

Seiya Kobatake

List of Publications by Year in Descending Order

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

203
papers

10,912
citations

49
h-index

99
g-index

221
ext. papers

11,790
ext. citations

5.9
avg, IF

6.43
L-index

#	Paper	IF	Citations
203	Spatial distribution of single guest molecules along thickness of thin films of poly(2-hydroxyethyl acrylate).. <i>Photochemical and Photobiological Sciences</i> , 2022 , 21, 175	4.2	1
202	Photochromic behavior of diarylbenzene nanoparticles prepared by top-down and bottom-up approaches. <i>Materials Advances</i> , 2022 , 3, 1280-1285	3.3	0
201	Correlating Reaction Dynamics and Size Change during the Photomechanical Transformation of 9-Methylanthracene Single Crystals. <i>Angewandte Chemie</i> , 2022 , 134, e202114089	3.6	
200	Correlating Reaction Dynamics and Size Change during the Photomechanical Transformation of 9-Methylanthracene Single Crystals. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	3
199	Light-Driven Rapid Peeling of Photochromic Diarylethene Single Crystals. <i>Crystal Growth and Design</i> , 2021 , 21, 3093-3099	3.5	10
198	Photochromism 2021 , 263-281		
197	Fast T-Type Photochromic Crystals of Diarylbenzene. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 4588-4594	3.4	3
196	Anisotropic bending and twisting behaviour of a twin crystal composed of a diarylethene. <i>CrystEngComm</i> , 2021 , 23, 5795-5800	3.3	1
195	Photoreversible Birefringence Change of Diarylethene Single Crystals as Revealed by Change in Molecular Polarizability Anisotropy. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 4732-4741	2.8	5
194	Nanosecond laser photothermal effect-triggered amplification of photochromic reactions in diarylethene nanoparticles. <i>Chemical Communications</i> , 2020 , 56, 7088-7091	5.8	7
193	Geometrical Evolution and Formation of the Photoproduct in the Cycloreversion Reaction of a Diarylethene Derivative Probed by Vibrational Spectroscopy. <i>ChemPhysChem</i> , 2020 , 21, 1524-1530	3.2	3
192	Mechanical Actuation and Patterning of Rewritable Crystalline Monomer-Polymer Heterostructures via Topochemical Polymerization in a Dual-Responsive Photochromic Organic Material. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16856-16863	9.5	14
191	Synthesis and multicolor emission properties of polystyrene with difluoroboron avobenzene complexes at side chains. <i>Dyes and Pigments</i> , 2020 , 177, 108283	4.6	4
190	A dominant factor of the cycloreversion reactivity of diarylethene derivatives as revealed by femtosecond time-resolved absorption spectroscopy. <i>Journal of Chemical Physics</i> , 2020 , 152, 034301	3.9	8
189	Improving photosensitivity without changing thermal reactivity in photochromic diarylbenzenes based on accurate prediction by DFT calculations. <i>Photochemical and Photobiological Sciences</i> , 2020 , 19, 644-653	4.2	4
188	Photoresponsive Molecular Crystals for Light-Driven Photoactuators 2020 , 427-447		
187	Solid-State Fluorescence Switching Using Photochromic Diarylethenes 2020 , 299-323		

186	Enhancement of coloring under ultraviolet irradiation in photochromic diarylbenzenes. <i>Tetrahedron Letters</i> , 2020 , 61, 151968	2	6
185	Synthesis and fluorescence on/off switching of hyperbranched polymers having diarylethene at the branching point. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 390, 112341	4.7	6
184	Photomechanical Behavior of Photochromic Diarylethene Crystals 2020 , 1-28		1
183	Symmetry Breaking and Photomechanical Behavior of Photochromic Organic Crystals. <i>Symmetry</i> , 2020 , 12, 1478	2.7	3
182	Geometrical Evolution and Formation of the Photoproduct in the Cycloreversion Reaction of a Diarylethene Derivative Probed by Vibrational Spectroscopy. <i>ChemPhysChem</i> , 2020 , 21, 1485	3.2	
181	Photoluminescence On/Off Switching of a Single Colloidal Quantum Dot Using Photochromic Diarylethene. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 17423-17429	3.8	10
180	Effects of Template and Molecular Nanostructure on the Performance of Organic/Inorganic Photomechanical Actuator Membranes. <i>Advanced Functional Materials</i> , 2020 , 30, 1902396	15.6	4
179	Photoluminescence ON/OFF Switching of CdSe/ZnS Core/Shell Quantum Dots Coated with Diarylethene Ligands. <i>Chemistry Letters</i> , 2019 , 48, 1394-1397	1.7	8
178	1,2-Diarylbenzene as fast T-type photochromic switch. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 2865-2870		28
177	Photoreversible Interference Color Modulation to Multicolor in Photochromic Molecular Crystals. <i>Bulletin of the Chemical Society of Japan</i> , 2019 , 92, 1299-1304	5.1	6
176	Photomechanical bending behavior of photochromic diarylethene crystals induced under polarized light. <i>CrystEngComm</i> , 2019 , 21, 2495-2501	3.3	14
175	Efficient "turn-off" fluorescence photoswitching in a highly fluorescent diarylethene single crystal. <i>Chemical Communications</i> , 2019 , 55, 5681-5684	5.8	12
174	Crystallization-induced emission of 1,2-bis(3-methyl-5-(4-alkylphenyl)-2-thienyl)perfluorocyclopentenes: A mechanical and thermal recording system. <i>Dyes and Pigments</i> , 2019 , 160, 450-456	4.6	3
173	Molecular design for a write-by-light/erase-by-heat recording system using photochromic diarylethenes with thermal cycloreversion. <i>Tetrahedron</i> , 2019 , 75, 130487	2.4	3
172	Plasmon Enhanced Optical Responses of Diarylethene Molecules Adsorbed on Gold Nanorods. <i>Chemistry Letters</i> , 2019 , 48, 537-540	1.7	5
171	Cyclization reaction dynamics of an inverse type diarylethene derivative as revealed by time-resolved absorption and fluorescence spectroscopies. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 8623-8632	3.6	8
170	Tuning of Optical Properties and Thermal Cycloreversion Reactivity of Photochromic Diarylbenzene by Introducing Electron-Donating Substituents. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 31212-31218	3.8	12
169	Hybrid Organic/Inorganic Photon-Powered Actuators Based on Aligned Diarylethene Nanocrystals. <i>Chemistry of Materials</i> , 2019 , 31, 1016-1022	9.6	37

168	Solid emission color tuning of polymers consisting of BODIPY and styrene in various ratios. <i>Dyes and Pigments</i> , 2019 , 161, 341-346	4.6	3
167	Fluorescence On/Off Switching in Nanoparticles Consisting of Two Types of Diarylethenes. <i>ACS Omega</i> , 2018 , 3, 2374-2382	3.9	6
166	Control of Photomechanical Crystal Twisting by Illumination Direction. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4208-4212	16.4	103
165	Photomechanical motion of diarylethene molecular crystal nanowires. <i>Nanoscale</i> , 2018 , 10, 3393-3398	7.7	21
164	Solid-State Fluorescence Behavior Induced by Photochemical Ring-Opening Reaction of 1,2-Bis(3-methyl-5-phenyl-2-thienyl)perfluorocyclopentene. <i>Bulletin of the Chemical Society of Japan</i> , 2018 , 91, 153-157	5.1	6
163	Polymorphs of a diarylethene that exhibits strong emission and direct visualization of polymorphic phase transition process by fluorescence color change. <i>Dyes and Pigments</i> , 2017 , 139, 233-238	4.6	6
162	Solvent effect of fluorescence on/off switching of diarylethene linked to excited-state intramolecular proton transfer fluorophore. <i>Research on Chemical Intermediates</i> , 2017 , 43, 5321-5336	2.8	3
161	Fluorescence On/Off Switching in Polymers Bearing Diarylethene and Fluorene in Their Side Chains. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 6272-6281	3.8	19
160	Thiophene-S,S-dioxidized diarylethenes for light-starting irreversible thermosensors that can detect a rise in heat at low temperature. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6210-6215	7.1	4
159	Wavelength-selective and high-contrast multicolour fluorescence photoswitching in a mixture of photochromic nanoparticles. <i>Chemical Communications</i> , 2017 , 53, 8268-8271	5.8	28
158	Synthesis and Optical Properties of Fluorescent Switchable Silica Nanoparticles Covered with Copolymers Consisting of Diarylethene and Fluorene Derivatives. <i>ChemistrySelect</i> , 2017 , 2, 5445-5452	1.8	6
157	Dependence of Photoinduced Bending Behavior of Diarylethene Crystals on Ultraviolet Irradiation Power. <i>Crystal Growth and Design</i> , 2017 , 17, 4819-4825	3.5	26
156	Mechanical Behavior of Molecular Crystals Induced by Combination of Photochromic Reaction and Reversible Single-Crystal-to-Single-Crystal Phase Transition. <i>Chemistry of Materials</i> , 2017 , 29, 7524-7532	9.6	58
155	Cycloreversion Reaction of a Diarylethene Derivative at Higher Excited States Attained by Two-Color, Two-Photon Femtosecond Pulsed Excitation. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17159-17167	16.4	22
154	Efficient Cycloreversion Reaction of a Diarylethene Derivative in Higher Excited States Attained by Off-Resonant Simultaneous Two-Photon Absorption. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3272-3276	6.4	24
153	Photochromic Bulk Materials 2016 , 281-360		2
152	Photochromic reaction behavior and thermal stability of thiophene-S,S-dioxidized diarylethenes having a benzofuryl group. <i>Tetrahedron</i> , 2016 , 72, 2364-2368	2.4	5
151	Solvent Polarity Dependence of Photochromic Reactions of a Diarylethene Derivative As Revealed by Steady-State and Transient Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 1170-1177	3.8	37

150	Strategy for Molecular Design of Photochromic Diarylethenes Having Thermal Functionality. <i>Chemical Record</i> , 2016 , 16, 2005-15	6.6	23
149	Photoinduced Rapid and Explosive Fragmentation of Diarylethene Crystals Having Urethane Bonding. <i>Chemistry of Materials</i> , 2016 , 28, 4889-4892	9.6	25
148	Photoinduced stepwise bending behavior of photochromic diarylethene crystals. <i>CrystEngComm</i> , 2016 , 18, 7236-7240	3.3	17
147	Optical properties and solvatofluorochromism of fluorene derivatives bearing S,S-dioxidized thiophene. <i>Photochemical and Photobiological Sciences</i> , 2016 , 15, 1254-1263	4.2	13
146	Polymorphic Crystallization and Thermodynamic Phase Transition between the Polymorphs of a Photochromic Diarylethene. <i>Crystal Growth and Design</i> , 2015 , 15, 2017-2023	3.5	8
145	Restricted diffusion of guest molecules in polymer thin films on solid substrates as revealed by three-dimensional single-molecule tracking. <i>Chemical Communications</i> , 2015 , 51, 13756-9	5.8	12
144	Dependence of photoinduced bending behavior of diarylethene crystals on irradiation wavelength of ultraviolet light. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 27300-5	3.6	33
143	Synthesis and optical properties of gold nanoparticle networks cross-linked with chain-length-controlled polymers. <i>RSC Advances</i> , 2015 , 5, 34704-34708	3.7	2
142	Photoinduced Mechanical Motion of Photochromic Crystalline Materials 2015 , 533-547		3
141	Synthesis and characterization of amphiphilic silica nanoparticles covered by block copolymers branching photochromic diarylethene moieties on side chain. <i>Dyes and Pigments</i> , 2015 , 114, 166-174	4.6	12
140	Quantitative Evaluation of Photoinduced Bending Speed of Diarylethene Crystals. <i>Crystals</i> , 2015 , 5, 551-561	5.6	28
139	Photoreversible current ON/OFF switching by the photoinduced bending of gold-coated diarylethene crystals. <i>Chemical Communications</i> , 2015 , 51, 4421-4	5.8	52
138	Crystal thickness dependence of the photoinduced crystal bending of 1-(5-methyl-2-(4-(p-vinylbenzoyloxymethyl)phenyl)-4-thiazolyl)-2-(5-methyl-2-phenyl-4-thiazolyl)perfluorocyclopentene. <i>Photochemical and Photobiological Sciences</i> , 2014 , 13, 764-9	4.2	19
137	Alkyl substituent effects in photochemical and thermal reactions of photochromic thiophene-S,S-dioxidized diarylethenes. <i>New Journal of Chemistry</i> , 2014 , 38, 933-941	3.6	20
136	Photochromism of diarylethene molecules and crystals: memories, switches, and actuators. <i>Chemical Reviews</i> , 2014 , 114, 12174-277	68.1	1643
135	Thermodynamic phase transition through crystal-to-crystal process of photochromic 1,2-bis(5-phenyl-2-propyl-3-thienyl)perfluorocyclopentene. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 289-93	4.5	5
134	Thermal bleaching reactions of photochromic diarylethenes with thiophene-S,S-dioxide for a light-starting irreversible thermosensor. <i>Chemical Communications</i> , 2013 , 49, 2362-4	5.8	25
133	Systematic study on the thermal cycloreversion reactivity of diarylethenes with alkoxy and alkyl groups at the reactive carbons. <i>Research on Chemical Intermediates</i> , 2013 , 39, 279-289	2.8	8

132	Photoinduced twisting of a photochromic diarylethene crystal. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9320-2	16.4	190
131	Thermo- and photoresponsive reversible changes in localized surface plasmon resonance of gold nanoparticles covered by poly(N-isopropylacrylamide) with photochromic diarylethene end group. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013 , 252, 37-45	4.7	12
130	Crystal Thickness Dependence of Photoinduced Crystal Bending of 1,2-Bis(2-methyl-5-(4-(1-naphthoyloxymethyl)phenyl)-3-thienyl)perfluorocyclopentene. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20887-20892	3.8	58
129	Photoinduced Twisting of a Photochromic Diarylethene Crystal. <i>Angewandte Chemie</i> , 2013 , 125, 9490-9492	3.2	45
128	Facile preparation of gold nanoparticle with diarylethene polymers by disodium malate and its photoreversible optical properties. <i>Dyes and Pigments</i> , 2012 , 92, 847-853	4.6	15
127	Plasmonic enhancement of gold nanoparticles on photocycloreversion reaction of diarylethene derivatives depending on particle size, distance from the particle surface, and irradiation wavelength. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 4898-905	3.6	29
126	Morphology, wettability and photomicro patterning of superhydrophobic surface with high adhesive force by crystal growth of a photochromic diarylethene. <i>Chemical Science</i> , 2012 , 3, 1445	9.4	27
125	Plasmonic enhancement of a photocycloreversion reaction of a diarylethene derivative using individually dispersed silver nanoparticles. <i>ChemPhysChem</i> , 2012 , 13, 3616-21	3.2	12
124	Femtosecond Laser Photolysis Studies on Temperature Dependence of Cyclization and Cycloreversion Reactions of a Photochromic Diarylethene Derivative. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 4862-4869	3.8	59
123	Photochromic polymers bearing various diarylethene chromophores as the pendant: synthesis, optical properties, and multicolor photochromism. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17249		66
122	Photochromism of a Diarylethene with Methoxymethyl Groups at Reactive Carbons: Thermal Irreversible Reaction of the Closed-ring Isomer. <i>Chemistry Letters</i> , 2011 , 40, 93-95	1.7	10
121	Correlation between Steric Substituent Constants and Thermal Cycloreversion Reactivity of Diarylethene Closed-Ring Isomers. <i>Bulletin of the Chemical Society of Japan</i> , 2011 , 84, 141-147	5.1	36
120	Control of surface wettability and photomicro patterning with a polymorphic diarylethene crystal upon photoirradiation. <i>Chemistry - A European Journal</i> , 2011 , 17, 9825-31	4.8	13
119	Enhanced One-Photon Cycloreversion Reaction of Diarylethenes near Individual Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 4564-4570	3.8	38
118	Cyclization Reaction Dynamics of a Photochromic Diarylethene Derivative as Revealed by Femtosecond to Microsecond Time-Resolved Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 4265-4272	3.8	69
117	High-Convertible Photochromism of a Diarylethene Single Crystal Accompanying the Crystal Shape Deformation. <i>Crystal Growth and Design</i> , 2011 , 11, 1223-1229	3.5	61
116	Enhanced photocycloreversion reaction of diarylethene polymers attached to gold nanoparticles in the solid state. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011 , 221, 256-260	4.7	17
115	Photoswitching of an alcohol-sensitive photochromic diarylethene. <i>Tetrahedron Letters</i> , 2011 , 52, 1905-1908		16

114	Crystal Phase Transition and Solid-State Photoisomerization of Benzyl (Z,Z)-Muconate Polymorphs Studied by Direct Observation of Crystal Structure Change. <i>Crystal Growth and Design</i> , 2010 , 10, 3203-3210	3.5	26
113	Multiphoton-gated cycloreversion reactions of photochromic diarylethene derivatives with low reaction yields upon one-photon visible excitation. <i>Photochemical and Photobiological Sciences</i> , 2010 , 9, 172-80	4.2	46
112	Photoinduced micropatterning by polymorphic crystallization of a photochromic diarylethene in a polymer film. <i>Chemical Communications</i> , 2010 , 46, 3723-5	5.8	28
111	Fabrication and Photochromism of High-density Diarylethene Monolayer Immobilized on a Quartz-glass Substrate. <i>Chemistry Letters</i> , 2010 , 39, 638-639	1.7	5
110	Solvent effect on photochromism of a dithienylperfluorocyclopentene having diethylamino group. <i>Tetrahedron</i> , 2009 , 65, 6104-6108	2.4	27
109	Light-Controllable Surface Plasmon Resonance Absorption of Gold Nanoparticles Covered with Photochromic Diarylethene Polymers. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 17359-17366	3.8	61
108	One- and multi-photon cycloreversion reaction dynamics of diarylethene derivative with asymmetrical structure, as revealed by ultrafast laser spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 2640-8	3.6	39
107	Ultrafast laser spectroscopic study on photochromic cycloreversion dynamics in fulgide derivatives: one-photon and multiphoton-gated reactions. <i>New Journal of Chemistry</i> , 2009 , 33, 1409	3.6	29
106	The irreversible thermo-bleaching function of a photochromic diarylethene having trimethylsilyl groups. <i>New Journal of Chemistry</i> , 2009 , 33, 1362	3.6	33
105	Photo-induced reversible topographical changes of photochromic dithienylethene microcrystalline surfaces. <i>New Journal of Chemistry</i> , 2009 , 33, 1324	3.6	17
104	Unusual Photochromic Behavior of C3-Methoxy-Substituted Bis(2-thienyl)perfluorocyclopentene. <i>Bulletin of the Chemical Society of Japan</i> , 2009 , 82, 1441-1446	5.1	8
103	Direct observation of change in the molecular structure of benzyl (Z,Z)-muconate during photoisomerization in the solid state. <i>Chemical Communications</i> , 2008 , 55-7	5.8	22
102	Absolute asymmetric photocyclization in chiral diarylethene co-crystals with octafluoronaphthalene. <i>Chemical Communications</i> , 2008 , 335-7	5.8	33
101	Dynamics of Cyclization, Cycloreversion, and Multiphoton-Gated Reaction of a Photochromic Diarylethene Derivative in Crystalline Phase. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 11150-11157	3.8	37
100	Photochromism and Optical Property of Gold Nanoparticles Covered with Low-Polydispersity Diarylethene Polymers. <i>Macromolecules</i> , 2008 , 41, 3995-4002	5.5	54
99	Reduction Reaction to Thiol Group of Dithiobenzoate End Group in Polystyrene Polymerized by Reversible Addition-Fragmentation Chain Transfer. <i>Chemistry Letters</i> , 2008 , 37, 630-631	1.7	22
98	Theoretical investigation on photochromic diarylethene: A short review. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008 , 200, 10-18	4.7	69
97	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. <i>Chemical Physics Letters</i> , 2008 , 454, 42-48	2.5	11

96	Synthesis of photochromic diarylethene polymers for a write-by-light/erase-by-heat recording system. <i>Tetrahedron</i> , 2008 , 64, 7611-7618	2.4	33
95	Laser Multiphoton-Gated Photochromic Reaction of a Fulgide Derivative. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 2730-2737	3.8	45
94	Picosecond laser photolysis study of cycloreversion reaction of a diarylethene derivative in polycrystals: Multiphoton-gated reaction. <i>Chemical Physics Letters</i> , 2007 , 437, 243-247	2.5	28
93	Multiphoton-gated photochromic reaction of diarylethene derivatives in PMMA solid film. <i>Journal of Physical Organic Chemistry</i> , 2007 , 20, 953-959	2.1	16
92	Single-crystalline photochromism of diarylethene dimers bridged by a spiro structure. <i>Journal of Physical Organic Chemistry</i> , 2007 , 20, 960-967	2.1	26
91	Quantum yields and potential energy surfaces: a theoretical study. <i>Journal of Physical Organic Chemistry</i> , 2007 , 20, 821-829	2.1	52
90	Rapid and reversible shape changes of molecular crystals on photoirradiation. <i>Nature</i> , 2007 , 446, 778-815	50.4	961
89	Photostimulated Crystal Lattice Change Induced by the Photochemical Ring-Opening Reaction of Diarylethene Molecules. <i>Bulletin of the Chemical Society of Japan</i> , 2007 , 80, 365-370	5.1	6
88	Acid-induced photochromic system switching of diarylethene derivatives between P- and T-types. <i>Chemical Communications</i> , 2007 , 1698-700	5.8	49
87	Reversible Shape Changes of Photochromic Molecular Crystals upon Photoirradiation. <i>Nihon Kessho Gakkaishi</i> , 2007 , 49, 238-243	0	1
86	Photochromism of a diarylethene charge-transfer complex: photochemical control of intermolecular charge-transfer interaction. <i>Chemical Communications</i> , 2006 , 2656-8	5.8	17
85	Diastereoselective cyclization of a dithienylethene switch through single crystal confinement. <i>Organic and Biomolecular Chemistry</i> , 2006 , 4, 1002-6	3.9	32
84	Photochromism of Diarylethene-functionalized Polystyrene with High Conversion in a Solid-state Polymer Film. <i>Chemistry Letters</i> , 2006 , 35, 628-629	1.7	23
83	Excited State Energy Migration and Photochromic Reaction in 1,2-Bis(2,4-dimethyl-3-thienyl)perfluorocyclopentene Single Crystal. <i>Chemistry Letters</i> , 2006 , 35, 102-103	1.7	3
82	Higher-order multiphoton imaging by femtosecond near-infrared laser microscope system. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006 , 183, 261-266	4.7	9
81	Control of Cycloreversion Quantum Yields of Diarylethenes by Introduction of Substituents at the Reactive Carbons. <i>Molecular Crystals and Liquid Crystals</i> , 2005 , 431, 451-454	0.5	16
80	Conformational control of photochromic reactivity in a diarylethene single crystal. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2148-51	16.4	36
79	Conformational Control of Photochromic Reactivity in a Diarylethene Single Crystal. <i>Angewandte Chemie</i> , 2005 , 117, 2186-2189	3.6	9

78	Crystal Engineering of Photochromic Diarylethene Derivatives by Aryl-perfluoroaryl Interaction. <i>Molecular Crystals and Liquid Crystals</i> , 2005 , 431, 529-534	0.5	4
77	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
76	Photochromic properties of diarylethene derivatives having chryso[b]thiophene rings. <i>Tetrahedron</i> , 2004 , 60, 9863-9869	2.4	41
75	Crystal engineering of photochromic diarylethene single crystals. <i>Chemical Record</i> , 2004 , 4, 23-38	6.6	82
74	Large geometrical structure changes of photochromic diarylethenes upon photoirradiation. <i>Tetrahedron Letters</i> , 2004 , 45, 1155-1158	2	44
73	Dynamics and mechanisms of the multiphoton gated photochromic reaction of diarylethene derivatives. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14764-72	16.4	100
72	Single-Crystalline Photochromism of a Diarylethene Dimer. <i>Bulletin of the Chemical Society of Japan</i> , 2004 , 77, 945-951	5.1	58
71	Single-Crystalline Photochromism of Diarylethenes. <i>Bulletin of the Chemical Society of Japan</i> , 2004 , 77, 195-210	5.1	211
70	Photochromism of Furylfulgide in a Single-crystalline Phase. <i>Chemistry Letters</i> , 2004 , 33, 904-905	1.7	13
69	Efficient Photocycloreversion Reaction of Diarylethenes by Introduction of Cyano Substituents to the Reactive Carbons. <i>Chemistry Letters</i> , 2003 , 32, 858-859	1.7	34
68	Extraordinarily High Thermal Stability of the Closed-ring Isomer of 1,2-Bis(5-methyl-2-phenylthiazol-4-yl)perfluorocyclopentene. <i>Chemistry Letters</i> , 2003 , 32, 892-893	1.7	59
67	Synthesis and Photochromism of Diarylethenes with Isopropyl Groups at the Reactive Carbons and Long π -Conjugated Heteroaryl Groups. <i>Chemistry Letters</i> , 2003 , 32, 1078-1079	1.7	47
66	Copolymerization of methyl α -(chloromethyl)acrylate with styrene accompanied by addition-fragmentation chain transfer. <i>Polymer Bulletin</i> , 2003 , 49, 305-312	2.4	4
65	Polymorphism of 1,2-Bis(2-methyl-5-p-methoxyphenyl-3-thienyl)perfluorocyclopentene and Photochromic Reactivity of the Single Crystals. <i>Chemistry - A European Journal</i> , 2003 , 9, 621-7	4.8	69
64	Picosecond and femtosecond laser photolysis studies of a photochromic diarylethene derivative: multiphoton gated reaction. <i>Chemical Physics Letters</i> , 2003 , 371, 40-48	2.5	51
63	Synthesis and photochromic reactivity of a diarylethene dimer linked by a phenyl group. <i>Tetrahedron</i> , 2003 , 59, 8359-8364	2.4	84
62	Theoretical study on novel quantum yields of dithienylethenes cyclization reactions in crystals. <i>Computational and Theoretical Chemistry</i> , 2003 , 625, 227-234		20
61	Multicolor photochromism of two- and three-component diarylethene crystals. <i>Journal of the American Chemical Society</i> , 2003 , 125, 11080-7	16.4	157

60	Aryl-Perfluoroaryl Interaction in Photochromic Diarylethene Crystals. <i>Crystal Growth and Design</i> , 2003 , 3, 847-854	3.5	25
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