230	Experimental and theoretical study of a new C ₁₀ N ₈ compound. Reversible photoisomerization between 2,3,6,7-tetracyano-1,4,5,8-tetraazanaphthalene and 4,5,9,10-tetracyano-1,3,6,8-tetraazacyclodeca-1,2,4,6,7,9-hexaene in low-temperature rare-gas matrices. 2003 , 375, 605-611	3
2229	Photoswitching of dipole moments, charge-transfer and spectroscopic properties. 2003 , 379, 11-19	6
2228	Synthesis and photochromic reactivity of a diarylethene dimer linked by a phenyl group. 2003 , 59, 8359-8364	84
2227	A novel non-destructible readout molecular memory. 2003 , 223, 61-66	32
2226	The allomorphism of a photochromic diarylethene. 2003 , 44, 1011-1014	33
2225	Synthesis of nanostructures based on 1,4- and 1,3,5-phenylethynyl units with π -extended conjugation. Carbon networks dendrimer base units. 2003 , 44, 4831-4834	19
2224	Synthesis of carbon dendron nano-chains with π -extended conjugation based on linear 1,4-phenylethynyl and 1,5-naphthylethynyl subunits. 2003 , 44, 6375-6378	15
2223	π -Extended conjugate phenylacetylenes. Synthesis of 4-[(E) and (Z)-2-(4-ethenylphenyl)ethenyl]pyridine. Dimerization, quaternation and formation of charge-transfer complexes. 2003 , 59, 1021-1032	15
2222	Chromened t-butylcalix[4]arenes: cooperation effect of chromene and calixarene moieties on photochromism and metal-ion binding ability. 2003 , 59, 4135-4142	10
2221	Synthesis of oligo(p-phenylene π -inylene π -thienylene)s as potential red light-emitting materials. 2003 , 59, 5193-5198	12
2220	Efficient synthesis and photochromic properties of 2,3-position hybrid diarylethene derivatives. 2003 , 59, 7615-7621	32

2219	Photochromic behavior of new bifunctional copolymer containing spiropyran and chalcone moiety in the side chain. 2003 , 58, 105-112	20
2218	Theoretical study on novel quantum yields of dithienylethenes cyclization reactions in crystals. 2003 , 625, 227-234	20
2217	Steric substituent effects of new photochromic tetrahydroindolizines leading to tunable photophysical behavior of the colored betaines. 2003 , 154, 131-144	24
2216	Photoswitching of the magnetic properties of one-dimensional π -electron systems. 2003 , 155, 21-27	4
2215	Study of photochemically photochromism of 1,2-bis-[5-(4-methoxyphenyl)-2-methylthien-3-yl]perfluorocyclopentene using two-dimensional FT-IR spectroscopy. 2003 , 31, 257-263	6
2214	Fluorescence modulation in photochromic amorphous diarylethenes. 2003 , 21, 271-274	26
2213	Fluorescence switching of photochromic diarylethenes. 2003 , 21, 275-278	37
2212	Preparation of diarylethene copolymers and their photoinduced refractive index change. 2003 , 21, 279-284	28
2211	Multi-wavelength optical storage of diarylethene PMMA film. 2003 , 22, 269-274	41
2210	Synthesis and photochromic reaction of 1,2-diphenylperfluorocyclopentenes. 2003 , 16, 148-151	35
2209	Multicolour photochromism of TiO ₂ films loaded with silver nanoparticles. 2003 , 2, 29-31	566
2208	Organic bistable molecular memory using photochromic diarylethene. 2003 , 83, 937-939	115
2207	Picosecond Time-Resolved Stokes and Anti-Stokes Raman Studies on the Photochromic Reactions of Diarylethene Derivatives. 2003 , 107, 5384-5390	39
2206	Refractive Index Changes of Amorphous Diarylethenes Containing 2,4-Diphenylphenyl Substituents. 2003 , 15, 4539-4543	86
2205	Photochemical electrocyclization of the indolinyphenylethenes involving a C-N bond formation. 2003 , 5, 4533-5	20
2204	Newer optical-based molecular devices from older coordination chemistry. 2003 , 1902-1913	163
2203	Synthesis and spectroscopic properties of finite Ph ₂ N-containing oligo(arylenevinylene) derivatives that emit blue to red fluorescence. 2003 , 5, 1131-4	61
2202	Kinetics of diffraction gratings formation in a polymer matrix containing azobenzene chromophores: Experiments and Monte Carlo simulations. 2003 , 119, 6789-6801	23

2201	Can Diarylethene Photochromism Be Explained by a Reaction Path Alone? A CASSCF Study with Model MMVB Dynamics. 2003 , 107, 11139-11152	151
2200	Diastereoselective photochromism of a bisbenzothienylethene governed by steric as well as electronic interactions. 2003 , 125, 7194-5	78
2199	Photochemically Induced Fluorescence Control with Intermolecular Energy Transfer from a Fluorescent Dye to a Photochromic Diarylethene in a Polymer Film. 2003 , 36, 964-966	58
2198	Fluorescence of Photochromic 1,2-Bis(3-methyl-2-thienyl)ethene. 2003 , 107, 8372-8377	113
2197	Ring Opening Dynamics of a Photochromic Diarylethene Derivative in Solution \square 2003 , 107, 8106-8110	62
2196	Diastereoselective cyclization in chiral diarylethene crystals: polymorphism and selectivity. 2003 , 5, 1769-72	50
2195	Syntheses and structures of photochromic silver(I) coordination polymers with cis-1,2-dicyano-1,2-bis(2,4,5-trimethyl-3-thienyl)ethene. 2003 , 42, 1928-34	57
2194	Synthesis and photochromic properties of functional diarylethene with a 2,5-dihydrothiophene bridging unit. 2003 , 5, 1435-7	55
2193	Electrochromism in photochromic dithienylcyclopentenes. 2003 , 125, 3404-5	210
2192	Novel photochromic compounds based on the 1-thienyl-2-vinylcyclopentene backbone. 2003 , 5, 1183-6	66
2191	Additional Literature Chapter 7 - Diarylethanes. 2003 , A23-A31	
2190	A new axially-chiral photochemical switch. 2003 , 598-9	98
2189	Cis-trans isomerization of organic molecules and biomolecules: implications and applications. <i>Chemical Reviews</i> , 2003 , 103, 2475-532	68.1 791
2188	Synthesis of nanostructures based on 1,4- and 1,3,5-ethynylphenyl subunits with pi-extended conjugation. Carbon dendron units. 2003 , 68, 8120-8	54
2187	Mechanistic studies on the photochromism of [e]-annelated dimethyldihydropyrenes. 2003 , 2, 104-12	32
2186	Conformer-specific photoisomerization of some 2-vinylbiphenyls. 2003 , 2, 1059-66	22
2185	NMR characterisation of photo-electrocyclised structures of a spirooxazine derivative. 2003 , 2, 978-80	5
2184	Photochromism of diarylethenes in nanolayers of a single crystal. 2003 , 2, 1088-94	24

2183	A novel photoreversible photochromic system involving a hydrogen transfer/cyclization sequence. 2003 , 2080-1	13
2182	8 Photochromism. 2003 , 99, 277-313	99
2181	Photochromic porphyrins. 2003 , 07, 313-317	7
2180	Nonvolatile read-out molecular memory. 2003 , 100, 8109-12	79
2179	Diarylethene Materials for Rewritable Volume Holographic Data Storage. 2003 , 20, 1051-1053	14
2178	Diarylethene-based photochromic rewritable optical storage media for short-wavelength recording. 2003 ,	
2177	Temperature enhancement of photoactivity of N-triphenylmethylsalicylidene imine in solid state. 2003 , 5136, 301	
2176	Efficient Photocycloreversion Reaction of Diarylethenes by Introduction of Cyano Substituents to the Reactive Carbons. 2003 , 32, 858-859	34
2175	Extraordinarily High Thermal Stability of the Closed-ring Isomer of 1,2-Bis(5-methyl-2-phenylthiazol-4-yl)perfluorocyclopentene. 2003 , 32, 892-893	59
2174	Reversible Change in Optical Rotation by Photochromism of Diarylethenes in the Stretched DNA Quaternary Ammonium Ion Complex Films. 2003 , 32, 806-807	7
2173	Synthesis of two new kinds of photochromic diarylethenes and their properties of optical recording in PMMA film. 2003 ,	
2172	Intercalation and Photochemical Behavior of Azobenzene Derivatives with Layered Polymer Crystals as the Organic Host. 2003 , 32, 712-713	9
2171	Synthesis and Photochromism of Diarylethenes with Isopropyl Groups at the Reactive Carbons and Long Conjugated Heteroaryl Groups. 2003 , 32, 1078-1079	47
2170	A Novel Bisthienylethene as Acidichromic and Photochromic Yellow Dye. 2003 , 32, 1116-1117	16
2169	Photochromic and Fluorescent Properties of a Diarylethene Dimer. 2003 , 32, 848-849	37
2168	Very High Cyclization Quantum Yields of Diarylethene Having Two N-Methylpyridinium Ions. 2003 , 32, 1178-1179	40
2167	Fluorescence Property of Photochromic Diarylethenes with Indole Groups. 2003 , 76, 1625-1628	91
2166	Photoisomerization and Fluorescence Properties of Hemiindigo Compounds Having Intramolecular Hydrogen Bonding. 2003 , 76, 1783-1792	22

2165	Synthesis of Novel Thermally Reversible Photochromic Spiro[adamantane-2,7?(6?H)-benzothiophene]. 2003 , 76, 355-361	12
2164	Synthesis of Novel Thermally Irreversible Photochromic 1-Aryl-1,3-butadiene Derivatives. 2003 , 76, 363-367	31
2163	Preparation and Holographic Recording of Diarylethene-Doped Photochromic Films. 2003 , 25, 253-257	17
2162	Crystal structure of 3,3,4,4,5,5-hexafluoro-1,2-bis{5-[2-(1,3-dithiocyclopentyl)]-2-methyl-3-thienyl}-cyclopent-1-ene, C ₂₁ H ₁₈ F ₆ S ₆ . 2004 , 219, 505-506	
2161	Molecular Switches. 2004 , 917-924	
2160	Novel Nondestructive Readout Methods For Near-field Optical Recording with Large Refractive Index Modulation in Amorphous Diarylethene Layer. 2004 , 43, 1625-1630	6
2159	Ultrafast excited-state dynamics in photochromic N-salicylideneaniline studied by femtosecond time-resolved REMPI spectroscopy. 2004 , 121, 9436-42	64
2158	Photocurrent detection from photochromic diarylethene film. 2004 , 85, 3128-3130	15
2157	Photochromic fluorescence resonance energy transfer (pcFRET): formalism, implementation, and perspectives. 2004 ,	7
2156	Theoretical Approaches to the Design of Functional Nanomaterials. 2004 , 15, 119-170	5
2155	Stimuli-responsive Polymers. 2004 , 81-116	
2154	PREPARATION OF MEROCYANINE SALTS BY TREATMENT OF ACIDS ON SPIROPYRANS AND INVESTIGATION ON THEIR PHOTOCHROMIC BEHAVIORS. 2004 , 13, 575-579	2
2153	Towards Spin Crossover Applications. 221-249	516
2152	Molecular and nanoscale materials and devices in electronics. 2004 , 111, 133-57	67
2151	Synthesis and photochromic properties of novel yellow developing photochromic compounds. 2004 , 60, 6155-6161	104
2150	Photochromic properties of diarylethene derivatives having chryso[b]thiophene rings. 2004 , 60, 9863-9869	41
2149	Photoswitchable organic nanoparticles and a polymer film employing multifunctional molecules with enhanced fluorescence emission and bistable photochromism. 2004 , 43, 6346-50	445
2148	Photoswitchable Organic Nanoparticles and a Polymer Film Employing Multifunctional Molecules with Enhanced Fluorescence Emission and Bistable Photochromism. 2004 , 116, 6506-6510	56

2147	Room Temperature Nematic Photoswitchable Liquid Crystals [Molecular Modularisation of Functional Elements. 2004 , 2004, 636-642	24
2146	Photochromic Copolymers Containing Bisthienylethene Units. 2004 , 205, 1497-1507	34
2145	Seasoning materials chemistry by using a well-matured organic concept. 2004 , 10, 4389-94	24
2144	cis/trans photoisomerization of secondary thiopeptide bonds. 2004 , 10, 6093-101	26
2143	Photochromic fulgide for holographic recording. 2004 , 26, 75-77	93
2142	One-dimensional structure of a photochromic coordination polymer composed of 1,2-bis[2-methyl-5-(4-pyridyl)-3-thienyl]cyclopentene and Zn(II) chloride. 2004 , 357, 3382-3384	17
2141	Large geometrical structure changes of photochromic diarylethenes upon photoirradiation. 2004 , 45, 1155-1158	44
2140	Novel radial oligothieryl silanes. 2004 , 45, 3109-3111	15
2139	Synthesis and optical properties of conjugated N,N-dimethyl and thienyl end-capped 2,5-(arylethynyl)thiophene oligomer structures. 2004 , 45, 7061-7064	12
2138	Synthesis and photochromism of a new binuclear porphyrinato magnesium(II). 2004 , 45, 7737-7740	29
2137	9-Anthroylacetone and its photodimer. 2004 , 60, 11959-11968	10
2136	Novel sulfoxide-introducing reaction and photochromic reactions of ethenylsulfinyl derivatives of dithienylethenes. 2004 , 165, 97-102	14
2135	Reversible control of properties of materials by thermally irreversible photochromism. 2004 , 166, 9-18	32
2134	Rhenium(I) tricarbonyl complexes with photoisomerizable ligands. 2004 , 23, 2955-2958	30
2133	Solid-phase synthesis and photochromic switching of a polymeric photochromic layer on a gold surface. 2004 , 27, 435-439	20
2132	On photoinduced double-proton transfer reactions: the photophysics of the 9H-imidazo[1,2-a]benzimidazole dimer. 2004 , 305, 175-185	8
2131	Laser processing of silicon at submicron scale using photochromic films. 2004 , 230, 411-417	8
2130	'Optical' fatigue in a solid state diarylethene polymer. 2004 , 392, 549-554	18

2129	Dynamics and mechanisms of the multiphoton gated photochromic reaction of diarylethene derivatives. 2004 , 126, 14764-72	100
2128	Multistate properties of 7-(N,N-diethylamino)-4'-hydroxyflavylium. An example of an unidirectional reaction cycle driven by pH. 2004 , 2, 2802-8	32
2127	Self-assembled metal-organic squares derived from linear templates as exemplified by a polydentate ligand that provides access to both a polygon and polyhedron. 2004 , 270-1	22
2126	Bis(phenylthienyl)ethene-tethered beta-cyclodextrin dimers as photoswitchable hosts. 2004 , 2, 1748-55	40
2125	Linked photoswitches where both photochromes open and close. 2004 , 6, 1729-32	37
2124	Theoretical study on the photochromic cycloreversion reactions of dithienylethenes; on the role of the conical intersections. 2004 , 126, 12112-20	104
2123	7-trifluoromethylquinoline-functionalized luminescent photochromic spiropyran with the stable merocyanine species both in solution and in the solid state. 2004 , 69, 8924-31	39
2122	Multistep Thermal Relaxation of Photoisomers in Polyphotochromic Molecules. 2004 , 108, 10934-10940	22
2121	Design of mesomorphic diarylethene-based photochromes. 2004 , 126, 15382-3	49
2120	A photochromic liquid crystal system. 2004 ,	
2119	Diastereoselective photochromism of bisbenzothienylethenes with an oxycarbonyl-related functional group on the side chain. 2004 , 69, 8403-6	31
2118	First-principles study of salicylideneaniline molecular crystals: Tautomerization reaction involving intermolecular hydrogen bonds. 2004 , 69,	14
2117	Concatenation of two molecular switches via a Fe(II)/Fe(III) couple. 2004 , 6, 2491-4	44
2116	Photochromism of a novel 6pi conjugate system having a bis(2,3'-benzothienyl) unit. 2004 , 1010-1	16
2115	The Literature of Heterocyclic Chemistry, Part VIII, 1999-2001. 2004 , 87, 1-83	14
2114	Study on photochromic diarylethene with phenolic Schiff base: preparation and photochromism of diarylethene with benzoxazole. 2004 , 69, 5037-40	55
2113	Near-Field Optical Addressing of Luminescent Photoswitchable Supramolecular Systems Embedded in Inert Polymer Matrices. 2004 , 4, 835-839	29
2112	Photo-, thermo-, solvato-, and electrochromic spiroheterocyclic compounds. <i>Chemical Reviews</i> , 2004 , 104, 2751-76	68.1 757

2111	Novel thiophene oligomers containing a redox active hexaarylethane unit. 2004 , 6, 2523-6	37
2110	Introduction. 2004 , 12, 205	1
2109	Photochemically Reversible Luminescence Lifetime Switching in Metal-Organic Systems. 2004 , 108, 10619-10622	40
2108	Correlating electrical properties and molecular structure of SAMs organized between two metal surfaces. 2004 , 147, 11-18	17
2107	Coordination-driven self-assembly directs a single-crystal-to-single-crystal transformation that exhibits photocontrolled fluorescence. 2004 , 126, 9158-9	258
2106	Organische Chemie 2003. 2004 , 52, 267-291	
2105	Rewriting optical elements. 2004 , 5494, 545	2
2104	Photoelectrochromic Dithienylperfluorocyclopentene Derivatives. 2004 , 33, 1006-1007	48
2103	The Effect of Layered Sodium Magadiite on the Photochromic Reversibility of Diarylethene Immobilized on Its Surfaces. 2004 , 33, 1116-1117	10
2102	Photochromic Properties of Diarylethene Maleimide Derivatives in Polar Solvents. 2004 , 33, 1398-1399	21
2101	Single-Crystalline Photochromism of a Diarylethene Dimer. 2004 , 77, 945-951	58
2100	Single-Crystalline Photochromism of Diarylethenes. 2004 , 77, 195-210	211
2099	Photochromism of Diarylethene-capped Gold Nanoparticles. 2004 , 33, 456-457	41
2098	Non-destructive Readout of the Photochromic Recording Using the IR Light in the Near Field. 2004 , 33, 786-787	17
2097	Photochromism of Furylfulgide in a Single-crystalline Phase. 2004 , 33, 904-905	13
2096	Photochromism of a Diarylethene Trimer in a Bulk Amorphous Phase. 2004 , 33, 1380-1381	6
2095	Reversible Optical Rotation Change According to the Enantiospecific Photochromic Reaction of [2.2]Metacyclophan-1-ene. 2004 , 33, 844-845	19
2094	Semiclassical Nonadiabatic Trajectory Computations In Photochemistry: Is The Reaction Path Enough To Understand A Photochemical Reaction Mechanism?. 2005 , 16, 171-190	5

- 2093 Writing/readout characteristics of photochromic diarylethenes in photon-mode optical data recording. **2005**,
- 2092 Synthesis of novel photochromic dithienylethenes and investigation on their optoelectronic properties. **2005**, 5643, 299
- 2091 Photochromic dynamics of diarylethene compounds in solution and in PMMA amorphous film. **2005**,
- 2090 A novel anti-piracy optical disk with photochromic diarylethene. **2005**,
- 2089 Synthesis of a novel dithienylethene and application to holographic optical storage. **2005**, 5966, 266 0
- 2088 Studies of organic photonic high-density read-only memory (OP-ROM). **2005**,
- 2087 Photoreactive third-harmonic generation via either one- or two-photon excitation in diarylethene-polymethylmethacrylate polymer thin films: theory and experiment. **2005**,
- 2086 Fluorescent Redox-Switchable Devices. **2005**, 189-218 12
- 2085 Crystalline Photochromism of 2-Propynylallene Derivatives. **2005**, 78, 294-299 14
- 2084 One Pot Synthesis of Photochromic Maleic Anhydride Derivatives. **2005**, 34, 64-65 8
- 2083 Direct Measurement of Photochromic Durability at the Single-molecule Level. **2005**, 34, 676-677 15
- 2082 Photochromic Oligothiophenes. **2005**, 34, 1580-1581 11
- 2081 Negative Photochromism of a Spiropyran in a Langmuir-Blodgett Film. **2005**, 34, 1622-1623 10
- 2080 Photoswitching of Intramolecular Magnetic Interaction Using Diarylethene Photochromic Spin Couplers. **2005**, 78, 383-392 22
- 2079 Photochromism of Diarylethene Maleimide Derivatives. **2005**, 78, 1145-1148 9
- 2078 Synthesis and photochromic properties of phenanthropyran derivative substituted with styryl group. **2005**, 170, 169-175 4
- 2077 Synthesis and spectrokinetic studies of a new family of thiophenic [2H]-chromens. **2005**, 171, 173-180 5
- 2076 Raman spectra study of photochromic diarylethene in a single crystalline phase. **2005**, 171, 205-208 6

2075	Photochromism of organic compounds in the crystal state. 2005 , 6, 207-226	215
2074	Effective photoswitching of intramolecular magnetic interaction by diarylethene: Backgrounds and applications. 2005 , 24, 2477-2483	16
2073	Synthesis of a new diarylethene diradical which has extended π -conjugated chains from the 2,5-position of one thiophene ring. 2005 , 24, 2484-2490	16
2072	Solubility of a spiroindolinonaphthoxazine photochromic dye in supercritical carbon dioxide: Experimental determination and correlation. 2005 , 238, 120-128	38
2071	Synthesis and photochromic properties of a dithia-dithienylethenophane. 2005 , 46, 431-433	10
2070	Synthesis, structure and fluorescence of a novel diarylethene. 2005 , 46, 871-875	95
2069	Photoswitch based on remarkably simple naphthopyrans. 2005 , 46, 3257-3259	37
2068	One-step synthesis and photochromic properties of a stable triangle terthiophene. 2005 , 46, 5409-5412	59
2067	A multi-photo responsive photochromic dithienylethene containing coumarin derivative. 2005 , 46, 9009-9012	36
2066	Reversible photomagnetism in a cobalt layered compound coupled with photochromic diarylethene. 2005 , 134, 777-782	22
2065	Carbon dendron nano-chains with π -extended conjugation based on end-capped N,N-dimethylamino in linear 1,4-phenylethynyl or in 1,5-naphthylethynyl subunits: fluorescence analysis. 2005 , 61, 2047-2054	9
2064	Selective photoswitching of a dyad with diarylethene and spiropyran units. 2005 , 61, 3719-3723	32
2063	Syntheses and optoelectronic properties of four photochromic dithienylethenes. 2005 , 61, 6623-6629	115
2062	Synthesis of n-chloroquinolines and n-ethynylquinolines (n=2, 4, 8): homo and heterocoupling reactions. 2005 , 61, 9042-9051	20
2061	Electronic energy transfer in a dinuclear Ru/Os complex containing a photoresponsive dithienylethene derivative as bridging ligand. 2005 , 249, 1327-1335	77
2060	A theoretical study of cyclohexadiene/hexatriene photochemical interconversion: multireference configuration interaction potential energy surfaces and transition probabilities for the radiationless decays. 2005 , 401, 487-491	48
2059	A theoretical measurement of the quantum transport through an optical molecular switch. 2005 , 412, 55-59	64
2058	Effect of imino nitroxyl and nitronyl nitroxyl groups on the photochromic reactivity of diarylethenes. 2005 , 7, 3777-80	55

2057	A comparative study of the spectral and kinetic properties of photochromic dihetarylethenes based on maleic anhydride and maleimide. 2005 , 99, 573	8
2056	A comparative study of the spectral and kinetic properties of photochromic derivatives of perfluorocyclopentene diarylethenes. 2005 , 99, 714	5
2055	The generic enhancement of photochromic dye switching speeds in a rigid polymer matrix. 2005 , 4, 249-53	208
2054	Photochromic materials: a molecular cushion for isomerization. 2005 , 4, 193-4	10
2053	Photochromism of Dithienylethenes Containing Fluorinated Thiophene Rings. 2005 , 2005, 91-97	48
2052	End-Capped, Conjugated (Dimethylamino)naphthyl Nanostructures with Alternating (1-Naphthylethynyl-p-phenylethynyl) _x Branches on a 1,3,5-Substituted Benzene Core. 2005 , 2005, 360-367	4
2051	Synthesis, Structure, and Photochromic Properties of Dithia-(dithienylethene)phane Derivatives. 2005 , 2005, 2771-2776	21
2050	Bio-Inspired Multistate Networks Responsive to Light, pH and Thermal Inputs □An Example of a Multistate System Operating Through Different Algorithms. 2005 , 2005, 4187-4200	23
2049	High-density data recording in an optoelectrical dual-responsive thin film. 2005 , 6, 1478-82	12
2048	Two-photon photochromism of diarylethene dimer derivatives. 2005 , 6, 2300-6	47
2047	Selective photoreactions in a programmable array microscope (PAM): photoinitiated polymerization, photodecaging, and photochromic conversion. 2005 , 67, 68-75	14
2046	Smart focal plane masks: rewritable photochromic films for astronomical multi-object spectroscopy. 2005 , 326, 370-374	12
2045	Conformational control of photochromic reactivity in a diarylethene single crystal. 2005 , 44, 2148-51	36
2044	Photoswitching of stereoselectivity in catalysis using a copper dithienylethene complex. 2005 , 44, 2019-21	133
2043	Multiple addressing in a hybrid biphotochromic system. 2005 , 44, 5048-52	67
2042	One shot laser pulse induced reversible spin transition in the spin-crossover complex [Fe(C ₄ H ₄ N ₂){Pt(CN) ₄ }] at room temperature. 2005 , 44, 4069-73	278
2041	Improvement in photocyclization efficiency of diaryl ethenes by adjusting the pore size of mesoporous silica. 2005 , 44, 7233-6	13
2040	Conformational Control of Photochromic Reactivity in a Diarylethene Single Crystal. 2005 , 117, 2186-2189	9

2039	Photoswitching of Stereoselectivity in Catalysis Using a Copper Dithienylethene Complex. 2005 , 117, 2055-2057	45
2038	Multiple Addressing in a Hybrid Biphotochromic System. 2005 , 117, 5176-5180	3
2037	One Shot Laser Pulse Induced Reversible Spin Transition in the Spin-Crossover Complex [Fe(C ₄ H ₄ N ₂){Pt(CN) ₄ }] at Room Temperature. 2005 , 117, 4137-4141	81
2036	Improvement in Photocyclization Efficiency of Diaryl Ethenes by Adjusting the Pore Size of Mesoporous Silica. 2005 , 117, 7399-7402	1
2035	Fluorescence Modulation in Polymer Bilayers Containing Fluorescent and Photochromic Dopants. 2005 , 15, 787-794	66
2034	A Novel Thermally Stable Spiroanthoxazine and Its Application in Rewritable High Density Optical Data Storage. 2005 , 17, 156-160	141
2033	Compatibilization of a Photochromic Dithienylethene Dopant and Ferroelectric Liquid-Crystal Host via Siloxane Nanosegregation. 2005 , 17, 567-571	17
2032	Photophysics and kinetics of naphthopyran derivatives, part 2: Analysis of diarylnaphthopyran kinetics. Degeneracy of the kinetic solution. 2005 , 37, 717-727	17
2031	High-Content Pendant Photochromic Copolymer with Dithienylethene/Fluorene 2:1 Mole Ratio. 2005 , 206, 1769-1777	32
2030	A Combination of Selective Light Reflection and Fluorescence Modulation in a Cholesteric Polymer Matrix. 2005 , 26, 177-182	15
2029	Three bits eight states photochromic recording and nondestructive readout by using IR light. 2005 , 11, 534-42	67
2028	Ion-triggered multistate molecular switching device based on regioselective coordination-controlled ion binding. 2005 , 11, 6818-28	65
2027	Optical manipulation of third-harmonic generation via either one- or two-photon excitation in diarylethene-polymethylmethacrylate polymer thin films. 2005 , 80, 569-572	8
2026	Photochromic fulgide for multi-level recording. 2005 , 123, 53-56	25
2025	Photon-mode modulation of fluorescence and electrical current with a photochromic conducting polymer. 2005 , 5, 139-142	16
2024	Comparative study of azobenzene and stilbene bridged crown ether p-tert-butylcalix[4]arene. 2005 , 61, 1317-1324	20
2023	Towards a tunable molecular memory that fits into a (10 Å) ³ cube. 2005 , 11, 278-87	1
2022	Synthesis and photochromic properties of tetrakis(3,5-dimethyl-2-thienyl)- and tetrakis(2,5-dimethyl-3-thienyl)ethylenes. 2005 , 54, 1208-1213	9

2021	Electrocyclic reaction of crown-containing 2-styrylbenzothiazoles. 2005 , 54, 1328-1330	3
2020	Photochromic 1,2-dihetarylethenes with perfluorocyclopentene bridge: Synthesis and spectral and kinetic study. 2005 , 54, 2790-2793	3
2019	Behavior of Benzoin and Hydroxy ketones in Acid Media: I. Reaction of 1-Aryl-2-(2,5-dimethylthiophen-3-yl)-2-hydroxyethanones with Thiols in Trifluoroacetic Acid. 2005 , 41, 87-90	5
2018	Synthesis and Structure of 5-Indolyl-6-thienyl-1,2,4-triazines. 2005 , 41, 875-883	7
2017	Synthesis and Structure of 4-Indolyl-5-(thieno[3,2-b]pyrrol-6-yl)imidazoles. 2005 , 41, 1349-1353	1
2016	1-(2-Methyl-5-phenyl-3-thienyl)-2-(3-methyl-5-phenyl-2-thienyl)-3,3,4,4,5,5-hexafluorocyclopent-1-ene: a novel photochromic hybrid diarylethene. 2005 , 61, o599-601	4
2015	4-(4-Bromo-5-methylthiophen-2-yl)pyridine. 2005 , 61, o1672-o1673	
2014	1,2-Bis(2-ethyl-5-formyl-3-thienyl)-3,3,4,4,5,5-hexafluorocyclopent-1-ene. 2005 , 61, o2961-o2963	
2013	1,2-Bis[5-(2,2-dicyanovinyl)-2-ethyl-3-thienyl]-3,3,4,4,5,5-hexafluorocyclopent-1-ene, a new photochromic diarylethene compound. 2005 , 61, o4077-o4079	3
2012	3,3,4,4,5,5-Hexafluoro-1-[2-methyl-5-(2-fluorophenyl)-3-thienyl]-2-(2-methyl-5-phenyl-3-thienyl)cyclopent-1-ene, a new photochromic dithienylethene. 2005 , 61, o4246-o4249	1
2011	3,3,4,4,5,5-Hexafluoro-1,2-bis(3-methyl-5-phenyl-2-thienyl)cyclopent-1-ene, a new photochromic diarylethene compound. 2005 , 61, o4369-o4371	
2010	Photosensitive copolymers with various types of azobenzene side groups synthesized by living cationic polymerization. 2005 , 43, 4292-4297	25
2009	Living cationic polymerization of azobenzene-containing vinyl ether and its photoresponsive behavior. 2005 , 43, 5138-5146	22
2008	Crystal structure of 3,3,4,4,5,5-hexafluoro-1-[2-methyl-5-(4-formylphenyl)-thien-3-yl]-2-[2-methyl-5-(4-(1,3-dioxolan-2-yl)phenyl)-thien-3-yl]}-cyclopent-1-ene, C31H22F6O3S2. 2005 , 220, 265-267	
2007	Novel Photochromic Tetraazaporphyrin Mg (II) Containing Bisthienylethene. 2005 , 431, 369-376	4
2006	Synthesis and Characterization of a New Organic Photochromic Function Material. 2005 , 475-479, 1821-1824	
2005	Achieve both multiwavelength and multilevel optical storage on compact disk by diarylethene. 2005 ,	
2004	Three-dimensional optical data storage in a novel photochromic material with two-photon writing and one-photon readout. 2005 , 44, 035202	6

2003	Synthesis and electrochemical properties of a novel asymmetric dithienylethene compound. 2005 ,	2
2002	Nondestructive Readout of the Multi-States Photochromic Recording by Using IR Light. 2005 , MP11	
2001	Photophysics and Photochemistry of some Dipyrrolylperfluorocyclopentenes. 2005 , 430, 267-272	2
2000	Organic bistable memory characteristics with a photochromic diarylethene layer. 2005 , 87, 213506	30
1999	Ultrafast Photochromic Reactions of Fulgide Photoswitches. 2005 , 430, 15-21	18
1998	Photochemically Stable Novel Yellow Developing Photochromic Compounds Having a Thiazole Group. 2005 , 431, 467-471	5
1997	A photodriven dual-frequency addressable optical device. 2005 , 97, 093105	25
1996	Reversible molecular photoswitches: a key technology for nanoscience and fluorescence imaging. 2005 , 102, 9433-4	86
1995	Synthesis and photochromic properties of naphthopyrans. 2005 , 17, 33-62	18
1994	Photochromism and electrical transport characteristics of a dyad and a polymer with diarylethene and quinoline units. 2005 , 70, 8291-7	61
1993	NONADIABATIC TRANSITION AND CHEMICAL DYNAMICS: MULTI-DIMENSIONAL TUNNELING THEORY AND APPLICATIONS OF THE ZHUNAKAMURA THEORY. 2005 , 04, 127-137	22
1992	Crystal Engineering of Photochromic Diarylethene Derivatives by Aryl-perfluoroaryl Interaction. 2005 , 431, 529-534	4
1991	Multi-States Photochromic Recording and Nondestructive Readout Using IR Light. 2005 , 430, 31-36	5
1990	Nanolayered Structures in Photochromic Crystal of 1,2-Bis(2-methyl-5-p-methoxyphenyl-3-thienyl)perfluorocyclopentene. 2005 , 431, 523-527	4
1989	Photoresponsive Nanoassemblies of a Dithienylethene Organogelator. 2005 , 430, 99-106	2
1988	Photochromism of Diarylethene Zinc Complexes. 2005 , 431, 429-432	1
1987	Development of Photochromic Two-Photon Absorption Dyes. 2005 , 430, 173-179	8
1986	Single-crystal-to-single-crystal [2 + 2] photodimerizations: from discovery to design. 2005 , 220, 351-363	111

1985	Holographic Grating Formation in Photochromic Diarylethene-Doped Polymeric Thin Films. 2005 , 22, 107-109	5
1984	Understanding electrochromic processes initiated by dithienylcyclopentene cation-radicals. 2005 , 109, 17445-59	116
1983	Three-wavelength optical memory of photochromic diarylethenes. 2005 , 5966, 180	1
1982	Picosecond laser photolysis studies on a photochromic oxidation polymer film consisting of diarylethene molecules. 2005 , 15, 2128	26
1981	Electrochemical cyclization/cycloreversion reactions of diarylethenes. 2005 , 7, 3315-8	166
1980	Synthesis and Photochromic Properties of Functional Diarylethenes with a [1,3]dithiol-2-one (Thione) Bridging Unit. 2005 , 430, 243-248	8
1979	Research Trends in Photochromism: Control of Photochromism in Rigid Polymer Matrices and other Advances. 2005 , 58, 825	31
1978	Synthesis and properties of novel fluorescent switches. 2005 , 70, 5545-9	207
1977	Topics in Fluorescence Spectroscopy. 2005 ,	49
1976	Dyads and Triads Based on Dithienylethene and Indolino[2,1-b]Oxazolidine. 2005 , 430, 37-43	3
1975	1,3-Bisarylbutadienes: Novel Thermally Irreversible Photochromic System. 2005 , 431, 433-439	3
1974	Photochromism of Diarylethene Single Crystals and Single Molecules. 2005 , 430, 1-7	4
1973	Synthesis of New Photochromic Diarylethenes Having 2,5-Bis(trimethylsilylethynyl)-3-Thienyl Unit. 2005 , 430, 75-79	2
1972	Reversible single-molecule photoswitching in the GFP-like fluorescent protein Dronpa. 2005 , 102, 9511-6	410
1971	Molecular Switches Get Wired: Synthesis of Diarylethenes Containing One or Two Sulphurs. 2005 , 430, 205-210	18
1970	Photomodulation of Lewis basicity in a pyridine-functionalized 1,2-dithienylcyclopentene. 2005 , 2840-2	52
1969	Photochromism of single crystals composed of dioxazolyethene and dithiazolyethene. 2005 , 6005-7	31
1968	Photoreversible supramolecular polymer formation. 2005 , 761-3	55

1967	Chemical control of the photochromic reactivity of diarylethene derivatives. 2005 , 3921-3	64
1966	Photochromism of diarylethene single crystals: crystal structures and photochromic performance. 2005 , 3895-905	198
1965	Computation of Photochemical Reaction Mechanisms in Organic Chemistry. 2005 , 16, 191-223	9
1964	Two-Photon Absorption Recording in Photochromic Diarylethenes Using Laser Diode for Three-Dimensional Optical Memory. 2005 , 44, 3559-3563	37
1963	Intercalation and Photochromism of Monocationic Diarylethenes Incorporated in Clay Layer Surfaces. 2005 , 431, 321-327	4
1962	Diarylethenes with Electroactive Substituents: A Theoretical Study to Understand the Effect on the IR Spectrum and a Simple Way to Read Optical Memory in the Mid-IR. 2005 , 17, 869-874	40
1961	A DFT study of the thermal, orbital symmetry forbidden, cyclophanediene to dihydropyrene electrocyclic reaction. Predictions to improve the dimethyldihydropyrene photoswitches. 2005 , 127, 16207-14	44
1960	Photoswitchable Magnetic Nanoparticles of Prussian Blue with Amphiphilic Azobenzene. 2005 , 17, 4554-4559	67
1959	Electrical Molecular Memory Using Diarylethene Derivatives. 2005 , 431, 391-395	3
1958	Ultrafast dynamics of isolated model photoactive yellow protein chromophores: "Chemical perturbation theory" in the laboratory. 2005 , 109, 4197-208	59
1957	Photochromism of bis(2-alkyl-1-benzofuran-3-yl)perfluorocyclopentene derivatives. 2005 , 70, 10323-8	129
1956	Reversible Thermal Gating of the Photochromic Properties of 3-Methyl-2-(2,4-dinitrobenzyl)pyridine in a Single Crystal. 2005 , 5, 1699-1701	4
1955	Bifunctional Photochromism Based on Photoinduced Nitro-Assisted Proton Transfer. 2005 , 17, 5394-5397	6
1954	Study on photomagnetism of 2-D magnetic compounds coupled with photochromic diarylethene cations. 2005 , 152, 461-464	18
1953	Dependence of the fluorescence of a composite photochromic molecule on structure and viscosity. 2005 , 15, 1072	22
1952	Tunable Luminescence of New Photochromic Bisthiénylenes Containing Triphenylamine. 2005 , 58, 321	7
1951	Ring closure dynamics of BTE-based photochromic switches: perfluoro- versus perhydrocyclopentene derivatives. 2005 , 109, 9437-42	58
1950	Photochromism of a diarylethene dimer. 2005 ,	

- 1949 Control of Cycloreversion Quantum Yields of Diarylethenes by Introduction of Substituents at the Reactive Carbons. **2005**, 431, 451-454 16
- 1948 Study on photochromism of diarylethenes with a 2,5-dihydropyrrole bridging unit: a convenient preparation of 3,4-diarylpyrroles from 3,4-diaryl-2,5-dihydropyrroles. **2005**, 70, 5001-5 107
- 1947 Electrochromic conjugated N-salicylidene-aniline (anil) functionalized pyrrole and 2,5-dithienylpyrrole-based polymers. **2005**, 29, 1128 39
- 1946 Synthesis and photochromism of two new 1,2-bis(thiazolyl)perfluorocyclopentenes with chelating sites. **2005**, 29, 439-446 44
- 1945 Reactivity-gated photochromism of 1,2-dithienylethenes for potential use in dosimetry applications. **2005**, 7, 2969-72 85
- 1944 Enantiopure sulfinyl azobenzenes as chiroptical switches. **2005**, 7, 2869-72 20
- 1943 Highly fluorescent photochromic diarylethene in the closed-ring form. **2005**, 2503-5 143
- 1942 Light-controlled molecular switches modulate nanocrystal fluorescence. **2005**, 127, 8968-70 212
- 1941 Visualization of Four Dimensional Atomic Orbitals. **2005**, 431, 345-350
- 1940 Bistable Photoswitching in the Film of Fluorescent Photochromic Polymer: Enhanced Fluorescence Emission and Its High Contrast Switching. **2005**, 38, 6236-6239 111
- 1939 Metal-based Photoswitches Derived from Photoisomerization. **2006**, 79-112 45
- 1938 Photoresponsive Gels. **2006**, 817-855 7
- 1937 Room Temperature Operational Thermochromic Liquid Crystals. **2006**, 18, 2513-2519 135
- 1936 Bifunctional charge transfer operated fluorescent probes with acceptor and donor receptors. 1. Biphenyl-type sensor molecules with protonation-induced anti-energy gap rule behavior. **2006**, 110, 10956-71 29
- 1935 Enhancement of the Curie temperature by isomerization of diarylethene (DAE) for an organic-inorganic hybrid system: $\text{Co}_4(\text{OH})_7(\text{DAE})_{0.5} \cdot 3\text{H}_2\text{O}$. **2006**, 45, 10240-7 34
- 1934 Facile synthesis, fluorescence, and photochromism of novel helical pyrones and chromenes. **2006**, 8, 4891-4 46
- 1933 Two addressable fluorescent switches based on a photochromic diarylethene. **2006**, 16, 982 25
- 1932 Synthesis and Structural Characterization of a Photochromic Dirhodium Dithionite Complex: $[(\text{CpPhRh})_2(\mu\text{-CH}_2)_2(\mu\text{-O}_2\text{SSO}_2)]$ (CpPh = $\text{C}_5\text{-C}_5\text{Me}_4\text{Ph}$). **2006**, 456, 63-70 4

1931	Molecular Gels. 2006 ,	306
1930	Photochromism of a diarylethene charge-transfer complex: photochemical control of intermolecular charge-transfer interaction. 2006 , 2656-8	17
1929	Uni- and bi-directional light-induced switching of diarylethenes on gold nanoparticles. 2006 , 3597-9	111
1928	Combination of fluorescent switch and electrochemical switch based on a photochromic diarylethene. 2006 , 30, 1595	28
1927	Photo- and electro-chromism of diarylethene modified ITO electrodes-towards molecular based read-write-erase information storage. 2006 , 3930-2	85
1926	Photochromic thiophene oligomers based on bithienylethene: syntheses, photochromic and two-photon properties. 2006 , 16, 3685	82
1925	Photochromic and fluorescent properties of bisfurylethene derivatives. 2006 , 16, 4690	30
1924	Photo-induced electrical switching through a mainchain polymer. 2006 , 16, 1384	47
1923	Two-Photon Photopolymerization and 3D Lithographic Microfabrication. 2006 , 169-273	202
1922	A simple and robust reversible redox-fluorescence molecular switch based on a 1,4-disubstituted azine with ferrocene and pyrene units. 2006 , 3809-11	99
1921	Refractive index change by photoinduction of a UV-sensitive SMF-to-PWG coupler. 2006 , 18, 220-222	10
1920	Fast and reversible photoswitching of the fluorescent protein dronpa as evidenced by fluorescence correlation spectroscopy. 2006 , 91, L45-7	45
1919	Aromatic annulation strategy for naphthalenes fused at 1,2- and 3,4-positions with two heterocycles. 2006 , 4, 33-5	9
1918	Diastereoselective cyclization of a dithienylethene switch through single crystal confinement. 2006 , 4, 1002-6	32
1917	Photochromic switching of excited-state intramolecular proton-transfer (ESIPT) fluorescence: a unique route to high-contrast memory switching and nondestructive readout. 2006 , 128, 14542-7	270
1916	Polymer micelles as building blocks for the incorporation of azobenzene: enhancing the photochromic properties in layer-by-layer films. 2006 , 22, 3906-9	74
1915	A multiple switching bithienylethene and its photochromic fluorescent organogelator. 2006 , 1497-9	196
1914	Influence of Aromatic Substituents on the Supramolecular Architectures of Monoorganooxotin Drums. 2006 , 6, 267-273	31

1913	Zinc chelation and photofluorochromic behavior of spironaphthoxazine intercalated into hydrophobically modified montmorillonite. 2006 , 22, 3376-80	16
1912	Hole-injection isomerization of photochromic diarylethene for organic molecular memory. 2006 , 89, 222102	35
1911	Modulation of the photochromic property in an organoboron-based diarylethene by a fluoride ion. 2006 , 8, 3911-4	100
1910	Controlled conversion of isomers in a hybrid biphotochromic system. 2006 , 8, 4931-4	24
1909	Theoretical study on the excited-state intramolecular proton transfer in the aromatic schiff base salicylidene methylamine: an electronic structure and quantum dynamical approach. 2006 , 110, 4649-56	54
1908	Characterization of cationic diarylethene by electron spin resonance and absorption spectra-ratio of open/closed-ring isomers. 2006 , 110, 8137-43	35
1907	Time-dependent density functional theory studies of the photoswitching of the two-photon absorption spectra in stilbene, metacyclophenadiene, and diarylethene chromophores. 2006 , 110, 3790-6	41
1906	Polymerization of a Photochromic Diarylethene by Friedel-Crafts Alkylation. 2006 , 39, 3106-3109	21
1905	Novel synthesis of bridged phenylthienylethenes and dithienylethenes via Pd-catalyzed double-cyclization reactions of diarylhexadienynes. 2006 , 8, 1197-200	34
1904	Absorbance-modulation optical lithography. 2006 , 23, 2290-4	46
1903	Amplification of chirality in liquid crystals. 2006 , 4, 3729-45	264
1902	Spiropyran-based photochromic polymer nanoparticles with optically switchable luminescence. 2006 , 128, 4303-9	430
1901	Peptides in the Days of Photonics. 2006 , 17-21	
1900	Photochromism of Diarylethene Derivatives Having n-Alkylbenzothiophene and n-Alkylbenzofuran Units. 2006 , 79, 1100-1105	15
1899	Functionalized Calix[4]resorcinarene Cavitands. Versatile Platforms for the Modular Construction of Extended Molecular Switches. 2006 , 79, 1926-1940	28
1898	Synthesis and Spectral Properties of Fluorescent Dithienylmaleimides. 2006 , 79, 889-893	12
1897	Direct Observation of Cation Radicals of a Diarylethene during Oxidative Ring-opening Reaction. 2006 , 35, 900-901	14
1896	Recent Development of π -Electrocyclic Photochromic Systems. 2006 , 35, 1204-1209	80

- 1895 Photochromism of Diarylethenes on Gold and Silver Nanoparticles. **2006**, 79, 1413-1419 32
- 1894 Photochromism of Diarylethene-functionalized Polystyrene with High Conversion in a Solid-state Polymer Film. **2006**, 35, 628-629 23
- 1893 Excited State Energy Migration and Photochromic Reaction in 1,2-Bis(2,4-dimethyl-3-thienyl)perfluorocyclopentene Single Crystal. **2006**, 35, 102-103 3
- 1892 Photochromic properties of novel diarylethenes and application of optical recording in PMMA film. **2006**, 6343, 1068
- 1891 Magnetic Bistability in Molecule-based Magnetic Materials. **2006**, 189-200
- 1890 Multi-photochromic Behavior of Hybrid Material with Spirobenzopyran and Azobenzene Moieties. **2006**, 35, 298-299 6
- 1889 Synthesis and photochromic properties of novel diarylethene. **2006**,
- 1888 Photochromism and optical recording in polymer film containing asymmetrical dithienylethene compounds. **2006**,
- 1887 Stabilization of DNA Hairpins by Stilbene Capping of the Terminal Base Pair. **2006**, 53, 1501-1507 12
- 1886 New developments in photochromic materials for volume phase holographic gratings. **2006**, 6273, 1213 1
- 1885 Synthesis and Properties of Photoresponsive Liquid Crystalline Conjugated Polymers. **2006**, 19, 29-34 2
- 1884 3,3,4,4,5,5-Hexafluoro-1-[5-(3-fluorophenyl)-2-methyl-3-thienyl]-2-(2-methyl-5-phenyl-3-thienyl)cyclopent-1-ene. **2006**, 62, o150-o152
- 1883 3,3,4,4,5,5-Hexafluoro-1,2-bis[2-methyl-5-(3-methylphenyl)-3-thienyl]cyclopent-1-ene, a new photochromic diarylethene compound. **2006**, 62, o279-o281
- 1882 1,2-Bis(2-ethyl-5-hydroxymethyl-3-thienyl)-3,3,4,4,5,5-hexafluorocyclopent-1-ene, a new photochromic diarylethene compound. **2006**, 62, o1136-o1138
- 1881 1-(2,5-Dimethyl-3-thienyl)-3,3,4,4,5,5-hexafluoro-2-(5-formyl-2-methyl-3-thienyl)cyclopent-1-ene: a new photochromic diarylethene compound. **2006**, 62, o1194-o1196 5
- 1880 2-[4-[2-(2,5-Dimethyl-3-thienyl)-3,3,4,4,5,5-hexafluorocyclopent-1-enyl]-5-methyl-2-thienylmethylene]propanedinitrile: a new photochromic diarylethene compound. **2006**, 62, o2007-o2009
- 1879 1-(2,5-Dimethyl-3-thienyl)-2-[5-(1,3-dithiolan-2-yl)-2-methyl-3-thienyl]-3,3,4,4,5,5-hexafluorocyclopent-1-ene: a new photochromic diarylethene compound. **2006**, 62, o2117-o2119
- 1878 1,2-Bis[5-(3,5-difluorophenyl)-2-methyl-3-thienyl]-3,3,4,4,5,5-hexafluorocyclopent-1-ene: a new photochromic diarylethene compound. **2006**, 62, o2877-o2879 11

1877	1,2-Bis[5-(2,4-difluorophenyl)-2-methyl-3-thienyl]-3,3,4,4,5,5-hexafluorocyclopent-1-ene: a new photochromic diarylethene compound. 2006 , 62, o3028-o3030	1
1876	5,5?-Dimethyl-4,4?-(3,3,4,4,5,5-hexafluorocyclopentene-1,2-diyl)bis(thiophene-2-carboxylic acid) acetone 0.25-solvate. 2006 , 62, o3038-o3039	1
1875	1-[5-(4-Chlorophenyl)-2-methyl-3-thienyl]-2-(2,5-dimethyl-3-thienyl)-3,3,4,4,5,5-hexafluorocyclopent-1-ene: a new photochromic diarylethene compound. 2006 , 62, o3986-o3988	1
1874	A perfluorocyclopentene dithienylethene based molecular switch: 1,2-bis[5-(4-ethynylphenyl)-2-methylthiophen-3-yl]-3,3,4,4,5,5-hexafluorocyclopentene. 2006 , 62, o3942-o3943 ¹	1
1873	1,2-Bis(5-chloro-2-methyl-3-thienyl)cyclopentene. 2006 , 62, o5649-o5650	
1872	Photochromism of dihydroindolizines Part VI: synthesis and photochromic behavior of a novel type of IR-absorbing photochromic compounds based on highly conjugated dihydroindolizines. 2006 , 19, 402-414	35
1871	Making molecular machines work. 2006 , 1, 25-35	1182
1870	Atomic hydrogen transmission through five-membered carbon ring by the mechanism of non-adiabatic tunneling. 2006 , 324, 721-732	8
1869	Ab initio calculations of the colour of closed-ring diarylethenes: TD-DFT estimates for molecular switches. 2006 , 429, 147-152	99
1868	Studies on photochromic benzimidazol[1,2a]pyrrolidin-2-ones from the condensation of 2-methyl-3-benzothienylethylidene-(isopropylidene)succinic anhydride with 1,2-diaminobenzenes. 2006 , 177, 170-176	12
1867	Photochromism of bis(2-alkyl-1-benzothiophen-3-yl)perfluorocyclopentene derivatives. 2006 , 178, 162-169	61
1866	Chelation of spironaphthoxazine with zinc ions during the sol-gel/erogel transitions in silicon alkoxide systems. 2006 , 183, 53-58	12
1865	One- and two-photon photochromism of 3,4-bis-(2,4,5-trimethyl-thiophen-3-yl)furan-2,5-dione. 2006 , 184, 177-183	25
1864	Higher-order multiphoton imaging by femtosecond near-infrared laser microscope system. 2006 , 183, 261-266	9
1863	Dual-wavelength photochromic fulgides for parallel recording memory. 2006 , 28, 1068-1071	10
1862	Synthesis of conjugated 2 and 2,5-(ethenyl) and (ethynyl)phenylethynyl thiophenes: fluorescence properties. 2006 , 62, 3112-3122	19
1861	Development of highly fluorescent photochromic material with high fatigue resistance. 2006 , 62, 5855-5861	120
1860	Diarylethenes with intramolecular donor-acceptor structures for photo-induced electrochemical change. 2006 , 62, 6814-6821	64

- 1859 Effect of a perfluorocyclopentene core unit on the structures and photoluminescence of fluorene- and anthracene-based compounds. **2006**, 62, 9769-9777 16
- 1858 Multi-state molecular switches based on dithienylperfluorocyclopentene and imidazo [4,5-f] [1,10] phenanthroline. **2006**, 62, 10072-10078 78
- 1857 Photochromism of diarylethene derivatives having an indene unit. **2006**, 47, 1267-1269 68
- 1856 Substituent position effect on the optoelectronic properties of photochromic diarylethenes. **2006**, 47, 3167-3171 68
- 1855 Syntheses and properties of new photochromic diarylethene derivatives having a pyrazole unit. **2006**, 47, 6473-6477 102
- 1854 Dual-controlled dithienylmaleimide switch containing ferrocene units. **2006**, 47, 9227-9231 26
- 1853 Theoretical study on geometric electronic structures and absorption wavelengths of closed-ring isomers of diarylmaleic anhydrides. **2006**, 774, 77-81 12
- 1852 Synthesis and photochemical behavior of metalloporphyrin complexes containing a photochromic axial ligand. **2006**, 499, 219-223 10
- 1851 Molecular doping of photochromic dye into polymer substrates by the vapor transportation method and their photochromic behavior. **2006**, 499, 114-118 8
- 1850 Molecular organization of an amphiphilic styryl pyridinium dye in monolayers at the air/water interface in the presence of various anions. **2006**, 22, 1571-9 24
- 1849 Fatigue-resistant photochromic dithienylethenes by controlling the oxidation state. **2006**, 1881-3 37
- 1848 Synthesis of photochromic 3,4-bis(1,2-dimethylindol-3-yl)-2,5-dihydrothiophene. **2006**, 42, 619-621 3
- 1847 Behavior of benzoin and hydroxy ketones in acid medium: II. Reactions of 1,2-bis(2,5-dimethyl-3-thienyl)-2-hydroxy-ethan-1-one with N,S-binucleophiles in trifluoroacetic acid. **2006**, 42, 860-864 10
- 1846 Synthesis of 1,2-bis(3-methylbenzo[b]furan-2-yl)cyclopentene and 1,2-bis(3-methylbenzo[b]furan-2-yl)cyclohexene. **2006**, 42, 1727-1729 1
- 1845 Synthesis and properties of dihetaryl-substituted furanones. Synthesis of photochromic dithienylethenes containing a furanone bridging fragment. **2006**, 42, 1816-1821 16
- 1844 Ring-closing photoisomerization of some 2,6-diarylstyrenes. **2006**, 82, 119-22 3
- 1843 Photoinduced processes in dipyrrolyl-perfluoro-cyclopentenes. **2006**, 82, 1326-33 5
- 1842 Photo-induced protonation/deprotonation in the GFP-like fluorescent protein Dronpa: mechanism responsible for the reversible photoswitching. **2006**, 5, 567-76 75

1841	Synthesis of bis-and tetrakis-(β -dimethylamino)-substituted cross-conjugated polyene β -diketones of the thiophene series. 2006 , 42, 735-740	0
1840	Computational Organic Photochemistry: Strategy, Achievements and Perspectives. 2006 , 116, 87-105	78
1839	Multi-level optical storage in photochromic diarylethene optical disc. 2006 , 28, 904-908	14
1838	Investigation on photochromism of 1,2-bis(1,4-dimethyl-2-phenyl)perfluorocyclopentene. 2006 , 49, 517-521	11
1837	Photochromic diarylethenes for three-wavelength optical memory. 2006 , 60, 485-489	119
1836	Photochromic diarylethene for two-photon 3D optical storage. 2006 , 60, 3553-3557	86
1835	Photochromic reactions of diarylethenes in single crystals with intermolecular O-H...N hydrogen-bonding networks. 2006 , 12, 4275-82	80
1834	pK(a) Switching induced by the change in the pi-conjugated system based on photochromism. 2006 , 12, 4283-8	70
1833	Triplet MLCT photosensitization of the ring-closing reaction of diarylethenes by design and synthesis of a photochromic rhenium(I) complex of a diarylethene-containing 1,10-phenanthroline ligand. 2006 , 12, 5840-8	152
1832	Imaging by sensitized oxygenations of photochromic anthracene films: examination of effects that improve performance and reversibility. 2006 , 12, 9276-83	36
1831	Challenges in optics for Extremely Large Telescope instrumentation. 2006 , 327, 649-673	12
1830	Biologically active molecules with a "light switch". 2006 , 45, 4900-21	935
1829	Selective and sequential photorelease using molecular switches. 2006 , 45, 6820-4	106
1828	Photoinduced reversible formation of microfibrils on a photochromic diarylethene microcrystalline surface. 2006 , 45, 6470-3	118
1827	Reversible red fluorescent molecular switches. 2006 , 45, 7462-5	146
1826	Novel photoswitching dithienylethenes with ferrocene units. 2006 , 20, 869-873	9
1825	Photochromism of 1,2-Bis(2-alkyl-1-benzofuran-3-yl)perfluorocyclopentene Derivatives. 2006 , 2006, 3105-3111	18
1824	Enhancement of Optical Density of Photochromic Diarylethene with Multiphotochromophores. 2006 , 24, 264-268	8

- 1823 Synthesis, Photochromic Kinetics, Fluorescence and Structure of a New 1,2-Diarylcyclopentene. **2006**, 24, 463-467 7
- 1822 Crystal Structure and Photochromism of a Novel Organic Compound Condensed by Pyrazolone with Thiosemicarbazide. **2006**, 24, 569-572 2
- 1821 Lewis Acid Modulation in a Amido-functional Diarylethene and Its Hypsochromism Effect. **2006**, 24, 1462-1464 8
- 1820 Two-photon photochromism of a diarylethene enhanced by Förster resonance energy transfer from two-photon absorbing fluorenes. **2006**, 7, 2514-9 26
- 1819 Tetrathiafulvalene (TTF)-Bridged Resorcin[4]arene Cavitands: Towards New Electrochemical Molecular Switches. **2006**, 89, 2040-2057 47
- 1818 ¹H and ¹³C chemical shifts for some 6,6a-dihydrochromeno(3,4-b)chromene derivatives. **2006**, 44, 892-4
- 1817 A Study of the Photoorientation Phenomena in Cholesteric Polymer Systems Containing Photochromic Diarylethene Derivatives. **2006**, 207, 770-778 7
- 1816 A High-Content Diarylethene Photochromic Polymer for an Efficient Fluorescence Modulation. **2006**, 27, 1769-1773 34
- 1815 Biologisch aktive Moleküle mit Lichtschalter **2006**, 118, 5020-5042 211
- 1814 Selective and Sequential Photorelease Using Molecular Switches. **2006**, 118, 6974-6978 34
- 1813 Photoinduced Reversible Formation of Microfibrils on a Photochromic Diarylethene Microcrystalline Surface. **2006**, 118, 6620-6623 13
- 1812 Reversible rot fluoreszierende molekulare Schalter. **2006**, 118, 7623-7627 27
- 1811 Photochromic Switches Incorporated in Bridging Ligands: A New Tool to Modulate Energy-Transfer Processes. **2006**, 16, 195-208 113
- 1810 A Supramolecular Chiroptical Switch Using an Amorphous Azobenzene Polymer. **2006**, 16, 2089-2094 51
- 1809 Two-Photon 3D Optical Data Storage via Fluorescence Modulation of an Efficient Fluorene Dye by a Photochromic Diarylethene. **2006**, 18, 2910-2914 198
- 1808 Laser control of reactions of photoswitching functional molecules. **2006**, 125, 34307 30
- 1807 Ab initio nonadiabatic quantum dynamics of cyclohexadiene/hexatriene ultrafast photoisomerization. **2006**, 124, 084313 75
- 1806 Photochromic naphthopyrans. **2006**, 85-135 34

- 1805 Photochromic diarylethene for two-photon 3D optical storage. **2006**,
- 1804 Photochromic Ag-TiO₂ Thin Films Fabricated by Dual-Target Helicon Magnetron Sputtering. **2006**, 11-12, 167-170
- 1803 Two-photon FRET-based 3D optical data storage in a composite polymer containing a photochromic diarylethene and a fluorene dye. **2006**, 1
- 1802 Synthesis and Photochromic Behavior of Bi-functional Photochromic Compound. **2006**, 445, 223/[513]-230/[520]
- 1801 Increasing the Landscape of Structural Motifs in Co-crystals of Resorcinols with Ditopic Aromatics: A One-dimensional π -Stacked Hydrogen-Bonded Polymer Involving a Phenanthroline. **2006**, 456, 155-162 3
- 1800 Green Light-Emitting Diodes (LED) Based on Diarylethene. **2006**, 444, 157-168 5
- 1799 All-optical switching in the near infrared with bacteriorhodopsin-coated microcavities. **2006**, 89, 184103 26
- 1798 Cooperative light-induced molecular movements of highly ordered azobenzene self-assembled monolayers. **2007**, 104, 9937-42 251
- 1797 Optical switches: key molecules for improved fluorescence imaging and tracking with high optical resolution. **2007**, 6633, 13
- 1796 Design and Fabrication of Thin-Film Diarylethene Recording Layer and Its Reflective Reproduction for Super-Multilayered Optical Memories. **2007**, 46, 3873-3877 7
- 1795 Super-Resolution Recording by an Organic Photochromic Mask Layer. **2007**, 24, 994-997 1
- 1794 Photochromic diarylethene for holographic optical recording. **2007**, 6279, 462
- 1793 Illumination-induced metastable polaron-supporting state in poly(p-phenylene vinylene) films. **2007**, 76, 21
- 1792 Improved sensitivity of dye-doped thermoplastic disks for holographic data storage. **2007**, 102, 014907 8
- 1791 Chapter 8: From Chiral Propellers to Unidirectional Motors. **2007**, 399-443
- 1790 Photochromic Properties of β -Cyclodextrin Dimer Linked by Dithienylethene. **2007**, 20, 103-108 1
- 1789 Modulation of a fluorescence switch based on photochromic spirooxazine in composite organic nanoparticles. **2007**, 18, 145707 28
- 1788 Reversible fluorescence modulation based on photochromic diarylethene and fluorescent coumarin. **2007**, 22, 1558-1563 10

1787	A photoisomerization study on photoactive yellow protein model chromophores from solution to crystalline phases. 2007 , 3, 357-372	1
1786	Theoretical Design of a Molecular Switch with Controlled Hydrogen Bonds: Electronic and Vibrational Spectra of [Co(2,2'-biimidazole)(C ₆ H ₄ O ₂)(NH ₃) ₂] ₂ . 2007 , 80, 1335-1340	6
1785	Photo-controlled Electrochemical Switch Based on Photochromic Tetraazaporphyrin Containing Ferrocene Units. 2007 , 36, 250-251	18
1784	Photoswitching of Solvatochromism Using Diarylethenes with 2,5-Disubstituted 3-Thienyl Unit. 2007 , 36, 1232-1233	6
1783	Facile Synthesis of Novel Monodisperse Liquid-crystalline Oligomers Based on Michael Adducts from Millipede Cyanoacetates. 2007 , 36, 452-453	3
1782	Reversible Photon-mode Phosphorescence Switching of Heteroleptic Cyclometalated Iridium(III) Complexes via Photochromic Bisthienylethene Switch Linked to Ancillary Ligand. 2007 , 36, 888-889	18
1781	Photostimulated Crystal Lattice Change Induced by the Photochemical Ring-Opening Reaction of Diarylethene Molecules. 2007 , 80, 365-370	6
1780	Photoinduced Surface Relief Structures Formed on Polymer Films Mixed with Diarylethenes. 2007 , 36, 1224-1225	19
1779	Photoswitching of Fluorescence Based on Intramolecular Electron Transfer. 2007 , 36, 240-241	34
1778	Photochemical and Redox Switching in a Ring-closed Isomer of Thioindigo-extended Quinone. 2007 , 36, 386-387	11
1777	Photochromic diarylethenes for two-wavelength optical recording. 2007 ,	
1776	Electron-withdrawing substituent position effect on the optoelectronic properties of new photochromic diarylethenes. 2007 , T129, 278-283	10
1775	Optoelectronic properties and holographic optical recording of a dithienylperfluorocyclopentene compound having two phenanthryl units. 2007 , T129, 297-302	1
1774	Acid-induced photochromic system switching of diarylethene derivatives between P- and T-types. 2007 , 1698-700	49
1773	The art of building small: from molecular switches to molecular motors. 2007 , 72, 6635-52	407
1772	Tuning the color switching of naphthopyrans via the control of polymeric architectures. 2007 , 17, 1885-1893	65
1771	Photochromic properties of dithienylazoles and other conjugated diarylethenes. 2007 , 192, 211-219	51
1770	Synthesis of photochromic diarylethenes using a microflow system. 2007 , 2947-9	38

1769	Construction and photoswitching properties of fluorescent diarylethenes. 2007 , 17, 861-865	25
1768	Chapter 17:Azobenzene Polymers as Photomechanical and Multifunctional Smart Materials. 2007 , 424-446	5
1767	Molecular springs, muscles, rheostats, and processing gyroscopes: from review to preview. 2007 , 5, 391-400	24
1766	Reaction of perfluorocyclopentene with various carbon nucleophiles--heteroaromatic lithium reagents, enolate and phosphonium ylide. 2007 , 5, 1442-9	22
1765	Three-state photochromic switching in a silyl bridged diarylethene dimer. 2007 , 5, 1170-4	50
1764	Functional molecules in electronic circuits. 2007 , 5, 2343-53	94
1763	A flexible coordination polymer crystal providing reversible structural and magnetic conversions. 2007 , 129, 13706-12	199
1762	Photochromism of diarylethene single molecules in polymer matrices. 2007 , 129, 5932-8	150
1761	Dinuclear transition-metal terpyridine complexes with a dithienylcyclopentene bridge directed toward molecular electronic applications. 2007 , 46, 10470-2	68
1760	Electron-donating methoxyl group position effect on properties of diarylethene derivatives having a pyrazole unit. 2007 , 85, 12-20	37
1759	Laser-operated chiral molecular switch: quantum simulations for the controlled transformation between achiral and chiral atropisomers. 2007 , 9, 5009-17	14
1758	Dual-fluorescent donor-acceptor dyad with tercarbazole donor and switchable imide acceptor: promising structure for an integrated logic gate. 2007 , 9, 547-50	32
1757	Electrochemical Remote Control for Dithienylethene-Ferrocene Switches. 2007 , 111, 2770-2776	56
1756	Ring closure reaction dynamics of diarylethene derivatives in solution. 2007 , 111, 8910-7	44
1755	A photochromic porphyrin-perinaphthothioindigo conjugate and its two-photon absorption properties. 2007 , 5170-2	13
1754	Reversible switching in molecular electronic devices. 2007 , 129, 12590-1	256
1753	Two palladium-catalyzed domino reactions from one set of substrates/reagents: efficient synthesis of substituted indenenes and cis-stilbenoid hydrocarbons from the same internal alkynes and hindered Grignard reagents. 2007 , 9, 363-6	27
1752	A fluorescent photochromic compound for labeling biomolecules. 2007 , 5206-8	66

- 1751 Photochromic bithienylethene as multi-function switches. **2007**, 781-92 358
- 1750 A novel photochromic liquid crystal system based on biindenylidenedione derivatives. **2007**, 31, 543 15
- 1749 Ligand-induced interconversion of a coordination-organized porphyrin dimer: a potential fluorescence-based molecular memory monitor. **2007**, 46, 9700-7 9
- 1748 Laser Multiphoton-Gated Photochromic Reaction of a Fulgide Derivative. **2007**, 111, 2730-2737 45
- 1747 Electrically-driven chiroptical switches based on axially dissymmetric 1,1'-binaphthyl and electrochromic viologens: synthesis and optical properties. **2007**, 9, 5393-6 39
- 1746 Characterization by X-ray Photoemission Spectroscopy of the Open and Closed Forms of a Dithienylethene Switch in Thin Films. **2007**, 111, 16533-16537 13
- 1745 Computational Approaches in Molecular Recognition, Self-assembly, Electron Transport, and Surface Chemistry. **2007**, 19, 229-241 9
- 1744 Photoswitching of Conductivity through a Diarylperfluorocyclopentene Nanowire. **2007**, 111, 3517-3521 74
- 1743 A photoswitchable molecular wire with the dithienylethene (DTE) linker, (dppe)(eta(5)-C(5)Me(5))Fe-C[triple bond, length as m-dash]C-DTE-C[triple bond, length as m-dash]C-Fe(eta(5)-C(5)Me(5))(dppe). **2007**, 1169-71 92
- 1742 Excited-State Behavior of a Fluorescent and Photochromic Diarylethene on Silver Nanoparticles. **2007**, 111, 3853-3862 46
- 1741 A Photochromic Platinum(II) Bis(alkynyl) Complex Containing a Versatile 5,6-Dithienyl-1,10-phenanthroline. **2007**, 26, 12-15 103
- 1740 TD-DFT investigation of diarylethene dyes with cyclopentene, dihydrothiophene, and dihydropyrrole bridges. **2007**, 111, 5528-35 32
- 1739 Photo-induced valence tautomerism in Co complexes. **2007**, 40, 361-9 177
- 1738 Electron-triggered motions in technomimetic molecules. **2007**, 177-86 45
- 1737 Chiral helicoid diarylethene with large change in specific optical rotation by photochromism. **2007**, 72, 1634-8 72
- 1736 Dithiazolyethene-based molecular switches for nonlinear optical properties and fluorescence: synthesis, crystal structure and ligating properties. **2007**, 17, 4414 51
- 1735 Photochromism of 1,2-Bis(3-n-alkyl-1-benzothiophen-2-yl)perfluorocyclopentene Derivatives. **2007**, 474, 111-118 7
- 1734 Hydrogen bonding assisted switchable fluorescence in self-assembled complexes containing diarylethene: controllable fluorescent emission in the solid state. **2007**, 17, 2483 74

- 1733 A photochromic fluorescent switch in an organogel system with non-destructive readout ability. **2007**, 4758-60 68
- 1732 Efficient synthesis and properties of isomeric photochromic diarylethenes having a pyrrole unit. **2007**, 9, 2139-42 232
- 1731 Photochromic Polymer Composites for Two-Photon 3D Optical Data Storage. **2007**, 19, 5165-5173 161
- 1730 Synthesis and solid-state photochromism of 1,3-diphenyl-4-(2-chlorobenzal)-5-hydroxypyrazole 4-methylthiosemicarbazone. **2007**, 9, 3989-92 33
- 1729 Optical switches: Key molecules for improved fluorescence imaging and tracking with high optical resolution. **2007**,
- 1728 1,3-bicyclo[1.1.1]pentanediyl: the shortest rigid linear connector of phenylated photochromic units and a 1,5-dimethoxy-9,10-di(phenylethynyl)anthracene fluorophore. **2007**, 13, 2503-16 72
- 1727 Synthetic molecular motors and mechanical machines. **2007**, 46, 72-191 2241
- 1726 Control of magnetic properties through external stimuli. **2007**, 46, 2152-87 919
- 1725 Nanometer-sized shell molecules that confine endohedral polymerizing units. **2007**, 46, 1083-5 77
- 1724 A supramolecular multiposition rotary device. **2007**, 46, 4089-92 120
- 1723 Protonation-induced cyclocondensation of 1-Aryl ethynylantraquinones: expanding the pi conjugation. **2007**, 46, 6271-4 26
- 1722 Creating a reactive enediyne by using visible light: photocontrol of the Bergman cyclization. **2007**, 46, 8017-9 71
- 1721 Synthetische molekulare Motoren und mechanische Maschinen. **2007**, 119, 72-196 583
- 1720 Magnetische Molekülverbindungen: Schaltung magnetischer Eigenschaften durch externe Stimuli. **2007**, 119, 2200-2236 223
- 1719 Nanometer-Sized Shell Molecules That Confine Endohedral Polymerizing Units. **2007**, 119, 1101-1103 14
- 1718 A Supramolecular Multiposition Rotary Device. **2007**, 119, 4167-4170 34
- 1717 Protonation-Induced Cyclocondensation of 1-Aryl Ethynylantraquinones: Expanding the π Conjugation. **2007**, 119, 6387-6390 6
- 1716 Creating a Reactive Enediyne by Using Visible Light: Photocontrol of the Bergman Cyclization. **2007**, 119, 8163-8165 11

- 1715 Bidirectional Ring-Opening and Ring-Closing of Cationic 1,2-Dithienylcyclopentene Molecular Switches Triggered with Light or Electricity. **2007**, 17, 786-796 64
- 1714 Temperature Gating of the Ring-Opening Process in Diarylethene Molecular Switches. **2007**, 19, 2898-2902 85
- 1713 Photo- and Proton-Dual-Responsive Fluorescence Switch Based on a Bisthienylethene-Bridged Naphthalimide Dimer and Its Application in Security Data Storage. **2007**, 2007, 2064-2067 36
- 1712 Photochromism of Thiazole-Containing Triangle Terarylenes. **2007**, 2007, 3212-3218 85
- 1711 Synthesis of thienyl-containing photochromes (dithienylethenes, fulgides, fulgimides, and spirocompounds). **2007**, 18, 557-567 17
- 1710 Strong orientation of polymer chains and small photochromic molecules in polyamide 6 electrospun fibers. **2007**, 8, 510-4 30
- 1709 Photochromic organoboron-based dithienylcyclopentene modulated by fluoride and mercuric(II) ions. **2007**, 8, 1289-92 54
- 1708 The Precursor Approach to Patterned Fluorescence Images in Polymer Films. **2007**, 28, 1191-1212 44
- 1707 Fabrication and photochromic study of titanate nanotubes loaded with silver nanoparticles. **2007**, 601, 2792-2799 48
- 1706 STM observation of a single diarylethene flickering. **2007**, 107, 958-62 15
- 1705 A new class of molecules with large, switchable vibrational non-linear optical responses: Photochromic diarylethene systems. **2007**, 43, 249-253 18
- 1704 Synthesis and optical/thermal properties of low molecular mass V-shaped materials based on 2,3-dicyanopyrazine. **2007**, 63, 2851-2858 56
- 1703 Characterization and photophysical properties of sulfur-oxidized diarylethenes. **2007**, 63, 3173-3182 31
- 1702 Synthesis and the effect of alkyl chain length on optoelectronic properties of diarylethene derivatives. **2007**, 63, 5437-5449 65
- 1701 Convenient synthesis of photochromic symmetrical or unsymmetrical bis(heteroaryl)maleimides via the Suzuki-Miyaura cross-coupling reaction. **2007**, 63, 9482-9487 24
- 1700 Electropolymerization of an EDOT-modified diarylethene. **2007**, 48, 249-254 19
- 1699 A new fluorescent chemosensor for copper(II) and molecular switch controlled by light. **2007**, 48, 1629-1632 65
- 1698 New photo-responsive unit of biindenylidene with TEMPO radical substituents. **2007**, 48, 6044-6047 11

- 1697 Synthesis of a solvent-sensitive highly fluorescent derivative of perfluorocyclopentene. **2007**, 48, 7675-7679 6
- 1696 Synthesis, X-ray crystallographic analysis, and theoretical structure analysis of tetrathienylethenes designed for photo- and electrochromism. **2007**, 48, 8338-8342 16
- 1695 Dynamics of the photoinduced ring-opening of stilbene, a prototypical diarylethene. **2007**, 434, 260-264 17
- 1694 Hemi-indigo photochroms: A theoretical investigation. **2007**, 436, 84-88 9
- 1693 Picosecond laser photolysis study of cycloreversion reaction of a diarylethene derivative in polycrystals: Multiphoton-gated reaction. **2007**, 437, 243-247 28
- 1692 Évaluation ab initio de la couleur de diaryléthènes présentant un pont maléimide. **2007**, 10, 1227-1233 3
- 1691 Effective non-destructive readout of photochromic bithienylethene-phthalocyanine hybrid. **2007**, 73, 118-120 29
- 1690 Control of magnetism by isomerization of intercalated molecules in organic/inorganic hybrid systems. **2007**, 251, 2665-2673 27
- 1689 Photochromic diarylethene for reversible holographic recording. **2007**, 138, 210-213 19
- 1688 Thermal reversibility and bistability in photochromic diarylethenes. **2007**, 360, 995-999 16
- 1687 Kinetic studies on the reversible ring opening/closure reaction of the triazine ligand and structural properties of palladium(II) complexes. **2007**, 360, 3040-3046 4
- 1686 Synthesis and characterisation of 1,2-dihetarylethenes containing chlorobenzothiophene moieties. **2007**, 17, 125-127 11
- 1685 Synthesis of photochromic dihetarylethenes with a cyclopentenedione bridge fragment. **2007**, 17, 301-302 4
- 1684 Synthesis, crystal structure and its optical and electrochemical properties of a new unsymmetrical diarylethene. **2007**, 833, 23-29 30
- 1683 Conformational dependence of energy transfer rate between photochromic molecule and fluorescent dye. **2007**, 40, 301-305 5
- 1682 Synthesis and structural characterization of a photoresponsive organodirhodium complex with active S-B bonds: [(CpPhRh)₂(ECH₂)₂(EO₂SSO₂)] (CpPh=η⁵-C₅Me₄Ph). **2007**, 692, 122-128 13
- 1681 Theoretical studies on the electronic structure and spectral properties of versatile diarylethene-containing 1,10-phenanthroline ligands and their rhenium(I) complexes. **2007**, 692, 5368-5374 24
- 1680 An ab initio scheme for quantitative predictions of the visible spectra of diarylethenes. **2007**, 187, 40-44 26

- 1679 Photochromic properties of diarylethenes having 2,4-diphenylphenyl substituents in the amorphous and PMMA films. **2007**, 187, 202-208 8
- 1678 The kinetic model for AB(1?) systems. **2007**, 187, 319-324 32
- 1677 Photobehaviour of diarylethenes with thiophenes as aryl groups and dithiole-2-thione and dithiole-2-one at the ethenic bond. **2007**, 188, 90-97 9
- 1676 Synthesis of novel photochromic methyl cyanoacetate-condensed fulgide derivatives. **2007**, 188, 358-363 6
- 1675 Chelation of spironaphthoxazine with zinc ions and its photochromic behavior during the sol-gel/xerogel transitions of alkyl silicon alkoxide. **2007**, 189, 46-54 15
- 1674 Optical switching and fluorescence modulation properties of photochromic dithienylethene derivatives. **2007**, 189, 307-313 33
- 1673 Bisindolylmaleimide derivatives as non-doped red organic light-emitting materials. **2007**, 192, 8-16 44
- 1672 Photochromism of 1,2-bis(2-methyl-5-phenylthien-3-yl)perfluorocyclopentene in liposomes. **2007**, 192, 130-141 7
- 1671 Electrochemical switch based on the photoisomerization of a diarylethene derivative. **2007**, 609, 27-30 9
- 1670 Synthesis, crystal structure and characterization of photochromic 1,2-bis[2-ethyl-5-[2-(1,3-dioxolane)]-3-thienyl]perfluorocyclopentene. **2007**, 66, 335-40 11
- 1669 Molecular tweezer based on zinc porphyrin-substituted diarylethene. **2007**, 68, 554-60 11
- 1668 1-[5-(2-Chlorophenyl)-2-methyl-3-thienyl]-2-(2,5-dimethyl-3-thienyl)-3,3,4,4,5,5-hexafluorocyclopent-1-ene: a new photochromic diarylethene compound. **2007**, 63, o927-o928 2
- 1667 5,5?-Dimethyl-4,4?-bis[2-(2-methyl-3-thienyl)cyclopentenyl]-2,2?-bithiophene. **2007**, 63, o2813-o2814
- 1666 1-[(E)-5-Ferrocenylvinyl-2-methylthien-3-yl]-2-(5-formyl-2-methylthien-3-yl)cyclopentene. **2007**, 63, m1515-m1516
- 1665 3,3,4,4,5,5-Hexafluoro-1,2-bis(5-formyl-2-n-heptyl-3-thienyl)cyclopent-1-ene: a new photochromic diarylethene compound. **2007**, 63, o4175-o4175 2
- 1664 Synthesis and photochromism of 1,2-dicyano[2.n]metacyclophan-1-enes. **2007**, 20, 830-837 5
- 1663 Mechanistic understanding of the photochromism of a hybrid dithienylethene- β aphthopyran system by NMR spectroscopy. **2007**, 20, 929-935 16
- 1662 Multiphoton-gated photochromic reaction of diarylethene derivatives in PMMA solid film. **2007**, 20, 953-959 16

1661	Thermally irreversible organic photochromic compounds for optical memory. 2007 , 20, 1007-1020	32
1660	Single-crystalline photochromism of diarylethene dimers bridged by a spiro structure. 2007 , 20, 960-967	26
1659	New photochromic bithienylethene derivatives containing carbazole. 2007 , 20, 968-974	7
1658	Photochromism of dithiazolylenes having pyridyl and N-methylpyridinium groups. 2007 , 20, 894-899	5
1657	Photochromism of dihydroindolizines part VII: multiaddressable photophysical properties of new photochromic dihydroindolizines bearing substituted benzo[i]phenanthridine as a fluorescing moiety. 2007 , 20, 574-588	23
1656	Nanohybrid material of bilateral switch based on diarylethene. 2007 , 20, 975-980	10
1655	Cis/trans configurations of the peptide C?N bonds: isomerization and photoswitching. 2007 , 20, 810-820	9
1654	Quantum yields and potential energy surfaces: a theoretical study. 2007 , 20, 821-829	52
1653	Substituent effect of diarylethenes on IR spectra for application of non-destructive readout of photochromic recording. 2007 , 20, 998-1006	17
1652	Thermally reversible novel photochromic dihydroindoles. 2007 , 20, 851-856	1
1651	Spectral study of the properties of photochromic polysubstituted lactones. 2007 , 103, 936-942	4
1650	Rapid and reversible shape changes of molecular crystals on photoirradiation. 2007 , 446, 778-81	961
1649	Photochromic diarylethene for polarization holographic optical recording. 2007 , 61, 855-859	62
1648	New bistable organic photochromic compounds for bitwise working optical memory. 2007 , 16, 51-66	6
1647	Optimal optical density of the absorbing holographic materials. 2007 , 16, 75-83	5
1646	Synthesis of photochromic dithienylethenes having quinoline and Triazolo[4,3-a]quinoline bridges. 2007 , 43, 1357-1363	5
1645	Synthesis and fluorescence of anthra[2,3-b]furan-5,10-dione derivatives. 2007 , 43, 1686-1695	9
1644	Molecular Optical Switches and Waveguides. 2007 , 2, 45-48	2

- 1643 Preparation and photochromism of diarylethene covalently bonded onto layered sodium-magadiite surfaces. **2007**, 33, 143-153 10
- 1642 Light driven molecular switches: exploring and tuning their photophysical and photochemical properties. **2007**, 117, 1041-1059 17
- 1641 Acid/alkali gated photochromism of two diarylperfluorocyclopentenes. **2007**, 50, 581-586 11
- 1640 Photoreversible refractive index change of [2.2]metacyclophan-1-ene in PMMA film. **2007**, 29, 499-502 8
- 1639 Multi-level recording of photochromic indolylfulgide. **2007**, 30, 652-656 3
- 1638 Synthesis and characteristics of a novel pseudorotaxane with the diarylethene as the functional stopper. **2008**, 76, 294-298 18
- 1637 Three-input chemical logic circuits based on a new fluorescent sensor for ATP and Cu²⁺ in aqueous solution. **2008**, 133, 617-621 13
- 1636 Bistable organic, organometallic, and coordination compounds for molecular electronics and spintronics. **2008**, 57, 687-717 77
- 1635 Photochromic organic compounds for optical memory. **2008**, 57, 867-875 15
- 1634 Synthesis and properties of dihetaryl-substituted furanones. **2008**, 57, 2168-2174 4
- 1633 Synthesis and kinetics of photochemical reactions of novel bifunctional salicylideneiminospiro naphthoxazines. **2008**, 57, 2394-2401 2
- 1632 One-step synthesis of novel photochemically bifunctional compounds of the spiropyran class. **2008**, 57, 2437-2439 2
- 1631 A novel family of diarylethene-phthalocyanine dyad systems for nondestructive data processing. **2008**, 51, 263-268 4
- 1630 Photo-driven molecular switch based on the photochromism and solvatochromism of diarylethene dialdehyde. **2008**, 53, 1813-1816 4
- 1629 Synthesis of 1,2-bis[2-methyl-5(3,4-difluorophenyl)-3-thienyl] perfluorocyclopentene. **2008**, 3, 251-253
- 1628 Fast response photochromic textiles from hybrid silica surface coating. **2008**, 9, 301-306 44
- 1627 Photochromic fabrics with improved durability and photochromic performance. **2008**, 9, 521-526 38
- 1626 The theoretical investigation of one of the derivatives of 1, 2-dithienylcyclopentene as a molecular switch. **2008**, 14, 315-23 4

1625	Synthesis and characterization of photoswitchable fluorescent silica nanoparticles. 2008 , 4, 134-42	159
1624	Click chemistry-assisted triazole-substituted azobenzene and fulgimide units in the pendant-based copoly(decyloxymethacrylate)s for dual-mode optical switches. 2008 , 46, 7843-7860	26
1623	Photochromic Spiropyran Dendrimers: Click Syntheses, Characterization, and Optical Properties. 2008 , 29, 193-201	17
1622	Reaction of 6-aryl- or styryl-4-methylsulfanyl-2-oxo-2H-pyrans with active methylene compounds and fluorescence properties of the products. 2008 , 45, 265-277	10
1621	Photo gel-sol/sol-gel transition and its patterning of a supramolecular hydrogel as stimuli-responsive biomaterials. 2008 , 14, 3977-86	188
1620	A fluorescent-switch-based computing platform in defending information risk. 2008 , 14, 6342-51	57
1619	Ruthenium(II) pyridylamine complexes with diimine ligands showing reversible photochemical and thermal structural change. 2008 , 14, 8904-15	28
1618	Synthesis, Crystal Structure, Solid Photochromic Properties and Light-induced Radical Behavior of Bis{3-[alkyl/(p-alkoxyphenyl)]-3-hydroxyindan-1-on-2-ylidene} Derivatives. 2008 , 26, 765-769	6
1617	Study of the photochemical properties and conical intersections of [2,2'-bipyridyl]-3-amine-3'-ol. 2008 , 9, 2068-76	10
1616	Switchable Fluorescent and Solvatochromic Molecular Probes Based on 4-Amino-N-methylphthalimide and a Photochromic Diarylethene. 2008 , 2008, 2531-2538	41
1615	Efficient photoswitching of the nonlinear optical properties of dipolar photochromic zinc(II) complexes. 2008 , 47, 577-80	156
1614	Wavelength-dependent photochromic inorganic-organic hybrid based on a 3D iodoplumbate open-framework material. 2008 , 47, 4149-52	171
1613	Modulating the Lewis acidity of boron using a photoswitch. 2008 , 47, 5034-7	82
1612	Toward fluorescent memories with nondestructive readout: photoswitching of fluorescence by intramolecular electron transfer in a diaryl ethene-perylene bisimide photochromic system. 2008 , 47, 6616-9	166
1611	Regulation of human carbonic anhydrase I (hCAI) activity by using a photochromic inhibitor. 2008 , 47, 7644-7	102
1610	Synthesis, photochromic mechanism and properties of a novel biindenylidenedione compound containing ferrocene units. 2008 , 22, 319-325	5
1609	A Smart Light-Controlled Carrier Switch in an Organic Light Emitting Device. 2008 , 18, 302-307	51
1608	Synthesis of Microscale Raft-shaped Zinc(II) Phenylalanine Complexes and Zinc(II) Phenylalanine/dye Hybrid Bundles with New Optical Properties. 2008 , 18, 195-202	19

- 1607 Reversible Fluorescent On/Off Recording in a Highly Transparent Polymeric Material Utilizing Fluorescent Resonance Energy Transfer (FRET) Induced by Heat Treatment. **2008**, 18, 2869-2879 35
- 1606 Iron(II) Metallomesogens Exhibiting Coupled Spin State and Liquid Crystal Phase Transitions near Room Temperature. **2008**, 18, 2089-2101 79
- 1605 Temperature-Light Dual Control of Clouding Behavior of an Oligo(ethylene glycol)-Diarylethene Hybrid System. **2008**, 20, 2137-2141 64
- 1604 Reversible Conductance Switching in Molecular Devices. **2008**, 20, 1467-1473 232
- 1603 Low-Dimensional Nanomaterials Based on Small Organic Molecules: Preparation and Optoelectronic Properties. **2008**, 20, 2859-2876 354
- 1602 Palladium/Phosphite or Phosphate Catalyzed Oxidative Coupling of Arylboronic Acids with Alkynes to Produce 1,4-Diaryl-1,3-butadienes. **2008**, 350, 509-514 29
- 1601 Efficient Photoswitching of the Nonlinear Optical Properties of Dipolar Photochromic Zinc(II) Complexes. **2008**, 120, 587-590 26
- 1600 Wavelength-Dependent Photochromic Inorganic/Organic Hybrid Based on a 3D Iodoplumbate Open-Framework Material. **2008**, 120, 4217-4220 18
- 1599 Modulating the Lewis Acidity of Boron Using a Photoswitch. **2008**, 120, 5112-5115 32
- 1598 Toward Fluorescent Memories with Nondestructive Readout: Photoswitching of Fluorescence by Intramolecular Electron Transfer in a Diaryl Ethene-Perylene Bisimide Photochromic System. **2008**, 120, 6718-6721 46
- 1597 Regulation der Aktivität von humaner Carboanhydrase I (hCAI) durch einen photochromen Inhibitor. **2008**, 120, 7756-7759 29
- 1596 Synthesis, crystal structure and optoelectronic properties of a new unsymmetrical photochromic diarylethene. **2008**, 70, 1065-72 16
- 1595 Fluorescent photoswitchable nanohybrids based on photochromism. **2008**, 69, 206-210 21
- 1594 Photochromic properties of 1,2-bis(6-substitute-2-methyl-1-benzofuran-3-yl)ethene derivatives. **2008**, 193, 146-152 27
- 1593 A photochemical electrocyclization of the benzothiazolylphenylethenes involving a CN bond formation. **2008**, 196, 239-245 16
- 1592 Photonics of organic photochromic systems: Modern trends. **2008**, 196, 180-189 20
- 1591 Substituent position effect on the properties of isomeric photochromic diarylethenes bearing chlorine atoms. **2008**, 194, 333-343 131
- 1590 Improving the stability of photochromic fluorinated indolylfulgides. **2008**, 195, 228-234 17

1589	Photochromic behavior of retinal analogs. 2008 , 196, 262-267	5
1588	Synthesis and chlorine atom position effect on the properties of unsymmetrical photochromic diarylethenes. 2008 , 196, 84-93	58
1587	Substituent position effect on the properties of new unsymmetrical isomeric diarylethenes having a chlorine atom. 2008 , 197, 415-425	95
1586	Photochromism of dihydroindolizines: Part VIII. First holographic image recording based on di- and tetrahydroindolizines photochromes. 2008 , 200, 50-56	19
1585	Bistable photoswitching in poly(N-isopropylacrylamide) with spironaphthoxazine hydrogel for optical data storage. 2008 , 198, 150-155	26
1584	Photochromism of dihydroindolizines Part IX. 2008 , 200, 57-67	18
1583	Remarkable thermally stable open forms of photochromic new N-substituted benzopyranocarbazoles. 2008 , 198, 242-249	17
1582	Photogeneration of an ADADA H-bonding cleft based on a naphthopyran-decorated triazine. 2008 , 200, 68-73	3
1581	Theoretical investigation on photochromic diarylethene: A short review. 2008 , 200, 10-18	69
1580	A theoretical study of the perfluoro-diarylethenes electronic spectra. 2008 , 199, 211-223	31
1579	High-contrast fluorescence switching using a photoresponsive dithienylethene coordination compound. 2008 , 200, 74-82	39
1578	NMR spectroscopy applied to photochromism investigations. 2008 , 9, 61-80	42
1577	15,16-Dinitrile DDP/CPD as a possible solid-state optical molecular switch. 2008 , 453, 62-67	26
1576	Raman spectroscopic study on isomers of photochromic 1,2-bis(2,5-dimethyl-3-thienyl)perfluorocyclopentene in crystal and stability of the closed-ring forms in the open-ring forms. 2008 , 454, 42-48	11
1575	A supramolecular photoswitch constructed by intermolecular hydrogen bond between BTEPy and TTF[OOH]. 2008 , 455, 256-260	29
1574	Substituent effects on the properties of photochromic diarylethenes. 2008 , 64, 2576-2585	92
1573	Preparation of perfluorocyclopentenylmetal species and their cross-coupling reaction with electrophiles Remarkable accesses to versatile perfluorocyclopentene derivatives. 2008 , 64, 4215-4223	13
1572	Reversibly controllable guest binding in precisely defined cavities: selectivity, induced fit, and switching in novel resorcin[4]arene-based container molecules. 2008 , 64, 8307-8317	41

1571	Modulating chemical reactivity using a photoresponsive molecular switch. 2008 , 64, 8292-8300	36
1570	Synthesis of photochromic diarylethene polymers for a write-by-light/erase-by-heat recording system. 2008 , 64, 7611-7618	33
1569	New photochromic diarylethenes with a six-membered aryl unit. 2008 , 64, 9464-9470	89
1568	Four-way-output molecular response system based on the dihydrodibenzo[<i>c,g</i>]phenanthrene skeleton: modulation of CD and FCD activity by acid and electron-transfer. 2008 , 49, 777-781	19
1567	Novel photochromic macrocycles composed of thiophene and ethylene building blocks: synthesis, structure, and photochromic property. 2008 , 49, 1582-1585	23
1566	Photochromic properties of tetrakis(2-methylthien-3-yl)ethene and its tetrakis(methylthio) derivative. 2008 , 49, 4972-4976	15
1565	Theoretical study on thermal stability and absorption wavelengths of closed-ring isomers of diarylethene derivatives. 2008 , 859, 11-17	14
1564	Writable and erasable PPV medium by irradiation at 365 nm. 2008 , 516, 2794-2799	4
1563	Thermal stability of merocyanine form in spiropyran/silica composite film. 2008 , 516, 2532-2536	25
1562	Normal photochromism of spiropyran in montmorillonite interlayer. 2008 , 317, 309-315	10
1561	Next step of photochromic switches?. 2008 , 18, 1617	250
1560	TD-DFT Performance for the Visible Absorption Spectra of Organic Dyes: Conventional versus Long-Range Hybrids. 2008 , 4, 123-35	681
1559	Reversible double-helix-random-coil transition process of bis{hexa(ethynylhelicene)}s. 2008 , 3, 244-60	52
1558	Switchable 2,3-dithienylmaleimide bonded to different fluorophores: synthesis and photochromic properties. 2008 , 9, 1590-1594	2
1557	Digital information processing in molecular systems. <i>Chemical Reviews</i> , 2008 , 108, 3481-548	68.1 714
1556	Switching between supramolecular dimer and nonthreaded supramolecular self-assembly of stilbene amide- α -cyclodextrin by photoirradiation. 2008 , 130, 5024-5	79
1555	Synthesis and photoinduced fluorescence of 3-(2-hetarylethenyl)chromen-2-ones. 2008 , 44, 595-601	9
1554	Bifunctional compounds based on transition metal mononitrosyl complexes combining photochromism and electric conductivity or photochromism and magnetism. 2008 , 3, 151-165	5

1553	Molecular Machines: Stimulation of Cation Motion in Molecular Switches. 2008 , 53, 229-241	
1552	On/off photoswitching of the electropolymerizability of terthiophenes. 2008 , 130, 12850-1	50
1551	¶Mercaptoalkanoic carboxylic esters: versatile synthons in heterocyclic chemistryView all notes. 2008 , 29, 187-240	7
1550	Synthesis, Characterization, and Cation-Induced Supramolecular Structures of Photochromic Bisthienylethene-Tetraazaporphyrin Hybrids (BTE-TAPs) Bearing Crown Ether Moieties. 2008 , 61, 640	2
1549	A multifunctional organometallic switch with carbon-rich ruthenium and diarylethene units. 2008 , 6117-9	85
1548	Photoresponsive J-aggregation behavior of a novel azobenzene-phthalocyanine dyad and its third-order optical nonlinearity. 2008 , 112, 7387-94	71
1547	Tuning energy transfer in switchable donor-acceptor systems. 2008 , 6, 1268-77	35
1546	Photochromic oligothienoacene derivatives with photo-switchable luminescence properties and computational studies. 2008 , 5203-5	44
1545	UNDERSTANDING THE ROLE OF WATER IN PROMOTING E-ISOMER PRODUCTION AND PHOTOCHROMISM OF SOLID SCHIFF BASE: A DFT AND TD-DFT STUDY. 2008 , 07, 1071-1084	1
1544	Photoresponsive dithienylethene-urea-based organogels with "reversed" behavior. 2008 , 6, 1544-7	62
1543	Photochrome-coupled metal complexes: molecular processing of photon stimuli. 2008 , 3260-71	154
1542	Coumarinyl(thienyl)thiazoles: novel photochromes with modulated fluorescence. 2008 , 10, 1319-22	41
1541	Control of the photoreactivity of diarylethene derivatives by quaternarization of the pyridylethynyl group. 2008 , 10, 2051-4	85
1540	Photoresponsive europium(III) complex based on photochromic reaction. 2008 , 112, 5096-103	61
1539	Does the solid-liquid crystal phase transition provoke the spin-state change in spin-crossover metallomesogens?. 2008 , 130, 1431-9	106
1538	A Rewritable Optical Data Storage Material System by [2 + 2] PhotocycloreversionPhotocycloaddition. 2008 , 20, 1194-1196	58
1537	Kinetic analysis and elucidation options for AB(1k,2phi) systems. New spectrokinetic methods for photochromes. 2008 , 7, 1360-72	19
1536	Photomodulation of ionic interaction and reactivity: reversible photoconversion between imidazolium and imidazolinium. 2008 , 130, 14570-5	86

1535	Thiophenes and their Benzo Derivatives: Applications. 2008 , 931-974	9
1534	Recent advances in photoresponsive supramolecular self-assemblies. 2008 , 37, 1520-9	397
1533	Ligand design for multidimensional magnetic materials: a metallosupramolecular perspective. 2008 , 2780-805	233
1532	Amphiphilic diarylethene as a photoswitchable probe for imaging living cells. 2008 , 130, 15750-1	186
1531	New thermally irreversible and fluorescent photochromic diarylethenes. 2008 , 112, 4765-71	29
1530	Molecule-based valence tautomeric bistability synchronized with a macroscopic crystal-melt phase transition. 2008 , 130, 5515-22	74
1529	Nonadiabatic Chemical Dynamics: Comprehension and Control of Dynamics, and Manifestation of Molecular Functions. 2008 , 95-212	14
1528	Photochromic glassy liquid crystals comprising mesogenic pendants to dithienylethene cores. 2008 , 18, 5592	12
1527	Triplet pathways in diarylethene photochromism: photophysical and computational study of dyads containing ruthenium(II) polypyridine and 1,2-bis(2-methylbenzothiophene-3-yl)maleimide units. 2008 , 130, 7286-99	150
1526	Invisible photochromism of diarylethene derivatives. 2008 , 3924-6	41
1525	Time-resolved studies of photoinduced birefringence in azobenzene dye-doped polymer films. 2008 , 47, 5074-7	10
1524	Thiophenes and their Benzo Derivatives: Reactivity. 2008 , 741-841	5
1523	A natural light induced regioselective 6pi-electrocyclisation-oxidative aromatisation reaction: experimental and theoretical insights. 2008 , 6, 4523-32	14
1522	Pyrroles and their Benzo Derivatives: Reactivity. 2008 , 45-268	29
1521	Novel bithienylethenes containing naphthalimide as the center ethene bridge: photochromism and solvatochromism for combined NOR and INHIBIT logic gates. 2008 , 112, 15636-45	81
1520	Two-photon Absorbing Photonic Materials: From Fundamentals to Applications. 2008 , 97-156	54
1519	Conductance Photoswitching of Diarylethene-Gold Nanoparticle Network Induced by Photochromic Reaction. 2008 , 112, 17005-17010	107
1518	Chemistry of polycarbon species: from clusters to molecular devices. 2008 , 3523-30	112

1517	Photocyclization reaction of a diarylmaleimide derivative in polar solvents. 2008 , 3281-3	31
1516	Up-conversion luminescent switch based on photochromic diarylethene and rare-earth nanophosphors. 2008 , 4786-8	99
1515	Remarkable switching behavior of bimodally stimuli-responsive photochromic dithienylethenes with redox-active organometallic attachments. 2008 , 5812-4	72
1514	Unexpected Novel Rearrangement Reaction: Synthesis of Benzo-Medium-Ring Anhydride. 2008 , 38, 1224-1235	0
1513	Stable Colored and Fluorescent Patterns Derived from Photochromic Spiropyran and Photoacid Generator. 2008 , 491, 223-230	1
1512	Absolute asymmetric photocyclization in chiral diarylethene co-crystals with octafluoronaphthalene. 2008 , 335-7	33
1511	Photoresponsive rolling and bending of thin crystals of chiral diarylethenes. 2008 , 326-8	128
1510	Reversible photoswitching of stimuli-responsive Si(100) surfaces engineered with an assembled 1-cyano-1-phenyl-2-[4-(10-undecenyloxy)phenyl]-ethylene monolayer. 2008 , 18, 5011	39
1509	Synthesis and functionalization of 3,3'-bis(spirodienone)-bridged 2,2'-bithiophene: a new building block for redox-active molecular switching materials. 2008 , 10, 3837-40	10
1508	Combining organic photochromism with inorganic paramagnetism--optical tuning of the iron(II) electronic structure. 2008 , 1932-6	43
1507	Locking of helicity and shape complementarity in diarylethene dimers on graphite. 2008 , 130, 386-7	26
1506	Structural transition of molecular assembly under photo-irradiation: an STM study. 2008 , 10, 6467-78	29
1505	Superior Photochromic Performance of Naphthopyrans in a Rigid Host Matrix Using Polymer Conjugation: Fast, Dark, and Tunable. 2008 , 41, 1206-1214	58
1504	Selective metal deposition on photoswitchable molecular surfaces. 2008 , 130, 10740-7	63
1503	"Lock and key control" of photochromic reactivity by controlling the oxidation/reduction state. 2008 , 10, 3639-42	71
1502	Toward long-distance mechanical communication: studies on a ternary complex interconnected by a bridging rotary module. 2008 , 130, 6725-7	109
1501	An unexpected phase transition during the [2 + 2] photocycloaddition reaction of cinnamic acid to truxillic acid: changes in polymorphism monitored by solid-state NMR. 2008 , 112, 12920-6	22
1500	Photoregulated fluorescence switching in axially coordinated tin(IV) porphyrinic dithienylethene. 2008 , 47, 2411-5	65

- 1499 Dynamics of Cyclization, Cycloreversion, and Multiphoton-Gated Reaction of a Photochromic Diarylethene Derivative in Crystalline Phase. **2008**, 112, 11150-11157 37
- 1498 Electron-Beam-Induced Color Imaging of Acid-Chromic Polymer Films. **2008**, 20, 5320-5324 3
- 1497 Dynamic Switching of Linearly Polarized Emission in Liquid-Crystallinity-Embedded Photoresponsive Conjugated Polymers. **2008**, 41, 2341-2346 41
- 1496 Tricyclic Systems: Central Carbocyclic Ring with Fused Five-membered Rings. **2008**, 1135-1199
- 1495 Photochromism and Optical Property of Gold Nanoparticles Covered with Low-Polydispersity Diarylethene Polymers. **2008**, 41, 3995-4002 54
- 1494 Modulation of the refractive index by photoisomerization of diarylethenes: theoretical modeling. **2008**, 112, 7473-80 22
- 1493 Molecular electronic devices based on single-walled carbon nanotube electrodes. **2008**, 41, 1731-41 169
- 1492 Superparamagnetic iron oxide nanoparticles with photoswitchable fluorescence. **2008**, 4622-4 5
- 1491 Synthesis of Dendritic Phenol Ether Derivatives with a Naphthalene Core. **2008**, 38, 1318-1324 2
- 1490 Reversible photoinduced change in molecular ordering of diarylethene derivatives at a solution-HOPG interface. **2008**, 130, 9371-9 61
- 1489 Modeling the photophysics and photochromic potential of 1,2-dihydronaphthalene (DHN): a combined CASPT2//CASSCF-topological and MMVB-dynamical investigation. **2008**, 112, 10096-107 14
- 1488 Polarization multiplexing holographic optical recording of a new photochromic diarylethene. **2008**, 47, 030502 16
- 1487 Crystal structure of trans-3,4-bis(methylsulfonyloxy)pyrrolidinium chloride, [C₆H₁₄NO₆S₂]Cl. **2008**, 223, 375-534
- 1486 Electro- and Photochemical Switching of Dithienylethene Self-Assembled Monolayers on Gold Electrodes. **2008**, 112, 1183-1190 51
- 1485 PHOTOCROMIC KINETICS OF ASYMMETRICAL DIARYLETHENES IN DIFFERENT SOLVENTS AND IN PMMA FILMS. **2008**, 15, 145-151 3
- 1484 Stereoselective isomerization of an ensemble of adsorbed molecules with multiple orientations: stochastic laser pulse optimization for selective switching between achiral and chiral atropisomers. **2008**, 129, 234701 6
- 1483 Incorporating Azo-group-functionalized Molecular-Junctions between Metal Nanoelectrodes to produce High-Rectification-Memory Nanodevices. **2008**, 1096, 30101
- 1482 Dendrimer diarylethenes: the memory effect of conformation in polymer matrices. **2008**, 5755-7 17

1481	A possible anthracene-based optical molecular switch driven by a reversible photodimerization reaction. 2008 , 93, 013113	64
1480	Photoelectron Spectroscopy Study of Photoresponsive Change in Electronic Structure of Amorphous Photochromic Diarylethene Film. 2008 , 47, 1215-1218	6
1479	Metal patterning using maskless vacuum evaporation process based on selective deposition of photochromic diarylethene. 2008 , 93, 213304	22
1478	Two-photon energy transfer enhanced three-dimensional optical memory in quantum-dot and azo-dye doped polymers. 2008 , 92, 063309	27
1477	Light-dependent regulation of structural flexibility in a photochromic fluorescent protein. 2008 , 105, 9227-32	132
1476	Fabrication and Application of Surface Relief Caused by Mass Transport. 2008 , 65, 536-545	
1475	Percolation-type Photoswitching Behavior in Conductance of Diarylethene Silver Nanoparticle Networks. 2008 , 37, 634-635	11
1474	Polarization holographic optical recording of a new photochromic diarylethene. 2008 ,	
1473	Using the re-writable diarylethene films for detecting and transmitting the power spectra of the joint transform correlator. 2008 ,	
1472	Photochromic kinetics of diarylethenes bearing different alkyl chains in solution and in PMMA amorphous film. 2008 ,	
1471	Photoinduced anisotropy in diarylethene/PMMA film. 2008 ,	
1470	Photochromism and Molecular Mechanical Devices. 2008 , 81, 917-926	126
1469	Photochromic Properties of Diarylethene Derivatives Having Benzofuran and Benzothiophene Rings Based on Regioisomers. 2008 , 81, 644-652	15
1468	Photo-Induced State Conversion Mechanism of an Optically Durable Molecular Memory with Controlled Hydrogen Bonding: A SpinOrbit CI Study of $[\{Co(2,2\text{-biimidazole})(C_6H_4O_2)(NH_3)_2\}_2]$. 2008 , 81, 235-240	
1467	Fluorescence Switching of a Diarylethene Derivative Having Oxazole Rings. 2008 , 37, 832-833	21
1466	Photochromic diarylethene as an information processing unit: Magnetic and electric switching. 2008 , 80, 555-561	5
1465	Crystal structure of octastrontium bistrinitridomanganate(IV) trinitridomanganate(III), $Sr_8[Mn^{IV}N_3]_2[Mn^{III}N_3]$. 2008 , 223, 185-225	
1464	Synthesis of photochromic diarylethene for rewritable holographic optical storage. 2008 ,	

- 1463 New developments in photochromic materials showing large change in the refractive index. **2008**,
- 1462 A liquid photochromic diarylethene for high speed photo switches. **2008**,
- 1461 Photoregulated fluorescence switching of a photochromic diarylethene bearing fluorine atoms. **2008**, 1
- 1460 Useful spectrokinetic methods for the investigation of photochromic and thermo-photochromic spiropyrans. **2008**, 13, 2260-302 24
- 1459 Holographic Recording Medium. **2008**, 1, 74-94 8
- 1458 Crystal structure of 1,2-bis[2-n-hexyl-5-(2,2-dicyanovinyl)-3-thienyl]-3,3,4,4,5,5-hexafluorocyclopent-1-ene, C33H30F6N4S2. **2009**, 224, 231-233
- 1457 Synthesis, Property and Holographic Recording of a Photochromic Diarylethene Bearing Chlorine Atoms. **2009**,
- 1456 Formation of holographic fringes on photochromic Ag/TiO₂ nanocomposite films. **2009**, 94, 074104 36
- 1455 Synthesis of a New Unsymmetrical Photochromic Diarylethene for Rewritable Holographic Optical Storage. **2009**, 1
- 1454 Synthesis, Optoelectronic Property and Application for Optical Recording of a New Diarylethene. **2009**,
- 1453 Polarization Patterns Hide and Display Using Photoinduced Anisotropy of a Novel Photochromic Diarylethene. **2009**,
- 1452 Synthesis, Properties and Application in Optical Memory of a New Type Diarylethene Based on Five and Six Rings. **2009**,
- 1451 Synthesis of a New Unsymmetrical Photochromic Diarylethene for Polarization Multiplexing Holographic Recording. **2009**,
- 1450 Optoelectronic Property and Application for Optical Recording of a New Diarylethene Bearing a Six-Membered Aryl Unit. **2009**,
- 1449 Synthesis of a New Photochromic Diarylethene and its Application in Holographic Optical Storage. **2009**,
- 1448 Synthesis a New Photochromic Diarylethene for Electrochemical Switching and Holographic Optical Recording. **2009**, 0
- 1447 A Photochromic Diarylethene with a Six-Membered Aryl Unit for Polarization Optical Recording. **2009**, 0
- 1446 Mechanoluminescence Recording Device Integrated with Photosensitive Material and Europium-Doped SrAl₂O₄. **2009**, 48, 04C150 22

1445	Functional Dyes, and Some Hi-Tech Applications. 2009 , 2009, 1-21	50
1444	Synthesis, Photochromism and Optical Storage of a Novel Diarylethene Compound. 2009 ,	
1443	Holographically encoded microparticles for bead-based assays. 2009 , 42, 055507	4
1442	Theoretical quest for photoconversion molecules having opposite directions of the electric dipole moment in S0 and S1 states. 2009 , 130, 184311	3
1441	Photochromic diarylethene molecules and crystals. 2009 , 81, 1655-1665	24
1440	Formation of Six-Membered (and Larger) Rings. 287-318	
1439	Tuning the Thermal Relaxation of a Photochromic Dye in Functionalized Mesoporous Silica. 2009 , 19, 2027-2037	26
1438	Phototunable Azobenzene Cholesteric Liquid Crystals with 2000 nm Range. 2009 , 19, 3484-3488	135
1437	Multiscale Approach of Photochromism: Synthesis and Photochromic Properties of a Diarylethene in Solution, in Nanoparticles, and in Bulk Crystals. 2009 , 21, 309-313	66
1436	Reversible Luminescent Switching in a [Eu(SiW10MoO39)2]13Agarose Composite Film by Photosensitive Intramolecular Energy Transfer. 2009 , 21, 1737-1741	76
1435	A Spin-Crossover Cluster of Iron(II) Exhibiting a Mixed-Spin Structure and Synergy between Spin Transition and Magnetic Interaction. 2009 , 121, 1503-1506	34
1434	Photoprogrammable Organic Light-Emitting Diodes. 2009 , 121, 4098-4101	12
1433	Catalytic Cycloisomerization of 1,5-Enynes to 1,3-Cyclohexadienes via Ruthenium Vinylidene Intermediates. 2009 , 121, 2572-2575	3
1432	Photo-, solvent-, and ion-controlled multichromism of imidazolium-substituted diarylethenes. 2009 , 15, 1977-84	75
1431	Molecular materials with contrasting optical responses from a single-pot reaction and fluorescence switching in a carbon acid. 2009 , 15, 2792-800	14
1430	Modulation of spectrokinetic properties of o-quinonoid reactive intermediates by electronic factors: time-resolved laser flash and steady-state photolysis investigations of photochromic 6- and 7-arylchromenes. 2009 , 15, 4289-300	30
1429	Insights into the origin of solid-state photochromism and thermochromism of N-salicylideneanils: the intriguing case of aminopyridines. 2009 , 15, 4327-42	92
1428	Toward volatile and nonvolatile molecular memories: fluorescence switching based on fluoride-triggered interconversion of simple porphyrin derivatives. 2009 , 15, 2486-90	26

1427	Design and synthesis of a new class of photochromic diarylethene-containing dithieno[3,2-b:2',3'-d]pyrroles and their switchable luminescence properties. 2009 , 15, 10005-9	48
1426	N-arylated 3,5-dihydro-4H-dinaphtho[2,1-c:1',2'-e]azepines: axially chiral donors with high helical twisting powers for nonplanar push-pull chromophores. 2009 , 15, 9005-16	27
1425	Multi-input/multi-output molecular response system based on the dynamic redox behavior of 3,3,4,4-tetraaryldihydro[5]helicene derivatives: reversible formation/destruction of chiral fluorophore and modulation of chiroptical properties by solvent polarity. 2009 , 15, 9434-41	37
1424	Electrical switching of 1,2-bis(2-methyl-5-phenyl-3-thienyl) perfluorocyclopentene in the solid state. 2009 , 10, 1996-9	6
1423	Photoswitchable fluorescent nanoparticles: preparation, properties and applications. 2009 , 10, 2577-91	119
1422	Photoswitches: Key molecules for subdiffraction-resolution fluorescence imaging and molecular quantification. 2009 , 3, 180-202	218
1421	A Unified Strategy for Exceptionally High Diastereoselectivity in the Photochemical Ring Closure of Chiral Diarylethenes. 2009 , 121, 4591-4593	12
1420	Dual-Mode Switching in Highly Fluorescent Organogels: Binary Logic Gates with Optical/Thermal Inputs. 2009 , 121, 7164-7168	38
1419	Switching the Cubic Nonlinear Optical Properties of an Electro-, Halo-, and Photochromic Ruthenium Alkynyl Complex Across Six States. 2009 , 121, 8007-8010	30
1418	Two-Color Reversible Switching in a Photochromic Ruthenium Sulfoxide Complex. 2009 , 121, 8708-8710	6
1417	A spin-crossover cluster of iron(II) exhibiting a mixed-spin structure and synergy between spin transition and magnetic interaction. 2009 , 48, 1475-8	170
1416	Photoprogrammable organic light-emitting diodes. 2009 , 48, 4038-41	95
1415	Catalytic cycloisomerization of 1,5-enynes to 1,3-cyclohexadienes via ruthenium vinylidene intermediates. 2009 , 48, 2534-7	27
1414	A unified strategy for exceptionally high diastereoselectivity in the photochemical ring closure of chiral diarylethenes. 2009 , 48, 4521-3	50
1413	Dual-mode switching in highly fluorescent organogels: binary logic gates with optical/thermal inputs. 2009 , 48, 7030-4	151
1412	Switching the cubic nonlinear optical properties of an electro-, halo-, and photochromic ruthenium alkynyl complex across six states. 2009 , 48, 7867-70	134
1411	Two-color reversible switching in a photochromic ruthenium sulfoxide complex. 2009 , 48, 8556-8	56
1410	Dual-mode optical switching property of copolymers containing pendant nitro and cyano substituted azobenzenes and fulgimide units. 2009 , 94, 1001-1012	16

1409	Solvent effect on photochromism of a dithienylperfluorocyclopentene having diethylamino group. 2009 , 65, 6104-6108	27
1408	Fluorescence switching of photochromic vinylpyrene-substituted 2'-deoxyguanosine. 2009 , 50, 1403-1406	16
1407	Novel synthesis and characterisation of 3,3-dimethyl-5-(2-benzothiazolyl)-spironaphth(indoline-2,3-[3H]naphth[2,1-b][1,4]oxazine) derivatives. 2009 , 50, 2573-2576	16
1406	Stilbene-cored poly(glutamate) dendrimers. 2009 , 50, 7074-7078	4
1405	New photochromic symmetrical and unsymmetrical bis(heteroaryl)maleimides: A spectrokinetic study. 2009 , 358, 258-264	8
1404	Photochromism of 1,2-bis(2-n-alkyl-5-formyl-3-thienyl)perfluorocyclopentene derivatives. 2009 , 921, 89-100	19
1403	Photoswitchable molecular wires: From a sexithiophene to a dithienylethene and back. 2009 , 479, 137-139	21
1402	Photochromic behavior of tetrathienylethene in condensed systems—Attempts to control 1,2-dyotropic rearrangement of the closed isomer. 2009 , 35, 893-908	9
1401	Stereoselective [2+2] photocycloaddition in bispseudosandwich complexes of bis(18-crown-6) stilbene with alkanediammonium ions. 2009 , 58, 108-114	14
1400	Coumarinyl(thienyl)thiazoles as new fluorescent molecular photoswitches. 2009 , 58, 162-169	6
1399	Structure and solid-state photochromic properties of two new compounds with pyrazolone-ring. 2009 , 20, 393-398	5
1398	Chemical approaches for mimicking logic functions within fluorescent MPT dyes. 2009 , 52, 700-714	8
1397	Synthesis and properties of amino acid-derived optically active photo-responsive polymers. 2009 , 63, 803-813	8
1396	Photochromism of dihydroindolizines part X. Photo-responsive self-assembling organogelators based on photochromic dihydroindolizines and 11-aminoundecanoic acid (AUDA). 2009 , 22, 593-606	8
1395	Photochromism of new unsymmetrical isomeric diarylethenes bearing a methoxyl group. 2009 , 22, 954-963	45
1394	Advances in liquid crystalline conjugated polymers. 2009 , 47, 2463-2485	33
1393	3,3,4,4,5,5-Hexafluoro-1-(2-methoxyphenyl)-2-[5-(4-methoxyphenyl)-2-methyl-3-thienyl]cyclopent-1-ene: a photochromic compound. 2009 , 65, o243-4	4
1392	Synthesis and optoelectronic properties of unsymmetrical isomeric diarylethene derivatives having a fluorine atom. 2009 , 936, 29-36	17

1391	Kinetic characterization of photoinduced anisotropy in diarylethene film. 2009 , 282, 568-573	2
1390	Photoswitching of diarylethene using bisazomethine dye. 2009 , 31, 1711-1714	5
1389	Synthesis, crystal structure and spectroscopic behaviors of Co(II) and Cu(II) complexes with Salen-type bisoxime ligands. 2009 , 362, 1129-1134	92
1388	Efficient one-pot synthesis of benzopyranobenzopyrans and naphthopyranobenzopyrans by domino aldol-type reaction/hetero Diels-Alder reaction of resorcinols and naphthols. 2009 , 65, 101-108	42
1387	Photochromism of dihydroindolizines. Part 12: synthesis and photochromism of novel π -conjugated rigid dihydroindolizines as potential molecular electronic devices. 2009 , 65, 1373-1388	18
1386	Anarchy in the solid state: structural dependence on glass-forming ability in triazine-based molecular glasses. 2009 , 65, 7393-7402	38
1385	Easy and efficient tuning of the photochromic properties of 1,2-bis[5 π -methyl-2 π -(2 π -pyridyl)thiazolyl]perfluorocyclopentene. 2009 , 50, 1485-1489	5
1384	Optic and proton dual-control of the fluorescence of Rhodamine based on photochromic diarylethene: mimicking the performance of an integrated logic gate. 2009 , 50, 1588-1592	41
1383	New fast synthesis route for symmetric and asymmetric phenyl-substituted photochromic dithienylethenes bearing functional groups such as alcohols, carboxylic acids, or amines. 2009 , 50, 1614-1617	32
1382	Photochromism of diarylethene derivatives having cyclohexyl and cyclohexenyl groups in single-component crystals and a two-component mixed crystal. 2009 , 50, 3404-3407	3
1381	The considerable photostability improvement of photochromic terarylene by sulfone group. 2009 , 50, 5288-5290	24
1380	Photoswitching of electron transfer property of diarylethene- π -biologen linked molecular layer constructed on a hydrogen-terminated Si(111) Surface. 2009 , 518, 591-595	16
1379	Orbital view concept applied on photoswitching systems. 2009 , 518, 444-447	22
1378	Fabrication and optical properties of photochromic compound/clay hybrid films. 2009 , 518, 651-655	15
1377	Synthesis and the optoelectronic properties of diarylethene derivatives having benzothiophene and n-alkyl thiophene units. 2009 , 919, 100-111	41
1376	Complexation of metal ions with the novel 2-hydroxy-1-naphthaldehyde-derived diamine Schiff base carrying a macrobicyclic moiety with N2O2S2 mixed donor in acetonitrile-dichloromethane. 2009 , 28, 1115-1120	17
1375	Photochromism of a diarylethene derivative in aqueous solution capping with a water-soluble nano-cavitand. 2009 , 207, 28-31	13
1374	Drastic solvent effect on thermal back reaction of spiroperimidine photochromic compounds. 2009 , 205, 116-121	11

1373	Photochromism of diarylethene oxazole derivatives in a single-crystalline phase. 2009 , 207, 282-287	13
1372	Photochromic fluorescence switching from diarylethenes and its applications. 2009 , 10, 111-129	264
1371	Fabrication of self-assembled ultrathin photochromic films containing mixed-addenda polyoxometalates H ₅ [PMo ₁₀ V ₂ O ₄₀] and 1,10-decanediamine. 2009 , 182, 983-988	20
1370	Photo-irradiation for preparation, modification and stimulation of polymeric membranes. 2009 , 34, 62-98	238
1369	Ultrafast Hemithioindigo-based peptide-switches. 2009 , 358, 103-110	38
1368	The synthesis and photochromic properties of two bis(phosphine) ligands based on dithienylethene backbone and their oxides, sulfurets and selenides. 2009 , 81, 152-155	19
1367	Electrochromic OrganicMetallic Hybrid Polymers: Fundamentals and Device Applications. 2009 , 41, 511-520	85
1366	Incorporating optical bistability into a magnetically bistable system: a photochromic redox isomeric complex. 2009 , 5424-6	30
1365	Light switching of molecules on surfaces. 2009 , 60, 407-28	251
1364	Self-assembly of photochromic diarylethenes with amphiphilic side chains: core-chain ratio dependence on supramolecular structures. 2009 , 4, 58-66	28
1363	Highly fluorescent photochromic diarylethene with an excellent fatigue property. 2009 , 19, 97-103	77
1362	Kinetics and Electrochemical Properties of a New Photochromic Diarylethene. 2009 ,	
1361	Synthesis and structure of new 6-substituted 5-methyl-5,6-dihydrocyclohepta[b]indole-9,10-dicarboxylic anhydrides. 2009 , 45, 1382-1385	0
1360	New conjugated poly(aryleneethynyls) with main-chain photochromic units. 2009 , 51, 335-343	1
1359	Photochromic silicon polymers based on 1,2-dihetarylethenes. 2009 , 51, 51-56	3
1358	Oligothiophene functionalized dimethyldihydropyrenes I: syntheses and photochromicity. 2009 , 74, 6592-605	19
1357	Tin Alkylarsonate Clusters: C ₆₀ and X (X = Cl, O, and S) Interaction-Mediated Supramolecular Formation. 2009 , 9, 3881-3888	13
1356	Tunable aggregation and luminescence of bis(diarylethene)sexithiophenes. 2009 , 113, 7717-24	25

1355	Synthesis and photochemical reactions of photochromic terarylene having a leaving methoxy group. 2009 , 11, 1475-8	43
1354	Near-infrared photochromic diarylethene iridium (III) complex. 2009 , 11, 161-4	150
1353	Polymorph-Dependent Molecular Valence Tautomerism Synchronized with Crystal-Melt Phase Transitions. 2009 , 21, 1980-1988	27
1352	Remote-control photoswitching using NIR light. 2009 , 131, 10838-9	188
1351	Multivalued Logic with a Tristable Fluorescent Switch. 2009 , 113, 5805-5811	81
1350	Solid-state photochromic properties and mechanism of 1-phenyl-3-methyl-4-(3-chlorobenzal)-5-hydroxypyrazole 4-methylthiosemicarbazone. 2009 , 113, 1255-8	23
1349	Photochromic bis(thiophen-3-yl)maleimides studied with time-resolved spectroscopy. 2009 , 113, 1033-9	15
1348	Photochemical Reversibility of Ring-Closing and Ring-Opening Reactions in Diarylperfluorocyclopentenes. 2009 , 113, 3826-3834	47
1347	Photoswitchable sexithiophene-based molecular wires. 2009 , 11, 721-4	50
1346	Making molecular machines work. 2009 , 79-89	5
1345	Probing the dynamic environment-associated conformational conversion from secondary to supersecondary structures in oligo(phenanthroline dicarboxamide)s. 2009 , 74, 4949-57	11
1344	Linker-dependent metal-sensitized photoswitching of dithienylethenes. 2009 , 48, 19-21	71
1343	Counterion-dependent valence tautomerization of ferrocenyl-conjugated pyrylium salts. 2009 , 131, 12112-24	31
1342	Effects of Photoinduced Electron Transfer on the Rational Design of Molecular Fluorescence Switch. 2009 , 113, 2594-2602	25
1341	A novel photochromic and electrochromic europium tetraazaporphyrinato and phthalocyaninato heteroleptic double-decker for information storage. 2009 , 13, 1197-1205	4
1340	OPTICAL DATA STORAGE FOR THE FUTURE. 2009 , 69-135	1
1339	Light-Controllable Surface Plasmon Resonance Absorption of Gold Nanoparticles Covered with Photochromic Diarylethene Polymers. 2009 , 113, 17359-17366	61
1338	Dithienylcyclopentenes-containing transition metal bisterpyridine complexes directed toward molecular electronic applications. 2009 , 48, 991-9	51

1337	Transition-metal tris-bipyridines containing three dithienylcyclopentenes: synthesis, photochromic, and electrochromic properties. 2009 , 48, 7080-5	44
1336	Photoswitching of dextro/levo rotation with axially chiral binaphthyls linked to an azobenzene. 2009 , 74, 5723-6	37
1335	Orbital Control of the Conductance Photoswitching in Diarylethene. 2009 , 113, 21477-21483	48
1334	DFT-based methods in the design of two-photon operated molecular switches. 2009 , 113, 7080-9	48
1333	Photochromic diarylethene-containing ionic liquids and N-heterocyclic carbenes. 2009 , 131, 912-3	183
1332	Tuning the Energy Levels of Photochromic Diarylethene Compounds for Opto-Electronic Switch Devices. 2009 , 113, 18396-18405	40
1331	Thermo and Photoresponsive Behavior of Liquid-Crystalline Helical Structures with the Aid of Dual Molecular Motions. 2009 , 21, 564-572	30
1330	Coordination assemblies of [Mn ⁴] single-molecule magnets linked by photochromic ligands: photochemical control of the magnetic properties. 2009 , 131, 9823-35	155
1329	Two-photon three-dimensional optical storage memory. 2009 , 113, 13633-44	190
1328	Photochromic ruthenium sulfoxide complexes: evidence for isomerization through a conical intersection. 2009 , 48, 8084-91	51
1327	New photochromic diarylethenes including P and Si atoms. 2009 , 33, 1357	6
1326	Confining light to deep subwavelength dimensions to enable optical nanopatterning. 2009 , 324, 917-21	172
1325	Structurally versatile novel photochromic bisarylindenone and its acetal: achievement of large cyclization quantum yield. 2009 , 11, 3890-3	100
1324	Photochromic optical memory based on non-destructive IR read-out. 2009 , 8, 1590-4	2
1323	Photoinduced anisotropy in a new diarylethene bearing a six-membered aryl. 2009 ,	
1322	Shear- and UV-induced fluorescence switching in stilbenic pi-dimer crystals powered by reversible [2 + 2] cycloaddition. 2009 , 131, 8163-72	259
1321	Photoresponsive Thiophene-Based Molecules and Materials. 783-811	1
1320	Synthesis and characterization of electroactive hyperbranched aromatic polyamides based on A2B-type triphenylamine moieties. 2009 , 19, 7666	27

1319	Design of two-photon absorbing materials for molecular optical memory and photodynamic therapy. 2009 , 7, 2241-6	63
1318	Electrochemically triggered conversion between metacyclophan-1-ene and dihydropyrene molecular switching systems. 2009 , 11, 1502-7	6
1317	Fluorescence Photoswitching in Polymer Matrix: Mutual Influence between Photochromic and Fluorescent Molecules by Energy Transfer Processes 2009 , 113, 11916-11926	60
1316	. 2009 , 45, 2232-2235	4
1315	One- and multi-photon cycloreversion reaction dynamics of diarylethene derivative with asymmetrical structure, as revealed by ultrafast laser spectroscopy. 2009 , 11, 2640-8	39
1314	Nondestructive luminescence intensity readout of a photochromic lanthanide(III) complex. 2009 , 5630-2	65
1313	A photocontrolled molecular switch regulates paralysis in a living organism. 2009 , 131, 15966-7	138
1312	Photochromic amorphous molecular materials based on dibenzothienylthiazole structure. 2009 , 19, 3606	42
1311	Photochemical investigation of a photochromic diarylethene compound that can be used as a wide range actinometer. 2009 , 8, 1734-42	29
1310	Multiresponsive switchable diarylethene and its application in bioimaging. 2009 , 11, 3818-21	107
1309	Successful bifunctional photoswitching and electronic communication of two platinum(II) acetylide bridged dithienylethenes. 2009 , 131, 16644-5	94
1308	Photocyclization Reaction of Diarylethene-Berylenebisimide Dyads upon Irradiation with Visible (>500 nm) Light 2009 , 113, 11623-11627	49
1307	Light-controlled conductance switching of ordered metal-molecule-metal devices. 2009 , 9, 76-80	282
1306	A Reverse interrupter—the novel molecular design of a fluorescent photochromic DTE-based bipyridine. 2009 , 33, 1320	27
1305	Synthesis and photochromic properties of thiophenophan-1-enes containing a polyether bridge. 2009 , 33, 1433	15
1304	Wavelength and solvent independent photochemistry: the electrocyclic ring-closure of indolylfulgides. 2009 , 8, 528-34	22
1303	A fluorescent AND logic gate driven by electrons and protons. 2009 , 33, 457-461	35
1302	N-Inversion in 2-azabicyclopentane derivatives: model simulations for a laser controlled molecular switch. 2009 , 33, 186-195	2

1301	Chiral photochromism based on 6E electrocyclization. 2009 , 33, 1314	19
1300	Photo-controlled release and uptake of Cu(hfac) ₂ in solution for a binuclear copper complex with a photochromic dithiazolylethene bridging ligand. 2009 , 33, 1380	16
1299	The photochromic and self-assembling properties of diarylethenes having chiral amphiphilic chains at the reactive carbon atoms. 2009 , 33, 1332	7
1298	Ultrafast laser spectroscopic study on photochromic cycloreversion dynamics in fulgide derivatives: one-photon and multiphoton-gated reactions. 2009 , 33, 1409	29
1297	The irreversible thermo-bleaching function of a photochromic diarylethene having trimethylsilyl groups. 2009 , 33, 1362	33
1296	Photo-induced reversible topographical changes of photochromic dithienylethene microcrystalline surfaces. 2009 , 33, 1324	17
1295	Cyclohexadiene ring opening observed with 13 fs resolution: coherent oscillations confirm the reaction path. 2009 , 11, 172-81	78
1294	Metal atom behavior on photochromic diarylethene surfaces—deposition rate dependence of selective Mg deposition. 2009 , 33, 1335	18
1293	Synthesis and properties of novel photochromic poly(methyl methacrylate-co-diarylethene)s. 2009 , 33, 825	12
1292	Reaching bistability in a photochromic spirooxazine embedded sol-gel hybrid coatings. 2009 , 19, 6756	35
1291	Photoswitching in diarylethene nanoparticles, a trade-off between bulk solid and solution: towards balanced photochromic and fluorescent properties. 2009 , 33, 1420	36
1290	Selective metal deposition for a structure with a thin intermediate layer on a photochromic diarylethene film. 2009 , 19, 3176	12
1289	Photo-switch and INHIBIT logic gate based on two pyrazolone thiosemicarbazone derivatives. 2009 , 33, 2232	18
1288	A light-induced photochromic nanoswitch capable of non-destructive readout via fluorescence emission: cluster vs. single-molecule excitation of dihydroindolizines. 2009 , 8, 1172-8	9
1287	Soft mimic gear-shift with a multi-stimulus modified diarylethene. 2009 , 19, 5726	114
1286	Competition between photoisomerization and photocyclization of the cis isomers of n-styrylnaphthalenes and -phenanthrenes. 2009 , 113, 14521-9	17
1285	Synthesis, Photochromism and Photoinduced Anisotropy of a New Photochromic Diarylethene. 2009 ,	
1284	Photoelectrocatalytic materials for environmental applications. 2009 , 19, 5089	791

- 1283 C-F bond activation in organic synthesis. *Chemical Reviews*, **2009**, 109, 2119-83 68.1 1098
- 1282 Efficient synthesis, photochromism, and holographic optical recording of a photochromic diarylethene bearing a pyrrole unit. **2009**,
- 1281 Reversible molecule switching properties of an asymmetrical photochromic diarylethene bearing an ethoxy group. **2009**,
- 1280 Syntheses and Substituent Effects on the Properties of Unsymmetrical Photochromic Diarylethenes Bearing a Benzothiophene Unit. **2009**, 62, 464 14
- 1279 Photochromic Inclusion Crystals of Phosphonium Halides with Aromatic Alcohols. **2009**, 82, 489-493 1
- 1278 Unusual Photochromic Behavior of C3-Methoxy-Substituted Bis(2-thienyl)perfluorocyclopentene. **2009**, 82, 1441-1446 8
- 1277 Syntheses and Photochromic Properties of Metacyclothiophenophan-1-enes. **2009**, 38, 982-983 3
- 1276 Synthesis and application for high density optical storage of a new photochromic diarylethene. **2009**,
- 1275 References. 471-548
- 1274 A new photochromic diarylethene for polarization optical recording based on thiazole and a six-membered aryl unit. **2009**, 1
- 1273 Synthesis and fluorescence switching of a photochromic diarylethene bearing fluorine atoms. **2010**, 1
- 1272 Inhomogeneous Distribution of Solid State Photochromic Reaction of Diarylethene Derivatives. **2010**, 23, 241-244 2
- 1271 Light-Controlled Selective Metal Deposition on a Photochromic Diarylethene Film—Toward New Applications in Electronics and Photonics—**2010**, 83, 756-761 23
- 1270 Fabrication and Photochromism of High-density Diarylethene Monolayer Immobilized on a Quartz-glass Substrate. **2010**, 39, 638-639 5
- 1269 Multiphoton-Gated Reaction in Organic Photochromic Molecules under Pulsed Laser Excitation. **2010**, 38, 90-95
- 1268 Photochromic and irreversible photofluorescent organic materials for 3D bitwise optical memory. **2010**, 19, 187-195 8
- 1267 Photochromic oligoazomethines with di(benzothiophenyl)cyclopentene moieties. **2010**, 52, 73-76 1
- 1266 Effects of contact atomic structure on the electron transport of pyridine-substituted dithienylethene optical molecular switch. **2010**, 59, 375-378 6

1265	Photochromism of dithienylethene single crystals having anthracene substituents. 2010 , 9, 1079-81	19
1264	Photochemical reaction of p-hydroxycinnamic-thiophenyl ester in the microcrystalline state. 2010 , 114, 14233-40	6
1263	Inorganic-organic hybrid photochromic materials. 2010 , 46, 361-76	353
1262	Logic information communication in a fluorescent molecular switch. 2010 , 5, 1870-4	6
1261	Facile synthesis and characterization of new photochromic trans-dithienylethenes functionalized with pyridines and fluorenes. 2010 , 9, 234-8	1
1260	Butadiene-based photoresponsive soft materials. 2010 , 26, 1598-609	23
1259	Dynamic color in stimuli-responsive cholesteric liquid crystals. 2010 , 20, 9832	232
1258	7-Nitro- and 7-aminosubstituted spiropyrans of 1-benzothieno[3,2-b]pyrrole. 2010 , 84, 19-24	10
1257	Coordination motifs in modern supramolecular chemistry. 2010 , 254, 794-831	113
1256	Synthesis and photochromism of a series of new 2-unsubstituted 3-(2-benzylbenzoyl)quinolin-4(1H)-ones. 2010 , 66, 8291-8299	6
1255	Polarization holographic optical recording based on a new photochromic diarylethene compound. 2010 , 5, 234-240	4
1254	Polymeric micelles in anticancer therapy: targeting, imaging and triggered release. 2010 , 27, 2569-89	688
1253	Synthesis and photochromic properties of a new biindenylidenedione compound bearing hydroxylphenyl groups in crystal state. 2010 , 36, 301-307	1
1252	Synthesis and photochromism of functionalized benzothiophene-based fulgides and fulgimides. 2010 , 59, 446-451	13
1251	Synthesis and photochromic properties of thiosemicarbazide and thiocarbazate derivatives of dithienylperfluorocyclopentene. 2010 , 59, 1047-1050	5
1250	Synthesis and photochromic properties of novel nonsymmetric dihetarylethenes based on benzindole and thiophene. 2010 , 59, 1639-1644	9
1249	Novel photochromic dithienylperfluorocyclopentenones with rhodanine fragments: synthesis and spectroscopic properties. 2010 , 59, 2126-2128	2
1248	Synthesis and Properties of Brominated 6,6?-Dimethyl-[2,2?-bi-1H-indene]-3,3?-diethyl-3,3?-dihydroxy-1,1?-diones. 2010 , 28, 1240-1246	2

1247	Construction of energy transfer systems within nanosized polymer micelles and their fluorescence modulation properties. 2010 , 11, 1036-43	25
1246	Isomerization in Photochromic Ruthenium Sulfoxide Complexes. 2010 , 2010, 3895-3904	42
1245	Reversible, Fine Performance Tuning of an Organometallic Molecular Wire by Addition, Ligand Replacement and Removal of Dicobalt Fragments. 2010 , 2010, 3571-3575	7
1244	Complexation and Dynamic Switching Properties of Fluorophore-Appended Resorcin[4]arene Cavitands. 2010 , 2010, 846-855	30
1243	Metal-Polymer Nanocomposites for Functional Applications. 2010 , 12, 1177-1190	183
1242	Helically Stacked Conjugated Polymers Bearing Photoresponsive and Chiral Moieties in Side Chains: Reversible Photoisomerization-Enforced Switching Between Emission and Quenching of Circularly Polarized Fluorescence. 2010 , 20, 1243-1250	102
1241	Grayscale Photopatterning of an Amorphous Polymer Thin Film Prepared by Photopolymerization of a Bisanthracene-Functionalized Liquid-Crystalline Monomer. 2010 , 20, 1561-1567	11
1240	Luminescence modulation of ordered upconversion nanopatterns by a photochromic diarylethene: rewritable optical storage with nondestructive readout. 2010 , 22, 633-7	164
1239	Hexabenzocoronene graphitic nanotube appended with dithienylethene pendants: photochromism for the modulation of photoconductivity. 2010 , 22, 829-32	65
1238	Amplification of fluorescent contrast by photonic crystals in optical storage. 2010 , 22, 1237-41	77
1237	Photoswitchable Nanoprobes for Biological Imaging Applications. 2010 , 1-30	
1236	Transition Metal-Catalyzed Synthesis of Monocyclic Five-Membered Aromatic Heterocycles. 2010 , 227-316	4
1235	Transition Metal-Catalyzed Synthesis of Fused Five-Membered Aromatic Heterocycles. 2010 , 317-410	4
1234	ChemInform Abstract: Diarylethenes for Memories and Switches. 2010 , 31, no-no	
1233	Bisthienylethenes containing a benzothiadiazole unit as a bridge: photochromic performance dependence on substitution position. 2010 , 16, 899-906	60
1232	Efficient intramolecular charge transfer in oligoene-linked donor-pi-acceptor molecules. 2010 , 16, 1470-9	49
1231	Photochromic organometallics with a dithienylethene (DTE) Bridge, [Y-C≡C-DTE-C≡C-Y] (Y={MCp*(dppe)}): photoswitchable molecular wire (M=Fe) versus dual photo- and electrochromism (M=Ru). 2010 , 16, 4762-76	90
1230	Dual photochromic/electrochromic compounds based on cationic spiropyrans and polyoxometalates. 2010 , 16, 5572-6	57

1229	Syntheses and photophysical properties of N-pyridylimidazol-2-ylidene tetracyanoruthenates(II) and photochromic studies of their dithienylethene-containing derivatives. 2010 , 16, 12642-9	32
1228	Syntheses and photochromic studies of dithienylethene-containing imidazolium derivatives and their reactivity towards nucleophiles. 2010 , 16, 13199-209	45
1227	Photoswitching vertically oriented azobenzene self-assembled monolayers at the solid-liquid interface. 2010 , 16, 14256-60	66
1226	Reversible Optical Manipulation of Superconductivity. 2010 , 122, 382-384	5
1225	Photochromic Supramolecular Memory With Nondestructive Readout. 2010 , 122, 1898-1901	35
1224	Künstliche lichtgesteuerte Katalysatorsysteme. 2010 , 122, 5176-5200	105
1223	Phototunable Diarylethene Microcrystalline Surfaces: Lotus and Petal Effects upon Wetting. 2010 , 122, 6078-6080	7
1222	Reversible optical manipulation of superconductivity. 2010 , 49, 372-4	25
1221	Photochromic supramolecular memory with nondestructive readout. 2010 , 49, 1854-7	108
1220	Artificial light-gated catalyst systems. 2010 , 49, 5054-75	302
1219	Phototunable diarylethene microcrystalline surfaces: lotus and petal effects upon wetting. 2010 , 49, 5942-4	99
1218	Luminescent Mechanochromic Sensors Based on Poly(vinylidene fluoride) and Excimer-Forming p-Phenylene Vinylene Dyes. 2010 , 211, 28-34	49
1217	Data storage based on photochromic and photoconvertible fluorescent proteins. 2010 , 149, 289-98	52
1216	Optically switchable organic hollow nanocapsules. 2010 , 343, 155-61	16
1215	Fluorescence emission enhancement in substituted 3-styrylindoles in the solid state. 2010 , 130, 24-28	13
1214	Novel photochromic 3-(3-coumarinyl)-4-(3-thienyl)maleic acid cyclic derivatives. 2010 , 20, 22-24	6
1213	The Π characteristics of the butadienimine-based optical molecular switch: An ab initio study. 2010 , 42, 1763-1768	26
1212	Structural and photochemical aspect of metal-ion-binding to a photochromic chromene annulated by crown-ether moiety. 2010 , 209, 111-120	26

1211	Synthesis and photochromism of 1,2-bis(5-aryl-2-phenylethynylthien-3-yl)hexafluorocyclopentene derivatives. 2010 , 212, 176-182	14
1210	Photoinduced intramolecular charge shift reaction in ammonium N-(3,5-dinitrobenzoyl)- β -phenylglycinate adducts. 2010 , 214, 108-111	2
1209	Reverse photochromism of spiropyran in silica. 2010 , 213, 136-140	42
1208	Morphology change of diarylethene derivatives having benzofuran derivativesPhotoinduced crystallization. 2010 , 213, 141-146	7
1207	Enhancing the light driven modulation of the refractive index in organic photochromic materials: A quantum chemical strategy. 2010 , 214, 61-68	9
1206	Synthesis and the effect of substituent position upon unsymmetrical isomeric diarylethenes bearing a pyrrole unit. 2010 , 214, 230-240	44
1205	Carbon dioxide and water as a key for unlocking photochromism of diarylethene derivative. 2010 , 215, 103-107	10
1204	Electrical functions of photochromic molecules. 2010 , 11, 1-14	139
1203	Reversible photo-regulation of the properties of liquid crystals doped with photochromic compounds. 2010 , 11, 47-61	47
1202	Highly regioselective lithiation of inter-ring carbon of bis(thien-2yl)methane: a general meso-elaboration protocol. 2010 , 66, 3682-3686	7
1201	A straightforward double intramolecular cyclization of dibenzyl dichalcogenols into a triple bond. 2010 , 66, 5149-5157	19
1200	Photochromism of new 3,5-position hybrid diarylethene derivatives bearing both thiophene and thiazole moieties. 2010 , 66, 8862-8871	56
1199	Synthesis, crystal structures and photochromic properties of novel chiral Schiff base macrocycles. 2010 , 51, 449-452	51
1198	Photochromism of new diarylethenes bearing both thiazole and benzene moieties. 2010 , 51, 3575-3579	47
1197	Recent progress of luminescent metal complexes with photochromic units. 2010 , 254, 2643-2651	169
1196	Photoinduced rearrangements in transition metal compounds. 2010 , 254, 2519-2532	50
1195	The effect of substituent position upon unsymmetrical isomeric diarylethenes bearing a methoxy group. 2010 , 84, 25-35	90
1194	The photochromism of unsymmetrical diarylethene isomers with an electron-withdrawing cyano substituent. 2010 , 87, 1-9	28

1193	The synthesis of novel photochromic diarylethenes bearing a biphenyl moiety and the effects of substitution on their properties. 2010 , 87, 257-267	25
1192	(E)-4,4'-Bis(1,3-benzoxazol-2-yl)stilbene at 150 and 375 K. 2010 , 66, o11-4	4
1191	Rare earth upconversion nanophosphors: synthesis, functionalization and application as biolabels and energy transfer donors. 2010 , 28, 807-819	96
1190	Locking and unlocking control of photochromism of naphthopyran derivative. 2010 , 23, 207-210	8
1189	Theoretical studies on geometry, solvent effect, and photochromic mechanism of two bis-heterocyclic compounds containing pyrazolone ring. 2010 , 110, 1360-1367	2
1188	Comparative semiempirical and DFT study of styrylnaphthalenes and styrylquinolines and their photocyclization products. 2010 , 111, n/a-n/a	1
1187	Spectral-kinetic evidence of interaction of photochromic diarylethenes with silver nanoparticles. 2010 , 109, 101-105	8
1186	. 2010 ,	12
1185	. 2010 ,	117
1184	Development of Bioinspired Molecular Machines and their Functions. 2010 , 31, 283-289	
1183	Synthesis of a New Photochromic Compound for Optical Storage. 2010 , 156-157, 462-466	
1182	Photochromic diarylethene-film-based compact all-optical nonlinear joint transform correlator. 2010 , 49, 108201	2
1181	Synthesis, Photochromism and Optical Storage of a Novel Unsymmetrical Diarylethene Compound. 2010 , 156-157, 665-669	
1180	Theory and computations of two-photon absorbing photochromic chromophores. 2010 , 1, 142-161	16
1179	Photochromism of diarylethene molecules and crystals. 2010 , 86, 472-83	82
1178	Effects of Different Metal-Molecule Interface Conformations on the Electronic Transport in Molecular Junctions. 2010 , 663-665, 588-591	
1177	Synthesis and Properties of a Blue Photochromic Diarylethene Derivative. 2010 , 156-157, 1639-1643	
1176	Photoinduced broadening of cholesteric liquid crystal reflectors. 2010 , 107, 073110	38

1175	Formation mechanism of noble metal nanoparticles in reactively sputtered TiO ₂ films. 2010 , 108, 063529	12
1174	SUPPRESSION OF CHROMOPHORE AGGREGATION IN AMORPHOUS POLYMERIC MATERIALS: TOWARDS MORE EFFICIENT PHOTORESPONSIVE BEHAVIOR. 2010 , 19, 57-73	22
1173	Investigation of Quenching Mechanism in Thermoreversible Fluorescent Recording Materials of Fluorescence Using Thermochromic Fluorescence Resonance Energy Transfer. 2010 , 49, 052501	
1172	Syntheses and properties of a unsymmetrical photochromic diarylethene with a trifluoromethyl group. 2010 ,	
1171	Optoelectronic properties and holographic optical recording of a novel unsymmetrical diarylethene. 2010 ,	
1170	Syntheses, photochromism and polarization optical recording of a novel diarylethene having a thiazole unit. 2010 ,	1
1169	Doubly Closing or Not? Theoretical Analysis for Coupled Photochromes. 2010 , 114, 9489-9497	48
1168	Syntheses of quaternary carbon-containing oxazatricycle and spiropyran libraries via multicomponent reactions and their molecular switching properties. 2010 , 12, 119-24	20
1167	A diarylethene cocrystal that converts light into mechanical work. 2010 , 132, 14172-8	404
1166	Unique solvatochromism of a membrane composed of a cationic porphyrin-clay complex. 2010 , 26, 4639-41	45
1165	Metal-Based Quadratic Nonlinear Optical Materials. 2010 , 1-59	22
1164	Functionalization of Carbon Nanotubes for Nanoelectronic and Photovoltaic Applications. 2010 , 333-363	1
1163	Transition metal complexes with photochromic ligands for photosensitization and photoswitchable properties. 2010 , 20, 2063-2070	165
1162	Photochromic Dithienylethene-Phthalocyanines and Their Analogs. 2010 , 89-103	5
1161	Photoswitching and sensor applications of a spiropyran-polythiophene conjugate. 2010 , 46, 2859-61	54
1160	Two-way photoswitching using one type of near-infrared light, upconverting nanoparticles, and changing only the light intensity. 2010 , 132, 15766-72	255
1159	Reversible light-controlled conductance switching of azobenzene-based metal/polymer nanocomposites. 2010 , 21, 465201	25
1158	Synthesis and properties of a novel photochromic compound with modulated fluorescence in the solid state. 2010 , 75, 4742-7	22

1157	Bridged photochromic diarylethenes investigated by ultrafast absorption spectroscopy: evidence for two distinct photocyclization pathways. 2010 , 132, 7379-90	59
1156	Excited state distortion in photochromic ruthenium sulfoxide complexes. 2010 , 132, 5428-36	64
1155	The thermosalient phenomenon. "Jumping crystals" and crystal chemistry of the anticholinergic agent oxitropium bromide. 2010 , 132, 14191-202	138
1154	Charge transport through molecular switches. 2010 , 22, 133001	207
1153	Ultrafast bidirectional photoswitching of a spiropyran. 2010 , 132, 16510-9	111
1152	Electronic and Steric Effects on the Photoisomerization of Dimethylsulfoxide Complexes of Ru(II) Containing Picolinate. 2010 , 1, 3371-3375	27
1151	Monodispersed and Size-Controlled Diarylethene Nanoparticles Fabricated by the Reprecipitation Method. 2010 , 520, 245/[521]-250/[526]	14
1150	From Single Molecules to Practical Devices. 2010 , 379-428	
1149	A simplicity-guided approach toward molecular set/reset memories. 2010 , 34, 2701	39
1148	Bandrowski's base revisited: toward a unprecedented class of quinonediimines or new two-way chromophoric molecular switches. 2010 , 75, 1855-61	38
1147	Arylethynyl derivatives of the dihydroazulene/vinylheptafulvene photo/thermoswitch: tuning the switching event. 2010 , 132, 9165-74	61
1146	Photochemical "triode" molecular signal transducer. 2010 , 132, 6588-95	48
1145	Symmetric six-fold arrays of photo- and electrochromic dithienylethene switches. 2010 , 12, 2132-5	61
1144	Nonlinear optical switching properties in the furylfulgide aberchrome 540-dihydrobenzofuran derivative pair of photochromic materials. 2010 , 114, 673-9	15
1143	Single boryl isomerization in silyl-bridged photochromic diboryl dyes. 2010 , 12, 5266-9	45
1142	Double protonation of 1,5-bis(triarylaminoethynyl)anthraquinone to form a paramagnetic pentacyclic dipyrylium salt. 2010 , 132, 12472-9	37
1141	Reversible, solvent-induced chirality switch in atrane structure: control of the unidirectional motion of the molecular propeller. 2010 , 132, 16733-4	78
1140	Development of Field-Effect Transistor-Type Photorewritable Memory Using Photochromic Interface Layer. 2010 , 49, 04DK09	13

1139	Nanocrystallization of Diarylethene and Photochromic Properties. 2010 , 10, 2857-2859	19
1138	Photocurrent switching method based on photoisomerization of diarylethene layer for nondestructive readout of photochromic optical memory. 2010 , 49, 3894-9	14
1137	Digital Operations with Molecules - Advances, Challenges, and Perspectives. 2010 , 63, 148	61
1136	Thermal stability, photochromic sensitivity and optical properties of [Ru(bpy)(2)(OSOR)] ⁺ compounds with R = Bn, BnCl, BnMe. 2010 , 18, 23495-503	5
1135	Characterization of fatigue resistance property of photochrome materials for optical storage devices. 2010 ,	1
1134	A Novel (3,6,6)-Connected 3D Supramolecular Framework Constructed from 2D (4,4) Coordination Network [Pb(H2pimdc)2(H2O)2] _n . 2010 , 40, 762-767	1
1133	Spiropyrans as molecular optical switches. 2010 , 9, 213-20	61
1132	Multiple bistability and tristability with dual spin-state conversions in [Fe(dpp)2][Ni(mnt)2]2 x MeNO2. 2010 , 132, 3553-60	123
1131	Photochromic performance of a dithienylethene-indolinooxazolidine hybrid. 2010 , 9, 131-5	41
1130	Photochromism of diarylethene single molecules and single crystals. 2010 , 9, 1535-42	92
1129	Ultrafast excited-state dynamics in some spirooxazines and chromenes. Evidence for a dual relaxation pathway. 2010 , 9, 1391-9	6
1128	Ab Initio Investigation of the Electronic Properties of Coupled Dithienylethenes. 2010 , 1, 434-438	27
1127	Simulation of the Properties of a Photochromic Triad. 2010 , 1, 2104-2108	25
1126	Three-level topology switching in a molecular M _B ius band. 2010 , 132, 3140-52	120
1125	Metal Complexes Featuring Photochromic Ligands. 2010 , 171-225	16
1124	Synthesis of novel thermally reversible photochromic axially chiral spirooxazines. 2010 , 12, 3552-5	50
1123	Chemically responsive luminescent switching in transparent flexible self-supporting [EuW10O36]9[Agarose nanocomposite thin films. 2010 , 20, 271-277	79
1122	Nanoparticles functionalised with reversible molecular and supramolecular switches. 2010 , 39, 2203-37	447

1121	A versatile photochromic dithienylethene-containing β -diketonate ligand: near-infrared photochromic behavior and photoswitchable luminescence properties upon incorporation of a boron(III) center. 2010 , 132, 13992-3	152
1120	Fluorescence photoswitching of a diarylethene-perylenebisimide dyad based on intramolecular electron transfer. 2010 , 9, 181-7	45
1119	Reversibly photoswitchable nucleosides: synthesis and photochromic properties of diarylethene-functionalized 7-deazaadenosine derivatives. 2010 , 132, 8372-7	101
1118	Novel anthracene materials for applications in lithography and reversible photoswitching by light and air. 2010 , 26, 4421-8	36
1117	Designed molecular switches: controlling the conformation of benzamido-diphenylacetylenes. 2010 , 12, 3651-3	36
1116	Preparation of a tetraphenylethylene-based emitter: synthesis, structure and optoelectronic properties of tetrakis(pentaphenylphenyl)ethylene. 2010 , 46, 1065-7	74
1115	Fully diastereospecific photochromic reaction of a thiophenophan-1-ene. 2010 , 46, 3994-5	21
1114	The potential of AB(1) systems for direct actinometry. Diarylethenes as successful actinometers for the visible range. 2010 , 12, 13248-54	22
1113	Hybrid dithienylethene-naphthopyran multi-addressable photochromes: an ab initio analysis. 2010 , 12, 13144-52	23
1112	TD-DFT simulations of the electronic properties of star-shaped photochromes. 2010 , 12, 7994-8000	24
1111	Probing photochromic properties by correlation of UV-visible and infra-red absorption spectroscopy: a case study with cis-1,2-dicyano-1,2-bis(2,4,5-trimethyl-3-thienyl)ethene. 2010 , 9, 188-93	16
1110	Fast decoloration of spironaphthooxazine bound to a poly(dimethylsiloxane) network. 2010 , 9, 162-71	17
1109	Ultimate diastereoselectivity in the ring closure of photochromic diarylethene possessing facial chirality. 2010 , 46, 4785-7	38
1108	Light-controlled metal deposition on photochromic polymer films. 2010 , 20, 9623	22
1107	The influence of a 1,1-diarylvinyl moiety on the photochromism of naphthopyrans. 2010 , 8, 4874-83	16
1106	Fabrication and characterization of molecular scale field-effect transistors. 2010 , 20, 2305	16
1105	Non-destructive erasable molecular switches and memory using light-driven twisting motions. 2010 , 46, 8344-6	26
1104	1,2-Bis(3,5-dimethyl dithioene [3,2-b:2',3'-d]thiophene -2-yl) perfluorocyclopentene: synthesis and photochromic reaction in solution and LB films. 2010 , 20, 884-890	15

1103	SHG-active molecular nanorods with intermediate photochromic properties compared to solution and bulk solid states. 2010 , 46, 6385-7	15
1102	Transparent and flexible phosphomolybdate–agarose composite thin films with visible-light photochromism. 2010 , 20, 1107-1111	39
1101	Efficient carrier separation from a photochromic diarylethene layer. 2010 , 9, 157-61	10
1100	Control of chemical dynamics by lasers: theoretical considerations. 2010 , 114, 6171-87	12
1099	Substitution effects on the optical spectra of diarylethene photochroms: ab initio insights. 2010 , 36, 74-78	7
1098	Photochromic inorganic-organic hybrid: a new approach for switchable photoluminescence in the solid state and partial photochromic phenomenon. 2010 , 39, 8688-92	78
1097	Multiphoton-gated cycloreversion reactions of photochromic diarylethene derivatives with low reaction yields upon one-photon visible excitation. 2010 , 9, 172-80	46
1096	Photoswitching of E222Q GFP mutants: "concerted" mechanism of chromophore isomerization and protonation. 2010 , 9, 1307-19	22
1095	Modulation of iridium(III) phosphorescence via photochromic ligands: a density functional theory study. 2010 , 12, 13730-6	52
1094	Photoinduced micropatterning by polymorphic crystallization of a photochromic diarylethene in a polymer film. 2010 , 46, 3723-5	28
1093	Synthesis, characterization, and photoresponsive properties of a series of Mo(IV)-Cu(II) complexes. 2011 , 40, 2735-43	24
1092	Polystyrene-encapsulated diarylethene nanocrystals by soap-free emulsion polymerization. 2011 , 21, 7892	14
1091	Kinetic studies on visible-light-switchable photochromic fluorophores based on diarylethenes. 2011 , 10, 1488-95	10
1090	Tetra- and tri-thienyl ethenes: new fluorescent photochromic compounds. 2011 , 10, 964-72	3
1089	Synthetic protocol for diarylethenes through Suzuki-Miyaura coupling. 2011 , 47, 7149-51	38
1088	A new insight into palladium-catalyzed reaction of 2-alkynylphenol with carbon monoxide. 2011 , 13, 5858-61	16
1087	Reversible photocontrol of surface wettability between hydrophilic and superhydrophobic surfaces on an asymmetric diarylethene solid surface. 2011 , 27, 6395-400	61
1086	Reversible on/off conductance switching of single diarylethene immobilized on a silicon surface. 2011 , 133, 9239-41	94

1085	Enhanced One-Photon Cycloreversion Reaction of Diarylethenes near Individual Gold Nanoparticles. 2011 , 115, 4564-4570	38
1084	Photo- and electro-chromic organometallics with dithienylethene (DTE) linker, L2CpM-DTE-MCpL2: dually stimuli-responsive molecular switch. 2011 , 40, 10643-57	47
1083	Photochromism and Optical Recording of a Novel Photochromic Diarylethene Bearing Thiazole and Biphenyl Unit. 2011 ,	
1082	Selective metal deposition on photosensitive organic crystal surfaces. 2011 , 21, 12639	19
1081	Photochemical control of dielectric properties based on intermolecular proton transfer in a hydrogen-bonded diarylethene crystal. 2011 , 47, 4186-8	24
1080	Solid-state photochromism of pyrazolones with highly improved sensitivity, fatigue resistance and reversible fluorescent switching properties. 2011 , 21, 3210	24
1079	Photoisomerization of azobenzene derivatives confined in gold nanoparticle aggregates. 2011 , 13, 12900-5	29
1078	Synthesis and photochromic studies of Γ_6 -mesitylene ruthenium(II) complexes bearing N-heterocyclic carbene ligands with the dithienylethene moiety. 2011 , 35, 2267	24
1077	Platinadithiolene-conjugated pyrylium salt with strong intramolecular donor-acceptor interaction. 2011 , 47, 2330-2	12
1076	Solid-state photochemical and photomechanical properties of molecular crystal nanorods composed of anthracene ester derivatives. 2011 , 21, 6258	63
1075	Supramolecular isomer-dependent photochromism and emission color tuning of bipyridinium salts. 2011 , 21, 17667	48
1074	Lewis acid enhanced switching of the 1,1-dicyanodihydroazulene/vinylheptafulvene photo/thermoswitch. 2011 , 47, 6102-4	27
1073	Synthesis, optoelectronic property and application in optical storage of a novel diarylethene bearing an indole unit and a benzene ring. 2011 ,	
1072	Modification of a photochromic 3-aryl-3-(Γ naphthalene)-3H-naphtho[2,1-b]pyran system with a fast fading speed in solution and in a rigid polymer matrix. 2011 , 21, 4961	10
1071	Photochromic Langmuir-Blodgett multilayers as photoactive coatings. 2011 ,	
1070	Self-organized photochromic dithienylcyclopentene organogels. 2011 , 21, 15673	28
1069	Reversible photochemical control of cholesteric liquid crystals with a diamine-based diarylethene chiroptical switch. 2011 , 21, 3142	50
1068	Optoelectronic Properties and Holographic Optical Recording of a Photochromic Diarylethene Having a Pyrrole Unit. 2011 ,	

1067	Single-molecule conductance of pyridine-terminated dithienylethene switch molecules. 2011 , 5, 5115-23	84
1066	Photochemical E(trans)↔(cis)E Isomerization of an Amphiphilic Cholest-5-en-3 β yl(E)-9-anthraceneprop-2-enoate on Solid Substrate. 2011 , 115, 20682-20688	4
1065	Ring-closing and dehydrogenation reactions of highly excited cis-stilbene: ultrafast spectroscopy and structural dynamics. 2011 , 115, 1508-15	12
1064	Cyclization Reaction Dynamics of a Photochromic Diarylethene Derivative as Revealed by Femtosecond to Microsecond Time-Resolved Spectroscopy. 2011 , 115, 4265-4272	69
1063	Photochromic Organometallics, A Stimuli-Responsive System: An Approach to Smart Chemical Systems□ 2011 , 30, 43-51	96
1062	Ring-closure and isomerization capabilities of spiropyran-derived merocyanine isomers. 2011 , 115, 3924-35	46
1061	Charge transfer and intraligand excited state interactions in platinum-sensitized dithienylethenes. 2011 , 50, 4956-66	38
1060	Ensemble and Single-Particle Fluorescence Photomodulation in Diarylethene-Doped Conjugated Polymer Nanoparticles. 2011 , 115, 19065-19073	48
1059	Functionalization of a simple dithienylethene via palladium-catalyzed regioselective direct arylation. 2011 , 13, 6394-7	44
1058	High-Convertible Photochromism of a Diarylethene Single Crystal Accompanying the Crystal Shape Deformation. 2011 , 11, 1223-1229	61
1057	An all-photonic molecule-based D flip-flop. 2011 , 133, 20742-5	77
1056	Photoswitching of the Second Harmonic Generation from Poled Phenyl-Substituted Dithienylethene Thin Films and EFISH Measurements. 2011 , 115, 20425-20432	29
1055	Amide- and urea-functionalized dithienylethene: synthesis, photochromism, and binding with halide anions. 2011 , 13, 6022-5	62
1054	Electrochemical and photochemical cyclization and cycloreversion of diarylethenes and diarylethene-capped sexithiophene wires. 2011 , 5, 1165-78	76
1053	Electronic effects on photochemistry: the diverse reaction dynamics of highly excited stilbenes and azobenzene. 2011 , 133, 4164-7	29
1052	Proton-coupled electron shuttling in a covalently linked ruthenium-copper heterodinuclear complex. 2011 , 133, 18570-3	17
1051	Kinetics of photochromic conversion at the solid state: quantum yield of dithienylethene-based films. 2011 , 115, 12184-93	33
1050	Photophysical, electrochemical and crystallographic investigations of the fluorophore 2,5-bis(5-tert-butyl-benzoxazol-2-yl)thiophene. 2011 , 115, 12362-9	24

1049	Calculation driven synthesis of an excellent dihydropyrene negative photochrome and its photochemical properties. 2011 , 133, 4040-5	43
1048	Theoretical design of a light-driven molecular rotary motor with low energy helical inversion: 9-(5-methyl-2-phenyl-2-cyclopenten-1-ylidene)-9H-fluorene. 2011 , 115, 13611-8	16
1047	Electronic decoupling approach to quantitative photoswitching in linear multiazobenzene architectures. 2011 , 115, 9930-40	64
1046	Photochemical control of a highly efficient addition reaction between electron-rich alkynes and tetracyanoethylene. 2011 , 47, 9819-21	32
1045	Interplay Between Electronic and Steric Effects in Multiphotochromic Diarylethenes. 2011 , 115, 9193-9203	48
1044	Photoswitchable triple hydrogen-bonding motif. 2011 , 47, 460-2	38
1043	Multifunctional Diarylethenes. 2011 , 1-35	6
1042	Introduction: Molecular Electronics and Molecular Wires. 2011 , 1-15	1
1041	Heterocyclic Dyes: Preparation, Properties, and Applications. 2011 , 22, 21-58	7
1040	Linear and nonlinear optical properties of cationic bipyridyl iridium(III) complexes: tunable and photoswitchable?. 2011 , 50, 5027-38	90
1039	PHOTOSWITCHABLE NANOFLUOROPHORES FOR INNOVATIVE BIOIMAGING. 2011 , 04, 395-408	10
1038	Functionalized Carbon Nanotubes: (X-CNTs). 2011 , 113-161	0
1037	Fulgides and Related Compounds. 2011 , 81-95	7
1036	Photoswitchable Molecular Systems Based on Spiroyrans and Spirooxazines. 2011 , 37-80	31
1035	A chiroptical photoswitchable DNA complex. 2011 , 115, 11581-7	66
1034	Primary Photophysical Processes in Chromoproteins. 2011 , 41-68	
1033	Synthesis and photochromism of naphthopyrans bearing naphthalimide chromophore: predominant thermal reversibility in color-fading and fluorescence switch. 2011 , 115, 14648-58	66
1032	A foldamer-based chiroptical molecular switch that displays complete inversion of the helical sense upon anion binding. 2011 , 133, 13938-41	143

1031	Optically activated uptake and release of Cu ²⁺ or Ag ⁺ ions by or from a photoisomerizable monolayer-modified electrode. 2011 , 27, 1380-6	33
1030	Photochemical and Photophysical Behavior of Thiophene. 2011 , 104, 127-390	15
1029	Photochromism and mechanism of pyrazolones in crystals: structural variations directly observed by X-ray diffraction. 2011 , 21, 12202	14
1028	Femtosecond dynamics of the ring closing process of diarylethene: a case study of electrocyclic reactions in photochromic single crystals. 2011 , 115, 13158-68	72
1027	Diarylethene-containing cyclometalated platinum(II) complexes: tunable photochromism via metal coordination and rational ligand design. 2011 , 133, 12690-705	150
1026	Main-chain photochromic conducting polymers. 2011 , 2, 2699	30
1025	Photochromic alkynes as versatile building blocks for metal alkynyl systems: design, synthesis, and photochromic studies of diarylethene-containing platinum(II) phosphine alkynyl complexes. 2011 , 50, 471-81	78
1024	Recent progress on photochromic diarylethene polymers. 2011 , 2, 2435	82
1023	PhPBPPh group bound to 1,8-positions of naphthalene: Preparation of cis isomer and synthesis of binuclear complex. 2011 , 696, 3402-3407	11
1022	Photochromism of Multicomponent Diarylethene Crystals. 2011 , 267-283	
1021	Switching and rectification of a single light-sensitive diarylethene molecule sandwiched between graphene nanoribbons. 2011 , 135, 184703	58
1020	Photochromism of a pyrazolone derivative in crystalline state and in HPMC composite film. 2011 , 10, 1562-7	8
1019	Carbon nanotubes-photochromic polymer blends: Light-triggered conductance switching device. 2011 ,	
1018	Reversible two-photon photoswitching and two-photon imaging of immunofunctionalized nanoparticles targeted to cancer cells. 2011 , 133, 365-72	149
1017	Synthesis, Photochromism Properties of a Hybrid Diarylethene with Biphenyl. 2011 ,	
1016	Optical modulation of supramolecular assembly of amphiphilic photochromic diarylethene: from nanofiber to nanosphere. 2011 , 47, 6876-8	28
1015	Photocontrollable J-aggregation of a diarylethene-phthalocyanine hybrid and its aggregation-stabilized photochromic behavior. 2011 , 27, 8061-6	22
1014	Structure-Based Design of Light-Controlled Proteins. 2011 , 233-266	1

1013	Multiswitchable Acidichromic and Photochromic Bisdiarylethene. An Experimental and Theoretical Study. 2011 , 115, 23096-23106	23
1012	Synthesis and fluorescence switching of a photochromic diarylethene bearing pyridine unit. 2011 ,	
1011	A 'chemically-gated' photoresponsive compound as a visible detector for organophosphorus nerve agents. 2011 , 47, 10954-6	48
1010	Photoswitchable organic mixed valence in dithienylcyclopentene systems with tertiary amine redox centers. 2011 , 133, 17027-36	51
1009	Light-Directed Smart Responses in Azobenzene-Containing Liquid-Crystalline Polymer Thin Films. 2011 , 961-982	
1008	Diarylethene-dihydroazulene multimode photochrome: a theoretical spectroscopic investigation. 2011 , 13, 13791-9	17
1007	A photoactivated artificial muscle model unit: reversible, photoinduced sliding of nanosheets. 2011 , 133, 17130-3	51
1006	Gated photochromism in triarylborane-containing dithienylethenes: a new approach to a "lock-unlock" system. 2011 , 133, 19622-5	100
1005	Smart heterostructures for tailoring the optical properties of photochromic hybrid organic-inorganic polyoxometalates. 2011 , 50, 8790-6	43
1004	Photochromic and redox properties of bisterpyridine ruthenium complexes based on dimethyldihydropyrene units as bridging ligands. 2011 , 50, 10581-91	28
1003	Photosensitive Molecules for Controlling Biological Function. 2011 ,	4
1002	Photochromic organic-inorganic hybrid materials. 2011 , 40, 672-87	481
1001	Photoswitchable water-soluble quantum dots: pcFRET based on amphiphilic photochromic polymer coating. 2011 , 5, 2795-805	107
1000	Photoswitching Property of Diarylethenes in Molecular Magnetism and Electronics. 2011 , 215-235	1
999	Reversible photoswitching of dye-doped core-shell nanoparticles. 2011 , 47, 10975-7	28
998	Development of real-time vibrational spectroscopy of molecules in electronic excited states: toward mapping molecular potential energy hypersurfaces. 2011 , 28, 1043	
997	Synthesis and characterization of light-driven dithienylcyclopentene switches with axial chirality. 2011 , 76, 7148-56	43
996	Four-coordinate organoboron compounds with a π -conjugated chelate ligand for optoelectronic applications. 2011 , 50, 12263-74	217

995	Photochromic polyurethanes for rewritable CGHs in optical testing. 2011 , 19, 4536-41	16
994	Dual-functional diffraction grating based on selective metal deposition of photochromic diarylethene. 2011 , 36, 3648-50	12
993	Photoresponsive formation of pseudo[2]rotaxane with cyclodextrin derivatives. 2011 , 13, 4356-9	26
992	Single-molecule fluorescence photoswitching of a diarylethene-perylenebisimide dyad: non-destructive fluorescence readout. 2011 , 133, 4984-90	250
991	Determining the magnitude and direction of photoinduced ligand field switching in photochromic metal-organic complexes: molybdenum-tetracarbonyl spirooxazine complexes. 2011 , 133, 10081-93	42
990	Ultrasound-induced emission enhancement based on structure-dependent homo- and heterochiral aggregations of chiral binuclear platinum complexes. 2011 , 133, 16054-61	141
989	Photochromic and fluorescence switching properties of oxidized triangle terarylenes in solution and in amorphous solid states. 2011 , 21, 17425	55
988	Single molecule logical devices. 2012 , 313, 217-68	4
987	Conductance Properties of Switchable Molecules. 2011 , 719-777	2
986	Controlled self-assembly of bis(crown)stilbenes into unusual bis-sandwich complexes: structure and stereoselective [2+2] photocycloaddition. 2011 , 35, 724	36
985	1,4-Bis(1,3-dioxo-2-indenylidene)cyclohexane: polymorphism, gas phase oxidation and enol form mediated radical formation in the solid state. 2011 , 13, 3170-3174	4
984	Altering intercomponent interactions in a photochromic multi-state [2]rotaxane. 2011 , 9, 4051-6	56
983	The synthesis and study of multilayer polymer structures based on 1,2-bis(2-methylbenzo[b]thiophen-3-yl)cyclopent-1-ene. 2011 , 60, 2536-2543	3
982	Chiroptical Molecular Switches. 2011 , 121-179	24
981	Photochromic polymers bearing various diarylethene chromophores as the pendant: synthesis, optical properties, and multicolor photochromism. 2011 , 21, 17249	66
980	Syntheses of Photochromic Dihetarylenes. 2011 , 103, 1-59	12
979	Time-resolved fluorescence study on the photomerocyanine form of spiropyran and its derivative with azobenzene. 2011 , 217, 35-39	13
978	. 2011 ,	87

- 977 Efficient synthesis of a new unsymmetrical photochromic diarylethene for optical recording storage. **2011**,
- 976 Synthesis and properties of a new asymmetrical photochromic diarylethene bearing an isoxazole unit. **2011**,
- 975 Synthesis and Fluorescence Switching of a New Photochromic Diarylethene. **2011**, 276, 012075 1
- 974 A novel photochromic diarylethene based on a benzofuran moiety for optical recording. **2011**,
- 973 Synthesis and properties of a novel diarylethene compound based on five and six rings. **2011**,
- 972 Synthesis, photochromism properties of a hybrid diarylethene with hydroxyl group. **2011**,
- 971 Synthesis and properties of a new diarylethene having thiazole and biphenyl moieties. **2011**, 276, 012132 1
- 970 Synthesis of a new Diarylethene for Optical Recording. **2011**, 276, 012192 2
- 969 Synthesis and Application for polarization Optical Storage of a New Photochromic compound. **2011**, 276, 012116
- 968 Synthesis, photochromism and holographic optical recording of a novel diarylethene bearing a pyrrole unit. **2011**, 276, 012179
- 967 Optical data storage in photochromic compounds. **2011**, 1
- 966 Synthesis and application for optical recording of a new diarylethene having a benzene unit. **2011**, 276, 012149
- 965 Synthesis, kinetics and application for optical recording of a new asymmetrical photochromic diarylethene. **2011**, 276, 012191
- 964 Protonation-induced Cyclization of 1,8-Bis(arylethynyl)anthraquinones: Monopyrylium Salt Formation and Intensification of Donor-Acceptor Interaction. **2011**, 40, 1456-1458 7
- 963 Synthesis and Photochromic Properties of [2.2]Thiophenophan-8-ene-1,2-diol. **2011**, 40, 646-647 5
- 962 Photochromism of a Diarylethene with Methoxymethyl Groups at Reactive Carbons: Thermal Irreversible Reaction of the Closed-ring Isomer. **2011**, 40, 93-95 10
- 961 Electroactive Nanotubes from π -Conjugated Discotic Molecules. **2011**, 84, 17-25 11
- 960 Correlation between Steric Substituent Constants and Thermal Cycloreversion Reactivity of Diarylethene Closed-Ring Isomers. **2011**, 84, 141-147 36

- 959 Cyclization Reaction of Diarylethene through the Triplet Excited State. **2011**, 84, 1336-1338 26
- 958 Synthesis, Photochromic, and Electrical Properties of Diarylethene Derivatives Having 9-Carbazolyl or 2-(1,3,4-Oxadiazolyl) Group as Carrier Mobilization Sites. **2011**, 40, 1267-1268 1
- 957 Photochromism of 1,2-Bis(5-n-alkyl-2-phenyloxazol-4-yl)perfluorocyclopentene Derivatives in Single-crystalline Phase. **2011**, 40, 635-637 4
- 956 Switching Reaction Pathways of Benzo[b]thiophen-3-yl lithium and Benzo[b]furan-3-yl lithium Based on High-resolution Residence-time and Temperature Control in a Flow Microreactor. **2011**, 40, 393-395 24
- 955 Acid-induced conformational alteration of cis-preferential aromatic amides bearing N-methyl-N-(2-pyridyl) moiety. **2011**, 67, 8536-8543 28
- 954 Photochromism of diarylethene derivatives bearing a benzo[b]silole unit. **2011**, 52, 5601-5604 14
- 953 Three-dimensional optical data storage through multi-photon confocal microscopy and imaging. **2011**, 88, 3466-3469 9
- 952 Polyenic spirobenzopyrans: Synthesis and study of photochromic properties. **2011**, 222, 16-24 6
- 951 Photochromism into optics: Opportunities to develop light-triggered optical elements. **2011**, 12, 106-125 63
- 950 Photochromism of diarylethene: Effect of polymer environment and effects on surfaces. **2011**, 12, 138-150 19
- 949 Single-molecule fluorescence photoswitching: Design and synthesis of photoswitchable fluorescent molecules. **2011**, 12, 177-208 158
- 948 Electronic properties associated with conformational changes in azobenzene-derivative molecular junctions. **2011**, 12, 2144-2150 22
- 947 Reversible conversion between AgCl and Ag in AgCl-doped RSiO₃/2TiO₂ films prepared by a sol-gel technique. **2011**, 130, 264-269 11
- 946 Photoinduced intramolecular charge transfer process of betaine pyridinium: A theoretical spectroscopic study. **2011**, 515, 42-48 12
- 945 Metal alkynyl complexes as switchable NLO systems. **2011**, 255, 2530-2541 155
- 944 Fluorescence and morphology modulation in a photochromic diarylethene self-assembly system. **2011**, 27, 5090-7 44
- 943 Synthesis and photochromic properties of new nonsymmetric dihetarylethenes Indole and thiophene derivatives. **2011**, 60, 1899-1905 9
- 942 Synthesis, structures, and photochromic properties of 3-[(E)-alk-1-enyl]-4-(1-alkyl-5-methoxy-2-methyl-1H-indol-3-yl)furan-2,5-diones. **2011**, 60, 1090-1095 4

941	Photo-responsive doped cholesteric liquid crystals. 2011 , 38, 1641-1652	56
940	Octathienyl/phenyl-substituted zinc phthalocyanines J-aggregated through conformational planarization. 2011 , 40, 393-401	9
939	Visible light-triggered photoswitchable diarylethene-based iridium(III) complexes for imaging living cells. 2011 , 6, 1263-8	74
938	Photoinduced reversible topographical changes on diarylethene microcrystalline surfaces with biomimetic wetting properties. 2011 , 6, 2400-6	20
937	All-photonic multifunctional molecular logic device. 2011 , 133, 11641-8	259
936	Synthesis and photochromic properties of imidazole-based diarylethenes. 2011 , 10, 587-91	14
935	Synthesis and photochromic properties of N 2-alkyl-5-furyl-4-thienylpyridazinones. 2011 , 60, 168-174	2
934	Fluorescent probes for Al(III) and Cr(III) based on a photochromic diarylethene bearing a fluorescent rhodamine unit. 2011 , 174, 329-336	29
933	Molecular adlayer and photo-induced structural transformation of a diarylethene derivative on Au(111) investigated with scanning tunneling microscopy. 2011 , 656, 304-311	6
932	Highly diastereoselective photochromic ring closure of bisbenzothienylethenes possessing dual fluorinated stereocontrollers. 2011 , 89, 223-229	14
931	Effects of substitution on the optoelectronic properties of photochromic diarylethenes bearing a pyrrole moiety. 2011 , 90, 71-81	33
930	Synthesis of diarylethene derivatives containing various heterocycles and tuning of light-emitting properties in a turn-on fluorescent diarylethene system. 2011 , 90, 290-296	35
929	VO ₂ -based double-layered films for smart windows: Optical design, all-solution preparation and improved properties. 2011 , 95, 2677-2684	181
928	A first-principles study of dihydroazulene as a possible optical molecular switch. 2011 , 54, 437-441	5
927	A photochromic dinuclear compound: aquatetrakis(2,3-diphenylprop-2-enoato)bis(2,3-diphenylprop-2-enoato)ethanolbis(1,10-phenanthroline)dilanthanum(III) 2011 , 67, m293-6	
926	Modulation of color change and photocyclization of diarylethene with metal complex. 2011 , 24, 517-521	9
925	New insight into the photochromic mechanism of 1,3-diphenyl-4-(4-fluoro)benzal-5-pyrazolone N(4)-phenyl semicarbazone. 2011 , 111, 1048-1054	2
924	Control of optical properties through photochromism: a promising approach to photonics. 2011 , 5, 711-736	55

923	Amphiphilic diblock copolymer with dithienylethene pendants: synthesis and photo-modulated self-assembly. 2011 , 32, 977-82	27
922	Synthesis of new 3,3'-(1,4-phenylene)bis(1,5-diones) derivatives. 2011 , 48, 1434-1439	1
921	Single molecule electronic devices. 2011 , 23, 1583-608	380
920	Two-photon 3D optical data storage via aggregate switching of excimer-forming dyes. 2011 , 23, 2425-9	66
919	Core/Sheath organic nanocable constructed with a master-slave molecular pair for optically switched memories. 2011 , 23, 5059-63	13
918	Super-Resolution Fluorescence Imaging. 2011 , 219-240	
917	Photochromic Responses in Polymer Matrices. 2011 , 223-246	3
916	New Photochromic Dithienylethenes through a Click Chemistry Approach. 2011 , 2011, 371-376	17
915	Photochromism of Rotation-Hindered Furylfulgides Influenced by Steric Modifications. 2011 , 2011, 1947-1955	25
914	Synthesis of Photochromic Compounds for Aqueous Solutions and Focusable Light. 2011 , 2011, 3301-3312	18
913	Intramolecular Hydrogen Bonding in a Triangular Dithiazolyl-Azaindole for Efficient Photoreactivity in Polar and Nonpolar Solvents. 2011 , 2011, 5047-5053	39
912	Efficient One-step Synthesis and Properties of Photochromic Diarylethenes Having an Indene Bridging Unit. 2011 , 29, 2445-2450	8
911	DFT/TDDFT investigation of the modulation of photochromic properties in an organoboron-based diarylethene by fluoride ions. 2011 , 12, 313-21	8
910	Optical modulation of amplified emission in a polyfluorene-diarylethene blend. 2011 , 12, 3619-23	8
909	Green and sustainable chemical synthesis using flow microreactors. 2011 , 4, 331-40	344
908	Photon-Quantitative Reaction of a Dithiazolylarylene in Solution. 2011 , 123, 1603-1606	32
907	Anion-Dependent Switching: Dynamically Controlling the Conformation of Hydrogen-Bonded Diphenylacetylenes. 2011 , 123, 4693-4696	16
906	Controlling the Emission Polarization from Single Crystals Using Light: Towards Photopolic Materials. 2011 , 123, 9758-9762	

905	Softening and Hardening of Macro- and Nano-Sized Organic Cocrystals in a Single-Crystal Transformation. 2011 , 123, 8801-8805	19
904	An Organic Optical Transistor Operated under Ambient Conditions. 2011 , 123, 11607-11610	9
903	Photoswitchable N-Heterocyclic Carbenes: Using Light to Modulate Electron-Donating Properties. 2011 , 123, 10506-10510	20
902	Unprecedented Stability of a Photochromic Bisthiénylene Based on Benzobisthiadiazole as an Ethene Bridge. 2011 , 123, 11178-11182	18
901	Photon-quantitative reaction of a dithiazolylarylene in solution. 2011 , 50, 1565-8	143
900	Anion-dependent switching: dynamically controlling the conformation of hydrogen-bonded diphenylacetylenes. 2011 , 50, 4597-600	42
899	Controlling the emission polarization from single crystals using light: towards photopolic materials. 2011 , 50, 9584-8	9
898	Softening and hardening of macro- and nano-sized organic cocrystals in a single-crystal transformation. 2011 , 50, 8642-6	85
897	An organic optical transistor operated under ambient conditions. 2011 , 50, 11405-8	49
896	Photoswitchable N-heterocyclic carbenes: using light to modulate electron-donating properties. 2011 , 50, 10322-6	80
895	Unprecedented stability of a photochromic bisthiénylene based on benzobisthiadiazole as an ethene bridge. 2011 , 50, 10986-90	73
894	The configuration, solvatochromism and metallo-responses of two novel cyano-containing oligo(phenylene-vinylene) derivatives. 2011 , 26, 185-90	6
893	Photochromic and reductive electrochemical switching of a dithiazolylene with large redox modulation. 2011 , 17, 2246-55	21
892	Helical chirality of azobenzenes induced by an intramolecular chiral axis and potential as chiroptical switches. 2011 , 17, 1778-82	38
891	Highly efficient visible-light driven photochromism: developments towards a solid-state molecular switch operating through a triplet-sensitised pathway. 2011 , 17, 4385-95	45
890	Mechanistic insights into photochromic behavior of a ruthenium(II)-pterin complex. 2011 , 17, 6652-62	12
889	Synthesis and photochemical investigations of tetrasubstituted alkenes as molecular switches--the effect of substituents. 2011 , 17, 8452-61	66
888	Synthesis and photoswitching studies of difurylperfluorocyclopentenes with extended π systems. 2011 , 17, 6663-72	30

887	Molecular implementation of sequential and reversible logic through photochromic energy transfer switching. 2011 , 17, 6492-500	56
886	Control of surface wettability and photomicro patterning with a polymorphic diarylethene crystal upon photoirradiation. 2011 , 17, 9825-31	13
885	New light on the ring-chain equilibrium of a hydrogen-bonded supramolecular polymer based on a photochromic dithienylethene unit and its energy-transfer properties as a storage material. 2011 , 17, 10716-23	68
884	Regulation of folding and photochromic reactivity of terarylenes through a host-guest interaction. 2011 , 17, 10951-7	33
883	Benzo[e]pyrene skeleton dipyrilium dication with a strong donor-acceptor-donor interaction, and its two-electron reduced molecule. 2011 , 17, 14010-9	16
882	Synthesis of novel chalcone derivatives and their stabilization effect of spiropyran in PMMA films. 2011 , 22, 1025-1028	6
881	Photochromic properties of a dithienylethene-indolinooxazolidine switch: A theoretical investigation. 2011 , 963, 63-70	7
880	A theoretical spectroscopy investigation of bifunctional platinum-bridged diarylethenes. 2011 , 502, 77-81	25
879	Nature of the excited states in large photochromic dimers: A TD-DFT examination. 2011 , 509, 129-133	10
878	Multifunctional photo- and thermo-responsive copolymer nanoparticles. 2011 , 89, 230-235	29
877	Photochromic fluorescent diarylethene nanocrystals grown in sol-gel thin films. 2011 , 89, 241-245	15
876	Toward multi-addressable molecular systems: Efficient synthesis and photochromic performance of unsymmetrical bithienylethenes. 2011 , 89, 246-253	8
875	Functionalization of zinc oxide nanorods with diarylethene-based photochromic compounds. 2011 , 89, 266-270	9
874	Substrate induced catalysis: Deciphering the weak acid triggered bleaching of an angular terthiazole photochromic dye. 2011 , 89, 271-277	5
873	Syntheses and photochromic properties of diaryl acenaphthylene derivatives. 2011 , 89, 297-304	15
872	Photoswitching of bithienylethene using 2D-EA type pyran-based fluorescent dye for rewritable optical storage. 2011 , 89, 188-192	29
871	Synthesis of novel diarylethene compounds containing two imidazole bridge units and tuning of their optical properties. 2011 , 90, 245-252	30
870	The effect of the cyano group position upon unsymmetrical isomeric diarylethenes bearing a pyrrole unit. 2011 , 90, 89-99	16

- 869 Synthesis and properties of dithienylethene-based binuclear gold complexes and a palladium chlorine-bridged macrocycle. **2011**, 91, 364-369 11
- 868 Synthesis and photochromic properties of a multiple responsive diarylethene and its selective binding affinity for copper(II) ion. **2011**, 91, 435-441 43
- 867 Effect of intraligand π -delocalization on the photophysical properties of two new Ru(II) complexes. **2011**, 217, 100-107 6
- 866 Diarylethene-based imines and amines: Synthesis, photochromic properties and effects of substitution. **2011**, 218, 192-198 11
- 865 Synthesis of photochromic 2,3-bis(5-methyl-2-phenyl-4-thiazolyl)-1,4-naphthoquinone derivatives. **2011**, 219, 58-61 13
- 864 Synthesis and magnetic properties of an iron 1,2-bisthienyl perfluorocyclopentene photochromic coordination compound. **2011**, 33, 942-948 21
- 863 New photochromic chemosensors for Hg²⁺ and F⁻. **2011**, 67, 915-921 86
- 862 Synthesis and the effects of substitution upon photochromic diarylethenes bearing an isoxazole moiety. **2011**, 67, 1438-1447 64
- 861 New photochromic diarylethenes bearing a pyridine moiety. **2011**, 52, 143-147 46
- 860 Photoswitching of an alcohol-sensitive photochromic diarylethene. **2011**, 52, 1905-1908 16
- 859 A photochromic phenoxyquinone based cyanide ion sensor. **2011**, 52, 2454-2457 46
- 858 New photochromic diarylethenes bearing a condensed aromatics moiety. **2011**, 52, 3306-3310 28
- 857 Active and non-active large-area metal-molecules-metal junctions. **2012**, 313, 85-119 9
- 856 Preparation of Photo-Sensitive Degradable Polymeric Nanocapsules from Dendrimer Grafted Nano-Silica Templates. **2011**, 9, 382-392 5
- 855 Synthesis of New Photochromic Diarylethenes Bearing Five and Six Ring Aryls for Optical Storage. **2011**, 1 1
- 854 Synthesis and Properties of a Novel Diarylethene with a Benzene Unit. **2011**, 1 1
- 853 Synthesis, Kinetics and Applications Properties of a New Hybrid Photochromic Diarylethene. **2011**, 1 1
- 852 Synthesis and Property upon a New Photochromic Diarylethene Bearing an Isoxazole Moiety. **2011**, 1 1

- 851 Synthesis, Photochromism Properties of a Hybrid Diarylethene with a Six-Membered Aryl Unit. **2011**,
- 850 Photochromism and Optical Storage of a Novel Unsymmetrical Diarylethene Based on Pyrazole and Benzofuran. **2011**, 295-297, 220-223
- 849 Synthesis and Property of a Novel Diarylethene Based on Benzofuran and Thienyl Units for Polarization Optical Recording. **2011**, 474-476, 1561-1564
- 848 Synthesis a New Diarylethene Bearing N-Propyl as Holographic Optical Recording Medium. **2011**, 239-242, 1609-1612
- 847 Synthesis and Photochromic Properties of a Novel Diarylethene Derivative. **2011**, 327, 41-44
- 846 A New Photochromic Diarylethene for Reversible Molecule Switching Properties Based on Pyrrole and Thiophene. **2011**, 284-286, 2239-2242
- 845 Efficient Synthesis and Properties of a New Photochromic Diarylethene Bearing a Thiophene Moiety. **2011**, 327, 72-75
- 844 Efficient Synthesis and Properties of a Photochromic Hybrid Diarylethene Bearing a Isoxazole Moiety. **2011**, 399-401, 1039-1042
- 843 Synthesis and Properties of a New Diarylethene Bearing n-Hexyl for Holographic Optical Recording. **2011**, 295-297, 74-77
- 842 Synthesis of a New Diarylethene Based on Isoxazole and Benzofuran Units for Polarization Optical Recording. **2011**, 233-235, 2476-2479
- 841 Synthesis, Optoelectronic Properties of a Novel Photochromic Diarylethene Bearing Phenyl and Thienyl Group. **2011**, 239-242, 1605-1608
- 840 Efficient, Synthesis, Properties of a Novel Unsymmetrical Photochromic Diarylethene Having Phenyl and Thienyl Group. **2011**, 327, 49-52
- 839 A Photochromic Diarylethene with Five and Six-Membered Aryl Units. **2011**, 327, 37-40
- 838 Synthesis, Properties and Application in Optical Memory of a New Type Diarylethene with Benzene Ring. **2011**, 239-242, 833-836
- 837 Synthesis, Properties and Application in Optical Memory of a New Photochromic Diarylethene. **2011**, 474-476, 1259-1262
- 836 Synthesis and Fluorescence Switch of a Photochromic Diarylethene Bearing Benzene and Pyridine Unit. **2011**, 393-395, 354-357
- 835 Synthesis and Properties of a Photochromic Switch. **2011**, 396-398, 2431-2433 1
- 834 Synthesis, Kinetics and Electrochemical Properties of a New Photochromic Diarylethene. **2011**, 474-476, 1543-1546 1

- 833 Synthesis and Fluorescence Switching of a New Purple Photochromic Diarylethene. **2011**, 399-401, 900-903
- 832 Synthesis and Properties of a Novel Photochromic Diarylethene Bearing Methyl Group. **2011**, 393-395, 358-361
- 831 Synthesis, Optoelectronic Property and Application in Optical Memory of a Novel Type Diarylethene Based on a Six Unit. **2011**, 295-297, 212-215
- 830 Synthesis and Properties of a Novel Photochromic Compound with a 1,3-Dioxolane. **2011**, 393-395, 1514-1517
- 829 A Novel Photochromic Diarylethene Based on Pyrazole and Benzothiophene Moieties for Optical Recording. **2011**, 327, 53-56
- 828 Synthesis and Properties of a New Diarylethene with Two Different Substituents for Optical Recording. **2011**, 327, 23-26 1
- 827 Synthesis and Characterization of Photochromic 1-(3,5-dimethyl-4-isoxazolyl)-2-[2-methyl-5-(3-methylphenyl)-3-thienyl]perfluorocyclopentene. **2011**, 327, 45-48
- 826 Modified Electrodes and Electrochemical Systems Switchable by Light Signals. **2018**, 30, 759-797 12
- 825 Functional Materials and Systems for Rewritable Paper. **2018**, 30, e1705310 109
- 824 Precisely Tuning Helical Twisting Power via Photoisomerization Kinetics of Dopants in Chiral Nematic Liquid Crystals. **2018**, 34, 700-708 16
- 823 Stepwise two-photon absorption processes utilizing photochromic reactions. **2018**, 34, 2-28 30
- 822 Photochromism into nanosystems: towards lighting up the future nanoworld. **2018**, 47, 1044-1097 373
- 821 Coordination Compounds with Photochromic Ligands: Ready Tunability and Visible Light-Sensitized Photochromism. **2018**, 51, 149-159 141
- 820 Assessing the Structure of Octastate Molecular Switches Using ¹H NMR Density Functional Theory Calculations. **2018**, 122, 1800-1808 2
- 819 Functionalization and Properties of Tetrahydronaphtho[2,1-a]azulene Photoswitches. **2018**, 2, 362-368
- 818 Photoresponsive Organoboron Systems. **2018**, 47-77 13
- 817 Supramolecular Gels. **2018**, 9-59 4
- 816 How do London Dispersion Interactions Impact the Photochemical Processes of Molecular Switches?. **2018**, 9, 464-470 16

815	3,4-Phenylenedioxythiophenes (PheDOTs) functionalized with electron-withdrawing groups and their analogs for organic electronics. 2018 , 6, 3743-3756	8
814	Photochromism of dihydroindolizines. Part XXIII: Sensitive tuning of the photophysical properties with region A and C substituents in the photochromic dihydroindolizines skeleton. 2018 , 356, 272-282	2
813	Azole-based diarylethenes as the next step towards advanced photochromic materials. 2018 , 36, 1-23	39
812	A highly selective fluorescent chemosensor for Cu ²⁺ based on a diarylethene with a 2,1,3-benzoxadiazole unit. 2018 , 31, e3839	1
811	Synthesis, Structural Characterization, and Luminescence Switching of Diarylethene-Conjugated Ru(II)-Terpyridine Complexes by trans-cis Photoisomerization: Experimental and DFT/TD-DFT Investigation. 2018 , 57, 5743-5753	19
810	Coumarin-diene photoswitches for rapid and efficient isomerization with visible light. 2018 , 54, 4983-4986	7
809	A Reversible Redox Reaction in a Keggin Polyoxometalate Crystal Driven by Visible Light: A Programmable Solid-State Photochromic Switch. 2018 , 24, 9747-9753	5
808	Intramolecular hydrogen bonding promoted excited state double proton transfer mechanism based on a typical molecule: Porphycene. 2018 , 200, 345-350	27
807	Mesoscopic Motion of Optically Trapped Particle Synchronized with Photochromic Reactions of Diarylethene Derivatives. 2018 , 9, 2659-2664	12
806	Excited-State Proton Transfer Mechanism of 2,6-Diazaindoles[(HO) (n = 2-4) Clusters. 2018 , 122, 3988-3995	33
805	Stabilising fleeting intermediates of stilbene photocyclization with amino-borane functionalisation: the rare isolation of persistent dihydrophenanthrenes and their [1,5] H-shift isomers. 2018 , 9, 3844-3855	21
804	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
803	Evaluation of Substituent Effect in Z-Isomer Stability of Arylazo-1 H-3,5-dimethylpyrazoles: Interplay of Steric, Electronic Effects and Hydrogen Bonding. 2018 , 83, 4307-4322	34
802	Voltage-Driven Conformational Switching with Distinct Raman Signature in a Single-Molecule Junction. 2018 , 140, 4835-4840	29
801	Relationship between crystal structures and photochromic properties of N-salicylideneaminopyridine derivatives. 2018 , 20, 2144-2151	18
800	Photochromism and the fluorescence properties of bisbenzothienylethene and S,S,S',S'-tetraoxide derivatives with dual conjugated fluorescent groups on their side chains. 2018 , 17, 711-717	1
799	Theoretical study on the reaction mechanism of the thermal - isomerization of fluorine-substituted azobenzene derivatives.. 2018 , 8, 11580-11588	22
798	Optical waveguides with memory effect using photochromic material for neural network. 2018 , 57, 04FH02	1

797	Novel photo- and/or hydrochromic organometallics derived from methyl viologen cations. 2018 , 154, 92-99	9
796	Large and reversible in-situ up-conversion photoluminescence modulation based on photochromism via electric-field and thermal stimulus in ferroelectrics. 2018 , 38, 3154-3161	35
795	Synthesis and photochromic properties of dithienylethenes axially coordinating with Mn(II)-porphyrins. 2018 , 356, 661-664	1
794	Synthesis of chiral azobenzene derivatives and the performance in photochemical control of blue phase liquid crystal. 2018 , 45, 370-380	32
793	Stimuli-responsive polymer nano-science: Shape anisotropy, responsiveness, applications. 2018 , 78, 24-46	68
792	Synthesis, thermochromic, solvatochromic and axial ligation studies of Zn-porphyrin complex. 2018 , 469, 453-460	14
791	Synthesis, photochemical and luminescent properties of ortho-hydroxystyrylquinazolinone-linked benzocrown ethers. 2018 , 351, 16-28	7
790	First-principles study of the electronic transport properties of a 1,3-diazabicyclo[3.1.0]hex-3-ene molecular optical switch. 2018 , 153, 135-143	10
789	Construction and optical properties of dithienylethene-based photoswitchable [n]rotaxane (n = 2, 3). 2018 , 148, 130-136	12
788	Dual Redox and Optical Control of Chiroptical Activity in Photochromic Dithienylethenes Decorated with Hexahelicene and Bis-Ethynyl-Ruthenium Units. 2018 , 37, 697-705	22
787	Photochemically driven luminescence switch of metal supramolecular assembly incorporating mixed lanthanides and photochromic guest molecule. 2018 , 355, 242-248	10
786	High contrast fluorescence switching based on CH ₃ NH ₃ PbBr ₃ perovskite nanoparticles in photochromic composites. 2018 , 353, 279-283	5
785	Giant Fluorescence Modulation Induced by UV λ is Excitation of Benzothiadiazole Nanoparticles Doped with Diarylethene Derivatives. 2018 , 47, 163-166	5
784	A theoretical investigation on excited-state single or double proton transfer process for aloesaponarin I. 2018 , 96, 83-88	9
783	Fatigue and photochromism S ₁ excited state reactivity of diarylethenes from QTAIM and the stress tensor. 2018 , 118, e25565	14
782	Chiral separation of helical chromenes with chloromethyl phenylcarbamate polysaccharide-based stationary phases. 2018 , 41, 1266-1273	13
781	Synthesis and characterization of a new photochromic alkylene sulfide derivative. 2018 , 39, 182-192	7
780	Nano-optical functionality based on local photoisomerization in photochromic single crystal. 2018 , 124, 1	7

779	Light controlled receptors for heavy metal ions. 2018 , 357, 18-49	51
778	Fluorescence Commutation and Surface Photopatterning with Porphyrin Tetrathienylethene Switches. 2018 , 24, 1631-1639	6
777	Covalent post-assembly modification in metallosupramolecular chemistry. 2018 , 47, 626-644	140
776	Photoswitchable nonlinear optical properties of metal complexes. 2017 , 47, 13-22	41
775	Switching or blinking? The switching behaviour of single photochromic triads. 2018 , 190, 04014	
774	Unusual fluorescent photoswitching of imidazole derivatives: the role of molecular conformation and twist angle controlled organic solid state fluorescence. 2018 , 20, 27385-27393	11
773	Design, synthesis, and characterization of an Fe(II)-polymer of a redox non-innocent, heteroatomic, polydentate Schiff's base ligand: negative differential resistance and memory behaviour. 2018 , 42, 19090-19108	8
772	Photoinduced electron transfer and remarkable enhancement of magnetic susceptibility in bridging pyrazine complexes. 2018 , 47, 15888-15896	15
771	Highly reactive bis-cyclooctyne-modified diarylethene for SPAAC-mediated cross-linking. 2018 , 16, 8559-8564	8
770	Aldehyde-Substituted Donor-Acceptor-Type Dithienylethenes as Novel Building Blocks for Photochromic Materials. 2018 , 42, 531-534	5
769	Secret of Lotus Leaf: Importance of Double Roughness Structures for Super Water-Repellency. 2018 , 31, 705-710	3
768	Light controls light: single molecules as optical switches. 2018 , 190, 02006	
767	A Polymerizable Photoswitchable Fluorophore for Super-Resolution Imaging of Polymer Self-Assembly and Dynamics. 2018 , 7, 1432-1437	19
766	Synthesis, Photophysics, and Switchable Luminescence Properties of a New Class of Ruthenium(II)-Terpyridine Complexes Containing Photoisomerizable Styrylbenzene Units. 2018 , 3, 14526-14537	9
765	A new fluorescence probe based on diarylethene with a benzothiazine unit for selective detection of Cd ²⁺ . 2018 , 74, 7431-7437	12
764	Tunable Luminescence Contrast in Photochromic Ceramics (1 - x)NaBiTiO- xNaKNbO:0.002Er by an Electric Field Poling. 2018 , 10, 41525-41534	44
763	Oxidative and reductive cyclization in stiff dithienylethenes. 2018 , 14, 2812-2821	6
762	Preparation and Photochromic Behavior of Spiropyran-Containing Fluorinated Polyacrylate Hydrophobic Coatings. 2018 , 34, 15812-15819	23

- 761 Synthesis and optical properties of Ce_{1-x-y}Eu_xPryO₂-E solid solution. **2018**, 67, 588-592
- 760 Progress on photochromic diarylethenes with aggregation induced emission. **2018**, 11, 317-332 14
- 759 Photochromic behavior at the interface of two transparent thin films and the possibility for its use in a high-performance battery. **2018**, 712, 25-29 2
- 758 Photo-induced morphology transition of a multifunctional photochromic bisthiénylene molecule with switchable aggregation-induced emission. **2018**, 61, 1301-1306 21
- 757 Tuning the Negative Photochromism of Water-Soluble Spiropyran Polymers. **2018**, 51, 8027-8037 34
- 756 Functional Supramolecular Materials Formed by Non-covalent Bonds. **2018**, 183-225 1
- 755 Three-Input Molecular Keypad Lock Based on a Norbornadiene-Quadricyclane Photoswitch. **2018**, 9, 6174-6178 18
- 754 Wavelength-Controlled Dynamic Metathesis: A Light-Driven Exchange Reaction between Disulfide and Diselenide Bonds. **2018**, 130, 16664-16668 15
- 753 A Quantum Ruler for Magnetic Deflectometry. **2018**, 20, 5
- 752 Functionalization at C(1) of the Dihydroazulene/Vinylheptafulvene Photo-/Thermoswitch □ Establishing Structure-Property Relationship. **2018**, 101, e1800153 4
- 751 Photo/thermochromic macrocycles based on dihydroazulenes, dithienylethenes, and spiropyrans. **2018**, 74, 6635-6646 10
- 750 Wavelength-Controlled Dynamic Metathesis: A Light-Driven Exchange Reaction between Disulfide and Diselenide Bonds. **2018**, 57, 16426-16430 65
- 749 Switchable Fluorophores for Single-Molecule Localization Microscopy. *Chemical Reviews*, **2018**, 118, 9417-9454 124
- 748 The synthesis of new 3,4-(bisaryl)-1,8-naphthalimide and 2,3-(bisaryl)-7 H -benzimidazo[2,1-a]benzo[d]isoquinolin-7-one compounds and an investigation of their photochromic properties. **2018**, 42, 1086-1094 2
- 747 Controlling Isomerization Selectivity in Chiral, Photochromic N,C-Chelate Organoboron Systems with Extended EConjugation. **2018**, 83, 11970-11977 9
- 746 Synthesis and properties of dithienylene-functionalized switchable antibacterial agents. **2018**, 16, 6988-6997 16
- 745 Gated photochromism in azobenzene-appended rhodamine cassette: through-bond energy transfer □ a universal strategy towards □lock and Unlock□system. **2018**, 6, 10497-10501 8
- 744 Ultrafast Pump-Repump-Probe Photochemical Hole Burning as a Probe of Excited-State Reaction Pathway Branching. **2018**, 9, 5847-5854 3

743	Photochromic fluorophores at the molecular and nanoparticle levels: fundamentals and applications of diarylethenes. 2018 , 10, 859-881	80
742	Recent advances in photoswitchable cation chemosensors. 2018 , 22,	2
741	The photoregulation of a mechanochemical polymer scission. 2018 , 9, 3504	36
740	Verbesserung der Selektivität und Kinetik bei der photooxidativen Zyklisierung mittels supramolekularer Kontrolle. 2018 , 130, 13850-13854	5
739	Enhancing Selectivity and Kinetics in Oxidative Photocyclization by Supramolecular Control. 2018 , 57, 13662-13665	18
738	Bottom-up approaches for material and device designing using practical aspects of self-assembled molecular architectures. 2018 , 3, 804-818	6
737	Artificial Light Regulation of an Allosteric Bienenzyme Complex by a Photosensitive Ligand. 2018 , 19, 1750	14
736	Simultaneous Modulation of Magnetic and Dielectric Transition via Spin-Crossover-Tuned Spin Arrangement and Charge Distribution. 2018 , 57, 8468-8472	43
735	Simultaneous Modulation of Magnetic and Dielectric Transition via Spin-Crossover-Tuned Spin Arrangement and Charge Distribution. 2018 , 130, 8604-8608	11
734	Synthesis and photophysical properties of new styrylquinoline-containing polymers. 2018 , 661, 38-44	10
733	Photochromic Indolyl Fulgimides as Chromo-pharmacophores Targeting Sirtuins. 2018 , 83, 7919-7927	14
732	Recent advances in the use of photochromic dyes for photocontrol in biomedicine. 2018 , 372, 66-84	58
731	Modified Electrodes and Electrochemical Systems Switchable by Light Signals. 2018 , 101-168	
730	Isomerization and rearrangement of boriranes: from chemical rarities to functional materials. 2018 , 61, 1249-1256	13
729	Tripodal N-Functionalized Arylazo-3,5-dimethylpyrazole Derivatives of Trimesic Acid: Photochromic Materials for Rewritable Imaging Applications. 2018 , 2, 806-810	11
728	Femtosecond Stimulated Raman Spectroscopy. 2018 , 193-215	1
727	Reversible upconversion switching for Ho/Yb codoped (K,Na)NbO ₃ ceramics with excellent luminescence readout capability. 2018 , 101, 5659-5674	27
726	Light-controlled reversible photoluminescence modulation in photochromic Sr ₂ SnO ₄ :Eu ³⁺ . 2018 , 51, 365102	18

725	Reaction of CF ₃ -ynones with methyl thioglycolate. Regioselective synthesis of 3-CF ₃ -thiophene derivatives. 2018 , 214, 13-16	8
724	Photochromic Monomer and Coordination Polymer Based Hybrid Tetra-arylethenes. 2018 , 47, 1127-1130	4
723	Design, synthesis and photochromism studies of thienyl containing triarylethylene derivatives and their applications in real-time photoresponsive surfaces. 2018 , 6, 8832-8838	21
722	Multicolor Fluorescence Photoswitching: Color-Related versus Color-Specific Switching. 2018 , 6, 1800678	55
721	Molecular Photoswitching Aided by Excited-State Aromaticity. 2018 , 83, 958-967	22
720	Effects of heteroaryl ring on the photochromism of asymmetrical diarylethenes containing a naphthalene group. 2018 , 205, 470-478	4
719	The influence of the secondary building linker geometry on the photochromism of naphthalenediimide-based metal-organic frameworks. 2018 , 20, 4849-4856	18
718	In situ control of photochromic behavior through dual photo-isomerization using cobaloxime complexes with a spiropyran derivative and 2-cyanoethyl ligands. 2018 , 20, 6061-6069	3
717	A highly selective fluorescence switch for Cu ²⁺ and Fe ³⁺ based on a new diarylethene with a triazole-linked rhodamine 6G unit. 2018 , 74, 4390-4399	20
716	Hierarchically responsive and photochromic imidazopyridinium iodoargentate hybrid materials. 2018 , 159, 457-463	18
715	A highly sensitive fluorescent sensor for Zn based on diarylethene with an imidazole unit. 2018 , 205, 21-28	21
714	One-Step Synthesis and Stealth Photochromism of Arylbutadienes. 2018 , 83, 10695-10700	5
713	A Photoswitchable Colorimetric Sensor for Fluoride Based on a Dithienylethene Unit. 2018 , 42, 305-308	6
712	Visible Photosensitization of trans-Styrylpyridine Coordinated to fac-[Re(CO)(dcbH)]: New Insights. 2018 , 57, 9316-9326	10
711	Visible-Light-Driven "On"/"Off" Photochromism of a Polyoxometalate Diarylethene Coordination Complex. 2018 , 140, 10482-10487	45
710	Electron donor and acceptor functionalized dithienylethenes: effects of charge density on photochromic properties. 2018 , 20, 14348-14356	10
709	Ultrafast ring closing of a diarylethene-based photoswitchable nucleoside. 2018 , 20, 22867-22876	6
708	A highly selective fluorescence "turn-on" sensor for Ca based on diarylethene with a triazoloyl hydrazine unit. 2018 , 8, 29295-29300	14

707	The influence of nanoparticles on the polarizabilities and hyperpolarizabilities of photochromic molecules. 2018 , 20, 23320-23327	4
706	Dual Stimuli-Responsive P(NIPAAm-co-SPA) Copolymers: Synthesis and Response in Solution and in Films. 2018 , 10,	14
705	Photoresponsive Chirality-Tunable Supramolecular Metallacycles. 2018 , 39, e1800454	9
704	Tunable properties based on regioselectivity of 1,2,3-triazole units in axially chiral 2,2'-linked 1,1'-binaphthyl-based copolymers for ions and acid responsiveness. 2018 , 108, 191-198	1
703	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
702	Substituent Dependent Optical Properties of p-phenyl Substituted ethenyl-E-thiophenes. 2018 , 28, 1207-1216	4
701	Light-Responsive Pyrazine-Based Systems: Probing Aromatic Diarylethene Photocyclization. 2018 , 122, 19100-19109	10
700	Tetraphenylethene-Induced Free Volumes for the Isomerization of Spiropyran toward Multifunctional Materials in the Solid State. 2018 , 10, 30879-30886	35
699	Molecular Motors in Aqueous Environment. 2018 , 83, 11008-11018	23
698	Building Strain with Large Macrocycles and Using It To Tune the Thermal Half-Lives of Hydrazone Photochromes. 2018 , 140, 11829-11835	36
697	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
696	Self-Assembled Pd(II) Barrels as Containers for Transient Merocyanine Form and Reverse Thermochromism of Spiropyran. 2018 , 140, 7952-7960	92
695	Expanding the synthesizable multisubstituted benzo[<i>b</i>]thiophenes 6,7-thienobenzynes generated from -silylaryl triflate-type precursors.. 2018 , 8, 21754-21758	13
694	Gated photochromic molecules with AIEgen: turn-on the photochromism with an oxidation reagent.. 2018 , 8, 18613-18618	8
693	Effects of probe energy and competing pathways on time-resolved photoelectron spectroscopy: the ring-opening of 1,3-cyclohexadiene. 2018 , 20, 17714-17726	9
692	Reversed photochromism reactivity of malononitrile attached bithienylthene. 2018 , 662, 147-156	2
691	Synthesis and photochromic properties of coumarin-based dithienylethenes. 2018 , 44, 6489-6495	3
690	Synthesis, photochromic and fluorescence properties of new bithiazole-containing diarylethenes as cation sensors. 2018 , 203, 568-575	5

689	The upconversion luminescence modulation and its enhancement in Er ³⁺ -doped Na _{0.5} Bi _{0.5} TiO ₃ based on photochromic reaction. 2018 , 101, 5640-5650	29
688	UV and Resonance Raman Spectroscopic and Theoretical Studies on the Solvent-Dependent Ground and Excited-State Thione → Thiol Tautomerization of 4,6-Dimethyl-2-mercaptopyrimidine (DMMP). 2018 , 122, 5710-5720	6
687	Influence of mild Cr ³⁺ doping on the structural, optical, photochromic, and thermochromic reversibility of nano-titania systems. 2019 , 97, 347-354	1
686	Synthesis, photophysical properties and NIR photochromism of photoresponsive difluoroboron β -diketonate complex based on dithienylethene unit. 2019 , 160, 597-603	18
685	Tuning of optical properties of p-phenyl ethenyl-E-furans: A Solvatochromism and Density functional theory. 2019 , 206, 396-404	6
684	Stimuli-chromism of photoswitches in smart polymers: Recent advances and applications as chemosensors. 2019 , 98, 101149	89
683	Two-Way Chromic Systems Based on Tetraarylanthraquinodimethanes: Electrochromism in Solution and Mechanofluorochromism in a Solid State. 2019 , 92, 1211-1217	14
682	Photoswitchable J-Aggregated Processable Organogel by Integrating a Photochromic Acceptor. 2019 , 84, 10946-10952	8
681	Photoswitchable peptides for spatiotemporal control of biological functions. 2019 , 55, 10192-10213	49
680	Reversible modulation of photoenergy in Sm-doped (K _{0.5} Na _{0.5})NbO ₃ transparent ceramics via photochromic behavior. 2019 , 7, 19374-19384	59
679	Lack of resonance assistance in a classical intramolecular hydrogen bond: An exploration from quantum theory of atoms-in-molecules perspective. 2019 , 32, e3999	2
678	Photoswitchable Oligonucleotides Containing Different Diarylethene-Modified Nucleotides. 2019 , 4, 12125-12129	9
677	Flexible Metal-Organic Frameworks for Light-Switchable CO Sorption Using an Auxiliary Ligand Strategy. 2019 , 58, 9766-9772	5
676	ON/OFF Photostimulation of Isatin Bipyridyl Hydrazones: Photochemical and Spectral Study. 2019 , 24,	5
675	Nitrogen Bridged Diazocines: Photochromes Switching within the Near-Infrared Region with High Quantum Yields in Organic Solvents and in Water. 2019 , 141, 13592-13600	47
674	Multiaddressable Photochromic Architectures: From Molecules to Materials. 2019 , 7, 1900224	51
673	Photochromic coumarin spiropyranes with switching of optical properties by lanthanide ions. 2019 , 68, 1223-1231	5
672	Luminescent liquid crystals based on 2,1,3-benzoxadiazole: conducive heterocycle or poor cousin of benzothiadiazole?. 2019 , 46, 1707-1717	9

- 671 Dicyanovinyl-substituted D-A type dithienylethenes: Synthesis, photochromism and colorimetric sensing for cyanide anion. **2019**, 95, 109235 12
- 670 Investigating the Photochemistry of Spiropyran Metal Complexes with Online LED-NMR. **2019**, 58, 15479-15486 4
- 669 Dual-mode Photochromism of T- and P-types in a Diarylethene Derivative. **2019**, 48, 1476-1479 0
- 668 Solution Phase and Surface Photoisomerization of a Hydrazone Switch with a Long Thermal Half-Life. **2019**, 141, 17637-17645 17
- 667 Eu-doped $K_{0.5}Na_{0.5}NbO_3-(Ba,Sr)TiO_3$: A novel lead-free luminescent ferroelectric transparent ceramic with reversible photochromism. **2019**, 09, 1950037 6
- 666 External stimulus controlled recombination of hydrogen in photochromic dithienylethene frustrated lewis pairs. **2019**, 44, 31141-31152 4
- 665 A TD-DFT investigation of the photo-induced excited state intramolecular proton transfer dynamics for the novel 5,5'-(9,9-dihexyl-9H-fluorene-2,7-diyl)bis(2-benzo[d]thiazol-2-yl)phenol system. **2019**, 32, e4002 1
- 664 Aldehyde-functionalized dithienylethenes with extended π systems as versatile building blocks for NIR photochromic materials. **2019**, 60, 151166 6
- 663 Photochromic Barbiturate Pendant-Containing Benzo[*b*]phosphole Oxides with Co-Assembly Property and Photoinduced Morphological Changes. **2019**, 11, 40290-40299 9
- 662 Effect of annealing condition on the crystallinity of VO_2 thin-films fabricated by a solution-based process. **2019**, 58, 105501 1
- 661 Photochromic Performance of 5-Heteroaryl-4-vinyl-2-phenylthiazole Derivatives. **2019**, 92, 1773-1778
- 660 Novel Diarylethene-Based Fluorescent Switching for the Detection of Al and Construction of Logic Circuit. **2019**, 4, 14841-14848 11
- 659 Photonic Memristor for Future Computing: A Perspective. **2019**, 7, 1900766 65
- 658 Reversible regulation of upconversion luminescence in new photochromic ferroelectric materials: $Bi_4Er_xTi_3O_{12}$ ceramics. **2019**, 6, 2756-2766 18
- 657 Blue-/NIR Light-Excited Fluorescence Switch Based on a Carbazole-Dithienylethene-BF₃bdk Triad. **2019**, 84, 13364-13373 24
- 656 Molecular design to increase the photosensitivity of photochromic phenoxyimidazolyl radical complexes. **2019**, 3, 2380-2387 4
- 655 Click chemistry towards thermally reversible photochromic 4,5-bisthiazolyl-1,2,3-triazoles. **2019**, 15, 2161-2169 2
- 654 Interdisciplinary Chemistry Based on Integration of Liquid Crystals and Conjugated Polymers: Development and Progress. **2019**, 92, 1509-1655 51

653	Photoinduced Modulation of the Emission from HgSe/ZnS Quantum Dots by Photochromic Transformations of Diarylethenes. 2019 , 64, 823-827	4
652	Unique photochromism of two solid-emissive boron difluoride-based diarylethenes with isomeric structures. 2019 , 75, 130579	
651	Crystal Growth Technique for Formation of Double Roughness Structures Mimicking Lotus Leaf. 2019 , 35, 14124-14132	9
650	Azologization and repurposing of a hetero-stilbene-based kinase inhibitor: towards the design of photoswitchable sirtuin inhibitors. 2019 , 15, 2170-2183	6
649	Reversibly photoswitchable alkoxy azobenzenes connected benzenetricarboxamide discotic liquid crystals with perpetual long range columnar assembly. 2019 , 17, 1947-1954	10
648	Helicenes as Chiroptical Photoswitches. 2019 , 3, 180-186	9
647	Diarylethene-based fluorescent and colorimetric chemosensor for the selective detection of Al ³⁺ and CN ⁻ . 2019 , 164, 257-266	34
646	Synthesis and application of reversible fluorescent photochromic molecules based on tetraphenylethylene and photochromic groups. 2019 , 43, 617-621	21
645	New Acylhydrazone Photoswitches with Quantitative Conversion and High Quantum Yield but without Hydrogen Bond Stabilizing (Z)-Isomer. 2019 , 11, 7303-7310	9
644	Structure Switching and Modulation of the Magnetic Properties in Diarylethene-Bridged Metallosupramolecular Compounds by Controlled Coordination-Driven Self-Assembly. 2019 , 131, 4383-4388	6
643	Insight into 6 π Electrocyclic Reactions of 1,8-Dioxatetraene. 2019 , 58, 2660-2664	4
642	Two novel multichromic coordination polymers based on a new flexible viologen ligand exhibiting photocontrolled luminescence properties and sensitive detection for ammonia. 2019 , 21, 1635-1641	27
641	Synthesis, Structures, and Magnetic Properties of Two Coordination Assemblies of Mn(III) Single Molecule Magnets Bridged via Photochromic Diarylethene Ligands. 2019 , 58, 2307-2314	13
640	Thermally reversible photochromism of dipyrrolylethenes. 2019 , 18, 2136-2141	13
639	Structure Switching and Modulation of the Magnetic Properties in Diarylethene-Bridged Metallosupramolecular Compounds by Controlled Coordination-Driven Self-Assembly. 2019 , 58, 4339-4344	39
638	Light-Driven Chiral Switching of Supramolecular Metallacycles with Photoreversibility. 2019 , 5, 634-648	53
637	Fluorescence deactivation mechanism for a new probe detecting phosgene based on ESIPT and TICT. 2019 , 6, 597-602	35
636	Rational Design of Reversible Molecular Photoswitches Based on Diarylethene Molecules. 2019 , 123, 2736-2745	7

635	Perspective Tools for Optogenetics and Photopharmacology: From Design to Implementation. 2019 , 139-172	4
634	Theoretical insights into the effect of heterocycles of the molecular framework on photochromic magnetic properties of diarylethene compounds. 2019 , 32, e3973	1
633	Photocontrollable ambipolar transistors with π -conjugated diarylethene photochromic channels. 2019 , 58, SDDH03	5
632	Photochromic Room Temperature Ionic Liquids Based on Anionic Diarylethene Derivatives. 2019 , 3, 525-528	3
631	Photo-switched magnetic coupling in spin-crossover complexes. 2019 , 55, 8359-8373	23
630	Revelation solvent effects: excited state hydrogen bond and proton transfer of 2-(benzo[d]thiazol-2-yl)-3-methoxynaphthalen-1-ol. 2019 , 6, 2780-2787	8
629	An ionic liquid-modified diarylethene: Synthesis, properties and sensing cyanide ions. 2019 , 1079, 153-163	12
628	Light-Stabilized Dynamic Materials. 2019 , 141, 12329-12337	37
627	Dithienylethene-functionalized difluoroboron diketonate complexes: Synthesis, photophysical properties and NIR photochromism. 2019 , 94, 257-265	6
626	Reversible ON/OFF switching of photoluminescence from CsPbX quantum dots coated with silica using photochromic diarylethene. 2019 , 55, 8060-8063	18
625	Radiophotoluminescent organic materials based on photoswitchable fluorescent diarylethene derivatives. 2019 , 30, 10211-10216	3
624	Deciphering Erasing/Writing/Reading of Near-Infrared Fluorophore for Nonvolatile Optical Memory. 2019 , 11, 23750-23756	10
623	From One-Pot NH-Sulfoximidations of Thiophene Derivatives to Dithienylethene-Type Photoswitches. 2019 , 21, 4293-4297	16
622	Dihydroazulene-vinylheptafulvene based photoswitchable lewis pairs for tunable H ₂ activation. 2019 , 44, 14780-14795	3
621	A Photoswitchable Triple Chemosensor for Cyanide Anion Based on Dicyanovinyl-Functionalized Dithienylethene. 2019 , 2019, 3614-3621	16
620	Tunable E- Z Photoisomerization in β -Peptide Foldamers Featuring Multiple (E/ Z)-3-Aminoprop-2-enoic Acid Units. 2019 , 21, 4182-4186	5
619	Reversible switching of the Au(111) work function by near infrared irradiation with a bistable SAM based on a radical donor-acceptor dyad. 2019 , 7, 7418-7426	1
618	A new tetraphenylethene-based Schiff base: two crystalline polymorphs exhibiting totally different photochromic and fluorescence properties. 2019 , 7, 7053-7060	27

617	Functionalization of 2D Materials with Photosensitive Molecules: From Light-Responsive Hybrid Systems to Multifunctional Devices. 2019 , 7, 1900286	32
616	Plasmonic silver-based reversible photochromism in Ag ⁺ -doped organomodified silicates-phosphotungstate hybrid films. 2019 , 92, 233-242	2
615	Photochromic Lanthanide(III) Materials with Ion Sensing Based on Pyridinium Tetrazolate Zwitterion. 2019 , 4, 7492-7497	7
614	Synthesis and solution behaviour of dual light- and temperature-responsive poly(triethylene glycol-co-spiropyran) copolymers and block copolymers. 2019 , 10, 2674-2685	13
613	Layered photochromic films stacked from spiropyran-modified montmorillonite nanosheets.. 2019 , 9, 12325-12330	12
612	Reversible Photo-Switching of Dual-Color Fluorescent Mn-Doped CdS-ZnS Quantum Dots Modulated by Diarylethene Molecules. 2019 , 7, 145	8
611	Influence of Light Polarization on Photoswitching of Fulgimide Monolayers on Surfaces. 2019 , 123, 12223-12238	
610	Highly Reproducible Formation of a Polymer Single-Molecule Junction for a Well-Defined Current Signal. 2019 , 58, 9109-9113	5
609	Photoswitchable catalysis based on the isomerisation of double bonds. 2019 , 55, 6477-6486	58
608	Highly Reproducible Formation of a Polymer Single-Molecule Junction for a Well-Defined Current Signal. 2019 , 131, 9207-9211	
607	Synthesis, Photo-, and Ionochromic Properties of Indolyl(thienyl)maleimides with Terpyridine Receptor. 2019 , 89, 409-415	1
606	Reversible photochromic tetraphenylethene-based Schiff base: Design, synthesis, crystal structure and applications as visible light driven rewritable paper and UV sensor. 2019 , 167, 143-150	26
605	The photochemical ring-opening of 1,3-cyclohexadiene imaged by ultrafast electron diffraction. 2019 , 11, 504-509	100
604	Photophysics and luminescence switching properties of a series of photochromic styrylbenzene-terpyridine conjugate: Experimental and DFT/TD-DFT investigation. 2019 , 378, 94-104	8
603	Bile Acid Binding Protein Functionalization Leads to a Fully Synthetic Rhodopsin Mimic. 2019 , 10, 2235-2243	7
602	Fulgimides as Light-Activated Tools in Biological Investigations. 2019 , 2019, 5018-5024	12
601	Conformer-dependent self-assembled metallacycles with photo-reversible response. 2019 , 10, 4896-4904	13
600	Energy- and conformer-dependent excited-state relaxation of an E/Z photoswitchable thienyl-ethene. 2019 , 21, 14440-14452	3

599	Successive Photoswitching and Derivatization Effects in Photochromic Dithienylethene-Based Coordination Cages. 2019 , 3, 378-383	25
598	Real-Time Observation of Diarylethene-Based Photoswitches in a Cyclic Peptide Environment. 2019 , 3, 403-410	15
597	A novel photochromic cadmium coordination polymer based on a new viologen ligand accompanying photoswitchable luminescence properties. 2019 , 102, 240-244	10
596	Synthesis and photophysical properties of a new carbazole-based acidochromic molecular switch. 2019 , 377, 8-13	1
595	Using light to control the inhibition of Karstedt's catalyst. 2019 , 6, 1253-1256	7
594	Redox- and light-switchable N-heterocyclic carbenes: a "soup-to-nuts" course on contemporary structure-activity relationships. 2019 , 55, 4451-4466	30
593	Photoresponsive Self-Assembled DNA Nanomaterials: Design, Working Principles, and Applications. 2019 , 15, e1805481	23
592	A general approach to the design of high-performance near-infrared (NIR) D- π A type fluorescent dyes. 2019 , 30, 839-846	56
591	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
590	The influence of nanoparticles on the excitation energies of the photochromic dihydroazulene/vinylheptafulvene system. 2019 , 21, 6689-6698	5
589	Preparation of photochromic liquid core nanocapsules based on theoretical design. 2019 , 547, 318-329	12
588	Isomerization behavior of fulgide-type photochromic compounds upon X-ray irradiation. 2019 , 58, 022003	2
587	Taming the Complexity of Donor-Acceptor Stenhouse Adducts: Infrared Motion Pictures of the Complete Switching Pathway. 2019 , 141, 7376-7384	40
586	Fabrication of Robust Spatially Resolved Photochromic Patterns on Cellulose Papers by Covalent Printing for Anticounterfeiting Applications. 2019 , 1, 1240-1250	16
585	Azobenzene-Based Photoswitches Facilitating Reversible Regulation of Kinesin and Myosin Motor Systems for Nanotechnological Applications. 2019 , 3, 337-346	9
584	A turn-on fluorescence sensor for the highly selective detection of Al based on diarylethene and its application on test strips.. 2019 , 9, 10395-10404	19
583	Insight into 6 π Electrocyclic Reactions of 1,8-Dioxatetraene. 2019 , 131, 2686-2690	
582	Photochromic Diarylethenes Designed for Surface Deposition: From Self-Assembled Monolayers to Single Molecules. 2019 , 84, 564-577	5

581	Concepts in the design and engineering of single-molecule electronic devices. 2019 , 1, 211-230	191
580	Photo-tunable linear and nonlinear optical response of cyclophanediene-dihydropyrene photoswitches. 2019 , 88, 261-272	5
579	Lattice Water Controlled Photo- and Thermochromism of N-Protonated Carbomethoxypyridinium Iodoargentate Hybrids. 2019 , 58, 3364-3373	53
578	Construction of Highly Emissive Pt(II) Metallacycles upon Irradiation. 2019 , 37, 323-329	16
577	Living in the salt-cocystal continuum: indecisive organic complexes with thermochromic behaviour. 2019 , 21, 1626-1634	16
576	Ring Closure Reaction Pathway of a Diarylethene in Solution Using Femtosecond Time-resolved Fluorescence Spectra. 2019 , 40, 352-358	4
575	Substituent Effects on 3-Arylazoindole Photoswitches. 2019 , 84, 6565-6575	14
574	Unraveling ultrafast dynamics of the photoswitchable bridged dithienylethenes under structural constraints. 2019 , 21, 6407-6414	4
573	Cyclization reaction dynamics of an inverse type diarylethene derivative as revealed by time-resolved absorption and fluorescence spectroscopies. 2019 , 21, 8623-8632	8
572	A novel diarylethene-based fluorescent "turn-on" sensor for the selective detection of Mg.. 2019 , 9, 6021-6026	5
571	A chemical reaction controlled by light-activated molecular switches based on hetero-cyclopentanediyls. 2019 , 10, 3486-3493	14
570	An All-Optical Excitonic Switch Operated in the Liquid and Solid Phases. 2019 , 13, 2986-2994	19
569	Design, synthesis and study of a photochromic diene: toward new classes of photoswitchable polymers. 2019 , 17, 2486-2491	2
568	Recent developments in stimuli-responsive luminescent films. 2019 , 7, 3399-3412	58
567	A Preliminary First Principle Study on Photochromism of Diarylethene Molecules. 2019 , 1, 67-77	
566	The Chromic Response to Environment of some Imine-Based Oligomers. 2019 , 826, 91-101	1
565	Photoregulation between small DNAs and reversible photochromic molecules. 2019 , 7, 4944-4962	15
564	Synthesis and photochromism of some mono and bis (thienyl) substituted oxathiine 2,2-dioxides. 2019 , 17, 9578-9584	4

563	Photochemical Transformations Involving Organoboron. 2019 , 1-43	2
562	Comparing photoswitching of acrylate or methacrylate polymers conjugated with donor-acceptor Stenhouse adducts. 2019 , 10, 6515-6522	19
561	Single Molecule-Based Electronic Devices: A Review. 2019 , 14, 1930007	7
560	Photo-Lewis Acid Generator Based on Radical-Free 6 π -Photo-Cyclization Reaction. 2019 , 141, 20043-20047	11
559	Electro-activity and magnetic switching in lanthanide-based single-molecule magnets. 2019 , 6, 3398-3417	35
558	Simple Synthesis of Elastomeric Photomechanical Switches That Self-Heal. 2019 , 40, e1800815	15
557	Multi-modulated photochromic behavior of a D-A type dithienylethene. 2019 , 162, 712-720	20
556	Ambipolar carrier transport in an optically controllable diarylethene thin film transistor. 2019 , 64, 205-208	12
555	Modulation of photochromic properties of spirooxazine bearing sulfobutyl substituent by metal ions. 2019 , 371, 453-460	7
554	Photoresponsive Supramolecular Polymers. 2019 , 45-90	4
553	Light-Driven Self-Organized Liquid Crystalline Nanostructures Enabled by Chiral Molecular Switches or Motors: From 1D to 3D Photonic Crystals. 2019 , 91-123	2
552	Light-Switchable Antagonists for the Histamine H Receptor at the Isolated Guinea Pig Ileum. 2019 , 14, 636-644	6
551	Stereoinformation Relay: Coupling Diastereoselectivity of a Thermal Diels-Alder Reaction with the Photochemical Ring-Closure of Diarylethenes. 2019 , 3, 461-466	
550	Synthesis and the effect of alkyl chain length on photochromic properties of diarylethene derivatives. 2019 , 75, 784-790	4
549	New Bifunctional Diarylethene Sensor for Multianalyte Detection and Al ³⁺ Imaging in Live Cells. 2019 , 4, 309-319	20
548	Recent Implementations of Molecular Photoswitches into Smart Materials and Biological Systems. 2019 , 25, 5128-5144	140
547	Photoswitchable Host-Guest Systems Incorporating Hemithioindigo and Spiropyran Units. 2019 , 3, 304-317	10
546	Asymmetric Diarylethenes with Oxidized 2-Alkylbenzothiophen-3-yl Units: Chemistry, Fluorescence, and Photoswitching. 2019 , 7, 1801746	17

545	A unimolecular platform based on diarylethene with multiple stimuli-gated photochromism. 2019 , 164, 91-96	10
544	A Redox Strategy for Light-Driven, Out-of-Equilibrium Isomerizations and Application to Catalytic C-C Bond Cleavage Reactions. 2019 , 141, 1457-1462	109
543	Solvent-dependent and visible light-activated NIR photochromic dithienylethene modified by difluoroboron diketonates as fluorescent turn-on pH sensor. 2019 , 162, 339-347	38
542	Reversible Multicolor Photochromism of Dihydroazulene Crystals. 2019 , 25, 373-378	8
541	Under different solvents excited-state intramolecular proton transfer mechanism and solvatochromic effect of 2-(2-hydroxyphenyl) benzothiazole molecule. 2019 , 206, 326-334	34
540	Fluorescent heterocycles: Recent trends and new developments. 2019 , 128, 103-179	17
539	Photoinduced Regulation of the Heat Resistance in Polymer Networks with Diarylethene-Conjugated Reversible Covalent Cross-Links. 2019 , 8, 1-6	5
538	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
537	Supramolecular Transformation of Metallacycle-linked Star Polymers Driven by Simple Phosphine Ligand-Exchange Reaction. 2019 , 141, 583-591	36
536	Nature-Inspired Emerging Chiral Liquid Crystal Nanostructures: From Molecular Self-Assembly to DNA Mesophase and Nanocolloids. 2020 , 32, e1801335	138
535	Post-Modification of the Ethene Bridge in the Rational Design of Photochromic Diarylethenes. 2020 , 20, 51-63	14
534	Gated photochromic reactivity of azadithiacrown-ether functionalized diarylethene. 2020 , 172, 107869	8
533	Unraveling Dual Aggregation-Induced Emission Behavior in Steric-Hindrance Photochromic System for Super Resolution Imaging. 2020 , 132, 8638-8648	11
532	Unraveling Dual Aggregation-Induced Emission Behavior in Steric-Hindrance Photochromic System for Super Resolution Imaging. 2020 , 59, 8560-8570	42
531	Polymeric Photoacids Based on Naphthols-Design Criteria, Photostability, and Light-Mediated Release. 2020 , 26, 2365-2379	5
530	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
529	Spectroscopic study of the pH dependent interaction of an achiral molecular photo-switch with poly-Glutamic acid. 2020 , 388, 112146	1
528	Dinuclear Copper(II) Complexes Exhibiting Reversible Photochromism. 2020 , 2020, 561-567	1

527	Stepwise structural and fluorescent colour conversion in rhodamine analogues based on light and acid stimulations. 2020 , 8, 543-549		5
526	Recent progress in the development of molecular-scale electronics based on photoswitchable molecules. 2020 , 8, 821-848		49
525	Design of Collective Motions from Synthetic Molecular Switches, Rotors, and Motors. <i>Chemical Reviews</i> , 2020 , 120, 310-433	68.1	175
524	Phenazine-1,6-dicarboxamides: Redox-Responsive Molecular Switches. 2020 , 142, 60-63		15
523	1,2-Disubstituted 3,3,4,4,5,5-Hexafluorocyclopentenes as Bent Light-Emitting π -Conjugated Luminophores. 2020 , 2020, 870-877		
522	Unveiling the Relationship between Energy Transfer and the Triplet Energy Level by Tuning Diarylethene within Europium(III) Complexes. 2020 , 59, 661-668		6
521	Contemporary catalyst-free photochemistry in synthetic macromolecular science. 2020 , 100, 101183		19
520	Reversible multi-mode modulations of optical behavior in photochromic-translucent Nd-doped K _{0.5} Na _{0.5} NbO ₃ ceramics. 2020 , 8, 2343-2352		33
519	Computational study of [(phenanthroline) ₂ Fe ^{II} /III(terephthalate)] ₂ Co ^{III} /II(phenanthroline) ₂] ³⁺ binuclear complex. 2020 , 31, 809-821		1
518	Electrical switching effect in a photochromic molecule between two graphene electrodes. 2020 , 384, 126190		
517	Photomechanical Behavior of Photochromic Diarylethene Crystals. 2020 , 1-28		1
516	Phototuning Selectively Hole and Electron Transport in Optically Switchable Ambipolar Transistors. 2020 , 30, 1908944		18
515	Bending, Jumping, and Self-Healing Crystals. 2020 , 105-138		3
514	Novel Photoswitchable Dihetarylethenes Exhibiting Fluorescence. 2020 , 30, 35-40		0
513	Photoswitchable phosphines in catalysis. 2020 , 12, 5573-5589		5
512	Solvent-free and anticounterfeiting fluorescent inks based on epoxy-functionalized polyacrylic nanoparticles modified with Rhodamine B for cellulosic substrates. 2020 , 92, 287-296		7
511	Photoluminescent and Chromic Nanomaterials for Anticounterfeiting Technologies: Recent Advances and Future Challenges. 2020 , 14, 14417-14492		109
510	Molecular Switches and Motors Powered by Orthogonal Stimuli. 2020 , 2020, 7254-7283		11

509	Rapid Access to Dispirocyclic Scaffolds Enabled by Diastereoselective Intramolecular Double Functionalization of Benzene Rings. 2020 , 15, 4271-4274	1
508	Functional polyimides based on diamine containing diarylethylene moieties and their photochromic mechanism studies. 2020 , 11, 6701-6707	1
507	All-Optical Emission Control and Lasing in Plasmonic Lattices. 2020 , 7, 2850-2858	8
506	Cyclization Dynamics and Competitive Processes of Photochromic Perfluorocyclopentene Dithienylethylene in Solution. 2020 , 21, 2223-2229	2
505	Photoresponsive molecular tools for emerging applications of light in medicine. 2020 , 11, 11672-11691	46
504	Polymeric nanoparticles based on CDs with photoreversible dual-color fluorescence modulation. 2020 , 8, 15697-15704	3
503	A new synthesis protocol for photochromic triarylethenes and their multifunctional derivatives. 2020 , 50, 3099-3112	1
502	Transition metal complexes incorporated with photoswitchable azo-based benzimidazole ligands: Photochromic and solvatochromic studies. 2020 , 242, 118735	4
501	A zwitterionic ligand-based water-stable metal-organic framework showing photochromic and Cr(vi) removal properties. 2020 , 49, 10613-10620	10
500	Photoinduced Changes in Aromaticity Facilitate Electrocyclization of Dithienylbenzene Switches. 2020 , 142, 13941-13953	15
499	Photoluminescence On/Off Switching of a Single Colloidal Quantum Dot Using Photochromic Diarylethene. 2020 , 124, 17423-17429	10
498	High response photochromic films based on D-A diarylethenes and their application in holography.. 2020 , 10, 26177-26187	4
497	Advances in Organic Crystal Chemistry. 2020 ,	1
496	Transition Metal Complexes as Photofunctional Materials From Photosensitization and Photochromism to Artificial Photosynthesis and Energy Applications. 2020 , 2-2	1
495	High fatigue resistance of a photochromic dithienylethene embedded into the pores of a metal-organic framework (MOF). 2020 , 19, 1730-1740	5
494	Negative photochromism of a blue cyanine dye. 2020 , 56, 15205-15207	2
493	Ultrahigh-sensitive fluorescence dosimeters that use turn-on mode fluorescent diarylethenes. 2020 , 61, 152232	1
492	Photochemically Crushable and Regenerative Metal-Organic Framework. 2020 , 142, 14069-14073	7

491	Photoisomerization-coupled electron transfer. 2020 , 153, 034301	1
490	Photochromism for optically functionalized organic field-effect transistors: a comprehensive review. 2020 , 8, 10956-10974	19
489	Optical properties of 3-substituted indoles.. 2020 , 10, 28213-28224	7
488	A novel photochromic ceramics with reversible luminescence modulation and light bleaching behavior: Sm ³⁺ -doped K ₂ Sr ₂ Nb ₅ O ₁₅ . 2020 , 40, 6061-6072	15
487	An Electron lock toward the photochromic activity of phenylacetylene appended bithienylethene. 2020 , 706, 141-149	0
486	Vapochromic luminescence of a spin-coated copper(I) complex thin film by the direct coordination of vapour molecules. 2020 , 49, 16946-16953	6
485	Switchable slow relaxation of magnetization in photochromic dysprosium(III) complexes manipulated by a dithienylethene ligand. 2020 , 44, 20129-20136	3
484	Basic enemies of photochromism: irreversible transformation of fluorinated diarylethenes to polyenic enamines and enols. 2020 , 19, 1511-1516	2
483	Behaviour of Regioisomeric Bithiophenes in the Oxidative Synthesis of Tetrathieno-Fused Expanded Fluorenes and Their Characterization. 2020 , 9, 2144-2152	2
482	Triple responsive room temperature luminescence, photochromism and photomagnetism in a Dy(III)-based linear chain complex. 2020 , 22, 7538-7542	7
481	Photoactive Molecules within MOFs. 2020 , 105-153	
480	Arene Substitution Design for Controlled Conformational Changes of Dibenzocycloocta-1,5-dienes. 2020 , 142, 16651-16660	7
479	Supra-molecular agents running tasks intelligently (SMARTI): recent developments in molecular logic-based computation. 2020 , 5, 1325-1353	12
478	Modeling Photonastic Materials: A First Computational Study. 2020 , 16, 7017-7032	1
477	. 2020 ,	2
476	Integrating Molecular Functionalities into Electrical Circuits. 2020 , 225-374	
475	A Novel Donor-Acceptor Fluorescent Sensor for Zn with High Selectivity and its Application in Test Paper. 2020 , 30, 1567-1574	2
474	Stimulus-Responsive Nanomedicines for Disease Diagnosis and Treatment. 2020 , 21,	21

473	Synthesis strategies for non-symmetric, photochromic diarylethenes. 2020 , 18, 7238-7252	2
472	Chemistry in Action: Making Molecular Movies with Ultrafast Electron Diffraction and Data Science. 2020 ,	0
471	Synthesis, Photophysical, Photochromic, and Photomodulated Resistive Memory Studies of Dithienylethene-Containing Copper(I) Diimine Complexes. 2020 , 59, 14785-14795	2
470	Photochromic organic solar cells based on diarylethenes.. 2020 , 10, 30176-30185	5
469	Photochromism and Fluorescence Switch of Furan-Containing Tetraarylethene Luminogens with Aggregation-Induced Emission for Photocontrolled Interface-Involved Applications. 2020 , 12, 42410-42419	21
468	Mechanical Properties and Photomechanical Fatigue of Macro- and Nanodimensional Diarylethene Molecular Crystals. 2020 , 20, 6744-6749	12
467	Overview on the Recent Progress on Electrofluorochromic Materials and Devices: A Critical Synopsis. 2020 , 8, 2000887	12
466	Physical stimuli-responsive cell-free protein synthesis. 2020 , 5, 363-368	3
465	Photochromic and fluorescence properties of coumarin fulgimides. 2020 , 44, 1031-1042	
464	Photoinduced swing of a diarylethene thin broad sword shaped crystal: a study on the detailed mechanism. 2020 , 11, 12307-12315	13
463	Development of Photoswitchable Estrogen Receptor Ligands. 2020 , 68, 398-402	3
462	Metal pattern resolution for fine electrode formation using selective metal-vapor deposition using photochromic diarylethene. 2020 , 59, 061001	1
461	Macroscale Light-Controlled Lubrication Enabled by Introducing Diarylethene Molecules in a Nanoconfinement. 2020 , 36, 5820-5828	5
460	Chiral, Thermally Irreversible and Quasi-Stealth Photochromic Dopant to Control Selective Reflection Wavelength of Cholesteric Liquid Crystal. 2020 , 21, 1375-1383	2
459	Norbornadiene-bridged diarylethenes and their conversion into turn-off fluorescent photoswitches. 2020 , 56, 7124-7127	6
458	A thermoresponsive fluorophore based on a photochromic diarylethene having donor-acceptor moieties. 2020 , 56, 6492-6494	3
457	A dual-emitting inorganic-organic hybrid material with emission intensity enhanced via electron-transfer photochromism. 2020 , 181, 108441	8
456	Reversible Luminescence Photoswitching of Colloidal CsPbBr ₃ Nanocrystals Hybridized with a Diarylethene Photoswitch. 2020 , 2, 727-735	7

- 455 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
- 454 Relationship between polarons and optical activity for conductive polymer/hydroxypropyl cellulose composite. **2020**, 58, 1881-1888 2
- 453 Systematic studies of structural variations in terarylene photohydride generators. **2020**, 397, 112594 0
- 452 Investigation on the coloring and bleaching processes of WO₃ photochromic thin films. **2020**, 8, 9410-9421 17
- 451 Synthesis and fluorescence photoswitching of a diarylethene derivative having a dibenzoylmethanato boron difluoride complex. **2020**, 61, 152108 3
- 450 Geometrical Evolution and Formation of the Photoproduct in the Cycloreversion Reaction of a Diarylethene Derivative Probed by Vibrational Spectroscopy. **2020**, 21, 1524-1530 3
- 449 Tunable solid-state photochromism based on proton and anion-controlled structural transformation of pyridinium-based organic small molecules. **2020**, 151, 757-763
- 448 Redox-responsive supramolecular polymeric networks having double-threaded inclusion complexes. **2020**, 11, 4322-4331 16
- 447 Mechanistic Insights into the Triplet Sensitized Photochromism of Diarylethenes. **2020**, 26, 7672-7677 10
- 446 Conductance switching at the nanoscale of diarylethene derivative self-assembled monolayers on LaSrMnO. **2020**, 12, 8268-8276 4
- 445 Understanding the properties of dithienylethenes functionalized for supramolecular self-assembly: a molecular modeling study. **2020**, 22, 6942-6952 5
- 444 Tandem Detection of Sub-Nano Molar Level CN and Hg in Aqueous Medium by a Suitable Molecular Sensor: A Viable Solution for Detection of CN and Development of the RGB-Based Sensory Device. **2020**, 5, 6576-6587 12
- 443 The valence and Rydberg states of dienes. **2020**, 22, 6176-6183 3
- 442 Sterically hindered diarylethenes with thienopyridine: Substituent position effect on photochromic properties. **2020**, 182, 108620 3
- 441 Recent progress in all-visible-light-triggered diarylethenes. **2020**, 182, 108623 25
- 440 Photoresponsive Dithienylethene-Containing Tris(8-hydroxyquinolino)aluminum(III) Complexes with Photocontrollable Electron-Transporting Properties for Solution-Processable Optical and Organic Resistive Memory Devices. **2020**, 142, 12193-12206 21
- 439 A novel diarylethene probe with high selective recognition of CN⁻ and Mg²⁺ and its application. **2020**, 401, 112754 2
- 438 Rational design of reversibly photochromic molecules with aggregation-induced emission by introducing photoactive thienyl and benzothienyl groups. **2020**, 8, 13197-13204 25

- 437 Investigation of excited state proton transfer mechanism for 2-(benzo[d]thiazol-2-yl)naphthalene-1,3-diol in different solvents. **2020**, 538, 110914 2
- 436 Organic and hybrid photoelectroactive polymer for memories and neuromorphic computing. **2020**, 223-250 1
- 435 Photocontrolled Reversible Binding between the Protein A-Derived Z Domain and Immunoglobulin G. **2020**, 31, 622-630 8
- 434 Engineering stable radicals using photochromic triggers. **2020**, 11, 945 14
- 433 Generation of Schubert polynomial series via nanometre-scale photoisomerization in photochromic single crystal and double-probe optical near-field measurements. **2020**, 10, 2710 5
- 432 Competition between ring-puckering and ring-opening excited state reactions exemplified on 5H-furan-2-one and derivatives. **2020**, 152, 064301 3
- 431 Interface Engineering in Organic Field-Effect Transistors: Principles, Applications, and Perspectives. *Chemical Reviews*, **2020**, 120, 2879-2949 68.1 92
- 430 Computational Investigations of the Effects of N-Heterocyclic Carbene Ligands on the Mechanism, Reactivity, and Regioselectivity of Rh-Catalyzed Hydroborations. **2020**, 10, 3820-3827 15
- 429 Effect of donor-acceptor structure on photochromism of dithienylethene-based dyes. **2020**, 177, 108315 6
- 428 Preparation and properties of multifunctional tetraarylethenes and their oxides. **2020**, 177, 108264 2
- 427 Mechanism of photochromic transformations and photodegradation of an asymmetrical 2,3-diarylcyclopentenone. **2020**, 22, 5220-5228 5
- 426 Photoinduced properties of π -type polyimides with azobenzene or azopyridine moieties. **2020**, 126, 109563 7
- 425 Photoactivatable fluorescent probes for spatiotemporal-controlled biosensing and imaging. **2020**, 125, 115811 22
- 424 A Zr-cluster based thermostable, self-healing and adaptive metallogel with chromogenic properties responds to multiple stimuli with reversible radical interaction. **2020**, 56, 2439-2442 14
- 423 Reversible single-crystal-to-single-crystal conversion of a photoreactive coordination network for rewritable optical memory storage. **2020**, 56, 1984-1987 22
- 422 Synthesis and characterization of 5,5'-bis-silylated dithienylethene as a new building block of novel photochromic periodic mesoporous organosilicas. **2020**, 46, 2195-2204
- 421 Multicolour fluorescent "sulfide-sulfone" diarylethenes with high photo-fatigue resistance. **2020**, 56, 2198-2201 8
- 420 Synthesis and characterization of gated photochromic diarylethene functionalized with dipicolylamine. **2020**, 176, 108202 2

419	Reversible multiplexing for optical information recording, erasing, and reading-out in photochromic BaMgSiO ₄ :Bi ³⁺ luminescence ceramics. 2020 , 63, 582-592	30
418	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
417	A dominant factor of the cycloreversion reactivity of diarylethene derivatives as revealed by femtosecond time-resolved absorption spectroscopy. 2020 , 152, 034301	8
416	Core structure dependence of cycloreversion dynamics in diarylethene analogs. 2020 , 22, 3314-3328	3
415	Theoretical investigation on radical anion promoted electrocyclization in photochromes. 2020 , 97, 107550	1
414	Experimental and theoretical exploration of photophysics and trans-cis photoisomerization of styrylbenzene conjugated terpyridine complexes of Ru(II): Strong effect of deprotonation from second coordination sphere. 2020 , 392, 112409	6
413	Dithienylethene-bridged difluoroboron β-diketonate dyes: Optical switching behaviors and triple sensing for volatile amine vapors. 2020 , 179, 108419	12
412	Reversible upconversion modulation in new photochromic SrBi ₂ Nb ₂ O ₉ based ceramics for optical storage and anti-counterfeiting applications. 2020 , 40, 4153-4163	28
411	Dithieno-annulated benzo[g]coumarins: Synthesis via oxidative photocyclization and study of their photophysical properties. 2020 , 61, 151848	5
410	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
409	Halogen-sensitive solvatochromism based on a phenolic polymer of tetraphenylethene.. 2020 , 10, 12695-12698	
408	Isomerization behavior of diarylethene-type photochromic compounds under X-ray irradiation: application to dosimetry. 2020 , 59, 046004	1
407	Ring-Fused 1,4-Dihydro[1,2,4]triazin-4-yls through Photocyclization. 2020 , 22, 3835-3840	10
406	Light-Driven Expansion of Spiropyran Hydrogels. 2020 , 142, 8447-8453	75
405	Electrical molecular switch addressed by chemical stimuli. 2020 , 12, 10127-10139	2
404	On-demand regulation of photochromic behavior through various counterions for high-level security printing. 2020 , 6, eaaz2386	49
403	A trip in the nonlinear optical properties of iridium complexes. 2020 , 414, 213293	25
402	Spectroscopic Study of the E/Z Photoisomerization of a New Cyrhetyrenyl Acylhydrazone: A Potential Photoswitch and Photosensitizer. 2021 , 97, 61-70	3

401	Photochromism and photoresponsive luminescence in naphthalenediimide coordination polymers with high thermostability. 2021 , 23, 140-145	3
400	Photochromic properties of ruthenium complexes with dithienylethene-ethynylthiophene. 2021 , 184, 108750	2
399	UV photochemistry of 1,3-cyclohexadiene isolated in solid parahydrogen. 2021 , 1224, 128986	1
398	Energy manipulation and metal-assisted photochromism in photochromic metal complex. 2021 , 427, 213579	21
397	Optical-switchable energy transfer controlled by multiple-responsive turn-on fluorescence via metal-guest and host-guest interactions in diarylethene-based [2]pseudo-rotaxane polymers. 2021 , 5, 438-449	5
396	Dithienylethene-bridged gold(I) isocyanide complexes: Synthesis, photochromism and turn-on fluorescent switching behavior. 2021 , 185, 108933	4
395	Effect of positional isomerism on electron-transfer photochromism and photoluminescence of two pyromellitic diimide-based organic molecules. 2021 , 186, 108941	6
394	9-Aryl-phenalenones: Bioinspired thermally reversible photochromic compounds for photoswitching applications in the pico-to milliseconds range. 2021 , 186, 109060	1
393	Measurement of glass-transition temperature of thermoreversible photochromic materials based on mechanochemical amorphization. 2021 , 186, 109069	1
392	Synthesis and photochromism of dithienylethene-based isocyanide and gold (I) complexes with various alkyl chains. 2021 , 186, 108964	1
391	Theoretical study on the photocyclization reactivity mechanism in a diarylethene derivative with multicolour fluorescence modulation. 2021 , 406, 113024	0
390	Light-stimulated molecular and supramolecular systems for information processing and beyond. 2021 , 429, 213695	13
389	Photochromic and temperature sensing properties of Ho ³⁺ -Yb ³⁺ codoped Bi _{0.495-x} Na _{0.5} TiO ₃ ceramics. 2021 , 111, 110718	8
388	Fatigue and fatigue resistance in S ₁ excited state diarylethenes in electric fields. 2021 , 121, e26527	4
387	1,10-Norbornadiene-Azobenzene Molecules as Multistate Photoswitches. 2021 , 3, e2000035	3
386	Light-driven artificial neuron models based on photoswitchable systems. 2021 , 187, 109086	5
385	Stepwise Assembly of Ultrathin Poly(vinyl alcohol) Films on Photoresponsive Diarylethene Crystals. 2021 , 50, 84-86	4
384	Autopolymerization of 2-bromo-3-methoxythiophene, analysis of reaction products and estimation of polymer structure. 2021 , 53, 429-438	1

- 383 Uncovering photo-excited intramolecular charge transfer and ESIPT mechanism for 5,5'-(9,9-dioctyl-9H-fluorene-2,7-diyl) bis(2-benzo[d]thiazol-2-yl) phenol compound. **2021**, 119, e1805130 0
- 382 Reversible photochromic properties of 4,5,6-triaryl-4H-pyran derivatives in a solid state. **2021**, 5, 3413-3421 0
- 381 Photoresponsive frameworks: energy transfer in the spotlight. **2021**, 231, 266-280 4
- 380 Photoisomerization-mechanism-associated excited-state hydrogen transfer in 2'-hydroxychalcone revealed by on-the-fly trajectory surface-hopping molecular dynamics simulation. **2021**, 23, 4300-4310 1
- 379 Photochemical rearrangements in organic synthesis and the concept of the photon as a traceless reagent. **2021**, 283-328 3
- 378 A multifunctional colorimetric sensor originating from a cadmium naphthalene diimide-based metal-organic framework: photochromism, hydrochromism, and vapochromism. **2021**, 23, 4513-4521 5
- 377 A dual-mode visual detector for toxic hydrazine.. **2021**, 11, 22835-22841 2
- 376 Multicomponent one-pot synthesis of novel imidazole-2-thione derivatives containing allomaltol fragment. **2021**, 58, 864-872 0
- 375 Functionalisation of MoS₂ 2D layers with diarylethene molecules. **2021**, 9, 10975-10984 4
- 374 illumination with inelastic neutron scattering: a study of the photochromic material -1,2-dicyano-1,2-bis(2,4,5-trimethyl-3-thienyl)ethene (CMTE). **2021**, 23, 22324-22329 1
- 373 Improvement of the photochromism taking place on ZnO/MoO₃ combined material interfaces. **2021**, 2, 782-792 3
- 372 Carborane photochromism: a fatigue resistant carborane switch. **2021**, 57, 9466-9469 1
- 371 Recent Advances on Supramolecular Gels: From Stimuli-Responsive Gels to Co-Assembled and Self-Sorted Systems. **2021**, 03, 025-040 7
- 370 Spin crossover metal-organic frameworks with inserted photoactive guests: on the quest to control the spin state by photoisomerization. **2021**, 50, 8877-8888 3
- 369 Photochromism. **2021**, 263-281
- 368 Mechanism of 2,3-difurylmaleic anhydride photochromic molecular switch--A. **2021**, 0-0
- 367 Site-Selective Occupancy of Eu²⁺ toward High Luminescence Switching Contrast in BaMgSiO₄-Based Photochromic Materials. **2021**, 9, 2001626 17
- 366 Photochromism of neutral spiropyran in the crystalline state at room temperature. 14

365	Covalent organic frameworks: an ideal platform for designing ordered materials and advanced applications. 2021 , 50, 120-242	144
364	Controlling the triplet states and their application in external stimuli-responsive triplet-triplet-annihilation photon upconversion: from the perspective of excited state photochemistry. 2021 , 50, 9686-9714	16
363	Rapid amplitude-modulation of a diarylethene photoswitch: en route to contrast-enhanced fluorescence imaging. 2021 , 12, 7073-7078	4
362	Photoswitchable Fluorescent Self-Assembled Metallacycles with High Photostability. 2021 , 27, 5240-5245	5
361	Photo-switchable iron-terpyridine complexes functionalized with styrylbenzene unit. 2021 , 407, 113059	3
360	Dithienylethene-Based Photoswitchable Catalysts: State of the Art and Future Perspectives. 2021 , 11, 2244-2252	4
359	Molecular Rotor Functionalized with a Photoresponsive Brake. 2021 , 60, 3492-3501	5
358	Fluorocarbon-Functionalized Superhydrophobic Metal-Organic Framework: Enhanced CO Uptake via Photoinduced Postsynthetic Modification. 2021 , 60, 3823-3833	5
357	Photochromic Modulation of Cys-loop Ligand-gated Ion Channels. 2021 , 57, 354-371	1
356	Development of High-Performance Pyrimidine Nucleoside and Oligonucleotide Diarylethene Photoswitches. 2021 , 60, 8164-8173	10
355	Switchable Circularly Polarized Luminescence in Supramolecular Gels through Photomodulated FRET. 2021 , 13, 15501-15508	10
354	A study on the change of VO ₂ thin-film coating behavior according to the droplet size using ultrasonic spray. 2021 , 127, 1	2
353	Thiourea-Based Soft Actuators from Photo-triggered Fluoride Generation and Amplification. 2021 , 3, 1595-1601	
352	Development of High-Performance Pyrimidine Nucleoside and Oligonucleotide Diarylethene Photoswitches. 2021 , 133, 8245-8254	0
351	Emission Switching in the Near-Infrared by Reversible Trans-Cis Photoisomerization of Styrylbenzene-Conjugated Osmium Terpyridine Complexes. 2021 , 60, 4869-4882	2
350	Diarylethene-Powered Light-Induced Folding of Supramolecular Polymers. 2021 , 143, 5845-5854	10
349	Dithienylethene-Based Photochromic Siloles: A Straightforward and Divergent Synthetic Strategy. 2021 , 133, 12464-12467	0
348	Cyclopentadienone Derivative Dimers as Tunable Photoswitches. 2021 , 27, 7882-7886	

- 347 Dithienylethene-Based Photochromic Siloles: A Straightforward and Divergent Synthetic Strategy. **2021**, 60, 12356-12359 2
- 346 Voltage-current behavior of 4-phenylamino-3-penten-2-one and its derivatives molecular switch: a first-principles study. **2021**, 47, 730-737 1
- 345 A Solid-State Fluorescence Switch Based on Triphenylethene-Functionalized Dithienylethene With Aggregation-Induced Emission. **2021**, 9, 665880 2
- 344 Introduction. 1-13
- 343 "On-The-Fly" Non-Adiabatic Dynamics Simulations on Photoinduced Ring-Closing Reaction of a Nucleoside-Based Diarylethene Photoswitch. **2021**, 26, 1 1
- 342 Photoresponsive aggregation-induced emission polymer film for anti-counterfeiting. **2021**, 32, 3882-3882 1
- 341 Constructing photochromic diarylethene with NIR-absorption beyond 800 nm. **2021**, 189, 109273 2
- 340 Nano-3D-Printed Photochromic Micro-Objects. **2021**, 17, e2101337 10
- 339 Investigations of Donor-Acceptor Interactions in 1,3,5-Tris-(3-Methoxy & 3-Methyl Carboxy) Phenyl Ethynyl Benzene Derivatives Using Experimental and DFT Study. 1-18
- 338 Switchable stimulated Raman scattering microscopy with photochromic vibrational probes. **2021**, 12, 3089 7
- 337 Chromic Ionic Liquids. **2021**, 3, 2468-2482 6
- 336 General approach to substituted naphtho[1,2-b]benzofurans via photochemical electrocyclozation of benzofuranyl containing cinnamionitriles. **2021**, 90, 132207 4
- 335 A photochromic nylon webbing for ultra-violet light sensing. 0
- 334 Exploration about superior anti-counterfeiting ability of Sm³⁺ doped KSr₂Nb₅O₁₅ photochromic ceramics: Origin and atomic-scale mechanism. **2021**, 8, 38-38 7
- 333 Boundary formation in photochromic diarylethene single crystals and its catastrophe theory modeling. **2021**, 14, 075003 1
- 332 Challenges for Incorporating Optical Switchability in Organic-Based Electronic Devices. **2021**, 13, 27737-27748 1
- 331 Dithienylmaleimide-based D-A Conjugated Polymer Film: Photo-Responsive Behavior and Application in Electrical Memory and Logic Gates. **2021**, 39, 1177-1184 0
- 330 Facile Synthesis of 2-Benzo[χ]Chromenes via an Arylamine-Catalyzed Mannich Cyclization Cascade Reaction. **2021**, 26, 2 2

- 329 (E)-1-(3,4-Dimethoxyphenyl)-2-methyl-3-phenylprop-2-en-1-one: A P-Type Acid-Stable Photochromic β Methylchalcone. **2021**, 2021, M1226
- 328 Dual macrocyclic chemical input based highly protective molecular keypad lock using fluorescence in solution phase: A new type approach. **2021**, 331, 115679 1
- 327 Electronic transport behavior of 1-(Phenyldiazenyl)naphthalen-2-ol and its derivatives as optical molecular switches: A first-principles approach. **2021**, 236, 166475 1
- 326 Long-term switching of single photochromic triads based on dithienylcyclopentene and fluorophores at cryogenic temperatures. **2021**, 155, 014901 0
- 325 Determining Factor of the Quantum Yield of the Cyclization Reaction via Triplet States for Dye-Attached Diarylethene. **2021**, 125, 5895-5902 1
- 324 Understanding the Molecular Origin of the Collective Movement in a Diarylethene-based Photo-Responsive Actuator. **2021**, 22, 1658-1661 1
- 323 On-Demand Chirality Transfer of Human Serum Albumin to Bis(thiophen-2-yl)hexafluorocyclopentenes through Their Photochromic Ring Closure. **2021**, 86, 12549-12558 3
- 322 A Photo- and Redox-Driven Two-Directional Terthiazole-Based Switch: A Combined Experimental and Computational Investigation. **2021**, 27, 12866-12876 2
- 321 Optical-component-only adaptive optics. **2021**, 46, 3452-3455 1
- 320 Low-cost photo-switches based on stilbene-appended Zn(II)-terpyridine complexes. **2021**, 20, 1125-1145 1
- 319 Dithienylethenes functionalized by triphenylethene and difluoroboron β diketonate fragments: Synthesis, optical switching behavior and fluorescent turn-on sensing for volatile organic amines. **2021**, 192, 109422 5
- 318 Low-symmetry porphyrin analogues with flexible open-form dithienylethene moieties: Intense near IR Q bands. **2021**, 192, 109440 0
- 317 Conformationally Switchable Silylone: Electron Redistribution Accompanied by Ligand Reorientation around a Monatomic Silicon. **2021**, 143, 14332-14341 4
- 316 Instant Photochromism Caused by Radical Formation in Photocatalytic Decarboxylation of Dihydrothiazole Derivative \square **2021**, 39, 2774-2780 0
- 315 Synthesis and Properties of BODIPY Appended Tetraphenylethylene Scaffolds as Photoactive Arrays. **2021**, 2021, 4136-4143 2
- 314 Solvent effect on the excited-state intramolecular double proton transfer of 1,3-bis(2-pyridylimino)-4,7-dihydroxyisoindole. **2021**, 20, 1183-1194 0
- 313 Phenolphthalein-based Tetraarylethylene Derivatives Responding to UV/Vis Light and Acid/Base. **2021**, 50, 1620-1623 0
- 312 Photomechanical polymer hydrogels based on molecular photoswitches. **2021**, 59, 2246 5

311	Development of Red-Shifted and Fluorogenic Nucleoside and Oligonucleotide Diarylethene Photoswitches. 2021 , 27, 17386-17394	0
310	Electronic transport behavior of 2-amino-4,5-bis(2,5-dimethylthiophen-3-yl)furan-3-carbonitrile (a diarylethene) as optical molecular switch: a first-principles approach. 2021 , 140, 1	0
309	Dithienylethene metallodendrimers with high photochromic efficiency. 2021 ,	0
308	Synthesis and spectroscopic properties of BODIPY-dithienylethene conjugates. A-G	
307	Critical Factors of Diarylethene for a High-Performance Photoprogrammable Polymer Transistor: Crystallographic Compatibility, Quantum Yield, and Fatigue Resistance. 2021 , 33, 7546-7557	0
306	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
305	An excursion in the second-order nonlinear optical properties of platinum complexes. 2021 , 446, 214113	5
304	An efficient approach to diarylethene-amino acid photochromic fluorescent hybrids. 2021 , 1243, 130758	
303	Effects of azole rings with different chalcogen atoms on ESIPT behavior for benzochalcogenazolyl-substituted hydroxyfluorenes. 2022 , 264, 120296	6
302	Photoinduced topographical surface changes and photoresponse of the crystals of 7-methoxycoumarin. 2021 , 23, 5780-5787	0
301	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
300	Stimuli responsive dynamic transformations in supramolecular gels. 2021 , 50, 5165-5200	51
299	Molecular photoswitches in aqueous environments. 2021 , 50, 12377-12449	23
298	Synthesis of cis/trans-dihydrochromenones via a photoinduced rearrangement of 4-phenyl-3-aryl/cyclohexenylcoumarins. 2021 , 19, 7176-7180	0
297	Thermodynamic driving forces of guest confinement in a photoswitchable cage. 2021 , 23, 7321-7332	4
296	"Click-switch" - one-step conversion of organic azides into photochromic diarylethenes for the generation of light-controlled systems. 2021 , 12, 11593-11603	2
295	Optochemical control of transcription by the use of 7-deaza-adenosine-based diarylethenes. 2021 , 57, 6596-6599	5
294	Controllable binary/ternary memory behavior induced by isomerization of phenylhydrazone groups in polymer side chains under ultraviolet light conditions.	5

293	Ultrafast quenching of ring closure in molecular switches, self-assembled on gold nanoparticles. 2005 , 679-681	3
292	Self-Assembled Liquid Crystalline Conjugated Polymers: Synthesis, Development, and Their Advanced Electro-Optical Properties. 2014 , 319-353	1
291	High-Density Optical Memory and Ultrafine Photofabrication. 2002 , 137-150	7
290	Thermochromism. 40-142	3
289	Photochromism. 239-289	4
288	Theoretical Photochemistry of the Photochromic Molecules Based on Density Functional Theory Methods. 2009 , 169-178	1
287	Integrated Supramolecular Systems: From Sensors to Switches. 2002 , 87-100	2
286	Photoswitching of Intramolecular Magnetic Interaction Using Photochromic Compounds. 2003 , 25-40	1
285	Photochromic Terarylenes. 2013 , 183-204	5
284	Ultrafast Dynamics and Mechanisms of One-Photon and Multiphoton Photochromic Reactions. 2013 , 225-246	1
283	High Performance Thermally Irreversible Photochromism Based on 6EElectrocyclization. 2013 , 137-159	1
282	Multiphoton-Gated Photochromic Reactions Induced by Pulsed Laser Excitation. 2017 , 225-235	2
281	NMR Spectroscopy to Investigate Switching Reactions. 2017 , 301-319	1
280	Supramolecular Photochromism of Bis(phenanthrolylthienyl)-Hexafluorocyclopentene. 2017 , 385-405	4
279	Novel Ethene-Bridged Diarylethene Photochromic Systems: Self-Assembly, Photoswitcher, and Molecular Logic Gates. 2017 , 37-68	3
278	Diarylethenes that Photoswitch with Visible Light. 2017 , 169-180	3
277	Photochromic Fibers and Fabrics. 2014 , 1-23	1
276	Supramolecular Photochirogenesis with Cyclodextrin. 2006 , 241-265	8

275	Highly-stable red-emissive photochromic nanoparticles based on a diarylethene-perylenebisimide dyad. 2020 , 180, 108490	3
274	Visible light-activated optical switching behaviors of tetra-/triphenylethene-dithienylethene-BF ₂ bdk triad. 2020 , 182, 108686	6
273	Enhancement of coloring under ultraviolet irradiation in photochromic diarylbenzenes. 2020 , 61, 151968	6
272	End-Functionalization of Diarylethene for Opto-Electronic Switching with High Fatigue Resistance. 2021 , 33, 403-412	8
271	Unprecedentedly Ultrafast Dynamics of Excited States of C≡C Photoswitching Molecules in Nanocrystals and Microcrystals. 2021 , 12, 41-48	3
270	A monomolecular platform with varying gated photochromism.. 2020 , 10, 42194-42199	5
269	1,2-Bis[5-(4-cyano-phen-yl)-2-methyl-3-thien-yl]-3,3,4,4,5,5-hexa-fluoro-cyclo-pent-1-ene: a photochromic diaryl-ethene compound. 2008 , 64, o938	3
268	Light-Controlled Selective Pb Deposition on Photochromic Surfaces. 2012 , 5, 041603	11
267	Fundamentals of Molecular Photoactuation. 2012 , 83-106	5
266	Dual-responsive "smart" window and visually attractive coating based on a diarylethene photochromic dye. 2019 , 58, 9823-9828	16
265	Control of Linearly and Circularly Polarized Fluorescences on Photoresponsive Liquid Crystalline and Chiral Conjugated Polymer. 2007 , 32, 395-398	2
264	Diarylethene Dyes. 2020 , 5,	3
263	Molecular Simulation of Potential Energies, Steric Changes and Substituent Effects in Photochromic Cyclization/Cycloreversion of Three Kinds of Dithienylethenes by MOPAC-PM6 Method. 2014 , 13, 233-241	4
262	Synthesis of Di(3-thienyl)benzoporphyrin. 2019 , 99, 1434	1
261	Color Changes Caused by Structures of Stereoregular Substituted-Polyacetylenes. 2009 , 82, 204-209	12
260	Transformation of Inorganic Sulfurs Using Rhodium/Iridium Dinuclear Complexes. 2007 , 50, 2-17	1
259	Simple Near-Field Optical Recording Using Bent Cantilever Probes. 2002 , 24, 205-210	5
258	Preparation of Dithienylethene with Amino Groups, and Photochromic Behavior in Langmuir-Blodgett Film of the Amphiphilicdithienylethene. 2013 , 03, 158-161	1

257	Molecularly engineered switchable photo-responsive membrane in gas separation for environmental protection. 2020 , 25, 447-461	7
256	Excited State Behavior of 1-(9-Anthryl)-2-(2-thienyl)ethene. 2002 , 23, 1685-1688	3
255	Substituent Effect on Fluorescence and Photoisomerization of 1-(9-Anthryl)-2-(4-Pyridyl)ethenes. 2002 , 23, 1309-1338	10
254	Stability of Photochromism in New Bifunctional Copolymers Containing Spiropyran and Chalcone Moiety in the Side Chain. 2003 , 24, 441-445	9
253	Fatigue Property of Oxidized Photochromic Dithienylethene Derivative for Permanent Optical Recording. 2005 , 26, 1675-1676	15
252	A New Diarylethene with Donor-acceptor Group for Reversible Photo-induced Electrochemical Switching. 2008 , 29, 827-832	3
251	Rewritable Color Patterns with Photochromic Diarylethene-Embedded Electrospun Fibers. 2014 , 35, 3381-3384	3
250	Development of Supramolecular Machines Allowing for Mechanical Communication between Molecules. 2009 , 67, 1044-1052	0
249	External Stimulus-Responsive Control of Aromatic Amide Conformations. 2009 , 67, 1240-1249	1
248	Basic Properties of Organic Radicals and Their Functionalization —From Examples in the Past to Organic Radical Light-Emitting Diode in the Future—. 2012 , 70, 434-441	3
247	Development of High-Performance Photochromic Systems based on 6 ^π -Electrocyclization. 2013 , 71, 1061-1074	1
246	Recent Development of Fluorine-containing Transparent Polymers. 2013 , 71, 196-206	3
245	Preparation and Characterization of Photochromic Organic-Inorganic Hybrid Coating Using 1,2-Bis(2,4-dimethyl-5-phenyl-3-thienyl)3,3,4,4,5,5-hexafluoro-1-cyclopentene. 2012 , 36, 16-21	3
244	Metal Deposition Selectivity Based on Photochromism of Diarylethene Film in Intermediate Vacuum. 2011 , 50, 081602	5
243	An Exceptional Thermally Induced Four-State Nonlinear Optical Switch Arising from Stepwise Molecular Dynamic Changes in a New Hybrid Salt.	1
242	Hybrid Molecules Based on Fullerene C ₆₀ and Dithienylethenes. Synthesis and Photochromic Properties. Optically Controlled Organic Field-Effect Transistors. 2021 ,	0
241	3D-Boronic Ester Architectures: Synthesis, Host-Guest Chemistry, Dynamic Behavior, and Supramolecular Catalysis. 2021 ,	1
240	Synthesis and Characterization of Bisthienylethene-Porphyrin Photoswitchable Copolymers. 2021 , 2021, 6636	

- 239 Photoinduced 6E Electrocyclization of a 1,3,5-Hexatriene System Containing an Allomaltol Fragment. **2021**, 86, 15345-15356 4
- 238 An Exceptional Thermally Induced Four-State Nonlinear Optical Switch Arising from Stepwise Molecular Dynamic Changes in a New Hybrid Salt. **2021**, 6
- 237 Topology-transformable block copolymers based on a rotaxane structure: change in bulk properties with same composition. **2021**, 12, 6175 2
- 236 Ring opening reaction dynamics of a photochromic diarylethene derivative. **2002**,
- 235 Materials and devices for ultrafast molecular photonics. **2003**, 105-131
- 234 The interaction of 1,2-bis(2,5-dimethylthienyl-3)-2-hydroxyethanone-1 with sulfur-containing nucleophiles. **2003**, 148
- 233 Ring Opening Reaction Dynamics of a Photochromic Diarylethene Derivative. **2003**, 456-458
- 232 Cyclization of Stilbene and its Derivatives. **2003**,
- 231 Comparison between Reactions Induced by UV/Vis Photons and Ionizing Radiation in Hydrocarbon-like Media. **2003**,
- 230 Photochromic Nitrogen-Containing Compounds. **2003**,
- 229 Photochromism of Diarylethene Derivatives. **2003**,
- 228 Fast Responsive Liquid Crystalline Polymer Systems. **2004**,
- 227 Study on the photo-induced refractive index change of diarylethene derivative using fiber-to-planar waveguide coupler. **2004**, 15, 109-113
- 226 Two-photon absorption recording in photochromic materials using laser diode. **2006**, 34, S11-S12
- 225 . **2007**, 61, 741-743
- 224 1,2-Bis[5-(2,2'-dicyano-vinyl)-2-n-pentyl-3-thien-yl]-3,3,4,4,5,5-hexa-fluoro-cyclo-pent-1-ene: a new photochromic diaryl-ethene compound. **2008**, 64, o517 1
- 223 1-(2-Chloro-phen-yl)-2-(2-methyl-5-phenyl-3-thien-yl)-3,3,4,4,5,5-hexa-fluoro-cyclo-pent-1-ene: a new photochromic diaryl-ethene. **2008**, 64, o1028
- 222 3,3,4,4,5,5-Hexa-fluoro-1,2-bis-[5-(2-fluoro-4'-undecyl-oxybiphenyl-4-yl)-2-methyl-3-thien-yl]cyclo-pentene. **2008**, 64, o962

- 221 Environmental Photo(electro)catalysis: Fundamental Principles and Applied Catalysts. **2010**, 371-442 1
- 220 3-(4-(3,3,4,4,5,5-Hexafluoro-2-[5-(3-methoxy-phen-yl)-2-methyl-3-thien-yl]cyclo-pent-1-en-yl)-5-methyl-2-thien-yl)benzoic acid. **2009**, 65, o2352
- 219 Femtosecond Molecular Photocrystallography. **2010**,
- 218 Light Energy Induced Fluorescence Switching Based on Novel Photochromic Nucleosides. **2010**, 186-190
- 217 Computational Molecular and Material Design. **2010**, 9, 61-66
- 216 Amplitude and Phase Holographic Optical Elements in Diarylethene-based Photochromic Polymers. **2011**,
- 215 Metal Deposition Selectivity Based on Photochromism of Diarylethene Film in Intermediate Vacuum. **2011**, 50, 081602 3
- 214 CHAPTER 13:Quantum Aspects. **2012**, 316-335
- 213 CHAPTER 11:History-dependent Systems. **2012**, 285-301
- 212 CHAPTER 7:Double InputSingle Output Systems. **2012**, 114-194
- 211 CHAPTER 5:Single InputSingle Output Systems. **2012**, 50-108
- 210 CHAPTER 10:More Complex Systems. **2012**, 228-284
- 209 Photoinduced Reversible Topographical Changes on Diarylethene Microcrystalline Surface with Wetting Property. **2013**, 41-60
- 208 Photoinduced Alignment and Structuring in Thin Films of Azobenzene-Containing Liquid Crystalline Polymers. **2013**, 79-99
- 207 Photochromic Polymers. **2013**, 1-10
- 206 Selective Metal Deposition Based on Photochromism of Diarylethenes. **2013**, 61-77
- 205 Photochromism of Organic Compounds Undergoing Isomerization Around the C=C Double Bond and/or Intramolecular Hydrogen Atom Transfer: Small and Large Structural Change. **2013**, 247-271
- 204 Encyclopedia of Polymeric Nanomaterials. **2013**, 1-9

203 Photochromic Organometallics: Redox-Active Iron and Ruthenium Complexes with Photochromic DTE Ligand. **2013**, 205-224

202 Functional Imaging Based on Molecular Control. 267-325

201 Tuning of isomerization rates in indigo-based photoswitches. **2014**,

200 Crystalline-State Photoreactions: Direct Observation of Reaction Processes and Metastable Intermediates. **2014**, 1-4

1

199 Prospects of Molecular Scale Logic Gates and Logic Circuits. **2015**, 167-186

198 Development and Application of Extended π -Conjugated Functional Materials for Solution-Processed Organic Devices. **2015**, 73, 1232-1244

197 Femtosecond transient absorption spectroscopy of photochromic diarylethene derivatives. **2015**, 57-63

196 Light-Driven Molecular Crystal Actuators: An Approach to Molecular Machinery. **2016**, 74, 1217-1224

0

195 Development of Methods for Construction of Heterocyclic Frameworks by Photochemical Activation of Molecules. **2016**, 74, 360-371

194 Linear and Nonlinear Optical Molecular Switches Based on Photochromic Metal Complexes. **2017**, 363-384

1

193 Turn-On Mode Fluorescent Diarylethenes. **2017**, 117-131

2

192 Photochromism of Pentaarylbiimidazoles and Phenoxy-Imidazolyl Radical Complexes. **2017**, 153-167

191 Polyfunctional Photochromic Magnetic Materials Based on 3D Metal (Tris) Oxalates. **2017**, 261-284

190 Synthesis of Novel Diarylethenes Bearing Naphthalimide Moiety and Photochromic Fluorescence Behaviors. **2017**, 4, 25-25

2

189 Photo-responsive Dynamic Molecular Catalyst for Spatiotemporal Control of Chemical Reactions. **2018**, 227-245

188 Research and Application Progress of Photochromic Materials. **2018**, 07, 139-146

187 Exotic Functions of Flexible Coordination Polymer Crystals. **2018**, 71, 30-38

186 Perarylation as a Strategy Toward Aggregation-Induced Emitters: Will They Ever Be Stable?. **2019**, 1-25

- 185 Selective Metal-vapor Deposition on Photochromic Diarylethene Surfaces. **2019**, 62, 411-415
- 184 Investigation of Photochromic Fluorescence Features and Synthesis of Diarylethene Type Naphthalimide Compounds. 97-106
- 183 Biomimetic Functions by Microscopic Molecular Reactions in Macroscopic Photoresponsive Crystalline System. **2020**, 405-425
- 182 Solid-State Fluorescence Switching Using Photochromic Diarylethenes. **2020**, 299-323
- 181 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
- 180 Optically induced crossover from weak to strong coupling regime between surface plasmon polaritons and photochromic molecules. **2020**, 28, 26509-26518 2
- 179 Effect of incorporation of silole and phosphole heterocycles into photoswitchable diarylethenes. **2021**, 957, 122151
- 178 Advanced Control of Photochemical Reactions Leading to Synergetic Responses in Molecules and Mesoscopic Materials. **2020**, 3-27 0
- 177 Two [Ln] molecular rings folded as compact tetrahedra. **2020**, 49, 7182-7188 1
- 176 Repurposing aromaticity for organic electronics: Making, breaking, and stacking π circuits. **2021**, 68, 51-58
- 175 6-Arylcoumarin as a Scaffold of Photofunctional Molecules with OFF-ON-OFF Type Regulation. **2021**, 86, 2264-2270
- 174 Exciton dissociation in quantum dots connected with photochromic molecule bridges.
- 173 Photosynergetic Enhancement of Photosensitivity of Photochromic Terarylenes. **2020**, 241-252
- 172 Creation of Molecularly Integrated Multi-responsive Photochromic Systems. **2020**, 253-273
- 171 Photocyclization Dynamics of Diarylethene. **2020**, 91-104
- 170 Giant Amplification of Fluorescence Quenching in Photochromic Nanoparticles and Crystals. **2020**, 361-374
- 169 Photoresponsive Molecular Crystals for Light-Driven Photoactuators. **2020**, 427-447
- 168 Light-gated binding in double-motorized porphyrin cages.

- 167 Diarylethenes in Optically Switchable Organic Light-Emitting Diodes: Direct Investigation of the Reversible Charge Carrier Trapping Process. 2101116 1
- 166 Crystal structure of 4-(2-(benzo[b]thiophen-2-yl)-3,3,4,4,5,5-hexafluorocyclopent-1-en-1-yl)-1,5-dimethyl-1H-pyrrole-2-carbonitrile, C₂₀H₁₂F₆N₂S. **2020**, 235, 1457-1459
- 165 Substituent position effect on photochromic properties of aldehyde-functionalized dithienylethenes. **2020**, 712, 24-30
- 164 Mono- and polychromatic light diarylethene-actinometer for the visible range. **2022**, 198, 109942 1
- 163 Recent advances in crystalline hybrid photochromic materials driven by electron transfer. **2022**, 452, 214304 24
- 162 Energy Storage upon Photochromic 6- π Photocyclization and Efficient On-Demand Heat Release with Oxidation Stimuli. **2021**, 12, 11391-11398 0
- 161 Crystal structure of 1-(2-methylphenyl)-2-(2-methylbenzo[b]thienyl)-3,3,4,4,5,5-hexafluorocyclopent-ene, C₂₁H₁₄F₆S. **2021**,
- 160 Molecular Approach to Engineer Two-Dimensional Devices for CMOS and beyond-CMOS Applications. *Chemical Reviews*, **2021**, 68.1 7
- 159 Quantum Molecular Devices Toward Large-Scale Integration. **2022**, 181-195
- 158 Donor-acceptor type NIR dithienylethene with aggregation-induced emission for multi-state photochromic behavior. **2022**, 199, 110055 2
- 157 A high selective chemosensor for detection of Al³⁺ based on diarylethene with a hydrazide unit. **2022**, 425, 113718 2
- 156 A convenient approach for the synthesis of substituted pyrroles by using phosphoric acid as a catalyst and their photophysical properties. **2022**, 1252, 132123 1
- 155 Light-Heat and Light-Light Dual-Controlled Upconversion Luminescence and Photochromic Processes in Er-Activated Bi₇Ti₄NbO₂₁ for Optical Information Storage. 1
- 154 Electronic transport behavior of 4,6-bis(4-nitrophenyl)-2-phenyl-3,5-diaza-bicyclo[3.1.0]hex-2-ene (a bicyclic aziridine) as optical molecular switch: a first-principles approach. **2022**, 21, 61
- 153 Ein DNA-basierter exzitonischer Zweikomponenten-Schalter auf der Grundlage von Hochleistungs-Diarylethenen.
- 152 Visible-light switching of metallosupramolecular assemblies.. **2022**, 2
- 151 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
- 150 Homoconjugation in triptycenes: an inquiry through photochromism. **2022**, 46, 1416-1422 1

- 149 Reversible Near-Infrared Fluorescence Photoswitching in Aqueous Media by Diarylethene: Toward High-Accuracy Live Optical Imaging.. **2022**, e2103523 1
- 148 Photo-switchable molecular wire-based organic electronic devices. **2022**, 77-101
- 147 Photocontrolled multiple-state photochromic benzo[b]phosphole thieno[3,2-b]phosphole-containing alkynylgold(I) complex via selective light irradiation.. **2022**, 13, 33 4
- 146 Photoresponsive DNA materials and their applications.. **2022**, 8
- 145 Microstructures and Luminescent Properties of Sm³⁺-Doped K₂Sr₂Nb₅O₁₅ Prepared by Molten Salt Synthesis Method. 2100738
- 144 A DNA-based two-component excitonic switch utilizing high-performance diarylethenes.. **2022**, 3
- 143 Photooxidation of IR -820 by Calixpyridinium-Induced Assembled Material and Its pH-Controlled Visual Multicolor Luminescence. 2
- 142 Photochromic materials as a photosensitizer in reversible reactive singlet oxygen generation. **2022**, 199, 110104 1
- 141 Potential photo-switching sorbents for CO₂ capture [A review]. **2022**, 158, 112079 3
- 140 Designing photochromic materials with high photochromic contrast and large luminescence modulation for hand-rewritable information displays and dual-mode optical storage. **2022**, 435, 134670 3
- 139 In-situ crystal structure analysis and control of photochromism with dual-mode photoreactive soft crystals. **2022**, 51, 100480 0
- 138 A novel photochromic hetarylalkylideneisocromandione system. **2022**, 427, 113793
- 137 Stimuli-Modulated Metal Oxidation States in Photochromic MOFs.. **2022**, 2
- 136 Future-oriented Advanced Diarylethene Photoswitches: From Molecular Design to Spontaneous Assembly Systems. **2021**, e2108289 8
- 135 Terphenylthiazole-based self-assembled monolayers on cobalt with high conductance photo-switching ratio for spintronics.. **2022**, 0
- 134 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
- 133 Photochromic dithienylethene-containing four-coordinate boron(III) compounds with a spirocyclic scaffold.. **2022**, 0
- 132 Small-molecule ambipolar transistors.. **2022**, 3

- 131 Photoswitchable architecture transformation of a DNA-hybrid assembly at the microscopic and macroscopic scale.. **2022**, 13, 3263-3272 2
- 130 Photochromic properties in a head coupled ruthenium complex with dithienylethene-ethynylthiophene. 1-11
- 129 Photoinduced Annulation of N -Phenylbenzamides for the Synthesis of Phenanthridin-6(5 H)-Ones. **2022**, 364, 1150-1155 2
- 128 Design and Study of a Photo-Switchable Polymeric System in the Presence of ZnS Nanoparticles under the Influence of UV Light Irradiation.. **2022**, 14, 2
- 127 Intriguing Second-Order NLO Switches Based on New DTE Compounds. 0
- 126 Hemithioindigo-Based Trioxobicyclononadiene: 3D Multiswitching of Electronic and Geometric Properties.. **2022**, 0
- 125 Photo-electrochromic salt composed by viologen cation and diarylethene anion derivatives. 1
- 124 Fatigue resistance of photochromic diarylethene in the presence of cyclodextrins with different pore sizes. 0
- 123 Smart Photochromic Materials Triggered with Visible Light. 2
- 122 Chromogenic Materials, Photochromic. 1-33
- 121 Molecular-Switch-Embedded Organic Photodiode for Capturing Images Against Strong Backlight.. **2022**, e2200526 0
- 120 Theoretical Comparison of a Longitudinal versus a Transverse Transport Path through Diarylethene Molecular Switches. **2022**, 126, 5675-5681
- 119 Photo-Enhanced-Coordination Triggered Unprecedented Bistable AIE for Long-Term Optical Memories. 2200130 2
- 118 Effect of Electron Donating/Withdrawing Groups on Molecular Photoswitching of Functionalized Hemithioindigo Derivatives: a Computational Multireference Study. 0
- 117 Solvent dependence of ESIPT process in 2-(2-carbonmethoxy-3,4-dichloro-6-hydroxyphenyl) compounds. **2022**, 354, 118807 1
- 116 Rational design of state-depending photoactivatable and photoconvertible fluorescent AIEgens through a rapid photocyclodehydrogenation reaction. **2022**, 201, 110235 1
- 115 Electron transfer photochromism of Ln-based (Ln = Dy, Tb) coordinated polymers for reversibly switching off/on single-molecule magnetic behavior. **2022**, 65, 788-794 1
- 114 Synthesis and manifold but controllable emission switching of stilbene-appended polyaromatic terpyridine derivatives via aggregation and trans-cis isomerization. **2022**, 113966 0

- 113 Synthesis and Photochromic Reaction of 6,6-Bis(diarylethen-yl)-1,1'-binaphthyl-2,2'-diether.
- 112 Photoinduced 6 π -Electrocyclization of 1,3,5-hexatriene system containing allomaltol fragment: A convenient approach to polycondensed pyrrole derivatives. **2022**, 132780 1
- 111 Data_Sheet_1.pdf. **2019**,
- 110 Optical manipulation of third-harmonic generation via either one- or two-photon excitation in diarylethene-polymethylmethacrylate polymer thin films. **2005**, 80, 569
- 109 Towards real-world applications: promoting fast and efficient photoswitching in the solid state. 3
- 108 Multiwavelength-Controlled Multicolor Photochromism and Fluorescence Switch Based on an Efficient Photocyclization Reaction by Introducing Two Photoactive Subunits into AIEgens. 1
- 107 On-surface Synthesis of Mn-Phthalocyanines with optically active ligands.
- 106 Photochromic materials. **2022**,
- 105 Providing theoretical insight into the role of symmetry in the photoisomerization mechanism of a non-symmetric dithienylethene photoswitch.. **2022**, 0
- 104 Smart dielectric materials for next-generation electrical insulation. **2022**, 1, 19-49 3
- 103 Effects of substitution and conjugation on ESIPT behavior of Schiff base derivatives. **2022**, 121377 0
- 102 Stepping Out of the Blue: From Visible to Near-IR Triggered Photoswitches. 0
- 101 Stepping Out of the Blue: From Visible to Near-IR Triggered Photoswitches.. **2022**, 3
- 100 Domain memory effect in the organic ferroics.. **2022**, 13, 2379 2
- 99 Contactless Manipulation of Write-Read-Erase Data Storage in Diarylethene Ferroelectric Crystals.. **2022**, 8
- 98 Visible-light-triggered fluorescence Turn-on Diarylethenes: Computational molecular design and photophysical studies. **2022**, 248, 118973 0
- 97 Electric Properties of Photochromic Molecules Physisorbed on Silver and Copper Nanoparticles.. **2022**, 0
- 96 A study of the photochemical behavior of terarylenes containing allomaltol and pyrazole fragments. 18, 588-596 3

- 95 A bis(fluorenyl-triazole)-conjugated naphthoquinoline-dione probe for a cascade detection of Cu²⁺ and F⁻ and its logic circuit with a memory unit. **2022**, 114048
- 94 Mechanism of hydride abstraction in the electrocyclic phototransformation of heterostilbene. **2022**, 32, 374-376
- 93 Physicochemical Aspects of Photoswitching. **2022**, 1-18
- 92 Computational Methods and Photochromism. **2022**, 19-37
- 91 Fulgides and Fulgimides. **2022**, 177-192
- 90 Photomechanical Performance of Diarylethene Single Crystals. **2022**, 679-693
- 89 Molecular Switches as Building Blocks for DNA and RNA. **2022**, 973-986
- 88 Diarylethenes [Molecules with Good Memory]. **2022**, 151-175
- 87 Photochromism of Coordination Compounds. **2022**, 425-453
- 86 Photoinduced 6 π Electrocyclization of 2,5-Dichlorothiophene Containing Benzofuranylacrylonitriles as Efficient Method For the Generation of Hydrogen Chloride.
- 85 Photo-induced 6 π Electrocyclisation and cycloreversion of isolated dithienylethene anions.
- 84 Photochromic Reactions in Coordination Compounds. **2022**, 547-579
- 83 Tetrathienyl corannulene compounds with highly sensitive photochromism. 1
- 82 A multi-stage single photochrome system for controlled photoswitching responses. 1
- 81 Amplifying Molecular Scale Rotary Motion: The Marriage of Overcrowded Alkene Molecular Motor with Liquid Crystals. 2109800
- 80 Electrical transport and NDR property on the cis-trans photo-isomerization of (1R,3S)-2,2-dimethyl-3-(2-methylprop-1-en-1-yl)cyclopropanecarboxylate as an optical molecular switch; A DFT-NEGF study. **2022**, 139818
- 79 Cyanostilbene-functionalized dithienylethenes with aggregation -induced emission for photoswitching behavior in multi-media. **2022**, 250, 119061
- 78 Nonaromatic amine containing Dibenzo[b,d]thiophene donor for D-A type visible-light-driven fluorescence turn-on diarylethenes. **2022**, 110571

- 77 A Brief Review on Advances in Rhodamine B Based Chromic Materials and Their Prospects. 2
- 76 Effects of Twisted Intramolecular Charge Transfer Behavior on Excited-State Intramolecular Proton Transfer Reactions of Methyl Benzoate Derivatives in Water Solution. **2022**, 126, 5126-5133 0
- 75 Ultrafast Dynamics of a Molecular Switch from Resonance Raman Spectroscopy: Comparing Visible and UV Excitation. 1
- 74 Phototunable golden luster microcrystalline film of photochromic diarylethene.
- 73 Molecular-switch-embedded Solution-processed Semiconductors. 2203401 0
- 72 2,5-Diaryl 6-hydroxyphenalenones for Single Molecule Junctions.
- 71 Modulating the Photocyclization Reactivity of Diarylethenes through Changes in the Excited-State Aromaticity of the Linker. 0
- 70 All-Visible (>500 nm)-Light-Induced Diarylethene Photochromism Based on Multiplicity Conversion via Intramolecular Energy Transfer. **2022**, 13, 7429-7436 0
- 69 Photoinduced 6 π electrocyclization of 2,5-dichlorothiophene containing benzofuranylacrylonitriles as efficient method for the generation of hydrogen chloride. 0
- 68 Investigation of photochemical behavior of furan derivatives containing an allomaltol fragment. **2022**, 124, 133012 2
- 67 Unsymmetrical benzothiazole-based dithienylethene photoswitches. **2022**, 24, 23758-23768 0
- 66 Suppression of Reversible Photocyclization Reaction Induced Fluorescence Enhancement: A Theoretical Study. 0
- 65 Light- and temperature-responsive polymeric micelles for drug delivery. **2022**, 395-407 0
- 64 Recent advances utilized in artificial switchable catalysis. **2022**, 12, 23595-23617 0
- 63 Modulation of conductance using light-induced morphological change of a layered structure. 0
- 62 Novel pyrazolyazoindole derivatives as photoswitches: design, synthesis, and photoswitching behavior research combined with theoretical methods. **2022**, 46, 18316-18325 0
- 61 E/Z photoisomerization pathway in pristine and fluorinated di(3-furyl)ethenes. **2022**, 24, 23749-23757 0
- 60 White light emission generated by two stacking patterns of a single organic molecular crystal. **2022**, 3, 6466-6473 0

59	Super-resolution vibrational imaging based on photoswitchable Raman probe.	0
58	Optically Switchable NIR Photoluminescence of PbS Semiconducting Nanocrystals using Diarylethene Photoswitches. 2022 , 144, 17758-17762	0
57	SUPRAMOLECULAR COMPOUNDS FORMED BY METAL-ORGANIC FRAMEWORKS AND ORGANIC PHOTOCROMES. REVIEW. 2022 , 63, 1453-1483	0
56	Photochemically Enhanced Emission by Introducing Rational Photoactive Subunits into an Aggregation-Induced Emission Luminogen.	0
55	Tautomeric Passivation Strategy-Assisted Photostable Perovskite Solar Modules. 3646-3652	1
54	Phototunable Absorption and Nonlinear Optical Properties of Thermally Stable Dihydroazulene/Vinylheptafulvene Photochrome Pair.	0
53	Photochemical Mechanisms of Fluorophores Employed in Single-Molecule Localization Microscopy.	3
52	Steering the Ultrafast Opening and Closure Dynamics of a Photochromic Coordination Cage by Guest Molecules.	0
51	Synthesis of vanadium oxide nanostructures with excellent thermochromic properties via sol-gel chemistry in supercritical carbon dioxide. 2022 ,	0
50	Steering the Ultrafast Opening and Closure Dynamics of a Photochromic Coordination Cage by Guest Molecules.	3
49	Photochemical Mechanisms of Fluorophores Employed in Single-Molecule Localization Microscopy.	0
48	Low-Coordinate Erbium(III) Single-Molecule Magnets with Photochromic Behavior.	0
47	Synthesis and photoswitching behavior of donor-acceptor type dithienylethene derivatives modified by diestervinyl moieties. 2022 , 207, 110781	0
46	Thermomechanical Energy Converters for Harvesting Thermal Energy: A Review. 2022 , 1-46	0
45	First-principle study on the electronic transport properties of 1,2-bis(2,4-dimethyl-5-phenyl-3-thienyl)perfluorocyclopentene (a diarylethene) as an optical molecular switch.	0
44	Photochromic, fluorescence modulation and inkless printing of a zinc(II) inorganic-organic hybrid material based on 2,3-pyridinecarboxylic acid. 2022 , 116187	0
43	Light-Stimulated Luminescence Control of Lead Halide-Based Perovskite Nanocrystals Coupled with Photochromic Molecules via Electron and Energy Transfer. 2205046	0
42	Stimuli-responsive platinum and ruthenium complexes for lung cancer therapy. 13,	0

41	Photoresponsive Supramolecular Polymers: From Light-controlled Small Molecules to Smart Materials. 2204413	1
40	Enhanced Sampling Aided Design of Molecular Photoswitches. 2022 , 144, 19265-19271	0
39	Correlation between Absorption and Substitution of Photochromic 1,2-Bis(thienyl)ethenes (BTEs) Using Modified Spectroscopic Hammett Equations.	0
38	Dithienylethene-Containing Cyclometalated Platinum(II) Complexes with Tunable Photochromic and Photophysical Properties.	0
37	Sterically Hindered Diarylethenes with a Benzobis(thiadiazole) Bridge: Enantiospecific Transformation and Reversible Photosuperstructures. 2022 , 55, 3136-3149	4
36	Photoinduced movement; how photoirradiation induced the movements of matter.	0
35	First-principle study of the current voltage on the diketones with alkyl and methoxy groups at the beta position as molecular switches. 2022 , 809, 140152	0
34	Two new Zinc (II)-viologen coordination polymers: Syntheses, structures, and photochromic behaviors. 2023 , 1273, 134315	1
33	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
32	Altering the Properties of Spiropyran Switches Using Coordination Cages with Different Symmetries.	1
31	Order recognition by Schubert polynomials generated by optical near-field statistics via nanometre-scale photochromism. 2022 , 12,	0
30	Phenazine-Based Oligomers as Redox-Responsive Molecular Actuators.	1
29	Nonadiabatic molecular dynamics study of a complete photoswitching cycle for a full-size diarylethene system. 2023 , 438, 114513	0
28	Emission modulation of fluorescent turn-on mode dibenzothienyl sulfonyl ethene photoswitches embedded in a polymer film. 2022 , 24, 29791-29800	0
27	Influence of Triptycene Annulation on the Photochromism of Diphenylnaphthopyrans: Entropic Control of Thermal Reversion.	0
26	Excited-state resonance Raman spectroscopy probes the sequential two-photon excitation mechanism of a photochromic molecular switch. 2022 , 157, 234302	0
25	Diarylethene isomerization using triplet-triplet annihilation photon upconversion.	0
24	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

- 23   **2022**, 53-58 ○
- 22 Non-volatile optical memory based on cooperative orientation switching: improvement of recording speed and contrast by utilizing out-of-plane orientation mode. ○
- 21 Investigations into oxidation induced ring opening of terarylenes containing extended thieno[b]thiophene units. ○
- 20 Optical control of alignment and patterning in an azobenzene liquid crystal photoresist. ○
- 19 Photoactive Multinuclear Metal-Containing Polymeric Systems. **2012**, 199-244 ○
- 18 Photorelease Reaction Mechanism Study of a Diarylethene Caged Dual Functions Compound. **2023**, 14, 2119-2124 ○
- 17 Solid-State Luminescent Molecular Photoswitches. ○
- 16 Dihydropyrene/Cyclophanediene Photoswitching Mechanism Revisited with Spin-Flip Time-Dependent Density Functional Theory: Nature of the Photoisomerization Funnel at Stake!. **2023**, 127, 2921-2935 ○
- 15 Cocrystals for photochemical solid-state reactions: An account on crystal engineering perspective. **2023**, 483, 215095 ○
- 14 Broadband multispectral compatible absorbers for radar, infrared and visible stealth application. **2023**, 135, 101088 3
- 13 Synthesis, characterization and emission switching behaviors of styrylphenyl-conjugated Ru(II)-terpyridine complexes via aggregation and trans is photoisomerization. **2023**, 440, 114662 ○
- 12 High-contrast photochromic properties with reversible luminescence modulation behaviors in Ba₃MgSi₂O₈:Sm³⁺ ceramics. **2023**, 258, 119800 ○
- 11 Photochromic Materials. **2016**, 287-315 ○
- 10 Substratverankerte Diarylethen-basierte Filme aus metallorganischem Gerüst als gerichtete Photoaktoren. ○
- 9 Substrate-Bound Diarylethene-Based Anisotropic MetalOrganic Framework Films as Photoactuators with a Directed Response. ○
- 8 Tuning the photochemical ring-closing reaction efficiency in diarylethene-based photoswitches through engineering of internal charge transfer. **2023**, 25, 7741-7749 ○
- 7 Separation of diarylethene-based photoswitchable isomeric compounds by high-performance liquid chromatography and supercritical fluid chromatography. 2200830 ○
- 6 Recent progress in polyoxometalate-organogen photochromic hybrids: structural design, photochromic mechanism, and applications. **2023**, 10, 1965-1985 ○

- 5 Luminescent Mechanochromism and the Photosalient Effect of Aryl Gold(I) Isocyanide Complexes. **2023**, 53-85 ○
- 4 Photo- and Ionochromic Diarylethenes with Receptor Fragments in the Thiazole Bridge. **2023**, 93, 278-285 ○
- 3 Phototunable Cell Killing by Photochromic Diarylethene of Thiazoyl and Thienyl Derivatives. ○
- 2 Recent Progress in Photoresponsive Biomaterials. **2023**, 28, 3712 ○
- 1 Multifunctional fluorescent diarylethene: time-resolved study of photochemistry. ○