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Three-Dimensional Optical Data Storage Using Photochromic Materials

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|------|--|-----|-----------|
| 1291 | Three-dimensional imaging analysis of confocal and conventional polarization microscopes by use of Mie scattering theory. <i>Applied Optics</i> , 2000 , 39, 6369-73 | 1.7 | 3 |
| 1290 | Thermal Reversion Mechanism of N-Functionalized Merocyanines to Spiropyrans: A Solvatochromic, Solvatokinetic, and Semiempirical Study. 2000 , 104, 9046-9055 | | 111 |
| 1289 | Photochemical Control of the Macroconformation of Polystyrene Using Azobenzene Side Chains. 2000 , 33, 9173-9175 | | 22 |
| 1288 | Reversible surface morphology changes of a photochromic diarylethene single crystal by photoirradiation. 2001 , 291, 1769-72 | | 516 |
| 1287 | Improved synthesis of indolyl fulgides. <i>Journal of Organic Chemistry</i> , 2001 , 66, 1914-8 | 4.2 | 34 |
| 1286 | 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 |
| 1285 | Controlled multi-stage recognition of guests using orthogonal electro- and photochemical inputs. 2001 , 123, 6213-4 | | 28 |
| 1284 | Conformational switching and exciton interactions in hemicyanine-based bichromophores. 2001 , 123, 7859-65 | | 62 |
| 1283 | Modulation of the Spiropyran-Merocyanine Reversion via Metal-Ion Selective Complexation: Trapping of the Transient Cis-Merocyanine. 2001 , 13, 2547-2551 | | 107 |
| 1282 | Synthesis and photochromic properties of 1,2-dicyano[2.n]metacyclophan-1-enes. 2001 , 42, 4345-4347 | | 17 |
| 1281 | Photoswitchable architectural polymer: Toward azo-based polyamidoamine side-chain dendritic polyester. 2001 , 39, 4182-4188 | | 13 |
| 1280 | Molecular Memory and Processing Devices in Solution and on Surfaces. 2001 , 237-281 | | 27 |
| 1279 | Three-dimensional optical data storage using three-dimensional optics. 2001 , 40, 2247 | | 7 |
| 1278 | Volume Holographic Device for Spherical Aberration Correction and Parallel Data Access in Three-Dimensional Memory. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, 1796-1797 | 1.4 | 3 |
| 1277 | Polymeric nanostructured material for high-density three-dimensional optical memory storage. <i>Journal of Applied Physics</i> , 2001 , 90, 5328-5334 | 2.5 | 55 |
| 1276 | Nonoptically probing near-field microscopy for the observation of biological living specimens. 2001 , 78, 2247-2249 | | 13 |
| 1275 | Analysis of the scattered light distribution of a tightly focused laser beam by a particle near a substrate. <i>Journal of Applied Physics</i> , 2001 , 89, 5876-5880 | 2.5 | 12 |

1274 Laser creating precise three-dimensional image of object inside glass. **2002**, 4915, 259

1273 Novel 3D multilayered waveguide memory. **2002**, 6

1272 Mesomorphic properties of 2-acyloxy-5-(4-alkoxyphenylazo)tropones, 2-acyloxy-5-(4-alkylphenylazo)tropones, and 2-acyloxy-5-(4-alkoxycarbonylphenylazo)tropones. *Liquid Crystals*, **2002**, 29, 1539-1545 2.3 3

1271 Three-dimensional observation of internal defects in semiconductor crystals by use of two-photon excitation. *Optics Letters*, **2002**, 27, 297-9 3 13

1270 Three-dimensional focal spots related to two-photon excitation. **2002**, 80, 3673-3675 145

1269 Use of polarization sensitivity for three-dimensional optical data storage in polymer dispersed liquid crystals under two-photon illumination. **2002**, 81, 1160-1162 25

1268 Electronic and Optical Transduction of Photoisomerization Processes at Molecular- and Biomolecular-Functionalized Surfaces. **2002**, 219-268 21

1267 Photochemistry of Anils in NaY Zeolite. **2002**, 2002, 2074 33

1266 Synthesis and Study of an N,N-Disubstituted 4-[(4-Aminophenyl)diazenyl]benzaldehyde. **2002**, 85, 108-114 11

1265 A comparison of supercritical carbon dioxide and organic solvents for the intercalation of 4-phenylazoaniline into a pillared clay mineral. **2002**, 254, 250-6 13

1264 Synthesis and photochromic behaviour under flash photolysis and continuous irradiation of novel 2H-chromenes derived from hydroxydibenzothiophenes. **2002**, 58, 1709-1718 20

1263 Synthesis and molecular structure of chiral metallo-based sterically overcrowded alkenes. **2002**, 58, 2183-2188 6

1262 Azo- and quinone-conjugated redox complexes: photo- and proton-coupled intramolecular reactions based on d π - π interaction. **2002**, 226, 125-135 83

1261 Methylacrylate polymers with photochromic side chains containing heterocyclic sulfonamide substituted azobenzene. **2002**, 38, 1871-1879 34

1260 Photoinduced Pyridine Cleavage-Closure in Viscous Polymer Solutions. **2002**, 12, 219-224 4

1259 Synthesis and application on parallel image storage of bisfurylfulgide. **2003**, 46, 445

1258 Refractive index modulation in polymeric photochromic films. **2003**, 1, 137-159 7

1257 Synthesis and spectral investigations of a new dyad with spiropyran and fluorescein units: toward information processing at the single molecular level. *Journal of Organic Chemistry*, **2003**, 68, 5681-7 4.2 87

| | | |
|------|--|--------|
| 1256 | Optical Storage Media with Dye-Doped Minute Spheres on Polymer Films. 2003 , 10, 262-266 | 8 |
| 1255 | Synthesis of New Thiophene-Substituted 3,3-Diphenyl-3H-naphtho[2,1-b]pyrans by Cross-Coupling Reactions, Precursors of Photomodulated Materials. 2003 , 2003, 2799-2812 | 34 |
| 1254 | Synthesis and Photochromism of Novel Chromene Derivatives Bearing a Monoazacrown Ether Moiety. 2003 , 2003, 2437-2442 | 23 |
| 1253 | Photoresponsive supramolecular systems: self-assembly of azodibenzoic acid linear tapes and cyclic tetramers. <i>Chemistry - A European Journal</i> , 2003 , 9, 4771-80 | 4.8 79 |
| 1252 | Surface plasmon resonance spectroscopic comparison of spiroxazine monolayer and polymeric thin film. 2003 , 90, 3459-3465 | 5 |
| 1251 | Synthesis and photochromic reactivity of a diarylethene dimer linked by a phenyl group. 2003 , 59, 8359-8364 | 84 |
| 1250 | A novel non-destructible readout molecular memory. 2003 , 223, 61-66 | 32 |
| 1249 | Chromened t-butylcalix[4]arenes: cooperation effect of chromene and calixarene moieties on photochromism and metal-ion binding ability. 2003 , 59, 4135-4142 | 10 |
| 1248 | Reduction of azobenzene by neodymium(II), dysprosium(II), and thulium(II) diiodides. 2003 , 682, 218-223 | 26 |
| 1247 | Photochromism and holographic recording in polymer film containing chiral azo molecules derived from amino acid. 2003 , 22, 187-192 | 16 |
| 1246 | Liquid crystalline polymers. 2003 , 39, 1333-1339 | 21 |
| 1245 | Holographic volume gratings in bulk perylene-orange-doped hybrid inorganic-organic materials by the coherent field of a femtosecond laser. 2003 , 83, 2327-2329 | 12 |
| 1244 | Synthesis and photophysical properties of new two-photon absorption chromophores containing a diacetylene moiety as the central bridge. 2003 , 13, 1575-1581 | 86 |
| 1243 | Multicolor photochromism of two- and three-component diarylethene crystals. 2003 , 125, 11080-7 | 157 |
| 1242 | Kinetics of diffraction gratings formation in a polymer matrix containing azobenzene chromophores: Experiments and Monte Carlo simulations. 2003 , 119, 6789-6801 | 23 |
| 1241 | Aryl-Perfluoroaryl Interaction in Photochromic Diarylethene Crystals. 2003 , 3, 847-854 | 25 |
| 1240 | Syntheses and structures of photochromic silver(I) coordination polymers with cis-1,2-dicyano-1,2-bis(2,4,5-trimethyl-3-thienyl)ethene. <i>Inorganic Chemistry</i> , 2003 , 42, 1928-34 | 5.1 57 |
| 1239 | Synthesis of azo-conjugated metalladithiolenes and their photo- and proton-responsive isomerization reactions. 2003 , 125, 2964-73 | 69 |

1238 Additional Literature Chapter 7 - Diarylethanes. **2003**, A23-A31

1237 Tunable photochromism of spirooxazines via metal coordination. **2003**, 125, 13684-5 102

1236 Photochromism of diarylethenes in nanolayers of a single crystal. *Photochemical and Photobiological Sciences*, **2003**, 2, 1088-94 4.2 24

1235 N,N-Disubstituted-4-aminophenylazostyrylformate derivatives: their synthesis, mesogenic behaviour and photostability. *Liquid Crystals*, **2003**, 30, 1449-1454 2.3 4

1234 Super-resolution by elliptical bubble formation with PtOx and AgInSbTe layers. **2003**, 83, 1701-1703 65

1233 Nonvolatile read-out molecular memory. **2003**, 100, 8109-12 79

1232 Present performance and future directions in two-photon addressed write once read many (WORM) volumetric optical disk storage systems. **2003**, 4988, 93 1

1231 Photo-optical behaviour of a photosensitive chiral nematic copolymer and mixtures containing non-chiral photoactive azobenzene groups. *Liquid Crystals*, **2003**, 30, 671-680 2.3 13

1230 Reversible Change in Optical Rotation by Photochromism of Diarylethenes in the Stretched DNA/Quaternary Ammonium Ion Complex Films. **2003**, 32, 806-807 7

1229 Three-dimensional optical storage. **2003**, 5225, 78 5

1228 Preparation and Holographic Recording of Diarylethene-Doped Photochromic Films. **2003**, 25, 253-257 17

1227 Microexplosion Recording in Spin-Coated Polymer Films Including ZnO Nanoparticles for Three-Dimensional Optical Memory. *Japanese Journal of Applied Physics*, **2004**, 43, 4941-4944 1.4 14

1226 Super Resolution Read Only Memory Disc Using Super-Resolution Near-Field Structure Technology. *Japanese Journal of Applied Physics*, **2004**, 43, 4945-4948 1.4 5

1225 Novel Nondestructive Readout Methods For Near-field Optical Recording with Large Refractive Index Modulation in Amorphous Diarylethene Layer. *Japanese Journal of Applied Physics*, **2004**, 43, 1625-1630 1.4 6

1224 Signal Characteristics of Super-Resolution Near-Field Structure Disk in Blue Laser System. *Japanese Journal of Applied Physics*, **2004**, 43, 4921-4924 1.4 6

1223 Three-dimensional patterned media for ultrahigh-density optical memory. **2004**, 85, 176-178 34

1222 Multi-Mode Molecular Switching Properties and Functions of Azo-Conjugated Metal Complexes. **2004**, 77, 407-428 110

1221 Synthesis and photochromic properties of novel yellow developing photochromic compounds. **2004**, 60, 6155-6161 104

| | | | |
|------|--|------|-----|
| 1220 | Synthesis, crystal structure and two-photon property studies on a series of complexes derived from a novel Schiff base ligand. 2004 , 29, 596-602 | | 15 |
| 1219 | Crystal engineering of photochromic diarylethene single crystals. 2004 , 4, 23-38 | | 82 |
| 1218 | Functionalization of polypropylene film by radiation grafting of acryloyl chloride and subsequent esterification with Disperse Red 1. 2004 , 93, 172-178 | | 15 |
| 1217 | cis/trans photoisomerization of secondary thiopeptide bonds. <i>Chemistry - A European Journal</i> , 2004 , 10, 6093-101 | 4.8 | 26 |
| 1216 | Photochromic fulgide for holographic recording. 2004 , 26, 75-77 | | 93 |
| 1215 | Stable polymeric materials for nonlinear optics: a review based on azobenzene systems. 2004 , 29, 45-74 | | 474 |
| 1214 | Surface plasmon resonance study on the interaction of photochromic spironaphthoxazine with l-phenylalanine in self-assembled monolayers on gold. <i>Dyes and Pigments</i> , 2004 , 62, 93-97 | 4.6 | 6 |
| 1213 | Calculations of the third-order nonlinear optical responses in push-pull chromophores with a time-dependent density functional theory. 2004 , 392, 444-451 | | 38 |
| 1212 | Two-photon absorption activities of symmetric/asymmetric linear molecular systems containing azo and diacetylene moieties as central p-bridge. <i>Molecular Crystals and Liquid Crystals</i> , 2004 , 415, 157-167 | 4.5 | 2 |
| 1211 | 7-trifluoromethylquinoline-functionalized luminescent photochromic spiropyran with the stable merocyanine species both in solution and in the solid state. <i>Journal of Organic Chemistry</i> , 2004 , 69, 8924-8931 | 4.2 | 39 |
| 1210 | Transient Spectroscopic Study of a Non-Kekulé Molecule Generated by Photochemical H-Hydrogen Abstraction of Ethyl 4-Formyl-1,3-dimethylpyrazole-5-carboxylate. 2004 , 108, 578-585 | | 3 |
| 1209 | Molecular Conformation and Structural Changes in Crystalline Photochromism of 3-Furylfulgide. 2004 , 108, 7473-7478 | | 20 |
| 1208 | Semiempirical and Ab Initio Studies of the Structure and Spectroscopy of the Azo Dye Direct Blue 1: Comparison with Experiment. 2004 , 108, 10208-10218 | | 16 |
| 1207 | Static and Dynamic Polarizabilities of Conjugated Molecules and Their Cations. 2004 , 108, 11063-11072 | | 80 |
| 1206 | The Literature of Heterocyclic Chemistry, Part VIII, 1999-2001. 2004 , 87, 1-83 | | 14 |
| 1205 | Near-Field Optical Addressing of Luminescent Photoswitchable Supramolecular Systems Embedded in Inert Polymer Matrices. 2004 , 4, 835-839 | | 29 |
| 1204 | Photo-, thermo-, solvato-, and electrochromic spiroheterocyclic compounds. <i>Chemical Reviews</i> , 2004 , 104, 2751-76 | 68.1 | 757 |
| 1203 | Effect of oligothiophene substituents on the photophysical and photochromic properties of a naphthopyran. <i>Photochemical and Photobiological Sciences</i> , 2004 , 3, 878-85 | 4.2 | 35 |

| | | | |
|------|--|---|-----|
| 1202 | Prediction of Two-Photon Absorption Properties for Organic Chromophores Using Time-Dependent Density-Functional Theory. 2004 , 108, 899-907 | | 169 |
| 1201 | Cross talk in photochemical three-dimensional optical recording. <i>Optics Letters</i> , 2004 , 29, 2055-7 | 3 | 2 |
| 1200 | Two-photon lasing of dye-doped photonic crystal lasers. 2004 , 84, 1632-1634 | | 26 |
| 1199 | Photocontrolled Electron Transfer Reaction between a New Dyad, Tetrathiafulvalene-Photochromic Spiropyran, and Ferric Ion. 2004 , 108, 212-217 | | 29 |
| 1198 | Single-Crystalline Photochromism of a Diarylethene Dimer. 2004 , 77, 945-951 | | 58 |
| 1197 | Complex Formation and Gelation between Copolymers Containing Pendant Azobenzene Groups and Cyclodextrin Polymers. 2004 , 33, 890-891 | | 118 |
| 1196 | Photochromism of Furylfulgide in a Single-crystalline Phase. 2004 , 33, 904-905 | | 13 |
| 1195 | Chapter 24 Nonlinear optical imaging and stimulation of living cells. 2004 , 395-410 | | |
| 1194 | Transient gratings in thin films and bulk azo-dye-containing poly(methyl methacrylate) matrix. 2005 , 5636, 183 | | |
| 1193 | Synthesis of a New Azo Dye Sensor and its Chelation with Ag ⁺ . 2005 , 52, 1201-1204 | | |
| 1192 | Synthesis and spectrokinetic studies of a new family of thiophenic [2H]-chromens. 2005 , 171, 173-180 | | 5 |
| 1191 | Photochromic gratings in sol-gel films containing diazo sulfonamide chromophore. 2005 , 27, 1637-1641 | | 11 |
| 1190 | Calculations of two-photon absorption cross-sections of stilbene and bis (styryl) benzene derivatives by means of TDDFT-SOS method. 2005 , 726, 61-65 | | 18 |
| 1189 | Refractive index modulation in the polyurethane films containing diazo sulfonamide chromophores. 2005 , 479, 288-296 | | 21 |
| 1188 | Selective photoswitching of a dyad with diarylethene and spiropyran units. 2005 , 61, 3719-3723 | | 32 |
| 1187 | Combination of redox- and photochemistry of azo-conjugated metal complexes. 2005 , 249, 1468-1475 | | 100 |
| 1186 | The generic enhancement of photochromic dye switching speeds in a rigid polymer matrix. 2005 , 4, 249-53 | | 208 |
| 1185 | Synthesis and characterization of photochromic star-like liquid crystal. 2005 , 59, 2531-2534 | | 14 |

| | | | |
|------|--|-----|-----|
| 1184 | New development of multilayered optical memory for terabyte data storage. 2005 , 41, 997-1000 | | 2 |
| 1183 | High-density data recording in an optoelectrical dual-responsive thin film. 2005 , 6, 1478-82 | | 12 |
| 1182 | Two-photon photochromism of diarylethene dimer derivatives. 2005 , 6, 2300-6 | | 47 |
| 1181 | A Novel Thermally Stable Spiroanthoxazine and Its Application in Rewritable High Density Optical Data Storage. 2005 , 17, 156-160 | | 141 |
| 1180 | Control of Uniaxial Orientation and Fabrication of a Submicrometer-Sized, Oriented Structure in a Photocrosslinkable-Polymer Liquid-Crystalline Film. 2005 , 17, 1886-1890 | | 11 |
| 1179 | A Combination of Selective Light Reflection and Fluorescence Modulation in a Cholesteric Polymer Matrix. 2005 , 26, 177-182 | | 15 |
| 1178 | Femtosecond response from two copolymers with intense two-photon absorption. <i>Applied Physics B: Lasers and Optics</i> , 2005 , 80, 541-545 | 1.9 | 15 |
| 1177 | Photochemical behaviours of star-like liquid crystal with azobenzene terminal groups. 2005 , 40, 4517-4521 | | 6 |
| 1176 | Spiropyrans and spirooxazines. 3. Synthesis of photochromic 5?-(4,5-diphenyl-1,3-oxazol-2-yl)-spiro[indoline-2,3?-naphtho[2,3-b]pyran]. 2005 , 54, 705-710 | | 8 |
| 1175 | New Metal Chelates with Sterically Hindered Azo Ligands: Synthesis and Physicochemical Properties. 2005 , 31, 533-540 | | 12 |
| 1174 | 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 |
| 1173 | Liquid Crystalline Polymers. 15. Synthesis and Thermal Behavior of Some Aromatic Polyethers Containing Different Spacers. 2005 , 17, 149-160 | | 6 |
| 1172 | Synthesis and Characterization of a New Organic Photochromic Function Material. 2005 , 475-479, 1821-1824 | | |
| 1171 | Signal Characteristics of Super-Resolution Near-Field Structure Disks with 100 GB Capacity. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 3609-3611 | 1.4 | 10 |
| 1170 | Organic bistable memory characteristics with a photochromic diarylethene layer. 2005 , 87, 213506 | | 30 |
| 1169 | Photochromism and electrical transport characteristics of a dyad and a polymer with diarylethene and quinoline units. <i>Journal of Organic Chemistry</i> , 2005 , 70, 8291-7 | 4.2 | 61 |
| 1168 | Nanolayered Structures in Photochromic Crystal of 1,2-Bis(2-methyl-5-p-methoxyphenyl-3-thienyl)perfluorocyclopentene. <i>Molecular Crystals and Liquid Crystals</i> , 2005 , 431, 523-527 | 0.5 | 4 |
| 1167 | Development of Photochromic Two-Photon Absorption Dyes. <i>Molecular Crystals and Liquid Crystals</i> , 2005 , 430, 173-179 | 0.5 | 8 |

| | | | |
|------|--|-----|-----|
| 1166 | Research Trends in Photochromism: Control of Photochromism in Rigid Polymer Matrices and other Advances. 2005 , 58, 825 | | 31 |
| 1165 | Observation of two-photon-induced photoluminescence in ZnO microtubes. 2005 , 87, 051920 | | 37 |
| 1164 | Synthesis and properties of new two-photon absorption chromophores containing 3,5-dicyano-2,4,6-tristyrylpyridine as the core. <i>New Journal of Chemistry</i> , 2005 , 29, 792 | 3.6 | 20 |
| 1163 | The ultrafast dynamics and nonlinear optical properties of tribranched styryl derivatives based on 1,3,5-triazine. 2005 , 109, 10705-10 | | 81 |
| 1162 | Photochromism of spiropyran nanocrystals embedded in sol-gel matrices. 2005 , 109, 8587-91 | | 38 |
| 1161 | Two-photon absorption and first nonlinear optical properties of ionic octupolar molecules: structure-function relationships and solvent effects. 2005 , 109, 6689-96 | | 52 |
| 1160 | Photoinduced Optical Anisotropy Based on Axis-Selective Triplet Energy Transfer and Thermally Enhanced Reorientation in a Photo-Cross-Linkable Liquid Crystalline Polymer Film. 2005 , 38, 3903-3908 | | 19 |
| 1159 | Self-Assembly of an Organic Chromophore with CdS Nanoclusters: Supramolecular Structures and Enhanced Emissions. 2005 , 5, 565-570 | | 34 |
| 1158 | Light propagation in a multilayered medium for three-dimensional optical memory. <i>Applied Optics</i> , 2005 , 44, 5966-71 | 1.7 | 6 |
| 1157 | High-resolution optical storage by use of minute spheres. <i>Optics Letters</i> , 2005 , 30, 299-301 | 3 | 16 |
| 1156 | Fast and stable photochromic oxazines. <i>Journal of Organic Chemistry</i> , 2005 , 70, 8180-9 | 4.2 | 116 |
| 1155 | Tuning the CD spectrum and optical rotation value of a new binaphthalene molecule with two spiropyran units: mimicking the function of a molecular "AND" logic gate and a new chiral molecular switch. <i>Journal of Organic Chemistry</i> , 2005 , 70, 6164-70 | 4.2 | 49 |
| 1154 | Spectroscopic and theoretical evidence for the elusive intermediate of the photoinitiated and thermal rearrangements of photochromic spiropyrans. 2005 , 109, 9605-16 | | 32 |
| 1153 | Role of donor-acceptor strengths and separation on the two-photon absorption response of cytotoxic dyes: a TD-DFT study. 2005 , 109, 7276-84 | | 52 |
| 1152 | UV-Vis, NMR, and time-resolved spectroscopy analysis of photoisomerization behavior of three- and six-azobenzene-bound tris(bipyridine)cobalt complexes. <i>Inorganic Chemistry</i> , 2005 , 44, 9056-67 | 5.1 | 43 |
| 1151 | Multilayered Optical Memory for High Density Data Storage in the Next Generation. 2006 , | | |
| 1150 | Combination of fluorescent switch and electrochemical switch based on a photochromic diarylethene. <i>New Journal of Chemistry</i> , 2006 , 30, 1595 | 3.6 | 28 |
| 1149 | Photo- and electro-chromism of diarylethene modified ITO electrodes-towards molecular based read-write-erase information storage. 2006 , 3930-2 | | 85 |

| | | | |
|------|---|-----|-----|
| 1148 | Photo-responsive Polymers and their Applications to Optical Memory. <i>Molecular Crystals and Liquid Crystals</i> , 2006 , 444, 41-50 | 0.5 | 31 |
| 1147 | Two-Photon Photopolymerization and 3D Lithographic Microfabrication. 2006 , 169-273 | | 202 |
| 1146 | Very large infrared two-photon absorption cross section of asymmetric zinc porphyrin aggregates: Role of intermolecular interaction and donor-acceptor strengths. 2006 , 110, 12342-7 | | 50 |
| 1145 | Reversible thermal and photochemical switching of liquid crystalline phases and luminescence in diphenylbutadiene-based mesogenic dimers. 2006 , 128, 7692-8 | | 100 |
| 1144 | Polyoxometalate-based electro- and photochromic dual-mode devices. 2006 , 22, 1949-51 | | 140 |
| 1143 | Development of near-infrared 35 fs laser microscope and its application to the detection of three- and four-photon fluorescence of organic microcrystals. 2006 , 110, 1091-4 | | 16 |
| 1142 | Polymerization of a Photochromic Diarylethene by Friedel-Crafts Alkylation. 2006 , 39, 3106-3109 | | 21 |
| 1141 | Photoinduced Reorientation and Multiple Optical Data Storage in Photo-Cross-Linkable Liquid Crystalline Copolymer Films Using 405 nm Light. 2006 , 39, 3245-3251 | | 22 |
| 1140 | Fabrication of multilayered photochromic memory media using pressure-sensitive adhesives. <i>Applied Optics</i> , 2006 , 45, 8424-7 | 1.7 | 20 |
| 1139 | Functional dyes for surface plasmon resonance-based sensing system. 2006 , 185-213 | | 9 |
| 1138 | Effect of complexation with lanthanide metal ions on the photochromism of (1,3,3-trimethyl-5 β -hydroxy-6 β -formyl- indoline-spiro2,2 β -[2h]chromene) in different media. 2006 , 2006, 1-9 | | 29 |
| 1137 | Synthesis and Two-photon Properties of New Perylene Bisimide Derivatives. 2006 , 35, 1416-1417 | | 8 |
| 1136 | Excited State Energy Migration and Photochromic Reaction in 1,2-Bis(2,4-dimethyl-3-thienyl)perfluorocyclopentene Single Crystal. 2006 , 35, 102-103 | | 3 |
| 1135 | Photochromism and diffraction grating in cyanoazobenzene polymer films. 2006 , | | 1 |
| 1134 | Experimental characterization of two-photon materials for fast rewritable optical data storage. 2006 , | | |
| 1133 | 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 |
| 1132 | Cycloaliphatic-aromatic polyimides based on diamines with azobenzene unit. 2006 , 42, 2859-2871 | | 25 |
| 1131 | Influence of laser wavelength and pulse duration on the degradation of polymeric films embedding photochromic molecules. 2006 , 183, 182-189 | | 9 |

| | | | |
|------|---|-----|-----|
| 1130 | 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 |
| 1129 | Photo- and ionochromism of 5E[4,5-diphenyl-1,3-oxazol-2-yl] substituted spiro[indoline-naphthopyrans]. 2006 , 184, 289-297 | | 43 |
| 1128 | The ultrafast dynamics and nonlinear optical properties of tribranched conjugated polymers with triphenylamine as the core. <i>Journal of Luminescence</i> , 2006 , 119-120, 116-121 | 3.8 | 12 |
| 1127 | Dual-wavelength photochromic fulgides for parallel recording memory. 2006 , 28, 1068-1071 | | 10 |
| 1126 | Development of highly fluorescent photochromic material with high fatigue resistance. 2006 , 62, 5855-5861 | | 120 |
| 1125 | Highly stable and fluorescent switching spirooxazines. 2006 , 62, 9840-9845 | | 25 |
| 1124 | Photochromic properties of thienylpyrrole azo dyes in solution. 2006 , 47, 3711-3714 | | 53 |
| 1123 | Control of multiphoton process within diffraction limit space in polymer microstructures. 2006 , 499, 406-409 | | 3 |
| 1122 | One- and two-photon induced phase transition behavior of nematic liquid crystals containing bis-styryl benzene as a photoresponsive chromophore. 2006 , 509, 118-122 | | 1 |
| 1121 | Fatigue-resistant photochromic dithienylethenes by controlling the oxidation state. 2006 , 1881-3 | | 37 |
| 1120 | Holographic grating recording in azobenzene functionalized polymers. 2006 , 4, 266-284 | | 5 |
| 1119 | Photochromic Gratings in Sol-Gel Hybrid Materials Containing Cyanoazobenzene Chromophores. 2006 , 37, 57-62 | | 19 |
| 1118 | Optical and dielectric characteristics of photochromic hybrid sol-gel materials. 2006 , 40, 39-44 | | 6 |
| 1117 | Combination of microstructuring and laser-light irradiation for the reversible wettability of photosensitized polymer surfaces. 2006 , 83, 351-356 | | 17 |
| 1116 | Imaging by sensitized oxygenations of photochromic anthracene films: examination of effects that improve performance and reversibility. <i>Chemistry - A European Journal</i> , 2006 , 12, 9276-83 | 4.8 | 36 |
| 1115 | Two-photon photochromism of a diarylethene enhanced by Förster resonance energy transfer from two-photon absorbing fluorenes. 2006 , 7, 2514-9 | | 26 |
| 1114 | ¹ H and ¹³ C chemical shifts for some 6,6a-dihydrochromeno(3,4-b)chromene derivatives. 2006 , 44, 892-4 | | |
| 1113 | A High-Content Diarylethene Photochromic Polymer for an Efficient Fluorescence Modulation. 2006 , 27, 1769-1773 | | 34 |

| | | | |
|------|---|-----|-----|
| 1112 | A Supramolecular Chiroptical Switch Using an Amorphous Azobenzene Polymer. 2006 , 16, 2089-2094 | | 51 |
| 1111 | Two-Photon 3D Optical Data Storage via Fluorescence Modulation of an Efficient Fluorene Dye by a Photochromic Diarylethene. 2006 , 18, 2910-2914 | | 198 |
| 1110 | Side-scattering properties of a novel waveguide multilayer memory. 2006 , 45, 095201 | | 2 |
| 1109 | Two-photon-induced quenching of photoluminescence in wide-gap semiconductor crystals. 2006 , 88, 221105 | | 3 |
| 1108 | Control of Refractive Index of Pressure-Sensitive Adhesives for the Optimization of Multilayered Media. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 3978-3980 | 1.4 | 17 |
| 1107 | Proposal of Roll-Type Optical Advanced Memory. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 3886-3888 | 1 | 2 |
| 1106 | Spectroscopic Characteristics of Hyperbranched Conjugated Polymers Studied by One- and Two-Photon Excitations. 2007 , 20, 500-508 | | 4 |
| 1105 | Biosynthesis of Liquid Crystalline Azo-Polyesters. 2007 , 44, 1245-1248 | | 3 |
| 1104 | Resonance enhancement of two-photon absorption of phthalocyanines for 3D optical storage in the presence of hot-band absorption. 2007 , | | 1 |
| 1103 | Acid-induced photochromic system switching of diarylethene derivatives between P- and T-types. 2007 , 1698-700 | | 49 |
| 1102 | Optimizing two-photon absorption for volumetric optical data storage. 2007 , 24, 1874 | | 54 |
| 1101 | Tuning the color switching of naphthopyrans via the control of polymeric architectures. 2007 , 17, 1885-1893 | | 65 |
| 1100 | Optical and broadband dielectric investigations of photochromic polymethacrylates. 2007 , 353, 4303-4312 | | 7 |
| 1099 | Synthesis of photochromic diarylethenes using a microflow system. 2007 , 2947-9 | | 38 |
| 1098 | Nonlinear Optical Properties of Polymers. 2007 , 795-822 | | 4 |
| 1097 | Construction and photoswitching properties of fluorescent diarylethenes. 2007 , 17, 861-865 | | 25 |
| 1096 | Materials for Multiphoton 3D Microfabrication. 2007 , 32, 561-565 | | 34 |
| 1095 | Design of high efficiency for two-photon polymerization initiator: combination of radical stabilization and large two-photon cross-section achieved by N-benzyl 3,6-bis(phenylethynyl)carbazole derivatives. 2007 , 17, 1433 | | 45 |

| | | | | |
|------|--|-----|--|-----|
| 1094 | Analysis of the kinetics of diffraction efficiency during the holographic grating recording in azobenzene functionalized polymers. 2007 , 111, 1536-44 | | | 45 |
| 1093 | Photochromic dibenzobarrlenes: long-lived triplet biradical intermediates. 2007 , 129, 9439-45 | | | 32 |
| 1092 | Holography and Optical Storage. 2007 , 1205-1249 | | | 2 |
| 1091 | Two-photon absorption of a series of V-shape molecules: the influence of acceptor's strength on two-photon absorption in a noncentrosymmetric D _{3d} system. 2007 , 17, 4685 | | | 45 |
| 1090 | Multilayered Optical Memory for Terabyte Data Storage. 2007 , 43, 832-835 | | | 2 |
| 1089 | A photochromic porphyrin-perinaphthothioindigo conjugate and its two-photon absorption properties. 2007 , 5170-2 | | | 13 |
| 1088 | Photoswitching of Conductivity through a Diarylperfluorocyclopentene Nanowire. 2007 , 111, 3517-3521 | | | 74 |
| 1087 | Elucidating the mechanisms of acidochromic spiropyran-merocyanine interconversion. 2007 , 111, 2511-6 | | | 120 |
| 1086 | Carbazole-based 1D and 2D hemicyanines: synthesis, two-photon absorption properties and application for two-photon photopolymerization 3D lithography. <i>New Journal of Chemistry</i> , 2007 , 31, 63-68 | 3.6 | | 39 |
| 1085 | Synthesis and properties of benzophenone-spiropyran and naphthalene-spiropyran conjugates. <i>Journal of Organic Chemistry</i> , 2007 , 72, 595-605 | 4.2 | | 51 |
| 1084 | Efficient synthesis and properties of isomeric photochromic diarylethenes having a pyrrole unit. 2007 , 9, 2139-42 | | | 232 |
| 1083 | Photochromic Polymer Composites for Two-Photon 3D Optical Data Storage. 2007 , 19, 5165-5173 | | | 161 |
| 1082 | Thermally Stable Merocyanine Form of Photochromic Spiropyran with Aluminum Ion as a Reversible Photo-driven Sensor in Aqueous Solution. 2007 , 7, 3166-3178 | | | 103 |
| 1081 | A Novel Strategy for Two-Photon Holographic Recording: Stepwise Two-Photon Absorption of Biquinethiophene Followed by Energy Transfer to an Aryl Azide. 2007 , 19, 1826-1829 | | | 11 |
| 1080 | Control of Photodynamic Motions of Azobenzene-Derivative Polymers by Laser Excitation Wavelength. 2007 , 208, 1753-1763 | | | 35 |
| 1079 | Characterization and photophysical properties of sulfur-oxidized diarylethenes. 2007 , 63, 3173-3182 | | | 31 |
| 1078 | Convenient synthesis of photochromic symmetrical or unsymmetrical bis(heteroaryl)maleimides via the Suzuki-Miyaura cross-coupling reaction. 2007 , 63, 9482-9487 | | | 24 |
| 1077 | Nanosized multilayer films with concurrent photochromism and electrochromism based on Dawson-type polyoxometalate. 2007 , 253, 3190-3195 | | | 29 |

| | | | |
|------|--|-----|-----|
| 1076 | Two-photon absorption spectra of Salen dye complexes with azo dyes. 2007 , 441, 221-225 | | 26 |
| 1075 | Two-photon absorption induced photoluminescence in para-sexiphenyl nano-needles. 2007 , 446, 83-86 | | 3 |
| 1074 | Layer-by-layer self-assembled multilayer of cationic spiroxazine and polystyrenesulfonate. <i>Dyes and Pigments</i> , 2007 , 72, 378-382 | 4.6 | 12 |
| 1073 | Photochromic diarylethene for reversible holographic recording. 2007 , 138, 210-213 | | 19 |
| 1072 | Two-photon induced anisotropy in PMMA film doped with Disperse Red 13. 2007 , 273, 435-440 | | 36 |
| 1071 | A new kinetic description of the complex optical behavior in photochromic polymer films. 2007 , 400, 198-202 | | 6 |
| 1070 | Synthesis and spectroscopic properties of symmetrically substituted two-photon absorbing molecules with rigid elongated π -conjugation. <i>Journal of Molecular Structure</i> , 2007 , 833, 82-87 | 3-4 | 11 |
| 1069 | Novel photochromic spirocyclic compounds of thienopyrroline series: 1. 2007 , 189, 161-166 | | 18 |
| 1068 | Formation of oxazine dye by photochemical reaction of N-acyl oxazine derivatives. 2007 , 190, 69-76 | | 17 |
| 1067 | Electrochemical switch based on the photoisomerization of a diarylethene derivative. 2007 , 609, 27-30 | | 9 |
| 1066 | Photochromism of liquid crystalline dendrimer with azobenzene terminal groups in solution. 2007 , 67, 416-421 | | 7 |
| 1065 | Single-crystalline photochromism of diarylethene dimers bridged by a spiro structure. 2007 , 20, 960-967 | | 26 |
| 1064 | New photochromic bithienylethene derivatives containing carbazole. 2007 , 20, 968-974 | | 7 |
| 1063 | 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 |
| 1062 | Cis/trans configurations of the peptide C π N bonds: isomerization and photoswitching. 2007 , 20, 810-820 | | 9 |
| 1061 | Fabrication of nanoscale photochromic materials by vapor deposition method. 2007 , 20, 985-991 | | 15 |
| 1060 | Cyclohexenylphenyldiazene: a simple surrogate of the azobenzene photochromic unit. 2007 , 129, 3198-210 | | 33 |
| 1059 | Reversible photoswitchable axially chiral dopants with high helical twisting power. 2007 , 129, 12908-9 | | 195 |

| | | |
|------|---|-----------------|
| 1058 | Optical switching of a photochromic bis-phenylazo compound in PMMA films. 2007 , 42, 7866-7871 | 4 |
| 1057 | Experimental and theoretical investigations of spectroscopic properties of azobenzene derivatives in solution. 2007 , 13, 785-91 | 14 |
| 1056 | Photochromic layer-by-layer films of spiroxazine polymer. <i>Dyes and Pigments</i> , 2007 , 75, 250-252 | 4.6 9 |
| 1055 | Photoreversible refractive index change of [2.2]metacyclophan-1-ene in PMMA film. 2007 , 29, 499-502 | 8 |
| 1054 | Synthesis and complexation mechanism of europium ion (Eu ³⁺) with spiro[indoline-phenanthrolineoxazine]. <i>Dyes and Pigments</i> , 2008 , 77, 469-473 | 4.6 18 |
| 1053 | Bistable organic, organometallic, and coordination compounds for molecular electronics and spintronics. 2008 , 57, 687-717 | 77 |
| 1052 | Two-photon absorption spectrum of the photoinitiator Lucirin TPO-L. 2008 , 90, 633-636 | 48 |
| 1051 | Laser induced memory bits in photorefractive LiNbO ₃ and LiTaO ₃ . 2008 , 93, 129-133 | 17 |
| 1050 | Fast response photochromic textiles from hybrid silica surface coating. 2008 , 9, 301-306 | 44 |
| 1049 | Photochromic fabrics with improved durability and photochromic performance. 2008 , 9, 521-526 | 38 |
| 1048 | Silicon-containing azo polymers with paired mesogens and their applications to optical memory media. 2008 , 46, 6734-6745 | 7 |
| 1047 | Photoresponsive Glass-Forming Butadiene-Based Chiral Liquid Crystals with Circularly Polarized Photoluminescence. 2008 , 18, 2510-2517 | 57 |
| 1046 | Enhanced Two-Photon Absorption of Organic Chromophores: Theoretical and Experimental Assessments. 2008 , 20, 4641-4678 | 44 ¹ |
| 1045 | Optical birefringence induced by two-photon absorption in polythiophene bearing an azochromophore. 2008 , 49, 1562-1566 | 19 |
| 1044 | Fluorescent photoswitchable nanohybrids based on photochromism. 2008 , 69, 206-210 | 21 |
| 1043 | Photonics of organic photochromic systems: Modern trends. 2008 , 196, 180-189 | 20 |
| 1042 | Substituent position effect on the properties of isomeric photochromic diarylethenes bearing chlorine atoms. 2008 , 194, 333-343 | 13 ¹ |
| 1041 | Synthesis and chlorine atom position effect on the properties of unsymmetrical photochromic diarylethenes. 2008 , 196, 84-93 | 58 |

| | | | |
|------|---|-----|-----|
| 1040 | Substituent position effect on the properties of new unsymmetrical isomeric diarylethenes having a chlorine atom. 2008 , 197, 415-425 | | 95 |
| 1039 | Photochromism of dihydroindolizines: Part VIII. First holographic image recording based on di- and tetrahydroindolizines photochromes. 2008 , 200, 50-56 | | 19 |
| 1038 | Photochromism of dihydroindolizines Part IX. 2008 , 200, 57-67 | | 18 |
| 1037 | A new family of photochromic compounds based on the photoinduced opening and thermal closing of [1,3]oxazine rings. 2008 , 200, 44-49 | | 33 |
| 1036 | Electrosynthesis of dixanthylene photochromic dye, characterization and ab initio calculations. <i>Dyes and Pigments</i> , 2008 , 76, 596-603 | 4.6 | |
| 1035 | Positive and negative photochromism of novel spiro[indoline-phenanthroline]oxazines. <i>Dyes and Pigments</i> , 2008 , 76, 832-835 | 4.6 | 25 |
| 1034 | 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 |
| 1033 | Two-photon absorption spectrum in diazoaromatic compounds. 2008 , 463, 360-363 | | 13 |
| 1032 | Second harmonic generation and photochromic grating in polyurethane films containing diazo isoxazole chromophore. 2008 , 30, 1832-1839 | | 4 |
| 1031 | Next step of photochromic switches?. 2008 , 18, 1617 | | 250 |
| 1030 | Reversible double-helix-random-coil transition process of bis{hexa(ethynylhelicene)}s. 2008 , 3, 244-60 | | 52 |
| 1029 | [Synthesis of spyropyran derivatives of retinal and study of their interaction with bacterioopsin from <i>Halobacterium salinarum</i>]. 2008 , 34, 276-84 | | 9 |
| 1028 | Formation of photochromic spiropyran polymer brushes via surface-initiated, ring-opening metathesis polymerization: reversible photocontrol of wetting behavior and solvent dependent morphology changes. 2008 , 24, 9558-65 | | 149 |
| 1027 | Hydrogen-Bonded Polymer-Azobenzene Complexes: Enhanced Photoinduced Birefringence with High Temporal Stability through Interplay of Intermolecular Interactions. 2008 , 20, 6358-6363 | | 103 |
| 1026 | Synthesis and characterization of coumarin-based spiropyran photochromic colorants. 2008 , 10, 4823-6 | | 25 |
| 1025 | Syntheses, characterization, and photochromic studies of spirooxazine-containing 2,2'-bipyridine ligands and their zinc(II) thiolate complexes. <i>Inorganic Chemistry</i> , 2008 , 47, 8912-20 | 5.1 | 30 |
| 1024 | A Rewritable Optical Data Storage Material System by [2 + 2] Photocycloreversion-Photocycloaddition. 2008 , 20, 1194-1196 | | 58 |
| 1023 | Thiophenes and their Benzo Derivatives: Applications. 2008 , 931-974 | | 9 |

| | | | |
|------|--|------|------|
| 1022 | Additive-Mediated Splitting of Lanthanide Orthovanadate Nanocrystals in Water: Morphological Evolution from Rods to Sheaves and to Spherulites. 2008 , 8, 4432-4439 | | 82 |
| 1021 | Controlled synthesis and upconverted avalanche luminescence of cerium(III) and neodymium(III) orthovanadate nanocrystals with high uniformity of size and shape. 2008 , 130, 2032-40 | | 85 |
| 1020 | Photochromic glassy liquid crystals comprising mesogenic pendants to dithienylethene cores. 2008 , 18, 5592 | | 12 |
| 1019 | Confocal reflection readout thresholds in two-photon-induced optical recording. 2008 , 47, 4707-13 | | 3 |
| 1018 | Structural, Optical, and Theoretical Studies of a Thermochromic Organic Crystal with Reversibly Variable Second Harmonic Generation. 2008 , 20, 4062-4068 | | 44 |
| 1017 | Multiphoton absorbing materials: molecular designs, characterizations, and applications. <i>Chemical Reviews</i> , 2008 , 108, 1245-330 | 68.1 | 1683 |
| 1016 | Up-conversion luminescent switch based on photochromic diarylethene and rare-earth nanophosphors. 2008 , 4786-8 | | 99 |
| 1015 | Superior Photochromic Performance of Naphthopyrans in a Rigid Host Matrix Using Polymer Conjugation: Fast, Dark, and Tunable. 2008 , 41, 1206-1214 | | 58 |
| 1014 | Photoswitchable nanoparticles enable high-resolution cell imaging: PULSAR microscopy. 2008 , 130, 15279-81 | | 99 |
| 1013 | Two-photon absorption properties of azulenyl compounds having a conjugated ketone backbone. 2008 , 112, 5198-207 | | 21 |
| 1012 | Large two-photon absorption cross sections of hemiporphyrazines in the excited state: the multiphoton absorption process of hemiporphyrazines with different central metals. 2008 , 130, 12290-8 | | 35 |
| 1011 | Investigation of Liquid Crystalline Behavior of Copper(II) Complexes Derived from Azo-Containing Salicylaldimine Ligands with Lateral Hydroxyl Group. <i>Molecular Crystals and Liquid Crystals</i> , 2008 , 493, 71-81 | 0.5 | 11 |
| 1010 | Dynamic Switching of Linearly Polarized Emission in Liquid-Crystallinity-Embedded Photoresponsive Conjugated Polymers. 2008 , 41, 2341-2346 | | 41 |
| 1009 | Photochromism and Optical Property of Gold Nanoparticles Covered with Low-Polydispersity Diarylethene Polymers. 2008 , 41, 3995-4002 | | 54 |
| 1008 | Quantitative Prediction of Two-Photon Absorption Cross Section Based on Linear Spectroscopic Properties□ 2008 , 112, 7997-8004 | | 38 |
| 1007 | Dynamic Layer Detection of Rotating Multilayered Optical Memory. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 5944-5946 | 1.4 | 6 |
| 1006 | Compact and High-Power Mode-Locked Fiber Laser for Three-Dimensional Optical Memory. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 5797-5799 | 1.4 | 2 |
| 1005 | Two-photon energy transfer enhanced three-dimensional optical memory in quantum-dot and azo-dye doped polymers. 2008 , 92, 063309 | | 27 |

1004 Quantitative description of two-photon absorption with few essential states models. **2008**,

1003 Density functional theory study of the trans-trans-cis (TTC)→trans-trans-trans (TTT) isomerization of a photochromic spiropyran merocyanine. **2008**, 13, 1246-52

9

1002 . **2009**,

255

1001 Stable and reversible optoelectrical dual-mode data storage based on a ferrocenylspiropyran molecule. **2009**, 95, 183307

9

1000 Functional Dyes, and Some Hi-Tech Applications. **2009**, 2009, 1-21

50

999 Dynamics of photoinduced dichroism and birefringence in optically thick azopolymers. **2009**, 39, 46-52

3

998 Optical memory of silicon nanocrystals with submicron spatial resolution and very high thermal stability. **2009**, 94, 173116

11

997 A New Series of Quadrupolar Type Two-Photon Absorption Chromophores Bearing 11, 12-Dibutoxydibenzo[a,c]-phenazine Bridged Amines; Their Applications in Two-Photon Fluorescence Imaging and Two-Photon Photodynamic Therapy. **2009**, 19, 2388-2397

127

996 Zweiphotonenabsorption und das Design von Zweiphotonenfarbstoffen. **2009**, 121, 3292-3316

238

995 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. *Chemistry - A European Journal*, **2009**, 15, 4289-300

4.8 30

994 Insights into the origin of solid-state photochromism and thermochromism of N-salicylideneanils: the intriguing case of aminopyridines. *Chemistry - A European Journal*, **2009**, 15, 4327-42

4.8 92

993 Versatile photophysical properties of meso-aryl-substituted subporphyrins: dipolar and octupolar charge-transfer interactions. *Chemistry - A European Journal*, **2009**, 15, 12005-17

4.8 45

992 Intramolecular electronic communication in a dimethylaminoazobenzene-fullerene C60 dyad: an experimental and TD-DFT study. **2010**, 31, 1182-94

5

991 Precise control of photoinduced birefringence in azobenzene-containing liquid-crystalline polymers by post functionalization. **2009**, 30, 1725-30

23

990 Two-photon absorption and the design of two-photon dyes. **2009**, 48, 3244-66

1443

989 Linear and nonlinear optical properties of azobenzene derivatives. **2009**, 15, 581-90

21

988 Dual-mode optical switching property of copolymers containing pendant nitro and cyano substituted azobenzenes and fulgimide units. **2009**, 94, 1001-1012

16

987 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

| | | | |
|-----|---|------|-----|
| 986 | Photochromism of 1,2-bis(2-n-alkyl-5-formyl-3-thienyl)perfluorocyclopentene derivatives. <i>Journal of Molecular Structure</i> , 2009 , 921, 89-100 | 3-4 | 19 |
| 985 | New photochromic xerogels composites based on nitrosyl complexes. 2009 , 52, 19-23 | | 14 |
| 984 | Spiropyrans and spirooxazines 5. Synthesis of photochromic 8-(4,5-diphenyl-1,3-oxazol-2-yl)-substituted spiro[indoline-benzopyrans]. 2009 , 58, 156-161 | | 6 |
| 983 | A new series of two-photon polymerization initiators: Synthesis and nonlinear optical properties. 2009 , 52, 2180-2185 | | 3 |
| 982 | Photochromism of dihydroindolizines part X. Photo-responsive self-assembling organogelators based on photochromic dihydroindolizines and 11-aminoundecanoic acid (AUDA). 2009 , 22, 593-606 | | 8 |
| 981 | Advances in liquid crystalline conjugated polymers. 2009 , 47, 2463-2485 | | 33 |
| 980 | Five-dimensional optical recording mediated by surface plasmons in gold nanorods. 2009 , 459, 410-3 | | 905 |
| 979 | Synthesis and optoelectronic properties of unsymmetrical isomeric diarylethene derivatives having a fluorine atom. <i>Journal of Molecular Structure</i> , 2009 , 936, 29-36 | 3-4 | 17 |
| 978 | Electrochemical and optical properties of new soluble dithienylpyrroles based on azo dyes. 2009 , 54, 1702-1709 | | 38 |
| 977 | 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 |
| 976 | Preparation and characteristics of new chiral photochromic copolymers. 2009 , 32, 198-206 | | 14 |
| 975 | Transient spectra, kinetics and mechanism of Rhodamine 700 dye precursor photoreaction. 2009 , 201, 57-61 | | 8 |
| 974 | Photochromic fluorescence switching from diarylethenes and its applications. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2009 , 10, 111-129 | 16.4 | 264 |
| 973 | The synthesis and photochromic properties of two bis(phosphine) ligands based on dithienylethene backbone and their oxides, sulfurets and selenides. <i>Dyes and Pigments</i> , 2009 , 81, 152-155 | 4.6 | 19 |
| 972 | Photochromic nanocomposite films of mononitrosyl complexes embedded in polymer matrices. 2009 , 12, 769-772 | | 4 |
| 971 | Cyclodextrin-based polymeric materials: synthesis, properties, and pharmaceutical/biomedical applications. 2009 , 10, 3157-75 | | 484 |
| 970 | Design and Synthesis of Two New Two-Photon Absorbing Pyridine Salts as Ligands and Their Rare Earth Complexes. 2009 , 9, 1499-1504 | | 26 |
| 969 | Effect of cage charges on multiphoton absorptions: first-principles study on metallofullerenes Sc(2)C(2)@C(68) and Sc(3)N@C(68). 2009 , 113, 5966-71 | | 5 |

| | | | |
|-----|---|-----|-----|
| 968 | Linear and nonlinear spectroscopy of a porphyrin-squaraine-porphyrin conjugated system. 2009 , 113, 14854-67 | | 38 |
| 967 | Photochromism of Spiropyran β -cyclodextrin Inclusion Complexes on Au(111). 2009 , 113, 19193-19198 | | 13 |
| 966 | OPTICAL DATA STORAGE FOR THE FUTURE. 2009 , 69-135 | | 1 |
| 965 | Photoswitching of dextro/levo rotation with axially chiral binaphthyls linked to an azobenzene. <i>Journal of Organic Chemistry</i> , 2009 , 74, 5723-6 | 4.2 | 37 |
| 964 | trans-Dichloro-bis-(arylaazoimidazole)palladium(II): synthesis, structure, photoisomerization, and DFT calculation. <i>Inorganic Chemistry</i> , 2009 , 48, 2760-9 | 5.1 | 56 |
| 963 | DFT-based methods in the design of two-photon operated molecular switches. 2009 , 113, 7080-9 | | 48 |
| 962 | Probing atomic level structural transformation in OBI β N heterosynthon crystal. 2009 , 11, 1001 | | 10 |
| 961 | The photochromism and fluorescence of diarylethenes with a imidazole bridge unit: a strategy for the design of turn-on fluorescent diarylethene system. 2009 , 113, 5550-3 | | 45 |
| 960 | Impact of phase aberrations caused by multilayer optical data storage in weakly inhomogeneous media. 2009 , 26, 308 | | 8 |
| 959 | Plasmonic nano-structures for optical data storage. <i>Optics Express</i> , 2009 , 17, 14001-14 | 3.3 | 110 |
| 958 | Thiol-Functionalized Gold Nanodots: Two-Photon Absorption Property and Imaging In Vitro. 2009 , 113, 21082-21089 | | 73 |
| 957 | Comprehensive Modulation of Naphthopyran Photochromism in a Rigid Host Matrix by Applying Polymer Conjugation. 2009 , 42, 1500-1511 | | 52 |
| 956 | Two-photon three-dimensional optical storage memory. 2009 , 113, 13633-44 | | 190 |
| 955 | Photochromic optical memory based on non-destructive IR read-out. <i>Photochemical and Photobiological Sciences</i> , 2009 , 8, 1590-4 | 4.2 | 2 |
| 954 | Bimetallic cyanido-bridged magnetic materials derived from manganese(III) Schiff-base complexes and pentacyanonitrosylferrate(II) precursor. <i>New Journal of Chemistry</i> , 2009 , 33, 1237 | 3.6 | 43 |
| 953 | Light-driven molecular switches with tetrahedral and axial chirality. 2009 , 7, 3930-3 | | 50 |
| 952 | . 2009 , 45, 2232-2235 | | 4 |
| 951 | Principles of Nanomagnetism. <i>Nanoscience and Technology</i> , 2009 , | 0.6 | 157 |

| | | | |
|-----|--|-----|----|
| 950 | Weak acid triggers the ring opening of an otherwise long-lived triangle terthiazole closed isomer. <i>New Journal of Chemistry</i> , 2009 , 33, 1386 | 3.6 | 10 |
| 949 | Photocyclization Reaction of DiarylethenePerylenebisimide Dyads upon Irradiation with Visible (>500 nm) Light 2009 , 113, 11623-11627 | | 49 |
| 948 | Synthesis of chiroptical molecular switches by pd-catalyzed domino reactions. 2009 , 131, 17879-84 | | 66 |
| 947 | Lewis acid and base triggered molecular switch. 2009 , 19, 5790 | | 15 |
| 946 | Design, crystal structures and enhanced frequency-upconverted lasing efficiencies of a new series of dyes from hybrid of inorganic polymers and organic chromophores. 2009 , 19, 9163 | | 35 |
| 945 | Optimizing the photochromic performance of naphthopyrans in a rigid host matrix using poly(dimethylsiloxane) conjugation. 2009 , 19, 5612 | | 50 |
| 944 | Construction and properties of multi-addressable switching system based on a photochromic diarylethene. 2009 , 19, 706-709 | | 47 |
| 943 | Synthesis and Characterization of Novel Azobenzene Methacrylate Monomers. 2009 , 12, 553-563 | | 13 |
| 942 | Non-ionic photo-acid generators for applications in two-photon lithography. 2009 , 19, 505-513 | | 34 |
| 941 | Azo Polymer Colloidal Spheres: Formation, Two-Dimensional Array, and Photoresponsive Properties. 177-213 | | 1 |
| 940 | Azobenzene Polymers for Photonic Applications. 1-46 | | 13 |
| 939 | Fluorescent Two-photon Absorption Benzothiadiazole Dyes Having Photoreleasing Quenchers. 2009 , 38, 1042-1043 | | 12 |
| 938 | References. 471-548 | | |
| 937 | Plasmonic nano-structures for optical data storage. 2009 , | | |
| 936 | Spin-on silicon-nitride Films for Photo-lithography by RT Cure of Polysilazane. 2010 , 23, 225-230 | | 6 |
| 935 | Electron-Beam-Induced Chromism Combined with Photo- or Thermal Reverse Reaction for Color Imaging. 2010 , 23, 217-224 | | |
| 934 | Multiphoton-Gated Reaction in Organic Photochromic Molecules under Pulsed Laser Excitation. <i>The Review of Laser Engineering</i> , 2010 , 38, 90-95 | 0 | |
| 933 | Photochromic and irreversible photofluorescent organic materials for 3D bitwise optical memory. 2010 , 19, 187-195 | | 8 |

| | | | |
|-----|---|-----|-----|
| 932 | Metal complexes with azomethines containing the isomeric E-Z azo fragments. 2010 , 36, 479-489 | | 16 |
| 931 | Photochromic oligoazomethines with di(benzothiophenyl)cyclopentene moieties. 2010 , 52, 73-76 | | 1 |
| 930 | Conformational Behavior of Chemisorbed Azobenzene Derivatives in External Electric Fields: A Theoretical Study 2010 , 114, 20556-20563 | | 15 |
| 929 | Synthesis and characterization of side-chain poly(methacrylate)s bearing new azo-moieties. 2010 , 65, 905-916 | | 12 |
| 928 | Cooperative enhancement of TPA in cruciform double-chain DSB derivation: a femtosecond transient absorption spectra study. <i>Applied Physics B: Lasers and Optics</i> , 2010 , 100, 773-777 | 1.9 | 8 |
| 927 | DFT study of linear and nonlinear optical properties of donor-acceptor substituted stilbenes, azobenzenes and benzilideneanilines. 2010 , 16, 659-68 | | 46 |
| 926 | Two-photon absorption of photochromic diarylethene and its application to rewritable holographic recording. 2010 , 5, 221-225 | | 2 |
| 925 | Relaxation of the excited N-(2-hydroxy benzylidene) aniline molecule: An ab initio and TD DFT study. 2010 , 122, 857-865 | | 7 |
| 924 | Synthesis and photochromic properties of a new biindenylidenedione compound bearing hydroxylphenyl groups in crystal state. 2010 , 36, 301-307 | | 1 |
| 923 | Asymmetric Arrangement of Monolayer in the Multilayer Films of 2-Hydroxy-4,4'-dihexyloxy-azobenzene. 2010 , 21, 1517-1520 | | 1 |
| 922 | Isomerization in Photochromic Ruthenium Sulfoxide Complexes. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 3895-3904 | 2.3 | 42 |
| 921 | Engineering Solid-State Molecular Switches: N-Salicylidene N-Heterocycle Derivatives. 2010 , 2010, 621-637 | | 64 |
| 920 | Synthesis and Photophysical Properties of Donor-Acceptor Dithienophospholes. 2010 , 2010, 5225-5231 | | 25 |
| 919 | Hexabenzocoronene graphitic nanotube appended with dithienylethene pendants: photochromism for the modulation of photoconductivity. 2010 , 22, 829-32 | | 65 |
| 918 | Silver clusters embedded in glass as a perennial high capacity optical recording medium. 2010 , 22, 5282-6 | | 151 |
| 917 | Photoswitchable Nanoprobes for Biological Imaging Applications. 2010 , 1-30 | | |
| 916 | ChemInform Abstract: Three-Dimensional Optical Data Storage Using Photochromic Materials. 2010 , 31, no-no | | 1 |
| 915 | Dual photochromic/electrochromic compounds based on cationic spiropyrans and polyoxometalates. <i>Chemistry - A European Journal</i> , 2010 , 16, 5572-6 | 4.8 | 57 |

| | | | |
|-----|---|------|-----|
| 914 | Stimuli-responsive molecular brushes. 2010 , 35, 24-44 | | 541 |
| 913 | Data storage based on photochromic and photoconvertible fluorescent proteins. 2010 , 149, 289-98 | | 52 |
| 912 | Optically switchable organic hollow nanocapsules. 2010 , 343, 155-61 | | 16 |
| 911 | Luminescence and crystal structure of 2,2-difluoro-4-(9-anthracyl)-6-methyl-1,3,2-dioxaborine. <i>Journal of Luminescence</i> , 2010 , 130, 756-761 | 3.8 | 26 |
| 910 | Copper(II) complexes of thioarylazo-pentanedione: Structures, magnetism, redox properties and correlation with DFT calculations. 2010 , 29, 3147-3156 | | 20 |
| 909 | Rhodium(III) and iridium(III) complexes of thioarylazoimidazoles: Synthesis, structure, spectral characterization, electrochemistry and DFT calculation. 2010 , 29, 3170-3177 | | 9 |
| 908 | Synthesis and the effect of substituent position upon unsymmetrical isomeric diarylethenes bearing a pyrrole unit. 2010 , 214, 230-240 | | 44 |
| 907 | Carbon dioxide and water as a key for unlocking photochromism of diarylethene derivative. 2010 , 215, 103-107 | | 10 |
| 906 | Fast photochromic sterically hindered benzo[1,3]oxazines. 2010 , 216, 59-65 | | 10 |
| 905 | Electrical functions of photochromic molecules. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2010 , 11, 1-14 | 16.4 | 139 |
| 904 | Copper-thioarylazoimidazole complexes: Structures, photochromism and redox interconversion between Cu(II) <-> Cu(I) and correlation with DFT calculation. 2010 , 363, 2955-2964 | | 25 |
| 903 | Localized surface plasmon resonance effect on photo-induced alignment of films composed of silver nanoparticles and azopolymers with cyano or methyl substitutes on azobenzene moieties. 2010 , 518, 2128-2133 | | 5 |
| 902 | Recent developments in the field of metal complexes containing photochromic ligands: Modulation of linear and nonlinear optical properties. 2010 , 254, 2533-2545 | | 168 |
| 901 | Functionalization of single-walled carbon nanotubes with optically switchable spiropyrans. 2010 , 48, 2815-2824 | | 47 |
| 900 | The effect of substituent position upon unsymmetrical isomeric diarylethenes bearing a methoxy group. <i>Dyes and Pigments</i> , 2010 , 84, 25-35 | 4.6 | 90 |
| 899 | The photochromism of unsymmetrical diarylethene isomers with an electron-withdrawing cyano substituent. <i>Dyes and Pigments</i> , 2010 , 87, 1-9 | 4.6 | 28 |
| 898 | Ultrafast X-ray diffraction in liquid, solution and gas: present status and future prospects. 2010 , 66, 270-80 | | 30 |
| 897 | Side-chain polymers bearing azo-moieties for nonlinear optics. 2010 , | | |

| | | | |
|-----|--|-----|----|
| 896 | Theory and computations of two-photon absorbing photochromic chromophores. 2010 , 1, 142-161 | | 16 |
| 895 | A New Unsymmetrical Diarylethene for Reversible Holographic Recording. 2010 , 156-157, 655-659 | | 1 |
| 894 | Spatial confinement of percolation: Monte Carlo modeling and nanoscale laser polymerization. 2010 , 82, | | 9 |
| 893 | A Review of Dye Incorporated Conducting Polymers Application as Sensors and in Solar Cells. 2010 , 657, 208-230 | | 5 |
| 892 | Preparation and Characterization of PVC-based Photoresponsive Polymers Containing Azo-chromophores. 2010 , 47, 833-838 | | 3 |
| 891 | SUPPRESSION OF CHROMOPHORE AGGREGATION IN AMORPHOUS POLYMERIC MATERIALS: TOWARDS MORE EFFICIENT PHOTORESPONSIVE BEHAVIOR. 2010 , 19, 57-73 | | 22 |
| 890 | Two-photon sensitized recording materials for multilayer optical disk. 2010 , | | 5 |
| 889 | Syntheses, photochromism and polarization optical recording of a novel diarylethene having a thiazole unit. 2010 , | | 1 |
| 888 | Alignment-Free Fiber Confocal Microscope and All-Fiber Optical System for Multilayered Optical Memories. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 08KF03 | 1.4 | 4 |
| 887 | Effect of bridging position on the two-photon polymerization initiating efficiencies of novel coumarin/benzylidene cyclopentanone dyes. 2010 , 114, 5171-9 | | 26 |
| 886 | Triggered drug delivery from biomaterials. 2010 , 7, 605-16 | | 64 |
| 885 | Photochromic DithienylethenePhthalocyanines and Their Analogs. 2010 , 89-103 | | 5 |
| 884 | Synthesis and properties of a novel photochromic compound with modulated fluorescence in the solid state. <i>Journal of Organic Chemistry</i> , 2010 , 75, 4742-7 | 4.2 | 22 |
| 883 | Application of Secondary Amines in the Synthesis of Some New Spiro Heterocyclic Compounds. 2010 , 185, 1301-1314 | | 4 |
| 882 | A solution- and solid-state investigation of medium effects on charge separation in metastable photomerocyanines. 2010 , 132, 12568-86 | | 34 |
| 881 | Photophysical Switching Properties of Spironaphthoxazine-poly(styrene-sulfonic acid) Polyion Complex. <i>Molecular Crystals and Liquid Crystals</i> , 2010 , 520, 151/[427]-157/[433] | 0.5 | |
| 880 | Spirooxazine to merocyanine interconversion in the presence and absence of zinc: approach to a bistable photochemical switch. 2010 , 114, 11900-9 | | 23 |
| 879 | Arylethynyl derivatives of the dihydroazulene/vinylheptafulvene photo/thermoswitch: tuning the switching event. 2010 , 132, 9165-74 | | 61 |

| | | | |
|-----|---|-----|-----|
| 878 | Photochromic spirooxazines functionalized with oligomers: investigation of core-oligomer interactions and photomerocyanine isomer interconversion using NMR spectroscopy and DFT. <i>Journal of Organic Chemistry</i> , 2010 , 75, 2851-60 | 4.2 | 10 |
| 877 | A small-molecule-based ternary data-storage device. 2010 , 132, 5542-3 | | 158 |
| 876 | Photo-responsive systems and biomaterials: photochromic polymers, light-triggered self-assembly, surface modification, fluorescence modulation and beyond. 2010 , 1, 37-54 | | 444 |
| 875 | Metal Complexes Featuring Photochromic Ligands. 2010 , 171-225 | | 16 |
| 874 | Synthesis of novel thermally reversible photochromic axially chiral spirooxazines. 2010 , 12, 3552-5 | | 50 |
| 873 | Light-driven nanoscale chiral molecular switch: reversible dynamic full range color phototuning. 2010 , 46, 3463-5 | | 161 |
| 872 | 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. <i>Photochemical and Photobiological Sciences</i> , 2010 , 9, 188-93 | 4.2 | 16 |
| 871 | Electronic and vibrational contributions to first hyperpolarizability of donor-acceptor-substituted azobenzene. 2010 , 133, 244308 | | 47 |
| 870 | A reversibly photoswitchable mononuclear palladium(II) complex with ortho-diethylated azobenzene ligands. <i>New Journal of Chemistry</i> , 2010 , 34, 2887 | 3.6 | 21 |
| 869 | Rapid photochromic nanopatterns from block copolymers. 2010 , 6, 909-914 | | 17 |
| 868 | Dimers of polar chromophores in solution: role of excitonic interactions in one- and two-photon absorption properties. 2011 , 13, 11099-109 | | 37 |
| 867 | Efficient Two-Photon Absorption Materials Consisting of Cationic Dyes and Clay Minerals. 2011 , 115, 20653-20661 | | 34 |
| 866 | STM Observation of Open- and Closed-Ring Forms of Functionalized Diarylethene Molecules Self-Assembled on a Au(111) Surface. 2011 , 2, 2433-2436 | | 25 |
| 865 | Solid-state photochromism of pyrazolones with highly improved sensitivity, fatigue resistance and reversible fluorescent switching properties. 2011 , 21, 3210 | | 24 |
| 864 | Superior Z->E and E->Z photoswitching dynamics of dihydrodibenzodiazocine, a bridged azobenzene, by S1(nπ) excitation at λ 387 and 490 nm. 2011 , 13, 1054-63 | | 71 |
| 863 | Ultrahigh density data storage based on organic materials with SPM techniques. 2011 , 21, 3522-3533 | | 23 |
| 862 | Controlling the spatial orientation of molecular actuators: polarized photoisomerization of 2-nitro-9-(2,2,2-triphenylethylidene)fluorene in a thin polymer matrix. 2011 , 115, 419-27 | | 11 |
| 861 | Proton-coupled electron shuttling in a covalently linked ruthenium-copper heterodinuclear complex. 2011 , 133, 18570-3 | | 17 |

| | | |
|-----|--|--------|
| 860 | Redox and Photoisomerization Switching the Second-Order Nonlinear Optical Properties of a Tetrathiafulvalene Derivative Across Six States: A DFT Study. 2011 , 115, 23946-23954 | 76 |
| 859 | Unpolarized-Light-Driven Amplified Chiroptical Modulation Between Chiral Aggregation and Achiral Disaggregation of an Azobenzene-alt-Fluorene Copolymer in Limonene. 2011 , 44, 5105-5111 | 108 |
| 858 | Dynamic Random Access Memory Devices Based on Functionalized Copolymers with Pendant Hydrazine Naphthalimide Group. 2011 , 115, 8288-8294 | 32 |
| 857 | Second- and third-order nonlinearities of novel push-pull azobenzene polymers. 2011 , 115, 1944-9 | 75 |
| 856 | PHOTOSWITCHABLE NANOFLUOROPHORES FOR INNOVATIVE BIOIMAGING. 2011 , 04, 395-408 | 10 |
| 855 | Photoswitchable Molecular Systems Based on Spiropyrans and Spirooxazines. 2011 , 37-80 | 31 |
| 854 | Synthesis, structures and photoluminescence properties of silver(I) complexes with N,N'-di(pyrazin-2-yl)pyridine-2,6-diamine. 2011 , 13, 992-1002 | 13 |
| 853 | Photochromism and mechanism of pyrazolones in crystals: structural variations directly observed by X-ray diffraction. 2011 , 21, 12202 | 14 |
| 852 | Two-photon absorbing chromophores for photodynamic therapy: molecular engineering and in vivo applications. 2011 , | 2 |
| 851 | Switching and rectification of a single light-sensitive diarylethene molecule sandwiched between graphene nanoribbons. 2011 , 135, 184703 | 58 |
| 850 | Multipolar symmetric squaraines with large two-photon absorption cross-sections in the NIR region. 2011 , 13, 12087-94 | 24 |
| 849 | Nonlinear Optical Switching Behavior in the Solid State: A Theoretical Investigation on Anils. 2011 , 23, 3993-4001 | 40 |
| 848 | Photochromism of a pyrazolone derivative in crystalline state and in HPMC composite film. <i>Photochemical and Photobiological Sciences</i> , 2011 , 10, 1562-7 | 4.2 8 |
| 847 | Efficient photochromic transformation of a new fluorenyl diarylethene: one- and two-photon absorption spectroscopy. 2011 , 3, 3559-67 | 23 |
| 846 | Probing two-photon properties of molecules: large non-Condon effects dominate the resonance hyper-Raman scattering of rhodamine 6G. 2011 , 133, 14590-2 | 38 |
| 845 | Direct Patterning for Active Polymers. 2011 , 519-569 | |
| 844 | Smart heterostructures for tailoring the optical properties of photochromic hybrid organic-inorganic polyoxometalates. <i>Inorganic Chemistry</i> , 2011 , 50, 8790-6 | 5.1 43 |
| 843 | Photochromic and redox properties of bisterpyridine ruthenium complexes based on dimethyldihydropyrene units as bridging ligands. <i>Inorganic Chemistry</i> , 2011 , 50, 10581-91 | 5.1 28 |

- 842 Photochromic organic-inorganic hybrid materials. **2011**, 40, 672-87 481
- 841 Development of real-time vibrational spectroscopy of molecules in electronic excited states: toward mapping molecular potential energy hypersurfaces. **2011**, 28, 1043
- 840 Resolution-limited optical recording in 3D. *Optics Express*, **2011**, 19, 16096-105 3:3 7
- 839 Rapid, broadband two-photon-excited fluorescence spectroscopy and its application to red-emitting secondary reference compounds. **2011**, 1, 551 37
- 838 The two-photon absorption property of stilbazolium derivative with ADA structure: Influence by counter-anion and aggregation. **2011**, 161, 1194-1198 6
- 837 Determining the magnitude and direction of photoinduced ligand field switching in photochromic metal-organic complexes: molybdenum-tetracarbonyl spirooxazine complexes. **2011**, 133, 10081-93 42
- 836 Metal-glass nanocomposite for optical storage of information. **2011**, 99, 201904 31
- 835 Synthesis of star-shaped monodisperse oligo(9,9-di-n-octylfluorene-2,7-vinylene)s functionalized truxenes with two-photon absorption properties. **2011**, 9, 1600-7 32
- 834 Optically Induced Processes in Azopolymers. **2011**, 399-422 1
- 833 Time-resolved fluorescence study on the photomerocyanine form of spiropyran and its derivative with azobenzene. **2011**, 217, 35-39 13
- 832 Photocontrolled Reversible Dimensional Changes of Microstructured Photochromic Polymers. **2011**, , 0
- 831 A novel photochromic diarylethene based on a benzofuran moiety for optical recording. **2011**, ,
- 830 Optical data storage in photochromic compounds. **2011**, 1
- 829 Synthesis and application for optical recording of a new diarylethene having a benzene unit. **2011**, 276, 012149
- 828 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
- 827 Photochromic behavior of spironaphthoxazine in metal ion-containing solutions. **2011**, 222, 236-240 9
- 826 Synthesis and photophysical properties of two Platinum(II) diimine diacetylides [A new approach for fluorescent two-photon absorption materials from organometallics. **2011**, 513, 103-107 6
- 825 Effects of isomerism on two-photon absorption of substituted benzenes with two pairs of donor-acceptors. **2011**, 514, 226-233 9

| | | |
|-----|--|--------|
| 824 | Fast and stable photochromic oxazines for fluorescence switching. 2011 , 27, 11773-83 | 65 |
| 823 | Selective photochromism and solvatochromism of a diarylethene with different bridge units. 2011 , 21, 1246-1249 | 29 |
| 822 | Photoinduced orientational order of dichloride anion radicals. 2011 , 85, 695-701 | 2 |
| 821 | Noncovalent Functionalization of SWNTs with Azobenzene-Containing Polymers: Solubility, Stability, and Enhancement of Photoresponsive Properties. 2011 , 115, 4533-4539 | 55 |
| 820 | Optical switching behavior of azobenzene/PMMA blends with high chromophore concentration. 2011 , 46, 2488-2494 | 16 |
| 819 | A comparative study of one- and two-photon absorption properties of pyrene and perylene diimide derivatives. 2011 , 17, 1413-25 | 10 |
| 818 | Reversible light-induced capacitance switching of azobenzene ether/PMMA blends. 2011 , 102, 421-427 | 10 |
| 817 | Theoretical investigation of one- and two-photon spectra of pyrazabole chromophores. 2011 , 130, 37-50 | 6 |
| 816 | Molecular adlayer and photo-induced structural transformation of a diarylethene derivative on Au(111) investigated with scanning tunneling microscopy. 2011 , 656, 304-311 | 6 |
| 815 | Prototropic tautomerism and solid-state photochromism of N-phenyl-2-aminotropones. <i>Dyes and Pigments</i> , 2011 , 89, 319-323 | 4.6 26 |
| 814 | Synthesis of diarylethene derivatives containing various heterocycles and tuning of light-emitting properties in a turn-on fluorescent diarylethene system. <i>Dyes and Pigments</i> , 2011 , 90, 290-296 | 4.6 35 |
| 813 | Fluorene as the spacer for new two-photon absorption chromophores. 2011 , 67, 734-739 | 31 |
| 812 | Synthesis and two-photon absorption properties of conjugated polymers with N-arylpyrrole as conjugated bridge and isolation moieties. 2011 , 49, 2538-2545 | 5 |
| 811 | Free volume changes on optical switching in azobenzene-polymethylmethacrylate blends studied by a pulsed low-energy positron beam. 2011 , 49, 404-408 | 6 |
| 810 | Modulation of color change and photocyclization of diarylethene with metal complex. 2011 , 24, 517-521 | 9 |
| 809 | Optically triggered dissociation of kinetically stabilized block copolymer vesicles in aqueous solution. 2011 , 32, 972-6 | 21 |
| 808 | Two-photon 3D optical data storage via aggregate switching of excimer-forming dyes. 2011 , 23, 2425-9 | 66 |
| 807 | Photochromism of Rotation-Hindered Furylfulgides Influenced by Steric Modifications. 2011 , 2011, 1947-1955 | 25 |

| | | | | |
|-----|---|-----|----|-----|
| 806 | Functionalized Fulgides and Fluorophore-Photoswitch Conjugates. 2011 , 2011, 4645-4653 | | | 14 |
| 805 | Solid-state photochromic behavior and thermal bleaching kinetics of two novel pyrazolone phenylsemicarbazones. 2011 , 12, 2338-44 | | | 7 |
| 804 | Two-photon STED spectral determination for a new V-shaped organic fluorescent probe with efficient two-photon absorption. 2011 , 12, 2755-62 | | | 14 |
| 803 | Green and sustainable chemical synthesis using flow microreactors. 2011 , 4, 331-40 | | | 344 |
| 802 | Von der Fläche ins Volumen –Materialkonzepte für optisch-holographische Datenspeicher der Zukunft. 2011 , 123, 4646-4668 | | | 9 |
| 801 | Softening and Hardening of Macro- and Nano-Sized Organic Cocrystals in a Single-Crystal Transformation. 2011 , 123, 8801-8805 | | | 19 |
| 800 | From the surface to volume: concepts for the next generation of optical-holographic data-storage materials. 2011 , 50, 4552-73 | | | 134 |
| 799 | Softening and hardening of macro- and nano-sized organic cocrystals in a single-crystal transformation. 2011 , 50, 8642-6 | | | 85 |
| 798 | Mechanistic insights into photochromic behavior of a ruthenium(II)-pterin complex. <i>Chemistry - A European Journal</i> , 2011 , 17, 6652-62 | 4.8 | 12 | |
| 797 | Synthesis and photochemical investigations of tetrasubstituted alkenes as molecular switches--the effect of substituents. <i>Chemistry - A European Journal</i> , 2011 , 17, 8452-61 | 4.8 | 66 | |
| 796 | Synthesis and properties of hybrid porphyrin tapes. <i>Chemistry - A European Journal</i> , 2011 , 17, 14400-12 | 4.8 | 61 | |
| 795 | Iridium(III) complexes in discs for two-photon excitation applications. 2011 , 509, 162-168 | | | 16 |
| 794 | Construction of multi-level fluorescent switch using photochromic diarylethene and fluorescent dye. <i>Dyes and Pigments</i> , 2011 , 89, 212-216 | 4.6 | 20 | |
| 793 | Synthesis and photochromic properties of a multiple responsive diarylethene and its selective binding affinity for copper(II) ion. <i>Dyes and Pigments</i> , 2011 , 91, 435-441 | 4.6 | 43 | |
| 792 | Diarylethene-based imines and amines: Synthesis, photochromic properties and effects of substitution. 2011 , 218, 192-198 | | | 11 |
| 791 | Synthesis and the effects of substitution upon photochromic diarylethenes bearing an isoxazole moiety. 2011 , 67, 1438-1447 | | | 64 |
| 790 | Parallel Signal Readout for Roll-Type Optical Advanced Memory. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 09MF04 | 1.4 | 1 | |
| 789 | Influence of temperature on dynamics of birefringence switching in photochromic nematic phase. <i>Journal of Applied Physics</i> , 2011 , 110, 113104 | 2.5 | 2 | |

- 788 Manipulation of multidimensional plasmonic spectra for information storage. **2011**, 98, 171106 20
- 787 Pulsed laser induced switching of birefringence in nematic phase of photochromic molecules. **2011**, 98, 081105 3
- 786 Synthesis and Property upon a New Photochromic Diarylethene Bearing an Isoxazole Moiety. **2011**,
- 785 Synthesis, Properties and Application in Optical Memory of a New Photochromic Diarylethene. **2011**, 474-476, 1259-1262
- 784 Synthesis and Properties of a Novel Photochromic Diarylethene Bearing Methyl Group. **2011**, 393-395, 358-361
- 783 A Novel Photochromic Diarylethene Based on Pyrazole and Benzothiophene Moieties for Optical Recording. **2011**, 327, 53-56
- 782 Synthesis and Property of a New Diarylethene Bearing both an Isoxazole Moiety and a Chlorine Atom. **2011**, 239-242, 2427-2430
- 781 Research on the Application of DVD Pick-Up Head in Three-Dimensional Optical Storage. **2011**, 291-294, 1377-1380
- 780 Synthesis and Property of a New Photochromic Diarylethene Bearing Thiophene and a Six-Membered Aryl Unit. **2011**, 197-198, 448-451 1
- 779 Synthesis and Properties of a Novel Diarylethene Having Two Fluorines. **2011**, 239-242, 2415-2418
- 778 Photochromic Fluorescence Switching Diarylethene Flanking a Methoxy Group. **2011**, 474-476, 1515-1518 1
- 777 Efficient Synthesis and Properties of a Photochromic Diarylethene Bearing an Isoxazole Moiety. **2011**, 474-476, 1496-1499
- 776 Synthesis and Property of a New Photochromic Diarylethene Bearing both an Isoxazole Unit and a Methoxy Group. **2012**, 455-456, 21-24 1
- 775 Study on Composite Photochromic Properties of New Diarylethenes Bearing Naphthyl Rings. **2012**, 583, 134-137
- 774 Synthesis and Properties of a Novel Photochromic Diarylethene Material Bearing Two Five-Membered Aryl Unit. **2012**, 164, 247-250 0
- 773 Photochromic Composite Properties and Application in Optical Memory of a Diarylethene with Benzofuran Unit. **2012**, 583, 117-120
- 772 Synthesis of a Novel Photochromic Fluorescence Switching Diarylethene for Optical Recording Storage. **2012**, 490-495, 3681-3684
- 771 Synthesis and Fluorescence Switching of a New Unsymmetrical Diarylethene Bearing a Pyridine Ring. **2012**,

| | | | |
|-----|---|-----|----|
| 770 | Effect of intramolecular charge transfer on the two-photon absorption behavior of multibranched triphenylamine derivations. <i>Journal of Applied Physics</i> , 2012 , 111, 053516 | 2.5 | 5 |
| 769 | A new repeatable, optical writing and electrical erasing device based on photochromism and electrochromism of viologen. 2012 , 21, 085006 | | 4 |
| 768 | The Molecular Structures of Alpha-Brominated 2,5-Dimethyl-Terephthalonitrile Derivatives and the Dependences of Their Yields on the Reaction Time. 2012 , 476-478, 1178-1185 | | |
| 767 | Concentration dependence of photoinduced birefringence and second-order susceptibility in all-optical poling. 2012 , | | |
| 766 | Ultrafast dynamics of a spiropyran in water. 2012 , 134, 14070-7 | | 69 |
| 765 | Solid-state thermo- and photochromism in N,N'-bis(5-X-salicylidene)diamines (X = H, Br). 2012 , 2, 11379 | | 34 |
| 764 | Light-Induced Inhibition of Photoluminescence Emission of Core/Shell Semiconductor Nanorods and Its Application for Optical Data Storage. 2012 , 116, 25576-25580 | | 6 |
| 763 | Theoretical insight into linear optical and two-photon absorption properties for a series of N-arylpyrrole-based dyes. 2012 , 10, 7527-35 | | 8 |
| 762 | Synthesis and photochromic properties of novel pyridine-containing diarylethenes. <i>Dyes and Pigments</i> , 2012 , 95, 553-562 | 4.6 | 29 |
| 761 | Photoconversion of a protonated diarylethene derivative. 2012 , 116, 9900-3 | | 18 |
| 760 | Synthesis and Properties of Photochromic Diarylethene Containing N-Salicylideneaniline Units. <i>Molecular Crystals and Liquid Crystals</i> , 2012 , 557, 84-89 | 0.5 | 2 |
| 759 | A new 2,2':6',2''-terpyridine-based ligand and its complexes: structures, photophysical properties and DFT calculations to evaluate the halogen effect on the TPA. 2012 , 14, 5613 | | 19 |
| 758 | New Unsymmetrical Photochromic 1,2-Diaryleperfluorocyclopentenes Bearing a Naphthalene and Thiophene Moiety. 2012 , | | |
| 757 | Fusing three perylenebisimide branches and a truxene core into a star-shaped chromophore with strong two-photon excited fluorescence and high photostability. 2012 , 48, 4338-40 | | 48 |
| 756 | Exceptionally strong multiphoton-excited blue photoluminescence and lasing from ladder-type oligo(p-phenylene)s. 2012 , 134, 7297-300 | | 53 |
| 755 | A Low-Bandgap Conjugated Copolymer Based on Porphyrin and Dithienocoronene Diimide with Strong Two-Photon Absorption. 2012 , 45, 7823-7828 | | 35 |
| 754 | Switching by Photochemical trans \rightarrow cis Isomerization of Azobenzene Substituents in Organoplatinum Complexes. 2012 , 31, 6262-6269 | | 38 |
| 753 | Solvent effects on isomerization and spectral properties of photochromic-switching diarythene derivatives in polar and apolar solutions. 2012 , 116, 913-23 | | 14 |

| | | | |
|-----|--|-----|-----|
| 752 | Cadmium(II)-imidazolylazo dyes: Synthesis, structure and photochromism. 2012 , 46, 81-89 | | 11 |
| 751 | Three iodometalate organic-inorganic hybrid materials based on methylene blue cation: Syntheses, structures, properties and DFT calculations. 2012 , 14, 1226-1232 | | 23 |
| 750 | Structural changes in bacteriorhodopsin caused by two-photon-induced photobleaching. 2012 , 116, 7455-62 | | 14 |
| 749 | Luminogenic materials constructed from tetraphenylethene building blocks: Synthesis, aggregation-induced emission, two-photon absorption, light refraction, and explosive detection. 2012 , 22, 232-240 | | 205 |
| 748 | Synthesis and photochromism of isomeric unsymmetrical diarylethenes bearing both naphthalene and thiophene moieties. 2012 , 243, 47-55 | | 5 |
| 747 | Tailoring of molecular planarity to reduce charge injection barrier for high-performance small-molecule-based ternary memory device with low threshold voltage. 2012 , 24, 6210-5 | | 116 |
| 746 | Nondestructive photoluminescence read-out by intramolecular electron transfer in a perylene bisimide-diarylethene dyad. <i>Chemistry - A European Journal</i> , 2012 , 18, 13651-64 | 4.8 | 48 |
| 745 | Two-photon absorption and time-resolved stimulated emission depletion spectroscopy of a new fluorenyl derivative. 2012 , 13, 3481-91 | | 16 |
| 744 | Polymer Photonics. 2012 , 211-260 | | 4 |
| 743 | Molecular Brushes. 2012 , 199-264 | | 21 |
| 742 | Crown ether-containing N-salicylidene aniline derivatives: synthesis, characterization and optical properties. 2012 , 14, 5523 | | 24 |
| 741 | Selective photoconversion of photochromic diarylethenes and their properties. <i>New Journal of Chemistry</i> , 2012 , 36, 2223 | 3.6 | 12 |
| 740 | Highly stable photochromic crystalline material based on a close-packed layered metal-organic coordination polymer. 2012 , 22, 17452 | | 44 |
| 739 | Platinum Complexes of Alkynyl-Substituted Dimethyldihydropyrenes. 2012 , 31, 8121-8134 | | 13 |
| 738 | Photoswitchable nanoparticles for triggered tissue penetration and drug delivery. 2012 , 134, 8848-55 | | 359 |
| 737 | Preparation and Photophysical Properties of Two-Photon Absorption Materials Containing Quinoline Ring as Electron Acceptors. 2012 , 557-559, 755-760 | | |
| 736 | Structural influence on the photochromic response of a series of ruthenium mononitrosyl complexes. <i>Inorganic Chemistry</i> , 2012 , 51, 7492-501 | 5.1 | 68 |
| 735 | Cooperative effects to enhance two-photon absorption efficiency: intra- versus inter-molecular approach. 2012 , 14, 3725-36 | | 68 |

| | | | |
|-----|--|-----|-----|
| 734 | Transient excited-state absorption and gain spectroscopy of a two-photon absorbing probe with efficient superfluorescent properties. 2012 , 116, 11261-11271 | | 24 |
| 733 | Molecular length adjustment for organic azo-based nonvolatile ternary memory devices. 2012 , 22, 16582 | | 59 |
| 732 | Photoswitching electrospun nanofiber based on a spironaphthoxazine-bisphosphorane-based fluorescent dye system. <i>Dyes and Pigments</i> , 2012 , 92, 542-547 | 4.6 | 12 |
| 731 | Modulation of absorption and fluorescence of photochromic diarylethene by intramolecular hydrogen bond. 2012 , 25, 142-146 | | 9 |
| 730 | Radiochromic film containing spiropyran dye for dosimetry of low energy X-rays. 2012 , 25, 427-430 | | 18 |
| 729 | Holography and Optical Storage. 2012 , 1519-1568 | | |
| 728 | Experimental and theoretical studies on the one-photon and two-photon properties of a series of carbazole derivatives containing styrene. 2012 , 25, 362-372 | | 17 |
| 727 | Trans-keto* form detection in non photochromic N-salicylidene aminomethylpyridines. 2012 , 14, 4396 | | 45 |
| 726 | Organic photoresponse materials and devices. 2012 , 41, 1754-808 | | 493 |
| 725 | Improved photochromic and fatigue performance of (E)-dicyclopropylmethylene-(2,5-dimethyl-3-furylethylidene)-succinic anhydride doped in polyurethane thin film. 2012 , 52, 1212-1216 | | 5 |
| 724 | Azo-hydrazone tautomerism observed from UV-vis spectra by pH control and metal-ion complexation for two heterocyclic disperse yellow dyes. 2012 , 41, 11107-15 | | 73 |
| 723 | Efficient nonlinear optical properties of dyes confined in interlayer nanospaces of clay minerals. 2012 , 7, 1170-9 | | 44 |
| 722 | Syntheses and fully diastereospecific photochromic reactions of thiophenophan-1-enes with chiral bridges. <i>Chemistry - A European Journal</i> , 2012 , 18, 9638-44 | 4.8 | 19 |
| 721 | Fast fluorescence switching within hydrophilic supramolecular assemblies. <i>Chemistry - A European Journal</i> , 2012 , 18, 10399-407 | 4.8 | 33 |
| 720 | Practical synthesis of photochromic diarylethenes in integrated flow microreactor systems. 2012 , 5, 339-50 | | 19 |
| 719 | Through-space control of the persistence of photogenerated o-quinonoid intermediates in naphthalenes containing cofacially oriented chromenes and arenes. 2012 , 14, 2438-41 | | 18 |
| 718 | Synthesis, properties, and electrical memory characteristics of new diblock copolymers of polystyrene-block-poly(styrene-pyrene). 2012 , 69, 29-47 | | |
| 717 | N-Salicylidene anil anions as thermo-sensitive components of organic-inorganic hybrid materials. 2012 , 380, 104-113 | | 23 |

- 716 Studies on 1-alkyl-2-(arylo)imidazole complexes of lead(II) and their photoisomerization. **2012**, 387, 352-360 11
- 715 Photochromic behavior of a bithienylethene bearing Cu(I)-1,10-phenanthroline complexes. *Dyes and Pigments*, **2012**, 92, 861-867 4.6 13
- 714 Photochromism of new unsymmetrical diarylethene derivatives bearing both benzofuran and thiophene moieties. *Dyes and Pigments*, **2012**, 94, 195-206 4.6 24
- 713 Phenylazoimidazole as a possible optical molecular switch: An ab initio study. **2012**, 123, 1307-1310 8
- 712 Selective acceleration of the protonated merocyanine-spiropyran photochromic transformation by inclusion in cucurbit[7]uril. *Photochemistry and Photobiology*, **2012**, 88, 1461-6 3.6 9
- 711 New arylhydrazones of β -diketones and their optical and thermal properties. *Journal of Molecular Structure*, **2012**, 1019, 16-20 3.4 4
- 710 Photochromism of new unsymmetrical isomeric diarylethenes bearing a pyridine group. **2012**, 68, 2267-2275 29
- 709 New photochromic 1,2-diarylperfluorocyclopentenones bearing unsymmetrical six-membered aryl units. **2012**, 53, 320-324 18
- 708 The synthesis, structure and photochromism of mercury(II)-iodide complexes of 1-CnH_{2n+1}-2-(arylo)imidazoles (n=4, 6, 8). **2012**, 31, 506-514 18
- 707 Modulation of a fluorescence switch of nanofiber mats containing photochromic spironaphthoxazine and D-BA charge transfer dye. *Journal of Luminescence*, **2012**, 132, 1427-1431 3.8 10
- 706 Effect of phenols and carboxylic acids on photochromism of 1-alkyl-2-(arylo)imidazoles. *Journal of Luminescence*, **2012**, 132, 2371-2377 3.8 9
- 705 Relation between photochromic properties and molecular structures in salicylideneaniline crystals. **2012**, 68, 297-304 42
- 704 Influence of polymer polarity on photochromic behavior of naphthodipyran doped in different polymeric matrixes. **2012**, 124, 4157-4164 14
- 703 Photochromic behavior of naphthopyran in styrene-butadiene-ethylene elastomer thin films: Effect of stretching of film and linker. **2013**, 127, 1794-1802 11
- 702 ON-OFF luminescence signaling of hybrid organic-inorganic switches. *Inorganic Chemistry*, **2013**, 52, 8579-80 10
- 701 Enhancement of cyclization quantum yields of perfluorodiarylethenes via weak intramolecular interactions. **2013**, 49, 8036-8 47
- 700 Synthesis and photochromism of a novel water-soluble diarylethene with glucosyltriazolyl groups. **2013**, 54, 474-477 11
- 699 NLO response of photoswitchable azobenzene-based materials. **2013**, 14, 2961-72 39

| | | | |
|-----|--|-----|----|
| 698 | Synthesis, growth, crystalline perfection of 4-bromo-4'-dimethylamino benzylideneaniline (BDMABA) and photons absorption of BDMABA crystal. 2013 , 104, 403-8 | | 13 |
| 697 | Thermodynamic, kinetic and electronic structure aspects of a charge-transfer active bichromophoric organofullerene. 2013 , 125, 237-246 | | 1 |
| 696 | Effect of Immobilization on Gold on the Temperature Dependence of Photochromic Switching of Dithienylethenes. 2013 , 117, 17623-17632 | | 17 |
| 695 | Synthesis of 1,3,3',4-tetrahydrospiro[chromene-2,2'-indoles] as a new class of ultrafast light-driven molecular switch. 2013 , 69, 9309-9315 | | 5 |
| 694 | Spirooxazine-based multifunctional molecular switches with tunable photochromism and nonlinear optical response. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 5779 | 7.1 | 20 |
| 693 | Substituents effect on thermal electrocyclic reaction of dihydroazulene- <i>vinyl</i> heptafulvene photoswitch: a DFT study to improve the photoswitch. 2013 , 24, 2115-2126 | | 27 |
| 692 | Fabrication of Microstructures Containing High Refractive Index Materials by Two-Photon Lithography. <i>Molecular Crystals and Liquid Crystals</i> , 2013 , 578, 4-18 | 0.5 | 2 |
| 691 | Design of oligothiophene-based tetrazoles for laser-triggered photoclick chemistry in living cells. 2013 , 49, 9920-2 | | 76 |
| 690 | Photoswitchable organocatalysis in acylation of alcohol using dithienylethene-linked azoles. 2013 , 69, 11064-11069 | | 10 |
| 689 | Theoretical study on the diradical characters and third-order nonlinear optical properties of transition-metal heterodinuclear systems. 2013 , 579, 73-77 | | 6 |
| 688 | Photochromic and nonlinear optical properties of fulgides: A density functional theory study. 2013 , 1022, 82-85 | | 26 |
| 687 | Effects of Spacers on the linear and nonlinear optical properties of novel fluorenone-based DAD type conjugated oligomers with different donors. 2013 , 35, 1373-1377 | | 15 |
| 686 | Two-photon absorption three-dimensional optical data storage with novel anthracene derivative. 2013 , | | 1 |
| 685 | Synthesis and properties of polyvinylpyrrolidone films containing the photomagnetic chromium (tris)oxalate complex. 2013 , 62, 554-559 | | 1 |
| 684 | Synthesis, characterization, and properties of some bisacetylide and binuclear acetylide gold(I) compounds based on the photochromic dithienylethene unit. <i>Dyes and Pigments</i> , 2013 , 99, 995-1003 | 4.6 | 9 |
| 683 | Intercalated iodobismuthate in the layers of azoimidazoles. Structure, photochromism and DFT computation. 2013 , 54, 147-157 | | 14 |
| 682 | Substituent and solvent effects on the fluorescent and photochromic properties of 2-(2-pyridyl)imidazole containing diarylethene derivatives. 2013 , 3, 24146 | | 12 |
| 681 | Colorimetric detection of transition metal ions with azopyridine-based probing molecule in aqueous solution and in PMMA film. 2013 , 14, 1993-1998 | | 5 |

| | | | |
|-----|--|-----|----|
| 680 | Computational modeling of chelating properties of quinoline spiropyrans. 2013 , 453, 263-267 | | 5 |
| 679 | New dyes with enhanced two-photon absorption cross-sections based on the Cd(II) and 4'-[4-(4-(imidazole)styryl)phenyl]-2,2':6',2''-terpyridine. <i>Journal of Coordination Chemistry</i> , 2013 , 66, 2992-3003 | 1.6 | 5 |
| 678 | One-pot synthesis of monodispersed silica nanoparticles for diarylethene-based reversible fluorescence photoswitching in living cells. 2013 , 49, 7528-30 | | 18 |
| 677 | A TPE-oxazoline molecular switch with tunable multi-emission in both solution and solid state. 2013 , 3, 16986 | | 45 |
| 676 | Revealing the Electronic and Molecular Structure of Randomly Oriented Molecules by Polarized Two-Photon Spectroscopy. 2013 , 4, 1753-9 | | 16 |
| 675 | Enhanced photoswitching and ultrafast dynamics in structurally modified photochromic fulgides. 2013 , 32, 1-38 | | 25 |
| 674 | Photoswitchable aggregation-induced emission of a dithienylethene-tetraphenylethene conjugate for optical memory and super-resolution imaging. 2013 , 3, 8967 | | 77 |
| 673 | Design, synthesis and optical properties of a green fluorescent photoswitchable hexaarylbiimidazole (HABI) with non-conjugated design. 2013 , 3, 9167 | | 18 |
| 672 | Formation mechanisms of multiple holographic gratings in spirooxazine-doped polymer films. 2013 , 124, 139-143 | | 5 |
| 671 | Synthesis and photophysical properties of thiolactone derivatives. 2013 , 69, 1872-1876 | | 5 |
| 670 | Reaction of spironaphthoxazine with acid. 2013 , 252, 100-106 | | |
| 669 | Determination of structural, spectrometric and nonlinear optical features of 2-(4-hydroxyphenylazo)benzoic acid by experimental techniques and quantum chemical calculations. 2013 , 105, 80-7 | | 11 |
| 668 | Self-assembled triphenylamine-hexaazatriphenylene two-photon absorption dyes. 2013 , 69, 29-37 | | 19 |
| 667 | Photochromism of asymmetrical diarylethenes with a pyrrole unit: effects of aromatic stabilization energies of aryl rings. 2013 , 15, 980-3 | | 98 |
| 666 | Interplay between the diradical character and third-order nonlinear optical properties in fullerene systems. <i>Chemistry - A European Journal</i> , 2013 , 19, 1677-85 | 4.8 | 34 |
| 665 | The CII activation of pendant naphthyl group of 1-alkyl-2-(naphthyl-azo)imidazole by rhodium(III). Spectral, structural characterization and, DFT computation. 2013 , 732, 109-115 | | 11 |
| 664 | Photochromism of new isomeric pyridine-containing diarylethenes with a benzofuran moiety. <i>Dyes and Pigments</i> , 2013 , 99, 812-821 | 4.6 | 9 |
| 663 | Theoretical study on the diradical characters and third-order nonlinear optical properties of cyclic thiazyl diradical compounds. 2013 , 585, 112-116 | | 14 |

| | | | |
|-----|--|-----|-----|
| 662 | Photochromic bipyridyl metal complexes: Photoregulation of the nonlinear optical and/or luminescent properties. 2013 , 16, 1172-1182 | | 17 |
| 661 | Transducer influence of polycyclic aromatic hydrocarbons (PAHs) on photoisomerisation of 1-alkyl-2-(arylo)imidazoles. 2013 , 104, 477-85 | | 11 |
| 660 | Synthesis, properties, and mechanism of two novel photoisomerization pyrazolones in the solid state. <i>Journal of Molecular Structure</i> , 2013 , 1035, 271-276 | 3-4 | 7 |
| 659 | Photo switchable pendant furyl and thienyl fulgimides containing polypyrroles. 2013 , 98, 2224-2231 | | 6 |
| 658 | Synthesis, growth and characterization of 4-bromo-4'-nitrobenzylidene aniline (BNBA): a novel nonlinear optical material with a (3+1)-dimensional incommensurately modulated structure. 2013 , 15, 2474 | | 12 |
| 657 | Amphiphilic azo polymers: Molecular engineering, self-assembly and photoresponsive properties. 2013 , 38, 271-301 | | 180 |
| 656 | Self-assembly of PS-b-P4VP block copolymers of varying architectures in aerosol nanospheres. 2013 , 9, 1492-1499 | | 23 |
| 655 | In situ preparation of highly fluorescent pyrene-dyes from non-luminous precursors upon photoirradiation. 2013 , 49, 3661-3 | | 16 |
| 654 | Recent functional material based approaches to prevent and detect counterfeiting. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2388 | 7.1 | 280 |
| 653 | Characterization of fatigue resistance in photochromic composite materials for 3D rewritable optical memory applications. 2013 , 178, 730-735 | | 11 |
| 652 | Rh(II)-carbenoid mediated 2H-azirine ring-expansion as a convenient route to non-fused photo- and thermochromic 2H-1,4-oxazines. 2013 , 69, 4292-4301 | | 37 |
| 651 | Syntheses and photochromism of new isomeric diarylethenes bearing an indole moiety. <i>Dyes and Pigments</i> , 2013 , 98, 565-574 | 4.6 | 17 |
| 650 | Optical polymer materials with photocontrolled fluorescence. 2013 , 35, 1805-1809 | | 16 |
| 649 | Imidazole-Based Dithienylethenes: Synthesis, Photochromism, and Effects of Metal Ions. <i>Molecular Crystals and Liquid Crystals</i> , 2013 , 575, 1-7 | 0.5 | |
| 648 | Photocontrolled template-directed synthesis of complementary double helices assisted by amidinium-carboxylate salt bridge formation. 2013 , 4, 2960 | | 10 |
| 647 | Synthesis and redox and photophysical properties of benzodifuran-spiropyran ensembles. <i>Chemistry - A European Journal</i> , 2013 , 19, 6459-66 | 4.8 | 9 |
| 646 | Tuning Photoswitchable Dual-Color Fluorescence from Core-Shell Polymer Nanoparticles. 2013 , 53, 294-302 | | 11 |
| 645 | Photophysical Properties and Ultrafast Excited-State Dynamics of a New Two-Photon Absorbing Thiopyranyl Probe. 2013 , 117, 11941-11952 | | 21 |

- 644 Surface-Enhanced Hyper-Raman Scattering Elucidates the Two-Photon Absorption Spectrum of Rhodamine 6G. **2013**, 117, 3046-3054 31
- 643 Synthesis and Photoresponse of Helically Folded Poly(phenyleneethynylene)s Bearing Azobenzene Moieties in the Main Chains. **2013**, 46, 4378-4387 29
- 642 Synthesis of 3-(5-Methylthiophen-2-yl)coumarins and Their Photochromic Dihetarylethene Derivatives. **2013**, 50, 891-898 4
- 641 Synthesis of 1-vinylidene-naphthofurans: a thermally reversible photochromic system that colors only when adsorbed on silica gel. *Journal of Organic Chemistry*, **2013**, 78, 6956-61 4.2 17
- 640 DFT Computational Design of a Ligand-Driven Light-Induced Mechanism for Spin-State Switching. *European Journal of Inorganic Chemistry*, **2013**, 2013, 4203-4219 2.3 9
- 639 Fluorescent properties of an azacrown-containing styryl derivative of naphthopyran: ion-binding response and photochemical switching off. *Photochemical and Photobiological Sciences*, **2013**, 12, 1803-10² 5
- 638 Photochemical Materials: Absorbers, Emitters, Displays, Sensitisers, Acceptors, Traps and Photochromics. **2013**, 149-216
- 637 Photodynamics of Schiff base salicylideneaniline: trajectory surface-hopping simulations. **2013**, 117, 4574-83 62
- 636 Synthesis, chemical and optical characterization and solvent interaction effect of novel fluorene-chromophores with DAD structure. *Dyes and Pigments*, **2013**, 98, 31-41 4.6 23
- 635 Finite-field method with unbiased polarizable continuum model for evaluation of the second hyperpolarizability of an open-shell singlet molecule in solvents. **2013**, 34, 2345-52 1
- 634 Theoretical insight into the inelastic electron tunneling spectra of an anil derivative. **2013**, 117, 12783-95 3
- 633 Virus-based photo-responsive nanowires formed by linking site-directed mutagenesis and chemical reaction. **2013**, 3, 1820 31
- 632 Photochromic materials: more than meets the eye. **2013**, 25, 378-99 671
- 631 Two-Photon Absorption And Time-Resolved Stimulated Emission Depletion Spectroscopy Of A New Push-Pull Fluorene Derivative. **2013**,
- 630 Dynamics of short-pulse generation via spectral filtering from intensely excited gain-switched 1.55- μm distributed-feedback laser diodes. *Optics Express*, **2013**, 21, 10597-605 3.3 10
- 629 Electro-optic properties of novel azobenzene polymers. **2013**,
- 628 1-Alkyl-2-((O-Thioalkyl)Phenylazo)Imidazole Complexes of PbII and Their Photochromic Property. **2013**, 639, 1861-1870 5
- 627 Syntheses and Properties of 1-(2-ethyl-1-benzofuran-3-yl)-2-(2-methyl-1-benzothiophene-3-yl)Perfluorocyclopentene. **2013**, 473, 85-88

| | | | |
|-----|---|------|------|
| 626 | Synthesis, Crystal Structure and Photochromic Properties of a New Unsymmetrical Diarylethene. 2013 , 37, 574-578 | | 3 |
| 625 | Synthesis and Photochromism of a Novel Diarylethene Bearing Xylosyltriazolyl Groups. 2013 , 763, 93-96 | | |
| 624 | Study on Photochromic Properties of 1-(2-methoxyphenyl)-2-[2-methyl-5-(1,3-dioxolane)-3-thienyl]perfluorocyclopentene. 2013 , 830, 246-249 | | |
| 623 | Image storage in coumarin-based copolymer thin films by photoinduced dimerization. <i>Optics Letters</i> , 2013 , 38, 4636-9 | 3 | 9 |
| 622 | Direct Observation of Peristrophic Multiplexing Holograms with a Phase Contrast Microscope. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 09LD08 | 1.4 | 1 |
| 621 | Study on Material Properties with Synthesis and Properties of a Photochromic Diarylethene with Acetal Unit. 2013 , 327, 83-88 | | |
| 620 | Photochromism and Optical Recording of a Novel Photochromic Diarylethene Material Bearing a Phenanthrenyl Unit. 2013 , 788, 211-214 | | |
| 619 | Synthesis and Photochromism Studies of 1-(2,4-dimethoxyl-5-pyrimidinyl)-2-[2-methyl-5-(2-methoxyphenyl)-3-thienyl]perfluorocyclopentene. 2013 , 468, 83-86 | | |
| 618 | Toward Bifunctional Materials with Conducting, Photochromic and Spin Crossover Properties. 2013 , 149-184 | | 2 |
| 617 | Nonsymmetrical dithienylethenes bearing dithieno[3,2-b:2',3'-d]thiophene units with photochromic performance in the crystalline phase. <i>Chemistry - A European Journal</i> , 2013 , 19, 3366-73 | 4.8 | 7 |
| 616 | A trident dithienylethene-perylenemonoimide dyad with super fluorescence switching speed and ratio. 2014 , 5, 5709 | | 110 |
| 615 | Photochromism of diarylethene molecules and crystals: memories, switches, and actuators. <i>Chemical Reviews</i> , 2014 , 114, 12174-277 | 68.1 | 1643 |
| 614 | Temperature-triggered reversible dielectric and nonlinear optical switch based on the one-dimensional organic-inorganic hybrid phase transition compound [C ₆ H ₁₁ NH ₃] ₂ CdCl ₄ . <i>Inorganic Chemistry</i> , 2014 , 53, 11146-51 | 5.1 | 69 |
| 613 | Can short- and middle-range hybrids describe the hyperpolarizabilities of long-range charge-transfer compounds?. 2014 , 118, 11787-96 | | 45 |
| 612 | Solid state photochromism and thermochromism of two related N-salicylidene anilines. 2014 , 444, 43-51 | | 29 |
| 611 | Photochromism and Fluorescent of a Novel Diarylethene Bearing Methylpyridine Group. 2014 , 952, 105-108 | | |
| 610 | Synthesis and Properties of a New Diarylethene 1-[2-methyl-5-(10-phenanthrenyl)-3-thienyl]-2-[2-methyl-5-(4-formylphenyl)-3-thienyl]perfluorocyclopentene. 2014 , 952, 113-116 | | |
| 609 | Synthesis and Photochromism Studies of 1-(2,4-dimethoxyl-5-pyrimidinyl)-2-[2-methyl-5-(3-trifluoromethylphenyl)-3-thienyl]perfluorocyclopentene. 2014 , 886, 172-174 | | |

- 608 Two-Photon Absorbing Molecules as Potential Materials for 3D Optical Memory. **2014**, 4, 1-18 30
- 607 Synthesis and Properties of 1-[2,5-dimethyl-3-thienyl]-2-[2-methyl-5-(p-N,N-dimethylaminophenyl)-3-thienyl]perfluorocyclopentene. **2014**, 886, 155-158
- 606 Synthesis and Photochromism Studies of 1-(2-methyl-3-benzofuran)-2-[2-methyl-5-naphthyl-3-thienyl]perfluorocyclopentene. **2014**, 1078, 86-89
- 605 Synthesis and Properties of 1-(2-methyl-3-benzothienyl)-2-[2-methyl-5-(3-trifluoromethyl)-3-thienyl]perfluorocyclopentene. **2014**, 1078, 106-109
- 604 Efficient Synthesis, Photochromism and Fluorescence Properties of a Novel Diarylethene Bearing a Fluorene. **2014**, 1003, 51-54
- 603 Efficient Synthesis, Photochromism and Fluorescence Properties of a Novel Diarylethene Bearing a Naphthalene. **2014**, 1003, 59-62
- 602 Synthesis and Properties Study of 1-(2,4-dimethoxyl-5-pyrimidinyl)-2-[2-methyl-5-(4-n-pentylbenzene)-3-thienyl] Perfluorocyclopentene. **2014**, 952, 75-78
- 601 Synthesis and Properties of a Novel Unsymmetrical Diarylethene{1-[2-methyl-5-(10-phenanthrenyl)-3-thienyl]-2-[2-methyl-5-[4-(2-(1,3-dioxolane))phenyl]-3-thienyl]} Perfluorocyclopentene. **2014**, 952, 59-62
- 600 Synthesizes and Properties Research of a Photochromic Diarylethene Bearing a Ethynyl Moiety. **2014**, 952, 79-83
- 599 Synthesizes and Properties Research of 1-(1,2-dimethyl-7-azaindole-3-yl)-2-[2-methyl-5-(4-chlorophenyl)-3-thienyl] Perfluorocyclopentene. **2014**, 952, 84-87
- 598 Synthesis and Photochromic Properties of Diarylethene 1-[2,4-dimethyl-5-thiazolyl]-2-[2-methyl-5-(2-methylphenyl)-3-thienyl]perfluorocyclopentene. **2014**, 952, 92-95
- 597 Photochromism of new diarylethene derivatives based on the hybrid photochromic skeleton of benzofuran and benzene moieties. *Dyes and Pigments*, **2014**, 101, 15-24 4.6 12
- 596 Reversible photochromism of an N-salicylidene aniline anion. **2014**, 50, 649-51 34
- 595 Spectral and self-assembly properties of a series of asymmetrical pyrene derivatives. **2014**, 25, 237-242 5
- 594 Linear and nonlinear optical effects induced by energy transfer from semiconductor nanoparticles to photosynthetic biological systems. *Journal of Photochemistry and Photobiology C: Photochemistry Reviews*, **2014**, 20, 17-32 16.4 19
- 593 Photoinduced refractive index changes of 3-phenyl-coumarin containing polymers for ophthalmic applications. **2014**, 51, 21-27 14
- 592 Two-photon absorption properties of an acetylene derivative confined in the interlayer space of a smectite. **2014**, 96, 116-119 7
- 591 A computational study of the nonlinear optical properties of carbazole derivatives: theory refines experiment. **2014**, 133, 1 30

| | | | |
|-----|---|------|-----|
| 590 | Formation of polyfluorinated azobenzenes and azophenols in the reactions of chloropentafluoro-cyclohexa-2,5- and -2,4-dienones with phenyl- and pentafluorophenylhydrazines. 2014 , 50, 29-34 | | |
| 589 | 25th anniversary article: organic electronics marries photochromism: generation of multifunctional interfaces, materials, and devices. 2014 , 26, 1827-45 | | 226 |
| 588 | Nanoscience with Liquid Crystals. <i>Nanoscience and Technology</i> , 2014 , | 0.6 | 51 |
| 587 | A comparative study of selected disperse azo dye derivatives based on spectroscopic (FT-IR, NMR and UV-Vis) and nonlinear optical behaviors. 2014 , 122, 682-9 | | 17 |
| 586 | Optical Properties of Diarylethenes with TD-DFT: 0-0 Energies, Fluorescence, Stokes Shifts, and Vibronic Shapes. 2014 , 10, 3944-57 | | 22 |
| 585 | Synthesis, structure and photochromism of zinc(II) complexes of alkylthioaryazoimidazoles. 2014 , 67, 321-328 | | 7 |
| 584 | Photochromism of novel isomeric diarylethenes with benzofuran and pyridine moieties. <i>Dyes and Pigments</i> , 2014 , 105, 47-56 | 4.6 | 12 |
| 583 | Photochromism of two novel protoncontrollable isomeric diarylethenes with a pyridine moiety: substituent effects on their properties. 2014 , 70, 3971-3975 | | 3 |
| 582 | Cooperative intramolecular hydrogen bonding induced azo-hydrazone tautomerism of azopyrrole: Crystallographic and spectroscopic studies. <i>Dyes and Pigments</i> , 2014 , 102, 94-99 | 4.6 | 22 |
| 581 | High-performance two-photon absorption luminophores: large action cross sections, free from fluorescence quenching and tunable emission of efficient non-doped organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 3416 | 7.1 | 21 |
| 580 | Improving the photochromic properties of indolo[2,1-b][1,3]benzoxazines with phenylic substituents. 2014 , 278, 60-68 | | 12 |
| 579 | Nucleobase-grafted supramolecular polymers for tuning the surface properties. 2014 , 5, 702-705 | | 4 |
| 578 | Synthesis and photoreactivity of diketone-type precursors of acenes and their use in organic-device fabrication. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2014 , 18, 50-70 | 16.4 | 53 |
| 577 | Synthesis and photophysical properties of three ladder-type chromophores with large and rigid conjugation structures. <i>Dyes and Pigments</i> , 2014 , 102, 1-5 | 4.6 | 7 |
| 576 | New photoresponsive charge-transfer spiropyran/polyoxometalate assemblies with highly tunable optical properties. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 1628 | 7.1 | 41 |
| 575 | The role of colorants in the generation, storage, and output of digital still images. 2014 , 130, 8-12 | | |
| 574 | Water oxidation catalysts and pH sensors based on azo-conjugated iridium/rhodium motifs. 2014 , 43, 12221-7 | | 8 |
| 573 | Plasmonic Silver Nanowire Structures for Two-Dimensional Multiple-Digit Molecular Data Storage Application. <i>ACS Photonics</i> , 2014 , 1, 631-637 | 6.3 | 36 |

| | | |
|-----|---|--------|
| 572 | Arylazopyrazoles: azoheteroarene photoswitches offering quantitative isomerization and long thermal half-lives. 2014 , 136, 11878-81 | 206 |
| 571 | Designing Efficient Azobenzene and Azothiophene Nonlinear Optical Photochromes. 2014 , 118, 28831-28841 | 34 |
| 570 | Molecular design strategy toward diarylethenes that photoswitch with visible light. 2014 , 136, 17145-54 | 103 |
| 569 | Vibrational dynamics of the salicylideneaniline molecule in the solid phase and the confined state. 2014 , 16, 7562-70 | 6 |
| 568 | Poly β -cyclodextrin inclusion-induced formation of two-photon fluorescent nanomicelles for biomedical imaging. 2014 , 50, 8398-401 | 31 |
| 567 | Poly β -cyclodextrin/TPdye nanomicelle-based two-photon nanoprobe for caspase-3 activation imaging in live cells and tissues. 2014 , 86, 11440-50 | 37 |
| 566 | Ultrafast Z \rightarrow E photoisomerisation of structurally modified furylfulgides. 2014 , 16, 19556-63 | 8 |
| 565 | Photo-responsive [2]catenanes: synthesis and properties. 2014 , 12, 7702-11 | 24 |
| 564 | A ratiometric fluorescent molecular probe with enhanced two-photon response upon Zn ²⁺ binding for in vitro and in vivo bioimaging. 2014 , 5, 3469-3474 | 63 |
| 563 | Femtosecond Spectroscopy of Superfluorescent Fluorenyl Benzothiadiazoles with Large Two-Photon and Excited-State Absorption. 2014 , 118, 13790-13800 | 20 |
| 562 | Third-order nonlinear optical properties of one-dimensional open-shell molecular aggregates composed of phenalenyl radicals. <i>Chemistry - A European Journal</i> , 2014 , 20, 11129-36 | 4.8 42 |
| 561 | Highly efficient cycloreversion of photochromic dithienylethene compounds using visible light-driven photoredox catalysis. 2014 , 5, 1463 | 35 |
| 560 | Optically controlled molecular switching of an indolobenzoxazine-type photochromic compound. 2014 , 118, 5642-51 | 14 |
| 559 | Adsorption energetics of azobenzenes on noble metal surfaces. 2014 , 26, 355004 | 10 |
| 558 | New Kind of Hyperbranched Conjugated Polymers Containing Alkyl-Modified 2,4,6-Tris(thiophen-2-yl)-1,3,5-triazine Unit for Enhancing Two-Photon Absorption. 2014 , 47, 6679-6686 | 14 |
| 557 | Photoreversible solid state negative photochromism of N-(3,5-dichlorosalicylidene)-1-aminopyrene. 2014 , 16, 5524 | 12 |
| 556 | AIE macromolecules: syntheses, structures and functionalities. 2014 , 43, 4494-562 | 1025 |
| 555 | Aggregation-induced emission, photochromism and self-assembly of pyrazolone phenylsemicarbazones. 2014 , 291, 48-53 | 7 |

| | | | |
|-----|---|-----|-----|
| 554 | A mixed-valence dinuclear ruthenium complex composed of Ru(II)-acetylide and Ru(III)-tropolonato units: Acetylide \rightleftharpoons vinylidene interconversion in solution and solid state. 2014 , 756, 19-26 | | 9 |
| 553 | Theoretical study of two-photon absorption properties of a series of platinum (II) acetylide complexes. <i>Dyes and Pigments</i> , 2014 , 105, 75-88 | 4.6 | 8 |
| 552 | Swift photoswitching in a binuclear Zn(II) metallacycle relative to a salen-type ligand. 2014 , 43, 6365-76 | | 17 |
| 551 | Fluorescent silver nanoclusters stabilized by DNA scaffolds. 2014 , 50, 9800-15 | | 137 |
| 550 | Manipulation of spectral amplitude and phase with plasmonic nano-structures for information storage. 2014 , 7, 437-442 | | 2 |
| 549 | Prediction of the linear and nonlinear optical properties of tetrahydronaphthalone derivatives via long-range corrected hybrid functionals. 2014 , 112, 3165-3172 | | 19 |
| 548 | Multiphoton excited fluorescent materials for frequency upconversion emission and fluorescent probes. 2014 , 26, 5400-28 | | 66 |
| 547 | Two-photon probes for metal ions based on phenylaza[18]crown-6 ethers and 1,2,3-triazoles as linkers. 2014 , 15, 2436-9 | | 1 |
| 546 | A switchable peptide sensor for real-time lysosomal tracking. 2014 , 50, 6443-6 | | 47 |
| 545 | Theoretical investigation on the spectroscopy properties of four isomers of an encoder molecule FGDTE. <i>Dyes and Pigments</i> , 2014 , 107, 108-117 | 4.6 | 3 |
| 544 | Modulation of a solid-state reversible fluorescent photoswitching based on a controllable photochromic pyrazolones. 2014 , 216, 73-78 | | 8 |
| 543 | Design and syntheses of electron-transfer photochromic metal-organic complexes using nonphotochromic ligands: a model compound and the roles of its ligands. <i>Inorganic Chemistry</i> , 2014 , 53, 847-51 | 5.1 | 76 |
| 542 | Ultrafast spectral dynamics of structurally modified photochromic indolo[2,1-b][1,3]benzoxazines. 2014 , 285, 7-15 | | 9 |
| 541 | Multi-responsive photochromism of a new diarylethene with a salicylaldehyde group. 2014 , 132, 339-44 | | 20 |
| 540 | Laser nanofabrication in photoresists and azopolymers. 2014 , 8, 1-26 | | 74 |
| 539 | Crystalline state photochromism of 3-furylfulgides: impact of size and bond flexibility of the non-aromatic alkylidene group. 2015 , 71, 535-42 | | 4 |
| 538 | Focal Spot Engineering for Bit-by-Bit Recording. 2015 , 61-80 | | |
| 537 | Programmable gradational micropatterning of functional materials using maskless lithography controlling absorption. 2015 , 5, 15629 | | 9 |

- 536 T-Shaped (Donor)2AcceptorDonor PushPull Systems Based on Indan-1,3-dione. **2015**, 2015, 5339-5349 20
- 535 Difluorenyl carbo-Benzenes: Synthesis, Electronic Structure, and Two-Photon Absorption Properties of Hydrocarbon Quadrupolar Chromophores. *Chemistry - A European Journal*, **2015**, 21, 14186-14195 22
- 534 Computational Insights into Excited-State Proton-Transfer Reactions in Azo and Azomethine Dyes. **2015**, 16, 3966-73 18
- 533 Three-dimensional information storage of polymer doped with nano-silver. **2015**, 57, 2662-2665
- 532 Nonlinear Optical Properties of D- π -D Type Oligomers with Different Conjugation Length. **2015**, 28, 557-562 3
- 531 . **2015**, 8
- 530 Fully Oxidized and Mixed-Valent Polyoxomolybdates Structured by Bisphosphonates with Pendant Pyridine Groups: Synthesis, Structure and Photochromic Properties. **2015**, 3, 279-294 4
- 529 Third-Order Nonlinear Optical Behavior of Novel Polythiophene Derivatives Functionalized with Disperse Red 19 Chromophore. **2015**, 2015, 1-10 6
- 528 Optically switchable transistors by simple incorporation of photochromic systems into small-molecule semiconducting matrices. **2015**, 6, 6330 139
- 527 Towards thermally stable cyclophanediene-dihydropyrene photoswitches. **2015**, 21, 148 6
- 526 Synthesis and Properties of New Dimeric π -Diyne Complexes of Cobalt Linked through an Azobenzene Ligand. **2015**, 34, 2971-2984 1
- 525 Designing efficient photochromic dithienylethene dyads. **2015**, 6, 3495-3504 22
- 524 Construction of photoswitchable rotaxanes and catenanes containing dithienylethene fragments. **2015**, 13, 7313-22 10
- 523 Modulation of the optical properties of D- π A type azobenzene derivatives by changing the π -conjugated backbones: A theoretical study. **2015**, 14, 1550041 4
- 522 Dynamic behavior of molecular switches in crystal under pressure and its reflection on tactile sensing. **2015**, 137, 931-9 156
- 521 Functionalization of photochromic dithienylmaleimides. **2015**, 5, 18075-18086 14
- 520 Synthesis and optical properties of cationic cyclopentadienyl iron complexes with diphenylacetylene chromophores. **2015**, 427, 259-265 6
- 519 Photoswitching of salicylidene methylamine: a theoretical photodynamics study. **2015**, 119, 2702-10 32

| | | | |
|-----|--|-----|-----|
| 518 | Novel carbazole derivatives with quinoline ring: synthesis, electronic transition, and two-photon absorption three-dimensional optical data storage. 2015 , 139, 243-52 | | 23 |
| 517 | Photochromism and fluorescence modulation of pyrazolone derivatives in the solid state. <i>New Journal of Chemistry</i> , 2015 , 39, 3059-3064 | 3.6 | 7 |
| 516 | Dithienylethenes containing aromatic carbons: Synthesis, photochromism and anion recognition. <i>Dyes and Pigments</i> , 2015 , 115, 190-196 | 4.6 | 12 |
| 515 | Synthesis and antibacterial activities of antibacterial peptides with a spiropyran fluorescence probe. 2014 , 4, 6860 | | 8 |
| 514 | Photochromic and Electrochromic Properties of Dithienylethene-Based Ruthenium Alkynyl Complexes. <i>Molecular Crystals and Liquid Crystals</i> , 2015 , 608, 55-61 | 0.5 | 3 |
| 513 | Multiphoton Processes. 2015 , 279-320 | | 2 |
| 512 | A versatile cyclic 2,2'-azobenzenophane with a functional handle and its polymers: efficient synthesis and effect of topological structure on chiroptical properties. <i>Chemistry - A European Journal</i> , 2015 , 21, 2324-9 | 4.8 | 13 |
| 511 | Quantum chemical study of photomagnetic properties of Ni(II) monochelates with chromenes. 2015 , 462, 118-122 | | 4 |
| 510 | Two-photon absorption properties and (1)O ₂ generation ability of Ir complexes: an unexpected large cross section of [Ir(CO)2Cl(4-(para-di-n-butylaminostyryl)pyridine)]. 2015 , 44, 15712-20 | | 17 |
| 509 | Light-Controlled Conductance Switching in Azobenzene-Containing MWCNT-Polymer Nanocomposites. 2015 , 7, 11257-62 | | 32 |
| 508 | Main chain photoresponsive liquid crystalline polymer synthesized through hydrosilylation. 2015 , 5, 68351-68355 | | |
| 507 | Ab initio theoretical reinvestigation of the ground and excited state properties of silylated coumarins: Good candidates for solid state dye lasers and dye-sensitized solar cells. 2015 , 150, 806-13 | | 5 |
| 506 | Visible-Light-Dependent Photocyclization: Design, Synthesis, and Properties of a Cyanine-Based Dithienylethene. <i>Journal of Organic Chemistry</i> , 2015 , 80, 7830-5 | 4.2 | 42 |
| 505 | Synthesis and spectral characterization of photoswitchable oligo(p-phenylenevinylene)-spiropyran dyad. 2015 , 5, 56855-56864 | | 5 |
| 504 | Nonlinear optical response of photochromic azobenzene-functionalized self-assembled monolayers. 2015 , 17, 18079-86 | | 36 |
| 503 | Reversible photoinduced bi-state polymer solar cells based on fullerene derivatives with azobenzene groups. 2015 , 23, 1-4 | | 6 |
| 502 | Tunable two-photon absorption near-infrared materials containing different electron-donors and a bridge center with applications in bioimaging in live cells. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 5580-5588 | 7.1 | 18 |
| 501 | Multiphotochromic molecular systems. 2015 , 44, 3719-59 | | 248 |

| | | | |
|-----|--|------|-----|
| 500 | Electronic and optical properties of the five most stable C96 isomers. 2015 , 625, 64-68 | | 1 |
| 499 | A femtosecond pump-probe spectrometer for dynamics in transmissive polymer films. <i>Applied Physics B: Lasers and Optics</i> , 2015 , 118, 185-193 | 1.9 | 14 |
| 498 | Electric field control of proton-transfer molecular switching: molecular dynamics study on salicylidene aniline. 2015 , 17, 14484-8 | | 13 |
| 497 | Small-molecule two-photon probes for bioimaging applications. <i>Chemical Reviews</i> , 2015 , 115, 5014-55 | 68.1 | 719 |
| 496 | Silica-mediated synthesis of indolinoxazolidine-based molecular switches. <i>Journal of Organic Chemistry</i> , 2015 , 80, 3949-56 | 4.2 | 19 |
| 495 | Multifocal optical nanoscopy for big data recording at 30 TB capacity and gigabits/second data rate. 2015 , 2, 567 | | 51 |
| 494 | Two-photon probes for biomedical imaging. 2015 , 71, 8219-8249 | | 13 |
| 493 | Anion-Interaction-Directed Assembly of Polyoxometalate-Based Host-Guest Compounds and Its Contribution to Photochromism. 2015 , 15, 4952-4958 | | 41 |
| 492 | Sequential structural transitions with distinct dielectric responses in a layered perovskite organic-inorganic hybrid material: [C ₄ H ₉ N] ₂ [PbBr ₄]. 2015 , 44, 20406-12 | | 44 |
| 491 | 4-Diphenylamino-phenyl substituted pyrazine: nonlinear optical switching by protonation. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 9191-9196 | 7.1 | 77 |
| 490 | Fluorescence modulation of a pyrazolone dye in the solid state based on energy transfer. <i>New Journal of Chemistry</i> , 2015 , 39, 9866-9871 | 3.6 | 1 |
| 489 | Photoresponsive and wetting performances of sheet-like nanostructures of tungsten trioxide thin films grown on wood surfaces. 2015 , 5, 73566-73574 | | 21 |
| 488 | Influence of electronic vs. steric factors on the solid-state photochromic performances of new polyoxometalate/spirooxazine and spiropyran hybrid materials. 2015 , 5, 79635-79643 | | 7 |
| 487 | A 1,3,5-triazine based polymer as a nonlinear near-infrared antenna for two-photon activated volumetric optical memory devices. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10775-10782 | 7.1 | 12 |
| 486 | Photo-driven near-IR fluorescence switch: synthesis and spectroscopic investigation of squarine-spiropyran dyad. 2015 , 5, 97681-97689 | | 7 |
| 485 | Theoretical study on the relationship between diradical character and second hyperpolarizabilities of four-membered-ring diradicals involving heavy main-group elements. <i>Chemistry - A European Journal</i> , 2015 , 21, 2157-64 | 4.8 | 15 |
| 484 | Thiophene-based terpyridine and its zinc halide complexes: third-order nonlinear optical properties in the near-infrared region. 2015 , 44, 1473-82 | | 29 |
| 483 | Synthesis and studies of symmetric dibenzothienylcyclopentenes. 2015 , 71, 584-598 | | 9 |

| | | | |
|-----|--|-----|----|
| 482 | Novel pendant azobenzene/polymer systems for second harmonic generation and optical data storage. <i>Dyes and Pigments</i> , 2015 , 114, 24-32 | 4.6 | 53 |
| 481 | A multi-addressable switch based on the dimethyldihdropyrene photochrome with remarkable proton-triggered photo-opening efficiency. <i>Chemistry - A European Journal</i> , 2015 , 21, 455-67 | 4.8 | 35 |
| 480 | Synthesis of a double-stranded spiroborate helicate bearing stilbene units and its photoresponsive behaviour. <i>New Journal of Chemistry</i> , 2015 , 39, 3259-3269 | 3.6 | 12 |
| 479 | Effects of solvents on the growth of an asymmetrical photochromic diarylethene crystal. <i>Dyes and Pigments</i> , 2015 , 113, 61-69 | 4.6 | 25 |
| 478 | Can gap tuning schemes of long-range corrected hybrid functionals improve the description of hyperpolarizabilities?. 2015 , 119, 1202-12 | | 47 |
| 477 | Optically Switchable Smart Windows with Integrated Photovoltaic Devices. 2015 , 5, 1401347 | | 61 |
| 476 | Synthesis of anthracene derivatives of 1,3-diazabicyclo[3.1.0]hex-3-ene. <i>Journal of Molecular Structure</i> , 2015 , 1081, 248-253 | 3.4 | 7 |
| 475 | Synthesis and Structural Characterization of 2-Hydroxy-5- (Phenyldiazenyl) Benzaldehyde Oxime - A Theoretical Approach. 2016 , 03, | | |
| 474 | Tilted Orientation of Photochromic Dyes with Guest-Host Effect of Liquid Crystalline Polymer Matrix for Electrical UV Sensing. 2015 , 16, | | 5 |
| 473 | Coumarin-Containing Polymers for High Density Non-Linear Optical Data Storage. 2016 , 21, 147 | | 26 |
| 472 | Theoretical Study on the Second Hyperpolarizabilities of Oligomeric Systems Composed of Carbon and Silicon Structures. 2016 , 21, | | 2 |
| 471 | Nanoindentation study of optically patterned surface relief grating of azobenzene polymers. <i>Optics Express</i> , 2016 , 24, 25242-25249 | 3.3 | 9 |
| 470 | Synthesis and photochromism of new asymmetrical diarylethenes with a variable heteroaryl ring and a quinoline unit. 2016 , 40, 38-53 | | 7 |
| 469 | Photo-Physical Transformations in Pyrazoline Derivative Based Systems. 2016 , 120, 14813-14819 | | 16 |
| 468 | The effect of molecular structure on the secondary transitions and their influence on the decoloration kinetics of photochromic dyes in co-polycarbonates. 2016 , 54, 1593-1601 | | 4 |
| 467 | Ternary Flexible Electro-resistive Memory Device based on Small Molecules. 2016 , 11, 1624-30 | | 12 |
| 466 | Highly selective ratiometric fluorescent Zn chemosensor based on diarylethene derivative with bi-8-carboxamidoquinoline unit. 2016 , 31, 1488-1495 | | 5 |
| 465 | All-Optical Fine-Tuning of Absorption Band of Diarylethene with Photochromic Acid-Generating Spiropyran. 2016 , 4, 1350-1353 | | 14 |

- 464 Chapter 5 Photonic Devices for Modulation, Storage, and Display. **2016**, 179-216
- 463 Light-Driven Liquid Crystalline Materials: From Photo-Induced Phase Transitions and Property Modulations to Applications. *Chemical Reviews*, **2016**, 116, 15089-15166 68.1 499
- 462 Measurement of Two-Photon Absorption Cross Section of Metal Ions by a Mass Sedimentation Approach. **2015**, 5, 17712 7
- 461 Anion-Mediated Architecture and Photochromism of Rigid Bipyridinium-Based Coordination Polymers. **2016**, 16, 2836-2842 61
- 460 Kinetics of Coloration in Photochromic Tungsten(VI) Oxide/Silicon Oxycarbide/Silica Hybrid Xerogel: Insight into Cation Self-diffusion Mechanisms. **2016**, 8, 14019-28 15
- 459 Design concepts for diffusive holographic photopolymers. **2016**, 54, 1021-1035 15
- 458 Quasi-three-level model applied to measured spectra of nonlinear absorption and refraction in organic molecules. **2016**, 33, 780 16
- 457 Stepwise Two-Photon-Induced Fast Photoswitching via Electron Transfer in Higher Excited States of Photochromic Imidazole Dimer. **2016**, 138, 5930-8 39
- 456 How Metals Can Help Multiphotochromism: An Ab Initio Study. **2016**, 120, 11140-11150 9
- 455 Photosensitive chiral self-assembling materials: significant effects of small lateral substituents. *Journal of Materials Chemistry C*, **2016**, 4, 5326-5333 7.1 31
- 454 Mechanisms of Tenebrescence and Persistent Luminescence in Synthetic Hackmanite Na₈Al₆Si₆O₂₄(Cl,S)₂. **2016**, 8, 11592-602 22
- 453 A Phosphole Oxide-Containing Organogold(III) Complex for Solution-Processable Resistive Memory Devices with Ternary Memory Performances. **2016**, 138, 6368-71 85
- 452 Fast Photochromic Molecules toward Realization of Photosynergetic Effects. **2016**, 7, 3666-75 38
- 451 Thiophene-based pyridine derivatives: synthesis, crystal structures, two-photon absorption properties and bio-imaging applications in the near-IR region. *New Journal of Chemistry*, **2016**, 40, 8809-8814 36 7
- 450 Visible-Light-Responsive Azopolymers with Inhibited π -Stacking Enable Fully Reversible Photopatterning. **2016**, 49, 6368-6373 96
- 449 Magnetic Hysteresis of Molecular Faraday Effects of Phthalocyanine-Based Thin Films on Bi, Al-Substituted DylG Substrates at Room Temperature and Demagnetization of the Ferrimagnetic Substrates by Photothermal Effects of Phthalocyanines. **2016**, 120, 21811-21817 6
- 448 Stoichiometry-controlled structural and functional variation in two photochromic iodoargentates with a fast and wide range response. **2016**, 45, 16505-16510 36
- 447 Photochromic and Magnetic Nanocomposites Based on Epoxy and Polycarbonate Matrices. **2016**, 26, 1320-1327 1

| | | |
|-----|--|---------|
| 446 | Ultrafast responses of dipolar and octupolar compounds with dipicolinate as an electron acceptor. 2016 , 183, 273-278 | 8 |
| 445 | Tunable Visible and Near Infrared Photoswitches. 2016 , 138, 13960-13966 | 151 |
| 444 | Synthesis, crystal structure, spectroscopic, and photoreactive properties of a ruthenium(II)-mononitrosyl complex. 2016 , 119, 350-358 | 9 |
| 443 | A novel Ni/Na Γ Containing inorganic-organic hybrid supramolecule based on polyoxometalate and EDTA with ultraviolet-visible light photochromism. 2016 , 58, 122-128 | 7 |
| 442 | Density functional theory study of linear and non-linear optical properties of dihydroazulene-vinylheptafulvene photoswitches. 2016 , 1095, 1-8 | 10 |
| 441 | Photoresponsive organic field-effect transistors involving photochromic molecules. 2016 , 27, 1319-1329 | 35 |
| 440 | Origin of the Enhancement of the Second Hyperpolarizabilities of Metal-Carbon Bonds. 2016 , 120, 6838-45 | |
| 439 | Synthesis and Spectroscopic Investigation of Diketopyrrolopyrrole - Spiropyran Dyad for Fluorescent Switch Application. 2016 , 26, 1939-1949 | 10 |
| 438 | Selective Metal-vapor Deposition on Organic Surfaces. 2016 , 16, 231-48 | 16 |
| 437 | Grafting Spiropyran Molecular Switches on TiO ₂ : A First-Principles Study. 2016 , 120, 18281-18288 | 5 |
| 436 | A perovskite-type cage compound as a temperature-triggered dielectric switchable material. 2016 , 18, 7671-7674 | 24 |
| 435 | Ultrasensitive Photochromic Iodocuprate(I) Hybrid. <i>Inorganic Chemistry</i> , 2016 , 55, 8271-3 | 5.1 66 |
| 434 | 3D nano-fabrication of metallic nano-structures. 2016 , | |
| 433 | Phenomenon to functions: Photochromism of diarylpyrans, spectrokinetic properties and functional materials. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2016 , 29, 73-106 | 16.4 41 |
| 432 | Dimerization and Isomerism Effects on Two-Photon Absorption of Tetraphenylethene Derivatives and Molecular Design for Two-Photon Absorption Materials. 2016 , 120, 9708-15 | 6 |
| 431 | Mechanized azobenzene-functionalized zirconium metal-organic framework for on-command cargo release. 2016 , 2, e1600480 | 150 |
| 430 | A robust fluorescent chemosensor for aluminium ion detection based on a Schiff base ligand with an azo arm and application in a molecular logic gate. 2016 , 6, 101924-101936 | 27 |
| 429 | Tridimensional (3D) Optical Storage. 2016 , 407-480 | |

| | | | |
|-----|--|-----|-----|
| 428 | Effect of heterosubstituent and ring puckering angle on linear and nonlinear properties of exo-insaturated four-membered heterocycles, Y=CCH ₂ CH ₂ X: a comparative ab initio, DFT and semi-empirical study. 2016 , 114, 2232-2247 | | 4 |
| 427 | Polymorphic and Isomorphic Cocrystals of a N-Salicylidene-3-aminopyridine with Dicarboxylic Acids: Tuning of Solid-State Photo- and Thermochromism. 2016 , 120, 10001-10008 | | 42 |
| 426 | Multi-addressable fluorescence switch based on a new photochromic diarylethene with two rhodamine B units. 2016 , 72, 4400-4407 | | 6 |
| 425 | Dimethyldihydropyrene-cyclophanedien photochromic couple functionalized with terpyridyl metal complexes as multi-addressable redox- and photo-switches. 2016 , 45, 13700-8 | | 11 |
| 424 | Spirooxazine-Fulgide Biphotochromic Molecular Switches with Nonlinear Optical Responses across Four States. 2016 , 120, 14840-14853 | | 30 |
| 423 | Introduction: Organic Photochromic Molecules. 2016 , 1-45 | | 6 |
| 422 | Hybrid Organic/Photochromic Approaches to Generate Multifunctional Materials, Interfaces, and Devices. 2016 , 243-280 | | |
| 421 | Four-Dimensional Screening Anti-Counterfeiting Pattern by Inkjet Printed Photonic Crystals. 2016 , 11, 2680-2685 | | 59 |
| 420 | Factors affecting the measurement of photochromic lens performance. 2016 , 132, 238-248 | | 6 |
| 419 | The Internet of Molecular Things Based on FRET. 2016 , 3, 4-17 | | 29 |
| 418 | Chromenes involving a two-photon absorbing moiety: photochromism via intramolecular resonance energy transfer. <i>New Journal of Chemistry</i> , 2016 , 40, 1143-1148 | 3.6 | 2 |
| 417 | A redox- and photo-responsive quadri-state switch based on dimethyldihydropyrene-appended cobalt complexes. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 1139-1143 | 7.1 | 16 |
| 416 | Solvent-dependent dual-mode photochromism between T- and P-types in a dipyrinone derivative. 2016 , 52, 1278-81 | | 8 |
| 415 | Tuning the concentration of dye loaded polymer films for maximum photosensitization efficiency: phloxine B in poly(2-hydroxyethyl methacrylate). <i>Photochemical and Photobiological Sciences</i> , 2016 , 15, 80-5 | 4.2 | 12 |
| 414 | A new multi-addressable molecular switch based on a photochromic diarylethene with a thieno-imidazole unit. 2016 , 57, 1877-1881 | | 19 |
| 413 | Direct Visualization of Excited-State Symmetry Breaking Using Ultrafast Time-Resolved Infrared Spectroscopy. 2016 , 138, 4643-9 | | 126 |
| 412 | Twofold photoswitching of NIR fluorescence and EPR based on the PMINIBIABI for optical nanoimaging of electrospun polymer nanowires. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2498-2505 | 7.1 | 16 |
| 411 | Rational Design of Small Molecules to Implement Organic Quaternary Memory Devices. 2016 , 26, 146-154 | | 80 |

| | | | |
|-----|---|-----|----|
| 410 | Thienylphenothiazine integrated pyrenes: an account on the influence of substitution patterns on their optical and electroluminescence properties. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 4246-4258 | 7.1 | 27 |
| 409 | Open-Shell Singlet Nature and π/π Conjugation Effects on the Third-Order Nonlinear Optical Properties of Si Chains: Polysilane and Poly(disilene-1,2-diyl). 2016 , 120, 948-55 | | 4 |
| 408 | Structural characterization, phase transition and switchable dielectric behaviors in a new zigzag chain organic-inorganic hybrid compound: [C ₃ H ₇ NH ₃] ₂ SbI ₅ . 2016 , 45, 5229-33 | | 27 |
| 407 | Plasmon-enhanced two-photon-induced isomerization for highly-localized light-based actuation of inorganic/organic interfaces. 2016 , 8, 4194-202 | | 14 |
| 406 | New memory devices based on the proton transfer process. 2016 , 27, 015202 | | 4 |
| 405 | Electrochemical characterization of azo dye (E)-1-(4-((4-(phenylamino)phenyl)diazenyl)phenyl)ethanone (DPA). 2016 , 195, 175-183 | | 9 |
| 404 | An electron-transfer photochromic metal-organic framework (MOF) compound with a long-lived charge-separated state and high-contrast photoswitchable luminescence. 2016 , 6, 24190-24194 | | 24 |
| 403 | Small molecules of chalcone derivatives with high two-photon absorption activities in the near-IR region. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3256-3267 | 7.1 | 23 |
| 402 | Transition Metal-Based Photofunctional Materials: Recent Advances and Potential Applications. 2016 , 201-289 | | 1 |
| 401 | Photo-click construction of a targetable and activatable two-photon probe imaging protease in apoptosis. 2016 , 52, 2342-5 | | 21 |
| 400 | Enhanced two-photon excited fluorescence of mercury complexes with a conjugated ligand: Effect of the central metal ion. <i>Journal of Luminescence</i> , 2016 , 172, 264-269 | 3.8 | 9 |
| 399 | Towards photochromic and thermochromic biosensing. 2016 , 79, 37-45 | | 31 |
| 398 | Reversible changes of axial chirality of naphthamide by photochemical and thermal reactions. 2016 , 331, 110-114 | | |
| 397 | Synthesis, conformational and theoretical studies of 1,n-di(2-formyl-4-phenylazophenoxy)alkanes. <i>Journal of Molecular Structure</i> , 2016 , 1104, 70-78 | 3.4 | 1 |
| 396 | A theoretical study on the thermal cis-trans isomerization of azoheteroarene photoswitches. <i>New Journal of Chemistry</i> , 2017 , 41, 1659-1669 | 3.6 | 15 |
| 395 | Controlling the Isomerization Rate of an Azo-BF Switch Using Aggregation. 2017 , 139, 1037-1040 | | 41 |
| 394 | Perovskite-type organic-inorganic hybrid NLO switches tuned by guest cations. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1529-1536 | 7.1 | 37 |
| 393 | A series of CdIIX ₂ (X = Cl, Br, I) complexes with D-A model and their third-order nonlinear optical properties with a femtosecond laser in the near IR region. <i>Journal of Coordination Chemistry</i> , 2017 , 70, 960-972 | 1.6 | 2 |

- 392 Polarization control efficiency manipulation in resonance-mediated two-photon absorption by femtosecond spectral frequency modulation. **2017**, 14, 045301 1
- 391 A Versatile Approach for In Situ Monitoring of Photoswitches and Photopolymerizations. *ChemPhotoChem*, **2017**, 1, 125-131 3.3 32
- 390 Rate-Tunable Stepwise Two-Photon-Gated Photoresponsive Systems Employing a Synergetic Interaction between Transient Biradical Units. **2017**, 139, 4452-4461 28
- 389 High-temperature structural phase transition coupled with dielectric switching in an organic-inorganic hybrid crystal: [NH(CH)Br]CdBr. **2017**, 46, 4711-4716 15
- 388 Assessing Density Functional Theory Approaches for Predicting the Structure and Relative Energy of Salicylideneaniline Molecular Switches in the Solid State. **2017**, 121, 6898-6908 15
- 387 The photochemical behavior of polyhydroxy styrene with azofragments containing free methacrylic double bounds. *Molecular Crystals and Liquid Crystals*, **2017**, 642, 115-123 0.5
- 386 Halogen-Bond Effects on the Thermo- and Photochromic Behaviour of Anil-Based Molecular Co-crystals. *Chemistry - A European Journal*, **2017**, 23, 5317-5329 4.8 44
- 385 Electronic Properties of Optically Switchable Photochromic Diarylethene Molecules at the Interface with Organic Semiconductors. **2017**, 18, 722-727 15
- 384 PerylenediimideBenzanthrone Dyad: Organic Chromophores with Enhanced Third-Order Nonlinear-Optical Activities. **2017**, 2017, 2495-2500 17
- 383 Spirooxazine molecular switches with nonlinear optical responses as selective cation sensors. **2017**, 7, 642-650 28
- 382 Super-resolution imaging of self-assembly of amphiphilic photoswitchable macrocycles. **2017**, 53, 2669-2672 9
- 381 A diarylethene-based fluorescence sensor for the sequential recognition of mercury and cysteine. **2017**, 7, 20591-20596 16
- 380 Halogen-dependent photoinduced electron transfer and chromism of three protonated nicotinohydrazide halozincates. **2017**, 46, 5414-5419 23
- 379 Switching of Resistive Memory Behavior from Binary to Ternary Logic via Alteration of Substituent Positioning on the Subphthalocyanine Core. **2017**, 139, 7256-7263 43
- 378 Two-photon absorption spectroscopy of stilbene and phenanthrene: Excited-state analysis and comparison with ethylene and toluene. **2017**, 146, 174102 16
- 377 A four-state capacitance molecular switch based on a redox active tetrathiafulvalene self-assembled monolayer. **2017**, 7, 5636-5641 16
- 376 Microwave-assisted synthesis and photochromic properties of new azo-imidazoles. *Dyes and Pigments*, **2017**, 143, 387-392 4.6 19
- 375 Carrier-assisted dyeing of poly(L-lactic acid) fibers with dispersed photochromic spiropyran dyes. *Dyes and Pigments*, **2017**, 145, 444-450 4.6 11

| | | | |
|-----|--|-----|----|
| 374 | Quantum-chemical study of spiro[indoline-2,2'-[2H]-chromenes] and their complexes with a silver cluster. 2017 , 474, 121-125 | | 2 |
| 373 | DFT study of acceleration of electrocyclization in photochromes under radical cationic conditions: Comparison with recent experimental data. 2017 , 73, 3521-3528 | | 16 |
| 372 | Effect of the diradical character on static polarizabilities and two-photon absorption cross sections: A closer look with spin-flip equation-of-motion coupled-cluster singles and doubles method. 2017 , 146, 224103 | | 17 |
| 371 | D-A dyad and D-A-D triad incorporating triphenylamine, benzanthrone and perylene diimide: Synthesis, electrochemical, linear and nonlinear optical properties. 2017 , 682, 133-139 | | 19 |
| 370 | Facile and fast photosensing of polarity by stimuli-responsive materials based on spiropyran for reusable sensors: a physico-chemical study on the interactions. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6588-6600 | 7.1 | 53 |
| 369 | Efficient Photoswitch System Combining a Dimethyldihydropyrene Pyridinium Core and Ruthenium(II) Bis-Terpyridine Entities. <i>Inorganic Chemistry</i> , 2017 , 56, 4357-4368 | 5.1 | 12 |
| 368 | Potentially useful to NLO materials: 4-Chloro-3-(trifluoromethyl)aniline, 4-bromo-3-(trifluoromethyl)aniline and 4-fluoro-3-(trifluoromethyl)aniline are combined experimental and theoretical vibrational analysis. <i>Journal of Molecular Structure</i> , 2017 , 1141, 81-92 | 3.4 | 10 |
| 367 | An electron-transfer photochromic crystalline MOF accompanying photoswitchable luminescence in a host-guest system. <i>Photochemical and Photobiological Sciences</i> , 2017 , 16, 753-758 | 4.2 | 15 |
| 366 | Beyond binary: optical data storage with 0, 1, 2, and 3 in polymer films. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5780-5786 | 7.1 | 18 |
| 365 | Light-controlled spin-state-switching rearrangements of transition metal complexes with photochromic ligands. 2017 , 89, 985-1005 | | 8 |
| 364 | Theoretical investigation on the photoswitchable second-order nonlinear optical properties of a series of B(C ₆ F ₅) ₂ -coordinated dithienylethene derivatives. 2017 , 335, 155-164 | | 4 |
| 363 | Multi-substituted deep-blue emitting carbazoles: a comparative study on photophysical and electroluminescence characteristics. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 709-726 | 7.1 | 43 |
| 362 | Bidirectional Photomodulation of Surface Tension in Langmuir Films. 2017 , 56, 291-296 | | 11 |
| 361 | Efficient External Electric Field Manipulated Nonlinear Optical Switches of All-Metal Electride Molecules with Infrared Transparency: Nonbonding Electron Transfer Forms an Excess Electron Lone Pair. 2017 , 121, 958-968 | | 36 |
| 360 | Is energy transfer limiting multiphotochromism? answers from ab initio quantifications. 2017 , 19, 2044-2052 | | 10 |
| 359 | Potential use of small basis set on the calculations of electronic properties of some four-membered heterocycles: a conformational study. 2017 , 115, 261-277 | | 4 |
| 358 | Optical characterization of heterocyclic azo dyes containing polymers thin films. 2017 , 421, 361-366 | | 34 |
| 357 | Bidirectional Photomodulation of Surface Tension in Langmuir Films. 2017 , 129, 297-302 | | 8 |

| | | | |
|-----|---|-----|-----|
| 356 | Notable Broad Dielectric Relaxation and Highly Efficient Red Photoluminescence in a Perovskite-Type Compound: (N-Methylpyrrolidinium)MnCl. <i>Inorganic Chemistry</i> , 2017 , 56, 12193-12198 | 5.1 | 28 |
| 355 | Effects of aromatic stabilization energies of aryl rings of symmetrical diarylethenes. 2017 , 73, 6479-6485 | | 2 |
| 354 | Enhanced Size Selection in Two-Photon Excitation for CsPbBr Perovskite Nanocrystals. 2017 , 8, 5119-5124 | | 34 |
| 353 | Photoswitchable Near-Infrared-Emitting Boron-dipyrromethene (BODIPY) Nanoparticles. 2017 , 34, 1700223 | | 15 |
| 352 | The Characterization of Absorptive Nonlinearities. 2017 , 11, 1700106 | | 24 |
| 351 | Ultrasensitive and Fast All-Inorganic Perovskite-Based Photodetector via Fast Carrier Diffusion. 2017 , 29, 1703758 | | 202 |
| 350 | Star-Shaped Asymmetrically Substituted Blue Emitting Carbazoles: Synthesis, Photophysical, Electrochemical and Theoretical Investigations. <i>ChemistrySelect</i> , 2017 , 2, 7514-7524 | 1.8 | 7 |
| 349 | Emission tuning in Re(I) complexes: Expanding heterocyclic ligands and/or introduction of perfluorinated ligands. 2017 , 137, 231-237 | | 5 |
| 348 | Dual Visible Light-Triggered Photoswitch of a Diarylethene Supramolecular Assembly with Cucurbit[8]uril. <i>Chemistry - A European Journal</i> , 2017 , 23, 14425-14429 | 4.8 | 26 |
| 347 | Combination of a fluorescent conjugated polymer, photochromic dye, and UV-curable acryl oligomer for fluorescence switching applications. <i>Dyes and Pigments</i> , 2017 , 146, 398-401 | 4.6 | 6 |
| 346 | Light-Tunable Nonvolatile Memory Characteristics in Photochromic RRAM. 2017 , 3, 1600416 | | 36 |
| 345 | Photoluminescent-dielectric duple switch in a perovskite-type high-temperature phase transition compound: [(CH)PCHOCH][PbBr]. 2017 , 46, 9528-9534 | | 13 |
| 344 | Third-Order Nonlinear Optical Properties of One-Dimensional Quinoidal Oligothiophene Derivatives Involving Phenoxy Groups. 2017 , 6, 506-513 | | 4 |
| 343 | Photoinduced properties of Bis-azo chromophore host guest systems-birefringence and all optical tuneable polymer waveguide Bragg gratings. <i>Journal of Applied Physics</i> , 2017 , 122, 023107 | 2.5 | 4 |
| 342 | Photosensitive bent-core liquid crystals based on methyl substituted 3-hydroxybenzoic acid. 2017 , 7, 35805-35813 | | 8 |
| 341 | Stable and Photoswitchable Carbon-Dot Liposome. 2017 , 9, 44259-44263 | | 10 |
| 340 | Viologen-Based Photochromic Coordination Polymers for Inkless and Erasable Prints. <i>Inorganic Chemistry</i> , 2017 , 56, 14926-14935 | 5.1 | 55 |
| 339 | Subsequent radical fragmentation reactions of N, N-diethylamino-substituted azobenzene derivatives in a Fourier transform ion cyclotron resonance mass spectrometer using collision-induced dissociation and photodissociation. 2017 , 23, 359-368 | | 1 |

- 338 Demonstration of an ultraviolet stimulated Brillouin scattering pulse compressed hundred picosecond laser in LiB₃O₅ crystals. **2017**, 19, 085502 6
- 337 The crystal structure of 1,2-bis[2-methyl-5-(3-cyanophenyl)-3-thienyl]-3,3,4,4,5,5-hexafluoro-cyclopent-1-ene, C₂₉H₁₆F₆N₂S₂. **2017**, 232, 517-519 1
- 336 Investigating the structural and optical properties of thermally evaporated 1,3,3-trimethylindolino-*h*-naphthopyrrolospiran thin films. **2017**, 123, 1 5
- 335 Isomerization behavior of spiropyran-based compounds upon X-ray irradiation. **2017**, 106, 166-169 9
- 334 Halo-substituted azobenzenes adsorbed at Ag(111) and Au(111) interfaces: Structures and optical properties. **2017**, 95, 2
- 333 Visualizing the Contributions of Virtual States to Two-Photon Absorption Cross Sections by Natural Transition Orbitals of Response Transition Density Matrices. **2017**, 8, 3256-3265 25
- 332 Efficient Cycloreversion Reaction of a Diarylethene Derivative in Higher Excited States Attained by Off-Resonant Simultaneous Two-Photon Absorption. **2017**, 8, 3272-3276 24
- 331 Expanded Dipyrrrolonaphthyridinediones with Large Two-Photon Absorption Cross-Section Values. *Journal of Organic Chemistry*, **2017**, 82, 7254-7264 4.2 27
- 330 Upgrading Electroresistive Memory from Binary to Ternary Through Single-Atom Substitution in the Molecular Design. **2017**, 12, 45-51 16
- 329 Synthesis and improved photochromic properties of pyrazolones in the solid state by incorporation of halogen. **2017**, 171, 149-154 6
- 328 50 Years of Structure and Bonding The Anniversary Volume. **2017**, 1 1
- 327 Substituent effect in the photochromism of two isomeric asymmetric diarylethenes having pyrrole and thiophene units. **2017**, 173, 257-263 6
- 326 . **2017**, 11 11
- 325 Thermomechanical effect in molecular crystals: the role of halogen-bonding interactions. **2017**, 4, 812-823 13
- 324 Nonlinear optical characterization of multinuclear iridium compounds containing tricycloquinazoline. **2017**, 56, B179-B183 3
- 323 Ferroelasticity and piezoelectricity of organic-inorganic hybrid materials with a one-dimensional anionic structure: so similar, yet so different. **2018**, 20, 2112-2119 13
- 322 Synthesis of Hydrazines via Radical Generation and Addition of Azocarboxylic tert-Butyl Esters. **2018**, 20, 1910-1913 4
- 321 Spectroscopic Investigation of Diarylethene Photochromes Linked to Silica Nanoparticles. **2018**, 122, 6984-6995 5

| | | | |
|-----|--|------|-----|
| 320 | Viscosity induced emission of red-emitting NLOphoric coumarin morpholine-thiazole hybrid styryl dyes as FMRs: Consolidated experimental and theoretical approach. 2018 , 79, 90-107 | | 14 |
| 319 | Photooxidation of oxazolidine molecular switches: uncovering an intramolecular ionization facilitated cyclization process. 2018 , 54, 5094-5097 | | 10 |
| 318 | Two-Photon-Absorption Properties of Pyrene-Based Dipolar D- π A Fluorophores. <i>ChemPhotoChem</i> , 2018 , 2, 749-756 | 3.3 | 8 |
| 317 | Two-photon processes based on quantum commutators. 2018 , 97, | | 3 |
| 316 | Macroscopic-Oriented Gold Nanorods in Polyvinyl Alcohol Films for Polarization-Dependent Multicolor Displays. 2018 , 5, 1800026 | | 7 |
| 315 | Solar UV index and UV dose determination with photochromic hackmanites: from the assessment of the fundamental properties to the device. 2018 , 5, 569-576 | | 19 |
| 314 | Electronic Nature of Nonlinear Optical Properties of a Symmetrical Two-Photon Absorbing Fluorene Derivative: Experimental Study and Theoretical Modeling. 2018 , 122, 5664-5672 | | 8 |
| 313 | Recent progress in development of photoacid generators. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2018 , 34, 41-51 | 16.4 | 48 |
| 312 | Triboelectrification-Enabled Self-Powered Data Storage. 2018 , 5, 1700658 | | 13 |
| 311 | Ligand-driven light-induced spin transition in spin crossover compounds. 2018 , 72, 773-798 | | 18 |
| 310 | Theoretical study on the gigantic effect of external static electric field application on the nonlinear optical properties of 1,2,3,5-dithiadiazolyl radical dimers. 2018 , 2, 785-790 | | 5 |
| 309 | Untapped potential for debonding on demand: the wonderful world of azo-compounds. 2018 , 5, 162-183 | | 38 |
| 308 | Lanthanide complexes of spiropyran photoswitch and sensor: spectroscopic investigations and computational modelling. <i>Photochemical and Photobiological Sciences</i> , 2018 , 17, 221-230 | 4.2 | 13 |
| 307 | Laser focal profiler based on forward scattering of a nanoparticle. 2018 , 411, 59-64 | | |
| 306 | The first evidence of redox activity of polyimide systems modified with azo groups with photo-induced response. 2018 , 129, 64-75 | | 2 |
| 305 | Stepwise two-photon absorption processes utilizing photochromic reactions. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2018 , 34, 2-28 | 16.4 | 30 |
| 304 | Optical Data Storage and Multicolor Emission Readout on Flexible Films Using Deep-Trap Persistent Luminescence Materials. 2018 , 28, 1705769 | | 175 |
| 303 | Photoresponsive Organoboron Systems. 2018 , 47-77 | | 13 |

| | | | |
|-----|---|-----|-----|
| 302 | 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 |
| 301 | Synthesis, Structural Characterization, and Luminescence Switching of Diarylethene-Conjugated Ru(II)-Terpyridine Complexes by trans-cis Photoisomerization: Experimental and DFT/TD-DFT Investigation. <i>Inorganic Chemistry</i> , 2018 , 57, 5743-5753 | 5.1 | 19 |
| 300 | Diradical Character and Second Hyperpolarizability of Alkaline Earth Metal Inverse Sandwich Complexes Involving Cyclopentadienyl and Cyclooctatetraene Ligands. <i>European Journal of Inorganic Chemistry</i> , 2018 , 2018, 2894-2899 | 2.3 | 3 |
| 299 | Coumarin-diene photoswitches for rapid and efficient isomerization with visible light. 2018 , 54, 4983-4986 | | 7 |
| 298 | Tetraphenylborate Anion Induces Photochromism in N-Salicylideneamino-1-alkylpyridinium Derivatives Through Formation of Tetra-Aryl Boxes. 2018 , 122, 10999-11007 | | 11 |
| 297 | Smart textile framework: Photochromic and fluorescent cellulosic fabric printed by strontium aluminate pigment. 2018 , 195, 143-152 | | 66 |
| 296 | Photo- and Ionochromism of Benzoxazolyl-Substituted Spirobenzopyrans. 2018 , 478, 26-30 | | |
| 295 | Photochemistry and photophysics of MOFs: steps towards MOF-based sensing enhancements. 2018 , 47, 4710-4728 | | 329 |
| 294 | The photochromism, light harvesting and self-assembly activity of a multi-function Schiff-base compound based on the AIE effect. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 4057-4064 | 7.1 | 47 |
| 293 | Photochemical changes in absorption and fluorescence of DDM-containing epoxies. 2018 , 142, 11-22 | | 4 |
| 292 | Toward non-volatile photonic memory: concept, material and design. 2018 , 5, 641-654 | | 67 |
| 291 | Polymer and Photonic Materials Towards Biomedical Breakthroughs. 2018 , | | 4 |
| 290 | Development and Characterization of Photoresponsive Polymers. 2018 , 3-47 | | 4 |
| 289 | Open-Shell Character Dependences of the Second Hyperpolarizability in Two-Dimensional Tetraradicaloids. 2018 , 122, 3680-3687 | | 1 |
| 288 | Photoreleasable Protecting Groups Triggered by Sequential Two-Photon Absorption of Visible Light: Release of Carboxylic Acids from a Linked Anthraquinone- N-Alkylpicolinium Ester Molecule. 2018 , 122, 3204-3210 | | 8 |
| 287 | Light-Switchable Azobenzene-Containing Macromolecules: From UV to Near Infrared. 2018 , 39, 1700220 | | 102 |
| 286 | Photoresponsive n-channel organic field-effect transistors based on a tri-component active layer. 2018 , 29, 175-178 | | 3 |
| 285 | Molecular switching on graphyne and graphdiyne: Realizing functional carbon networks in synergy with graphene. 2018 , 126, 489-499 | | 23 |

- ²⁸⁴ Modulating the molecular third-order optical nonlinearity by curved surface of carbon skeleton. **2018**, 116, 242-250
- ²⁸³ Comparative photophysical investigation of doubly-emissive photochromic-fluorescent diarylethenes. **2018**, 20, 2470-2479 12
- ²⁸² Design and synthesis of a series of N-donor quinacridone derivatives with novel nonlinear optical properties. *Dyes and Pigments*, **2018**, 149, 843-850 4.6 13
- ²⁸¹ Light controlled receptors for heavy metal ions. **2018**, 357, 18-49 51
- ²⁸⁰ Photochromic complexes based on enantiomeric 2-(4-pyridyl)-4, 5-dihydrothiazole-4-carboxylic acids. **2018**, 141, 105-109 1
- ²⁷⁹ Linear and nonlinear optical properties of new azo aminosalicylic acid derivatives. *Journal of Luminescence*, **2018**, 194, 507-518 3.8 2
- ²⁷⁸ A theoretical study of the photodynamics of salicylidene-2-anthrylamine in acetonitrile solution. **2018**, 20, 29399-29411 7
- ²⁷⁷ Photochromic naphthalene diimide Cd-MOFs based on different second dicarboxylic acid ligands. **2018**, 20, 7567-7573 30
- ²⁷⁶ Aldehyde-Substituted Donor-Acceptor-Type Dithienylethenes as Novel Building Blocks for Photochromic Materials. **2018**, 42, 531-534 5
- ²⁷⁵ Synthesis, Photophysics, and Switchable Luminescence Properties of a New Class of Ruthenium(II)-Terpyridine Complexes Containing Photoisomerizable Styrylbenzene Units. **2018**, 3, 14526-14537 9
- ²⁷⁴ Nature-Inspired Quasicrystal SRG Using Fibonacci Sequences in Photo-Reconfiguration on Azo Polymer Films. **2018**, 26, 1042-1047 1
- ²⁷³ NEXMD Modeling of Photoisomerization Dynamics of 4-Styrylquinoline. **2018**, 122, 9403-9411 7
- ²⁷² Reversible Optical Writing and Data Storage in an Anthracene-Loaded Metal-Organic Framework. **2018**, 131, 2445 5
- ²⁷¹ Photo-induced morphology transition of a multifunctional photochromic bisthienylethene molecule with switchable aggregation-induced emission. **2018**, 61, 1301-1306 21
- ²⁷⁰ Solution and Solid-State Emission Toggling of a Photochromic Hydrazone. **2018**, 140, 12323-12327 49
- ²⁶⁹ Charge transfer induced tunable bandgap and enhanced saturable absorption behavior in rGO/WO₃ composites. **2018**, 124, 1 11
- ²⁶⁸ Evaluation of Ce³⁺: LiCaAlF₆ single crystal by Multi-Photon Luminescence Measurement. **2018**, 86, 394-397 2
- ²⁶⁷ Photochromic and photomodulated luminescence properties of two metal-organic complexes constructed by a tetracarboxylate-anchored bipyridinium-based ligand. **2018**, 20, 6412-6419 24

| | | | |
|-----|--|-----|----|
| 266 | Concise Synthesis of Photoresponsive Polyureas Containing Bridged Azobenzenes as Visible-Light-Driven Actuators and Reversible Photopatterning. 2018 , 51, 4290-4297 | | 35 |
| 265 | Facile preparation of ductile, free-standing and multilayer polymeric optical data storage media with macroscopic structural homogeneity. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 6118-6124 | 7.1 | 1 |
| 264 | Polychromogenic molecular systems based on photo- and ionochromic spiropyrans. <i>Dyes and Pigments</i> , 2018 , 158, 506-516 | 4.6 | 8 |
| 263 | Stepwise photochromism of bisnaphthopyrans exhibiting an excitation intensity-dependent color change. <i>Photochemical and Photobiological Sciences</i> , 2018 , 17, 946-953 | 4.2 | 7 |
| 262 | Recent advances in the use of photochromic dyes for photocontrol in biomedicine. 2018 , 372, 66-84 | | 58 |
| 261 | Single, Double Electronic Excitations and Exciton Effective Conjugation Lengths in π -Conjugated Systems. 2018 , 9, 4029-4036 | | 5 |
| 260 | Tripodal N-Functionalized Arylazo-3,5-dimethylpyrazole Derivatives of Trimesic Acid: Photochromic Materials for Rewritable Imaging Applications. <i>ChemPhotoChem</i> , 2018 , 2, 806-810 | 3.3 | 11 |
| 259 | Tuning the Photophysical and Electroluminescence Properties in Asymmetrically Tetrasubstituted Bipolar Carbazoles by Functional Group Disposition. 2018 , 10, 24013-24027 | | 35 |
| 258 | A multi-functional fluorescent sensor for Zn ²⁺ and HSO ₄ ⁻ based on a new diarylethene derivative. 2018 , 59, 3365-3372 | | 17 |
| 257 | Reversible Thermal Dielectric Switch Triggered by Blooming-Flower Structural Phase Transition in Ionic Crystal without Metal. <i>Inorganic Chemistry</i> , 2018 , 57, 10153-10159 | 5.1 | 15 |
| 256 | Reversible Fluorescence Modulation in a Dyad Comprising Phenothiazine Derivative and Spiropyran. 2018 , 7, 2254-2262 | | 1 |
| 255 | The influence of the secondary building linker geometry on the photochromism of naphthalenediimide-based metal-organic frameworks. 2018 , 20, 4849-4856 | | 18 |
| 254 | Effects of Empirical Dispersion Energy on the Geometrical Parameters and Relative Energy of a Salicylideneaniline Molecular Switch in the Solid State. <i>Crystals</i> , 2018 , 8, 125 | 2.3 | 4 |
| 253 | Synthesis, characterization and electrochemical investigations of azo dyes derived from 2-amino-6-ethoxybenzothiazole. 2018 , 17-18, 13-29 | | 8 |
| 252 | Probing Multiphoton Photophysics Using Two-Beam Action Spectroscopy. 2018 , 122, 6643-6653 | | 4 |
| 251 | Anionic Dinuclear Oxidovanadium(IV) Complexes with Azo Functionalized Tridentate Ligands and π -Ethoxido Bridge Leading to an Unsymmetric Twisted Arrangement: Synthesis, X-ray Structure, Magnetic Properties, and Cytotoxicity. <i>Inorganic Chemistry</i> , 2018 , 57, 5767-5781 | 5.1 | 25 |
| 250 | Donor-acceptor substituted thiophene dyes for enhanced nonlinear optical limiting. 2018 , 85, 18-25 | | 27 |
| 249 | Semiconducting Organic-Inorganic Hybrid Material with Distinct Switchable Dielectric Phase Transition. 2018 , 122, 20989-20995 | | 16 |

| | | |
|-----|---|--------|
| 248 | Chiral thiophene derivatives with optimal two-photon absorption in near-infrared window I and II. 2018 , 118, e25690 | 2 |
| 247 | Improving the optical properties of [14] and [18] annulenes sandwiched between electron donor-acceptor groups. 2018 , 709, 26-32 | 7 |
| 246 | Fabrication and electrical characterization of n-1,3,3-trimethylindolino- <i>n</i> -naphthopyrrolospiran/p-Si (organic/inorganic) heterojunction for application in photovoltaic device. 2018 , 171, 44-50 | 5 |
| 245 | Randomly Distributed Plasmonic Hot Spots for Multilevel Optical Storage. 2018 , 122, 15652-15658 | 10 |
| 244 | Rewritable Optical Memory Through High-Registry Orthogonal Upconversion. 2018 , 30, e1801726 | 85 |
| 243 | Stimuli-chromism of photoswitches in smart polymers: Recent advances and applications as chemosensors. 2019 , 98, 101149 | 89 |
| 242 | The influence of gold nanoparticles on the two photon absorption of photochromic molecular systems. 2019 , 21, 18577-18588 | 3 |
| 241 | Light-Driven Intramolecular C-N Cross-Coupling via a Long-Lived Photoactive Photoisomer Complex. 2019 , 131, 14808-14814 | 4 |
| 240 | Light-Driven Intramolecular C-N Cross-Coupling via a Long-Lived Photoactive Photoisomer Complex. 2019 , 58, 14666-14672 | 21 |
| 239 | Controlled photoisomerization in acrylic copolymer nanoparticles based on spironaphthoxazine for reduced thermal reversion. 2019 , 119, 487-498 | 11 |
| 238 | Synthesis, structure and biological evaluation of mixed ligand oxidovanadium(IV) complexes incorporating 2-(aryloxy)phenolates. <i>New Journal of Chemistry</i> , 2019 , 43, 17711-17725 | 3.6 14 |
| 237 | In-Situ Photochromism Switching with Crystal Jumping through the Deammoniation of N-Salicylideneaniline Ammonium Salt. 2019 , 19, 4324-4331 | 10 |
| 236 | Active region of a functionally integrated laser modulator. 2019 , 49, 563-569 | 3 |
| 235 | Multiaddressable Photochromic Architectures: From Molecules to Materials. 2019 , 7, 1900224 | 51 |
| 234 | Smart Windows: Electro-, Thermo-, Mechano-, Photochromics, and Beyond. 2019 , 9, 1902066 | 216 |
| 233 | Cd(II) Based Coordination Polymer Series: Fascinating Structures, Efficient Semiconductors, and Promising Nitro Aromatic Sensing. 2019 , 19, 6431-6447 | 34 |
| 232 | New Insights into Photochromic Properties of N-Salicylideneaniline Derivatives Using a Cocrystal Engineering Approach. 2019 , 19, 5544-5556 | 4 |
| 231 | Electron Localization Function in Excited States: The Case of the Ultrafast Proton Transfer of the Salicylidene Methylamine. 2019 , 15, 5532-5542 | 6 |

| | | | |
|-----|---|-----|----|
| 230 | Synthesis, Characterization, and Photochromic Studies of Cyclometalated Iridium(III) Complexes Containing a Spiroanthoxazine Moiety. 2019 , 38, 3542-3552 | | 11 |
| 229 | Tailoring Multidimensional Traps for Rewritable Multilevel Optical Data Storage. 2019 , 11, 35023-35029 | | 30 |
| 228 | Singlet-Fission-Induced Enhancement of Third-Order Nonlinear Optical Properties of Pentacene Dimers. 2019 , 4, 16181-16190 | | 9 |
| 227 | Photofunctionalization of Phthalocyanines. 2019 , 48, 1452-1461 | | 3 |
| 226 | Interdisciplinary Chemistry Based on Integration of Liquid Crystals and Conjugated Polymers: Development and Progress. 2019 , 92, 1509-1655 | | 51 |
| 225 | Perylenetetracarboxy-3,4:9,10-diimide derivatives with large two-photon absorption activity. <i>New Journal of Chemistry</i> , 2019 , 43, 1885-1893 | 3.6 | 4 |
| 224 | Reversible photochromism of polyoxomolybdate-silicogen hybrids without the need for proton transfer. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 38-42 | 7.1 | 28 |
| 223 | Plexcitonics: Fundamental principles and optoelectronic applications. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 1821-1853 | 7.1 | 51 |
| 222 | Photochromic and super anti-wetting coatings based on natural nanoclays. 2019 , 7, 3120-3127 | | 19 |
| 221 | Bifunctional photo- and vapochromic behaviors of a novel porous zwitterionic metal-organic framework. <i>New Journal of Chemistry</i> , 2019 , 43, 3428-3431 | 3.6 | 11 |
| 220 | Hybridization-activated spherical DNAzyme for cascading two-photon fluorescence emission: Applied for intracellular miRNA measurement by two-photon microscopy. 2019 , 286, 250-257 | | 8 |
| 219 | Unravelling the solvent polarity effect on the excited state intramolecular proton transfer mechanism of the 1- and 2-salicylideneanthrylamine. A TD-DFT case study. 2019 , 21, 915-928 | | 21 |
| 218 | A soft photopolymer cuboid that computes with binary strings of white light. 2019 , 10, 2310 | | 8 |
| 217 | Electronic Structure of Liquid Methanol and Ethanol from Polarization-Dependent Two-Photon Absorption Spectroscopy. 2019 , 123, 5789-5804 | | 5 |
| 216 | pH-Induced Fluorescence and Thermal Relaxation Rate Modulation in a Hydrazone Photoswitch. <i>ChemPhotoChem</i> , 2019 , 3, 361-364 | 3.3 | 8 |
| 215 | Syntheses of mono and bimetallic cyamelurate polymers with reversible chromic behaviour. 2019 , 48, 7006-7014 | | 10 |
| 214 | A new tetraphenylethene-based Schiff base: two crystalline polymorphs exhibiting totally different photochromic and fluorescence properties. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 7053-7060 | 7.1 | 27 |
| 213 | Layered photochromic films stacked from spiropyran-modified montmorillonite nanosheets.. 2019 , 9, 12325-12330 | | 12 |

| | | | |
|-----|--|-----|-----|
| 212 | Tuning the Ebridge of quadrupolar triarylborane chromophores for one- and two-photon excited fluorescence imaging of lysosomes in live cells. 2019 , 10, 5405-5422 | | 58 |
| 211 | D- π -D coumarin hybrids derived from arylamine donors: DFT and Z-scan studies. 2019 , 92, 100-110 | | 6 |
| 210 | Structure Property Analysis of the Solution and Solid-State Properties of Bistable Photochromic Hydrazones. 2019 , 141, 8364-8371 | | 58 |
| 209 | Reversible photochromic tetraphenylethene-based Schiff base: Design, synthesis, crystal structure and applications as visible light driven rewritable paper and UV sensor. <i>Dyes and Pigments</i> , 2019 , 167, 143-150 | 4.6 | 26 |
| 208 | Photophysics and luminescence switching properties of a series of photochromic styrylbenzene-terpyridine conjugate: Experimental and DFT/TD-DFT investigation. 2019 , 378, 94-104 | | 8 |
| 207 | Synthesis and photophysical properties of pyridyl conjugated triazole appended naphthalenediimide derivatives. <i>Photochemical and Photobiological Sciences</i> , 2019 , 18, 1333-1341 | 4.2 | 3 |
| 206 | A Direct Approach to 3-Azo-Substituted 2-Oxindoles at Room Temperature by Nickel-Catalyzed Oxidative Coupling Reaction. 2019 , 8, 475-478 | | 1 |
| 205 | Preparation of photochromic liquid core nanocapsules based on theoretical design. 2019 , 547, 318-329 | | 12 |
| 204 | Multi-Photon Excitation Based Nonlinear Optical Effects and Applications. 2019 , 64, 155-278 | | 2 |
| 203 | Synthesis and photochromic behavior of new hybridized 1,3-diazabicyclo[3.1.0]hex-3-ene with tri, and tetraarylimidazole units. <i>Dyes and Pigments</i> , 2019 , 167, 89-97 | 4.6 | 4 |
| 202 | Solution and solid state photochromism in a family of shape persistent azobenzene tetramers functionalized with alkyloxy substituents. <i>Photochemical and Photobiological Sciences</i> , 2019 , 18, 2281-2286 | 4.2 | 2 |
| 201 | Functional Non-Volatile Memory Devices: From Fundamentals to Photo-Tunable Properties. 2019 , 13, 1800644 | | 20 |
| 200 | Photo-tunable linear and nonlinear optical response of cyclophanediene-dihydropyrene photoswitches. 2019 , 88, 261-272 | | 5 |
| 199 | Synthesis of monodisperse aromatic azo oligomers toward gaining new insight into the isomerization of E-conjugated azo systems. 2019 , 10, 1806-1811 | | 10 |
| 198 | Multifunctional Self-Assembled Macrocycles with Enhanced Emission and Reversible Photochromic Behavior. <i>Inorganic Chemistry</i> , 2019 , 58, 3968-3981 | 5.1 | 25 |
| 197 | Organic Cocrystals: Beyond Electrical Conductivities and Field-Effect Transistors (FETs). 2019 , 131, 9798-9813 | | 33 |
| 196 | Organic Cocrystals: Beyond Electrical Conductivities and Field-Effect Transistors (FETs). 2019 , 58, 9696-9711 | | 143 |
| 195 | Simplified Sum-Over-States Model Applied to Ultrafast Nonlinear Optical Measurements of Two-Photon Absorbing Chromophores. 2019 , | | |

| | | | |
|-----|---|------|-----|
| 194 | Determination of Two-Photon Absorption Cross-Sections in Selected Diketo-Pyrrolo-Pyrroles. 2019 , 955, 37-43 | | |
| 193 | Photochemical Transformations Involving Organoboron. 2019 , 1-43 | | 2 |
| 192 | Photochemical multivariate curve resolution models for the investigation of photochromic systems under continuous irradiation. 2019 , 1053, 32-42 | | 3 |
| 191 | Multi-modulated photochromic behavior of a D-A type dithienylethene. <i>Dyes and Pigments</i> , 2019 , 162, 712-720 | 4.6 | 20 |
| 190 | Ambipolar carrier transport in an optically controllable diarylethene thin film transistor. 2019 , 64, 205-208 | | 12 |
| 189 | Remarkable responsive behaviors of iso-aminobenzopyranoxanthenes: protonation effect, photochromism and piezochromism. <i>Dyes and Pigments</i> , 2019 , 162, 831-836 | 4.6 | 5 |
| 188 | Photo-Modulating Multicolor Photoluminescence Including White-Light Emission from a Photochromic Copolymer. 2019 , 40, e1800751 | | 28 |
| 187 | Modulation of photochromic properties of spirooxazine bearing sulfobutyl substituent by metal ions. 2019 , 371, 453-460 | | 7 |
| 186 | Investigation of structure and dynamics in a photochromic molecular crystal by NMR crystallography. 2019 , 57, 230-242 | | 1 |
| 185 | Vacuum-enhanced optical nonlinearities with disordered molecular photoswitches. 2019 , 99, | | 7 |
| 184 | Solvent-dependent and visible light-activated NIR photochromic dithienylethene modified by difluoroboron diketonates as fluorescent turn-on pH sensor. <i>Dyes and Pigments</i> , 2019 , 162, 339-347 | 4.6 | 38 |
| 183 | Reversible Optical Writing and Data Storage in an Anthracene-Loaded Metal-Organic Framework. 2019 , 58, 2423-2427 | | 61 |
| 182 | Exploring the Relationship between Intermolecular Interactions and Solid-State Photophysical Properties of Organic Co-Crystals. 2019 , 123, 9311-9322 | | 16 |
| 181 | Bipyridinium derivative-based coordination polymers: From synthesis to materials applications. 2019 , 378, 533-560 | | 133 |
| 180 | Photophysics Modulation in Photoswitchable Metal-Organic Frameworks. <i>Chemical Reviews</i> , 2020 , 120, 8790-8813 | 68.1 | 142 |
| 179 | Star-shaped triazine-cored ladder-type ter(p-phenylene)s for high-performance multiphoton absorption and amplified spontaneous blue emission. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 1768-1772 ¹ | 7.1 | 3 |
| 178 | Switching of Two-Photon Optical Properties by Anion Binding of Pyrrole-Based Boron Diketonates through Conformation Change. <i>Chemistry - A European Journal</i> , 2020 , 26, 3404-3410 | 4.8 | 9 |
| 177 | The Role of Morphology in Optically Switchable Transistors Based on a Photochromic Molecule/p-Type Polymer Semiconductor Blend. 2020 , 30, 1907507 | | 14 |

| | | | |
|-----|--|-----|----|
| 176 | The photochromism of a coordination polymer constructed by Cd(II) and the mono-substituted viologen ligand 1-(3,5-dicarboxylbenzyl)-4,4'-bipyridinium bromide. 2020 , 502, 119292 | | 5 |
| 175 | Photochromic inorganic-organic complex derived from low-cost deep eutectic solvents with tunable photocurrent responses and photocatalytic properties. 2020 , 22, 1078-1085 | | 14 |
| 174 | Fluorescent materials-based information storage. 2020 , 4, 1024-1039 | | 40 |
| 173 | The photochromic, electrochemical and third-order nonlinear optical properties of the novel naphthopyran derivatives. <i>Dyes and Pigments</i> , 2020 , 183, 108689 | 4.6 | 1 |
| 172 | Anion-Responsive Molecules That Exhibit Switching of Two-Photon Optical Properties. 2020 , 85, 1719-1729 | | 2 |
| 171 | Accurate Nonlinear Optical Properties of Solvated -Nitroaniline Predicted by an Electrostatic Discrete Local Field Approach. 2020 , 124, 10195-10209 | | 3 |
| 170 | Semiconductive donor promoted photochromism of iodoplumbate hybrids. 2020 , 7, 4865-4871 | | 12 |
| 169 | Quantum design for singlet-fission-induced nonlinear optical systems: Effects of E-conjugation length and molecular packing of butterfly-shaped acenes. 2020 , 153, 084304 | | 2 |
| 168 | Fatigue-Resistant Crosslinked Azopolymers with Inhibited H-Aggregation for Efficient Photopatterning. <i>ChemPhotoChem</i> , 2020 , 4, 5383-5391 | 3.3 | 1 |
| 167 | Chloro- and BF ₂ bdk-substituted dithienylethene: Synthesis, photophysical properties, and optical switching behavior. 2020 , 174751982095141 | | 1 |
| 166 | Enhancement of two-photon initiation efficiency based on conjugated phenothiazine and carbazole derivatives. 2020 , 24, 101219 | | 6 |
| 165 | Computational and Crystallographic Examination of Naphthoquinone Based Diarylethene Photochromes. 2020 , 25, | | 1 |
| 164 | Study on The Third-Order NLO Properties of Trace Metal Ions in Nitric Acid Solution by Closed-Aperture Z-scan Technique. 2020 , 1484, 012005 | | |
| 163 | Mechanistic Insights into the Triplet Sensitized Photochromism of Diarylethenes. <i>Chemistry - A European Journal</i> , 2020 , 26, 7672-7677 | 4.8 | 10 |
| 162 | Synthesis and properties of a photochromic perinaphthothioindigo conjugated with two porphyrins. 2020 , 24, 1030-1037 | | |
| 161 | Sterically hindered diarylethenes with thienopyridine: Substituent position effect on photochromic properties. <i>Dyes and Pigments</i> , 2020 , 182, 108620 | 4.6 | 3 |
| 160 | Kinematics of Photoisomerization Processes of PMMA-BDK-MR Polymer Composite Thin Films. <i>Polymers</i> , 2020 , 12, | 4.5 | 4 |
| 159 | Photochromic Polymers Based on Fluorophenyl Oxime Ester Photoinitiators as Photoswitchable Molecules. 2020 , 53, 5701-5710 | | 13 |

| | | | |
|-----|--|-----|-----|
| 158 | Optical Evaluation of Divalent and Trivalent Eu Ions Doped in CaF ₂ Crystals Using Multiphoton Luminescence 3D Distribution Measurements. 2020 , 257, 1900477 | | |
| 157 | Applicability of 2,3-dihydro-2-spiro-4[8?-aminonaphtalen-1?(4?H)-on]perimidine to dosimeters. 2020 , 135, 106343 | | 0 |
| 156 | High first-hyperpolarizabilities of thiobarbituric acid derivative-based donor-acceptor nonlinear optical-phores: Multiple theoretical investigations of substituents and conjugated bridges effect. 2020 , 120, e26176 | | 2 |
| 155 | Progressive Readout Platform Based on Photoswitchable Polyacrylic Nanofibers Containing Spiropyran in Photopatterning with Instant Responsivity to AcidBase Vapors. 2020 , 53, 1613-1622 | | 28 |
| 154 | The Influence of Anions on Electron-Transfer Photochromism of Bipyridinium-Derived MetalOrganic Materials. 2020 , 20, 1729-1737 | | 29 |
| 153 | Photoinduced properties of III-type polyimides with azobenzene or azopyridine moieties. 2020 , 126, 109563 | | 7 |
| 152 | Chemical and photochemical behavior of ruthenium nitrosyl complexes with terpyridine ligands in aqueous media. 2020 , 49, 3138-3154 | | 15 |
| 151 | Photobleaching of organic fluorophores: quantitative characterization, mechanisms, protection. 2020 , 8, 022001 | | 75 |
| 150 | Luminescence modulation of the Eu ³⁺ doped Sr _{n+1} SnnO _{3n+1} (n=1, 2, 5, 11)ceramics based on photochromism and its application in anti-counterfeiting technology. 2020 , 46, 11962-11969 | | 14 |
| 149 | Manipulating On/Off Single-Molecule Magnet Behavior in a Dy(III)-Based Photochromic Complex. 2020 , 142, 2682-2689 | | 184 |
| 148 | Chromogenic properties of 2-(2-carbomethoxy-3,4-dichloro-6-hydroxyphenyl)benzoxazole and its Zn(II) and Cd(II) complexes. <i>Dyes and Pigments</i> , 2020 , 180, 108417 | 4.6 | 4 |
| 147 | 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 |
| 146 | Electro-Photoluminescence Color Change for Deformable Visual Encryption. 2020 , 32, e1907477 | | 19 |
| 145 | Synthesis and characterization of ZnO NPs-doped PMMA-BDK-MR polymer-coated thin films with UV curing for optical data storage applications. 2021 , 78, 1189-1211 | | 13 |
| 144 | Optical properties and photo-isomerization processes of PMMA-BDK-MR nanocomposite thin films doped by silica nanoparticles. 2021 , 78, 3425-3441 | | 7 |
| 143 | Crystal structures and thermochromic and fluorescence properties of N-salicylideneaniline derivatives having a naphthyl-isoquinoline group. <i>Journal of Molecular Structure</i> , 2021 , 1229, 129603 | 3.4 | 3 |
| 142 | Photochromic properties of ruthenium complexes with dithienylethene-ethynylthiophene. <i>Dyes and Pigments</i> , 2021 , 184, 108750 | 4.6 | 2 |
| 141 | Small-molecule-based fluorescent probes for f-block metal ions: A new frontier in chemosensors. 2021 , 427, 213524 | | 15 |

| | | | |
|-----|---|-----|----|
| 140 | Dithienylethene-bridged gold(I) isocyanide complexes: Synthesis, photochromism and turn-on fluorescent switching behavior. <i>Dyes and Pigments</i> , 2021 , 185, 108933 | 4.6 | 4 |
| 139 | Synthesis and photochromism of dithienylethene-based isocyanide and gold (I) complexes with various alkyl chains. <i>Dyes and Pigments</i> , 2021 , 186, 108964 | 4.6 | 1 |
| 138 | Development of a Schottky barrier diode using molecular network of 1-alkyl-2-(aryloxy) imidazole prepared by Langmuir-Blodgett technique. 2021 , 149, 109778 | | 0 |
| 137 | Let the light be a guide: Chromophore communication in metal-organic frameworks. 2021 , 14, 338-354 | | 18 |
| 136 | Rare earth orthoniobate photochromics with self-activated upconversion emissions for high-performance optical storage applications. <i>Journal of Materials Chemistry C</i> , | 7.1 | 3 |
| 135 | Photophysical property change of N-(5-bromo-salicylidene)-3-aminoethylpyridine monohydrated crystals via dehydration phase transition. 2021 , 236, 43-50 | | 1 |
| 134 | Unconventional singlet fission materials. 2021 , 50, 3485-3518 | | 31 |
| 133 | Fluidic Platforms Incorporating Photo-Responsive Soft-Polymers Based on Spiropyran: From Green Synthesis to Precision Flow Control. 2021 , 7, | | 0 |
| 132 | Solid-state reversible optical switch based on two dendritic molecules with dual sensitivity of mechanochromism and photochromism. 2021 , 5, 3918-3926 | | 6 |
| 131 | Red and Near-IR Fluorescent Two-Photon Absorption Dyes. 2021 , 283-307 | | |
| 130 | Photo-switchable iron-terpyridine complexes functionalized with styrylbenzene unit. 2021 , 407, 113059 | | 3 |
| 129 | Influence of methyl group in a quinoline moiety on optical and light-induced properties of side-chain azo-polymers. 1 | | 1 |
| 128 | Emission Switching in the Near-Infrared by Reversible Trans-Cis Photoisomerization of Styrylbenzene-Conjugated Osmium Terpyridine Complexes. <i>Inorganic Chemistry</i> , 2021 , 60, 4869-4882 | 5.1 | 2 |
| 127 | Synthesis, characterization and in vitro antidiabetic activity of anionic dioxidovanadium(V) complexes. 2021 , 98, 100047 | | 0 |
| 126 | Photochromism of Sm ³⁺ -doped perovskite oxide: Ultrahigh-contrast optical switching and erasable optical recording. <i>Journal of Luminescence</i> , 2021 , 233, 117922 | 3.8 | 9 |
| 125 | The orbital picture of the first dipole hyperpolarizability from many-body response theory. 2021 , 154, 184109 | | 1 |
| 124 | Advances in Application of Azobenzene as a Trigger in Biomedicine: Molecular Design and Spontaneous Assembly. 2021 , 33, e2007290 | | 29 |
| 123 | Photo/Thermal Dual Responses in Aqueous-Soluble Copolymers Containing 1-Naphthyl Methacrylate. 2021 , 54, 4860-4870 | | 2 |

| | | | |
|-----|---|-----|----|
| 122 | Flexible four-dimensional optical data storage enabled by single-pulse femtosecond laser irradiation in thermoplastic polyurethane. <i>Optics Letters</i> , 2021 , 46, 3211-3214 | 3 | 2 |
| 121 | Novel A-B-A structure two-photon polymerization initiators based on phenothiazine and carbazole derivatives. 2021 , 75, 5249-5256 | | 4 |
| 120 | NaMgF ₃ :Tb ³⁺ @NaMgF ₃ Nanoparticles Containing Deep Traps for Optical Information Storage. 2021 , 9, 2100624 | | 11 |
| 119 | 4D Ultra-High-Density Long Data Storage Supported by a Solid-State Optically Active Polymeric Material with High Thermal Stability. 2021 , 9, 2100487 | | 2 |
| 118 | Anthrathiadiazole Derivatives: Synthesis, Physical Properties and Two-photon Absorption. <i>Chemistry - A European Journal</i> , 2021 , 27, 10898-10902 | 4.8 | 1 |
| 117 | Two-photon absorption characterization and comparison of Au(I) fluorenyl benzothiazole complexes in the visible wavelength regime. <i>Applied Optics</i> , 2021 , 60, G199-G206 | 1.7 | 0 |
| 116 | Synthesis, growth and characterization of benzyldeneaniline compounds: N-(4-bromobenzylidene)-4-fluoroaniline and N-(4-bromobenzylidene)-4-methoxyaniline. 2021 , 117, 111081 | | 0 |
| 115 | Designing Photochromic Materials with Large Luminescence Modulation and Strong Photochromic Efficiency for Dual-Mode Rewritable Optical Storage. 2021 , 9, 2100669 | | 17 |
| 114 | Low-cost photo-switches based on stilbene-appended Zn(II)-terpyridine complexes. <i>Photochemical and Photobiological Sciences</i> , 2021 , 20, 1125-1145 | 4.2 | 1 |
| 113 | Exploring the pH-dependent kinetics, thermodynamics and photochemistry of a flavylum-based pseudorotaxane. 2021 , | | 1 |
| 112 | Enhancement of two-photon-excited fluorescence by distributed Bragg reflectors. 2021 , 297, 129946 | | |
| 111 | Phosphor SrZrO ₃ :Sm ³⁺ with fluorescence modulation and photochromic characteristics for erasable optical storage. 2021 , | | 2 |
| 110 | Dithienylethene metallodendrimers with high photochromic efficiency. 2021 , | | 0 |
| 109 | Thermal engineering of electron-trapping materials for Smart-Write-In Optical data storage. 2021 , 420, 129788 | | 3 |
| 108 | High-contrast photochromic Eu-doped KNaNbO ceramics with prominent pellucidity. 2021 , 50, 4914-4922 | | 5 |
| 107 | Construction of a viologen-derived 2D material with photochromism, photoswitchable luminescence and inkless and erasable prints via sunlight irradiation. 2021 , 23, 6315-6321 | | 3 |
| 106 | On-Demand Reversible UV-Triggered Interpenetrating Polymer Network-Based Drug Delivery System Using the Spiropyran-Merocyanine Hydrophobicity Switch. 2021 , 13, 3591-3604 | | 18 |
| 105 | The inspiration and challenge for through-space charge transfer architecture: from thermally activated delayed fluorescence to non-linear optical properties. 2021 , 23, 15881-15898 | | 5 |

| | | | |
|-----|---|-----|----|
| 104 | The design strategies and applications for organic multi-branched two-photon absorption chromophores with novel cores and branches: a recent review. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 1520-1536 | 7.1 | 16 |
| 103 | Development of Hybrid Nanocomposites for Electronic Applications. 2009 , 231-287 | | 4 |
| 102 | Self-Assembled Liquid Crystalline Conjugated Polymers: Synthesis, Development, and Their Advanced Electro-Optical Properties. <i>Nanoscience and Technology</i> , 2014 , 319-353 | 0.6 | 1 |
| 101 | Laser Nanostructuring of Polymers. 2014 , 293-313 | | 6 |
| 100 | Substitution- and Temperature-Effects on Hemithioindigo Photoisomerization [The Relevance of Energy Barriers. 2009 , 319-321 | | 8 |
| 99 | Theoretical Photochemistry of the Photochromic Molecules Based on Density Functional Theory Methods. 2009 , 169-178 | | 1 |
| 98 | Optical Data Storage. 2011 , 335-415 | | 2 |
| 97 | Ultrafast Photoswitching Dynamics of Azobenzenes with Intra- and Intermolecular Constraints. 2017 , 237-259 | | 1 |
| 96 | Light-Sensitive Organic Recording Media for Three-Dimensional Optical Memory. 2017 , 181-207 | | 3 |
| 95 | Visible light-activated optical switching behaviors of tetra-/triphenylethene-dithienylethene-BF ₂ bdk triad. <i>Dyes and Pigments</i> , 2020 , 182, 108686 | 4.6 | 6 |
| 94 | Protein-Based Self-Healing Cu(II)-Metallohydrogels: Efficient Third-Order Nonlinear Optical Materials in Terms of an Intensity-Dependent Refractive Index and Two-Photon Absorption. 2020 , 2, 3678-3685 | | 9 |
| 93 | Cation-templated cyanometallate-based supramolecular rectangular cage compounds showing dielectric transitions. 2017 , 4, 1304-1310 | | 6 |
| 92 | Triphenylamine-imidazole-based luminophores for deep-blue organic light-emitting diodes: experimental and theoretical investigations. 2020 , 1, 666-679 | | 16 |
| 91 | Ultrafast dynamics of a series multi-branched styryl derivatives with reverse conjugated structural configuration. <i>Journal of Applied Physics</i> , 2017 , 122, 043101 | 2.5 | 8 |
| 90 | Zn responsive fluorescence enhancement for optical data storage. <i>Applied Optics</i> , 2020 , 59, 1249-1252 | 1.7 | 1 |
| 89 | Plasmonic Nano-structures for Optical Data Storage. 2009 , | | 4 |
| 88 | Photochromism in Anils - A Review. <i>Open Chemistry Journal</i> , 2015 , 2, 7-19 | 2.3 | 16 |
| 87 | Chiral Photoresponsive Liquid Crystalline Materials Derived from Cyanoazobenzene Central Core: Effect of UV Light Illumination on Mesomorphic Behavior. <i>Crystals</i> , 2020 , 10, 1161 | 2.3 | 3 |

| | | | |
|----|--|-----|----|
| 86 | Structure, Photochromism and Liquid Crystal Properties of 1-Alkyl-2-(Arylazo)Imidazoles (Raai-C&sub>n</sub>H&sub>2n+1</sub>; n (Even) = 10 - 22). <i>Advances in Materials Physics and Chemistry</i> , 2013 , 03, 133-145 | 0.5 | 9 |
| 85 | Fatigue Property of Oxidized Photochromic Dithienylethene Derivative for Permanent Optical Recording. <i>Bulletin of the Korean Chemical Society</i> , 2005 , 26, 1675-1676 | 1.2 | 15 |
| 84 | Facile Evaluation of Thermodynamic Parameters for Reverse Thermochromism of Indolinobenzospiropyran-6-carboxylates in Aqueous Binary Solvents. <i>Bulletin of the Korean Chemical Society</i> , 2012 , 33, 2683-2688 | 1.2 | 5 |
| 83 | Parallel Signal Readout for Roll-Type Optical Advanced Memory. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 09MF04 | 1.4 | 2 |
| 82 | Sub-10 ns single-shot dynamic recording in holographic polymeric medium by nonlinear absorption using excited state absorption process. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 09SB04 | 1.4 | 2 |
| 81 | Effect of femtosecond laser pulse repetition rate on nonlinear optical properties of organic liquids. 1, e1 | | 3 |
| 80 | Photosensitive Bent-Core Liquid Crystals with Laterally Substituted Azobenzene Unit. <i>Crystals</i> , 2021 , 11, 1265 | 2.3 | 1 |
| 79 | Anisotropic nanostructure generated by a spatial-temporal manipulated picosecond pulse for multidimensional optical data storage. <i>Optics Letters</i> , 2021 , 46, 5485-5488 | 3 | 0 |
| 78 | Fast readout method for multidimensional optical data storage using interferometry-aided reflectance spectroscopy. <i>Optics Express</i> , 2021 , 29, 36608-36615 | 3.3 | |
| 77 | Hybrid Molecules Based on Fullerene C60 and Dithienylethenes. Synthesis and Photochromic Properties. Optically Controlled Organic Field-Effect Transistors. <i>Photochemistry and Photobiology</i> , 2021 , | 3.6 | 0 |
| 76 | Synthesis, characterization, and photochromism study of two spiropyran molecules with a terminal alkynyl functional group and their new 1,2,3-triazoline-containing derivatives. <i>Journal of the Iranian Chemical Society</i> , 1 | 2 | 0 |
| 75 | Data Storage in a Nanocrystalline Mixture Using Room Temperature Frequency-Selective and Multilevel Spectral Hole-Burning. <i>ACS Photonics</i> , 2021 , 8, 3078-3084 | 6.3 | 1 |
| 74 | MICROSCOPY Imaging Multiple Photon Fluorescence Microscopy. 2005 , 77-84 | | |
| 73 | Multilayered optical memories. <i>The Review of Laser Engineering</i> , 2005 , 33, S20-S21 | 0 | |
| 72 | Two-photon absorption spectra of Salen dye complexes. 2007 , | | |
| 71 | New Development of Roll-Type Multilayered Optical Memory for High Density Data Storage. 2007 , | | |
| 70 | Curious gain-switching operation of GaInN blue-violet laser diodes producing high-peak-power picosecond optical pulses. 2009 , | | |
| 69 | Magnetic Recording. <i>Nanoscience and Technology</i> , 2009 , 173-184 | 0.6 | |

- 68 Application of Organoboron Polymer to Multi Layered Two-Photon Absorption Optical Memory. *Zairyo/Journal of the Society of Materials Science, Japan*, **2010**, 59, 694-698 0.1
- 67 Synthesis of spiropyran analogues of retinal and study of their interaction with bacterioopsin from *Halobacterium salinarum*. **2010**, 34, 252
- 66 Roll-Type Optical Advanced Memory with High Recording Capacity. *Kyokai Joho Imoji Zasshi/Journal of the Institute of Image Information and Television Engineers*, **2011**, 65, 1808-1812 0
- 65 Fiber Optics for Multilayered Optical Memory. *Transactions of the Society of Information Storage Systems*, **2011**, 7, 53-59
- 64 Photoresponsive Chiral Liquid Crystals. 323-344
- 63 Electro-Optical Properties in Thin Films of New Azobenzene Polymers. *Chemistry and Chemical Technology*, **2015**, 9, 137-141 0.9
- 62 Femtosecond transient absorption spectroscopy of photochromic diarylethene derivatives. *Reports National Academy of Science of Ukraine*, **2015**, 57-63 0.2
- 61 Volume Holographic Recording. **2016**,
- 60 Experimental demonstration of a light beam with superior aberration resilience. *Optics Letters*, **2016**, 41, 4425-4428 3
- 59  2'-[2]- *Proceedings of the Academy of Sciences*, **2017**, 311 0.5
- 58 Magnetic Recording. *Nanoscience and Technology*, **2017**, 231-248 0.6
- 57 Polyfunctional Photochromic Magnetic Materials Based on 3D Metal (Tris) Oxalates. **2017**, 261-284
- 56 Stepwise Two-Photon Photochromism. **2020**, 57-78
- 55 A Study on Bismuth-Based Photochromic Inorganic-Organic Hybrid with Photoelectric Switchable Properties. *Studies in Synthetic Chemistry*, **2020**, 08, 16-24 0
- 54 Thermal lens with passively tuned focal length formed in a photochromic material. *Applied Optics*, **2020**, 59, 6682-6688 1.7 1
- 53 Substituent position effect on photochromic properties of aldehyde-functionalized dithienylethenes. *Molecular Crystals and Liquid Crystals*, **2020**, 712, 24-30 0.5
- 52 Fine-Tuning of Nonlinear Optical Contrasts of Hexaphyrin-Based Molecular Switches Using Inverse Design.. *Frontiers in Chemistry*, **2021**, 9, 786036 5 0
- 51 Electron transfer photochromism of solid-state supramolecules constructed by cucurbit[n]uril (n = 58) and 1-(4-carboxybenzyl)-4-[2-(4-pyridyl)-vinyl]-pyridinium chloride. *New Journal of Chemistry*, **2021**, 45, 22249-22254 3.6 1

| | | | |
|----|---|------|---|
| 50 | New photochromic-ligand-based luminescent coordination polymer as MnO ₄ ⁻ sensor with extremely high sensitivity and excellent selectivity. <i>Journal of Materials Chemistry C</i> , | 7.1 | 0 |
| 49 | Donor-acceptor type NIR dithienylethene with aggregation-induced emission for multi-state photochromic behavior. <i>Dyes and Pigments</i> , 2022 , 199, 110055 | 4.6 | 2 |
| 48 | Hydrazone Photoswitches for Structural Modulation of Short Peptides.. <i>Chemistry - A European Journal</i> , 2021 , | 4.8 | 0 |
| 47 | Benzotriazole-based multidonor-acceptor systems as attractive two-photon absorption dye platforms. <i>Dyes and Pigments</i> , 2022 , 200, 110149 | 4.6 | |
| 46 | Photo/Electrochromic Dual Responsive Behavior of a Cage-like Zr(IV)-Viologen Metal-Organic Polyhedron (MOP).. <i>Inorganic Chemistry</i> , 2022 , 61, 2813-2823 | 5.1 | 2 |
| 45 | Spiropyran-based advanced photoswitchable materials: A fascinating pathway to the future stimuli-responsive devices. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2022 , 51, 100487 | 16.4 | 8 |
| 44 | Photochromic properties in a head coupled ruthenium complex with dithienylethene-ethynylthiophene. <i>Journal of Coordination Chemistry</i> , 1-11 | 1.6 | |
| 43 | Design and Study of a Photo-Switchable Polymeric System in the Presence of ZnS Nanoparticles under the Influence of UV Light Irradiation.. <i>Polymers</i> , 2022 , 14, | 4.5 | 2 |
| 42 | Spectroscopic Ellipsometry and Quartz Crystal Microbalance with Dissipation for the Assessment of Polymer Layers and for the Application in Biosensing.. <i>Polymers</i> , 2022 , 14, | 4.5 | 1 |
| 41 | Fine-Tuning the Thermal Relaxation Dynamics of Indigo-Based Photoswitches Using Selective Non-Covalent Interactions Without Chemical Modification. <i>ChemPhotoChem</i> , | 3.3 | 0 |
| 40 | Nano-doped PDLC combined with photochromic material for bifunctional optical control films. <i>Liquid Crystals</i> , 1-11 | 2.3 | 1 |
| 39 | Two halogen and hydrogen-bonding modulated photochromic Cd(II) complexes with long-lived charge-separated state and acetonitrile erasable behavior. <i>Dyes and Pigments</i> , 2022 , 110302 | 4.6 | |
| 38 | WO ₃ quantum dot photochromical film. <i>Solar Energy Materials and Solar Cells</i> , 2022 , 239, 111664 | 6.4 | 1 |
| 37 | All-visible-light triggered photochromic fluorescent dithienylethene-phenanthroimidazole dyads: Synthesis, crystal structure, multiple switching behavior and information storage. <i>Dyes and Pigments</i> , 2022 , 202, 110298 | 4.6 | 0 |
| 36 | Reversible Photochromic Coordination Polymer by Phototriggered Subtle Molecular Conformation Variations. <i>Inorganic Chemistry</i> , 2021 , | 5.1 | 1 |
| 35 | Five-dimensional unclonable anticounterfeiting orthogonal Raman labels. <i>Journal of Materials Chemistry C</i> , | 7.1 | 2 |
| 34 | Femtosecond response from two copolymers with intense two-photon absorption. <i>Applied Physics B: Lasers and Optics</i> , 2005 , 80, 541 | 1.9 | |
| 33 | Vibrational spectroscopy studies of methacrylic polymers containing heterocyclic azo dyes. <i>Vibrational Spectroscopy</i> , 2022 , 120, 103377 | 2.1 | |

- 32 Synthesis of Acyl Hydrazides via a Radical Chemistry of Azocarboxylic -Butyl Esters.. *Journal of Organic Chemistry*, **2022**, 87, 6573-6587 4.2 1
- 31 Excitation wavelength- and intensity-dependent stepwise two-photon-induced photochromic reaction.. *Photochemical and Photobiological Sciences*, **2022**, 1 4.2 1
- 30 Indolo[3,2,1-]carbazole-Derived Narrowband Violet-Blue Fluorophores: Tuning the Optical and Electroluminescence Properties by Chromophore Juggling.. *Journal of Organic Chemistry*, **2022**, 87, 6668-6679 4.2 0
- 29 Investigation on Response of Ophthalmic Photochromic Transition Signature□ Vii Lens to Ultraviolet Radiation. *SSRN Electronic Journal*, 1
- 28 Synthesis and photochromism of catechol-containing symmetrical azobenzene compounds. *Royal Society Open Science*, **2022**, 9, 3.3 0
- 27 Methoxido-Bridged Lacunary Heterocubane Oxidovanadium(IV) Cluster with Azo Ligands: Synthesis, X-ray Structure, Magnetic Properties, and Antiproliferative Activity. *European Journal of Inorganic Chemistry*, 2.3 1
- 26 Direct writing-in and visualizing reading-out data storage with high capacity in low-cost plastics. *Journal of Semiconductors*, **2022**, 43, 062301 2.3 0
- 25 Cyanostilbene-functionalized dithienylethenes with aggregation -induced emission for photoswitching behavior in multi-media. *Journal of Luminescence*, **2022**, 250, 119061 3.8 0
- 24 Deep-blue Fluorophores Based on Phenanthroimidazole Integrated with Benzo[d]thiazole: Experimental and Theoretical Investigation. *ChemistrySelect*, **2022**, 7, 1.8
- 23 Solvato-, thermo- and photochromism in a new diazo diaromatic dye: 2-(p-tolyldiazenyl)naphthalen-1-amine. *Journal of Molecular Structure*, **2022**, 1267, 133595 3.4
- 22 Investigation on response of ophthalmic photochromic TRANSITIONS SIGNATURE□ VII lens to ultraviolet radiation. **2022**, 268, 169772
- 21 Photochemical behavior of diheteroarylethenes and photochromism. **2023**, 161-217 0
- 20 Intramolecular Coumarin-Dimer Containing Polyurethanes: Optical Tuning via Single- and Two-Photon Absorption Processes. 0
- 19 Phototunable Absorption and Nonlinear Optical Properties of Thermally Stable Dihydroazulene□Vinylheptafulvene Photochrome Pair. 0
- 18 The Matrix Effect on Nonlinear Optical Responses of Disperse Orange 25: Optical Bistability and Z-Scan. 0
- 17 Synthesis and photoswitching behavior of donor-acceptor type dithienylethene derivatives modified by diestervinyl moieties. **2022**, 207, 110781 0
- 16 Effect of 2-Methylthiazole Group on Photoinduced Birefringence of Thiazole-Azo Dye Host□Guest Systems at Different Wavelengths of Irradiation. **2022**, 27, 6655 0
- 15 Excellent ultrafast broadband optical limiting of functionalized twistacenes based on two-photon absorption-induced excited state absorption. **2022**, 208, 110842 0

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|----|--|---|
| 14 | Structural phase transformation and the light-switching photochromism-related emission modulation in Eu ³⁺ -doped strontium stannates. 2022 , 252, 119410 | 0 |
| 13 | Tris(4?-Nitrobiphenyl)amine-An Octupolar Chromophore with High Two-Photon Absorption Cross-Section and Its Application for Uncaging of Calcium Ions in the Near-Infrared Region. | 0 |
| 12 | Pyridyl-benzimidazole derivatives decorated with phenylazo substituents and their low-spin iron(ii) complexes: a study of the synthesis, structure and photoisomerization. | 2 |
| 11 | Application of the pyrazolone derivatives as effective modulators in the opto-electronic networks. 2023 , 437, 114482 | 0 |
| 10 | Reverse saturation absorption of CaWO ₄ and Ce ³⁺ substituted CaWO ₄ growth on rGO sheets an 2D/3D nanocomposite for smart filtering optical radiation. 2023 , 159, 108984 | 0 |
| 9 | Synergistic modulation of spin and fluorescence signals in a nano-Saturn assembled by a metallofullerene and cycloparaphenylene nanohoop. | 0 |
| 8 | Non-volatile optical memory based on cooperative orientation switching: improvement of recording speed and contrast by utilizing out-of-plane orientation mode. | 0 |
| 7 | Recent Developments in Metal-Containing Complexes with Azo Chromophore Functionalities. 2012 , 317-350 | 1 |
| 6 | Rare-Earth-Ion Doped Bi 1.5 ZnNb 1.5 O 7 Photochromics: A Fast Self-Recoverable Optical Storage Medium for Dynamic Anti-Counterfeiting with High Security. 2200734 | 0 |
| 5 | Diestervinyl-functionalized acceptor-acceptor type dithienylethenes with efficient photochromic performance. 2023 , 294, 122488 | 0 |
| 4 | Synthesis, characterization and emission switching behaviors of styrylphenyl-conjugated Ru(II)-terpyridine complexes via aggregation and trans/cis photoisomerization. 2023 , 440, 114662 | 0 |
| 3 | Rational design and progress of molybdenum-oxo clusters. | 0 |
| 2 | Photo-switchable optical properties polymers with enhanced reversibility. 2023 , | 0 |
| 1 | A review of the photochromic behavior of metal complexes embedded in conjugated (N=N=N) and non-conjugated azo-imine-based ligands. 2023 , | 0 |