

Hiroshi Miyasaka

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260
papers

7,205
citations

47
h-index

72
g-index

294
ext. papers

7,787
ext. citations

5.5
avg, IF

5.68
L-index

#	Paper	IF	Citations
260	Ultrafast Dynamics of Photochromic Systems. <i>Chemical Reviews</i> , 2000 , 100, 1875-1890	68.1	724
259	Single-molecule fluorescence photoswitching of a diarylethene-perylenebisimide dyad: non-destructive fluorescence readout. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4984-90	16.4	250
258	In situ preparation of highly fluorescent dyes upon photoirradiation. <i>Journal of the American Chemical Society</i> , 2011 , 133, 13558-64	16.4	183
257	Efficient photocyclization of dithienylethene dimer, trimer, and tetramer: quantum yield and reaction dynamics. <i>Journal of the American Chemical Society</i> , 2002 , 124, 2015-24	16.4	119
256	Picosecond laser photolysis studies on a photochromic dithienylethene in solution and in crystalline phases. <i>Chemical Physics Letters</i> , 1997 , 269, 281-285	2.5	113
255	An ab Initio MO Study of the Photochromic Reaction of Dithienylethenes. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 7222-7227	2.8	111
254	Hexa- peri-hexabenz[7]helicene: Homogeneously Extended Helicene as a Primary Substructure of Helically Twisted Chiral Graphenes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4317-4326	16.4	106
253	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
252	Picosecond laser photolysis studies on photochromic reactions of 1,2-bis(2,4,5-trimethyl-3-thienyl)maleic anhydride in solutions. <i>Chemical Physics Letters</i> , 1994 , 230, 249-254	2.5	92
251	Multiphoton gated photochromic reaction in a diarylethene derivative. <i>Journal of the American Chemical Society</i> , 2001 , 123, 753-4	16.4	89
250	Picosecond Absorption Spectra and Relaxation Processes of the Excited Singlet State of Pyrene in Solution. <i>Laser Chemistry</i> , 1983 , 1, 357-386		89
249	One-color reversible control of photochromic reactions in a diarylethene derivative: three-photon cyclization and two-photon cycloreversion by a near-infrared femtosecond laser pulse at 1.28 μm . <i>Journal of the American Chemical Society</i> , 2011 , 133, 2621-5	16.4	84
248	Application of fluorescence correlation spectroscopy to the measurement of local temperature in solutions under optical trapping condition. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 2365-71	3.4	83
247	Modified windmill porphyrin arrays: coupled light-harvesting and charge separation, conformational relaxation in the S1 state, and S2-S2 energy transfer. <i>Chemistry - A European Journal</i> , 2001 , 7, 3134-51	4.8	81
246	Ultrafast photoinduced electron transfer in directly linked porphyrin-ferrocene dyads. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 5136-43	2.8	77
245	Permanent fixing or reversible trapping and release of DNA micropatterns on a gold nanostructure using continuous-wave or femtosecond-pulsed near-infrared laser light. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6643-8	16.4	75
244	Excitation-energy migration in self-assembled cyclic zinc(II)-porphyrin arrays: a close mimicry of a natural light-harvesting system. <i>Chemistry - A European Journal</i> , 2005 , 11, 3753-61	4.8	75

243	Ultrafast photodissociation dynamics of a hexaarylbiimidazole derivative with pyrenyl groups: dispersive reaction from femtosecond to 10 ns time regions. <i>Journal of the American Chemical Society</i> , 2009 , 131, 7256-63	16.4	71
242	Femtosecond-Picosecond Laser Photolysis Studies on Photoreduction Process of Excited Benzophenone with N,N-Dimethylaniline in Acetonitrile Solution. <i>Bulletin of the Chemical Society of Japan</i> , 1990 , 63, 3385-3397	5.1	71
241	Picosecond dynamics of photoinduced electron transfer processes in poly(N-vinylcarbazole) solid film doped with electron acceptors as revealed by transient absorption spectroscopy and dichroism measurements. <i>Chemical Physics Letters</i> , 1994 , 225, 315-321	2.5	70
240	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
239	Photochemistry of fac-[Re(bpy)(CO)3Cl]. <i>Chemistry - A European Journal</i> , 2012 , 18, 15722-34	4.8	68
238	Tuned CAM-B3LYP functional in the time-dependent density functional theory scheme for excitation energies and properties of diarylethene derivatives. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012 , 235, 29-34	4.7	65
237	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
236	Picosecond laser photolysis studies of deactivation processes of excited hydrogen bonding complexes. 3. Detection of the nonfluorescent charge-transfer state in the excited 1-aminopyrene-pyridine hydrogen bonded pair and related systems. <i>Journal of the American Chemical Society</i> , 2002 , 124, 5201-5211	16.4	59
235	Mechanisms of the strongly exothermic charge separation reaction in the excited singlet state. Picosecond laser photolysis studies on aromatic hydrocarbon-tetracyanoethylene and aromatic hydrocarbon-pyromellitic dianhydride systems in polar solutions. <i>Chemical Physics</i> , 1988 , 127, 239-248	2.3	58
234	Stationary bubble formation and Marangoni convection induced by CW laser heating of a single gold nanoparticle. <i>Nanoscale</i> , 2017 , 9, 719-730	7.7	56
233	Femtosecond-picosecond laser photolysis studies on the dynamics of excited charge-transfer complexes in solution. 1. Charge separation processes in the course of the relaxation from the excited Franck-Condon state of 1,2,4,5-tetracyanobenzene in benzene and methyl-substituted benzene solutions. <i>The Journal of Physical Chemistry</i> , 1990 , 94, 4147-4152		56
232	Fluorescence Photoswitching of a Diarylethene by Irradiation with Single-Wavelength Visible Light. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16498-16501	16.4	55
231	Solvent Viscosity Effects on Photochromic Reactions of a Diarylethene Derivative As Revealed by Picosecond Laser Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 8096-8102	2.8	55
230	Ultrafast Excited State Deactivation of Triphenylmethane Dyes. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 2024-2035	2.8	55
229	Femtosecond-picosecond laser photolysis studies on the mechanisms of electron transfer induced by hydrogen-bonding interactions in nonpolar solutions: 1-aminopyrene-pyridine systems. <i>Journal of the American Chemical Society</i> , 1993 , 115, 7335-7342	16.4	55
228	Role of the special pair in the charge-separating event in photosynthesis. <i>Chemistry - A European Journal</i> , 2004 , 10, 6393-401	4.8	54
227	Femtosecond-picosecond laser photolysis studies on the dynamics of excited charge-transfer complexes in solution. 3. Dissociation into free ions and charge recombination decay from the ion-pair state formed by charge separation in the excited state of		54
226	1,2,4,5-tetracyanobenzene-aromatic hydrocarbon complexes in polar solvents. <i>The Journal of Physical Chemistry A</i> , 1990 , 94, 4147-4152 Picosecond Laser Photolysis Studies on the Photoreduction of Excited Benzophenone by Diphenylamine in Solutions. <i>Bulletin of the Chemical Society of Japan</i> , 1990 , 63, 131-137	5.1	54

225	Picosecond-to-nanosecond dynamics of plasmonic nanobubbles from pump-probe spectral measurements of aqueous colloidal gold nanoparticles. <i>Langmuir</i> , 2014 , 30, 9504-13	4	52
224	Femtosecond-picosecond laser photolysis studies of the ion pair formation process in the excited state of the charge-transfer complex in solution. <i>The Journal of Physical Chemistry</i> , 1989 , 93, 3380-3382		52
223	One-colour control of activation, excitation and deactivation of a fluorescent diarylethene derivative in super-resolution microscopy. <i>Chemical Communications</i> , 2017 , 53, 4066-4069	5.8	51
222	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
221	Picosecond-nanosecond laser photolysis studies on the photochemical reaction of excited benzophenone with 1,4-diazabicyclo[2.2.2]octane in acetonitrile solution: proton abstraction of the free benzophenone anion radical from the ground state amine. <i>Chemical Physics Letters</i> , 1991 , 178, 504-510	2.5	51
220	Femtosecond laser photolysis studies on the cooling process of chrysene in the vibrationally hot S1 state in solution. <i>Chemical Physics Letters</i> , 1992 , 188, 259-264	2.5	51
219	Photoinduced electron transfer and excitation energy transfer in directly linked zinc porphyrin/zinc phthalocyanine composite. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 12734-42	2.8	50
218	Femtosecond-picosecond laser photolysis studies on the mechanisms of fluorescence quenching induced by hydrogen-bonding interactions - 1-pyrenol-pyridine systems. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 8222-8228		50
217	Picosecond laser photolysis studies on the photochromism of a furylfulgide. <i>Chemical Physics Letters</i> , 1990 , 171, 553-557	2.5	50
216	????????????????Nd ³⁺ YAG?????????????????. <i>Journal of the Spectroscopical Society of Japan</i> , 1982 , 31, 19-30		50
215	Flapping viscosity probe that shows polarity-independent ratiometric fluorescence. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5248-5256	7.1	47
214	Constraint-induced structural deformation of planarized triphenylboranes in the excited state. <i>Chemical Science</i> , 2014 , 5, 1296-1304	9.4	46
213	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
212	Fluorescence photoswitching of a diarylethene-perylenebisimide dyad based on intramolecular electron transfer. <i>Photochemical and Photobiological Sciences</i> , 2010 , 9, 181-7	4.2	45
211	Laser Multiphoton-Gated Photochromic Reaction of a Fulgide Derivative. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 2730-2737	3.8	45
210	Systematic synthesis, isolation, and photophysical properties of linear-shaped Re(I) oligomers and polymers with 2-20 units. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14659-74	16.4	45
209	Ultrafast charge transfer process of 9,9'-bianthryl in imidazolium ionic liquids. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 15758-65	3.4	43
208	Metallic-Nanostructure-Enhanced Optical Trapping of Flexible Polymer Chains in Aqueous Solution As Revealed by Confocal Fluorescence Microspectroscopy. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 14610-14618	3.8	42

207	Photoinduced Electron Transfer Processes of C60-Doped Poly(N-vinylcarbazole) Films As Revealed by Picosecond Laser Photolysis. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 5118-5123	3.4	42
206	Synthesis of directly linked zinc(II) porphyrin-imide dyads and energy gap dependence of intramolecular electron transfer reactions. <i>Chemistry - A European Journal</i> , 2003 , 9, 2854-66	4.8	42
205	Femtosecond-picosecond laser photolysis studies on the dynamics of excited charge-transfer complexes in solution. 2. Ion pair formation processes in the excited states of 1,2,4,5-tetracyanobenzene-aromatic hydrocarbon complexes in polar solvents. <i>The Journal of Physical Chemistry</i> , 1990 , 94, 5834-5839		42
204	Extension of Light-Harvesting Ability of Photosynthetic Light-Harvesting Complex 2 (LH2) through Ultrafast Energy Transfer from Covalently Attached Artificial Chromophores. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13121-9	16.4	41
203	Photoswitchable fluorescent diarylethene derivatives with short alkyl chain substituents. <i>Photochemical and Photobiological Sciences</i> , 2012 , 11, 1661-5	4.2	41
202	Electron Transfer and Exciplex Chemistry. <i>Advances in Chemical Physics</i> , 2007 , 431-496		41
201	Femtosecond-Picosecond Laser Photolysis Studies on Reduction Process of Excited Benzophenone with Tertiary Aromatic Amines in Acetonitrile Solution. <i>Bulletin of the Chemical Society of Japan</i> , 1991 , 64, 3229-3244	5.1	41
200	Fluorescent Photochromic Diarylethene That Turns on with Visible Light. <i>Organic Letters</i> , 2015 , 17, 4802-5	2.5	40
199	Selective optical assembly of highly uniform nanoparticles by doughnut-shaped beams. <i>Scientific Reports</i> , 2013 , 3, 3047	4.9	40
198	Nondestructive micropatterning of living animal cells using focused femtosecond laser-induced impulsive force. <i>Applied Physics Letters</i> , 2007 , 91, 023904	3.4	40
197	The effect of hydrogen-bonding on the ultrafast electronic deactivation dynamics of indigo carmine. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 5370	3.6	40
196	Picosecond ultraviolet multiphoton laser photolysis and transient absorption spectroscopy of liquid benzenes. <i>The Journal of Physical Chemistry</i> , 1985 , 89, 1631-1636		40
195	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
194	Direct Detection of Hole Migration along the Polymer Chain: Poly(N-vinylcarbazole) in 1,2-Dichloroethane Solution As Revealed by Picosecond Transient Absorption and Dichroism Measurements. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 12609-12615		39
193	Charge transfer in dibenzocarbazole-pyridine hydrogen-bonded complexes: the role of the geometry of the complex. <i>The Journal of Physical Chemistry</i> , 1985 , 89, 182-185		39
192	Stepwise Two-Photon-Induced Fast Photoswitching via Electron Transfer in Higher Excited States of Photochromic Imidazole Dimer. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5930-8	16.4	39
191	Mechanistic studies of photoinduced intramolecular and intermolecular electron transfer processes in RuPt-centred photo-hydrogen-evolving molecular devices. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 1607-16	3.6	38
190	Carboxylate Ligand-Induced Intramolecular C-H Bond Activation of Iridium Complexes with N-Phenylperimidine-Based Carbene Ligands. <i>Organometallics</i> , 2010 , 29, 4120-4129	3.8	38

189	Photoinduced electron transfer in tris(2,2'-bipyridine)ruthenium(II)-viologen dyads with peptide backbones leading to long-lived charge separation and hydrogen evolution. <i>Dalton Transactions</i> , 2010 , 39, 4421-34	4.3	38
188	Intramolecular Energy Transfer in S1- and S2-States of Porphyrin Trimers. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 4822-4833	2.8	38
187	Femtosecond-picosecond laser photolysis studies on reduction process of excited benzophenone with N-methyldiphenylamine in acetonitrile solution. <i>The Journal of Physical Chemistry</i> , 1992 , 96, 8060-8065		38
186	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
185	Ultrafast solvation dynamics in room temperature ionic liquids observed by three-pulse photon echo peak shift measurements. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 3886-94	2.8	37
184	Norharmaline: old yet highly selective dual channel ratiometric fluoride and hydrogen sulfate ion sensor. <i>Analyst</i> , 2011 , 136, 275-7	5	37
183	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
182	Ultrafast laser photolysis study on photodissociation dynamics of a hexaarylbiimidazole derivative. <i>Chemical Physics Letters</i> , 2007 , 448, 228-231	2.5	36
181	Ultrafast solvation dynamics and charge transfer reactions in room temperature ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 13008-26	3.6	35
180	Light harvesting and energy transfer in multiporphyrin-modified CdSe nanoparticles. <i>ChemSusChem</i> , 2008 , 1, 254-61	8.3	35
179	Confinement of photopolymerization and solidification with radiation pressure. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14472-5	16.4	31
178	Dynamic Stokes Shift of 9,9'-Bianthryl in Ionic Liquids: A Temperature Dependence Study. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 11868-11876	3.8	30
177	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
176	Solvent relaxation effect on transient hole-burning spectra of organic dyes. <i>Chemical Physics Letters</i> , 1990 , 166, 123-127	2.5	29
175	Solid-State, Near-Infrared to Visible Photon Upconversion via Triplet-Triplet Annihilation of a Binary System Fabricated by Solution Casting. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20812-20819	9.5	28
174	Microscopic Structure and Mobility of Guest Molecules in Mesoporous Hybrid Organosilica: Evaluation with Single-Molecule Tracking. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 11884-11891	3.8	28
173	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
172	Nanosecond to submillisecond dynamics in dye-labeled single-stranded DNA, as revealed by ensemble measurements and photon statistics at single-molecule level. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 13917-25	3.4	27

171	Picosecond laser photolysis studies on a photochromic oxidation polymer film consisting of diarylethene molecules. <i>Journal of Materials Chemistry</i> , 2005 , 15, 2128		26
170	Temporal characteristics of picosecond continuum as revealed by a two-dimensional analysis of streak images. <i>Optics Communications</i> , 1983 , 44, 426-429	2	26
169	Temperature Effects on the Energy Gap Dependence of Charge Recombination Rates of Ion Pairs Produced by Excitation of Charge-Transfer Complexes Adsorbed on Porous Glass. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 7978-7984	3.4	25
168	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
167	The microscopic viscosity of water/alcohol binary solvents studied by ultrafast spectroscopy utilizing diffusive phenyl ring rotation of malachite green as a probe. <i>Journal of Molecular Structure</i> , 2005 , 735-736, 217-223	3.4	24
166	Picosecond two-photon photolysis of neat liquids. <i>Chemical Physics Letters</i> , 1981 , 82, 59-62	2.5	23
165	Turn-on mode fluorescent diarylethenes: Control of the cycloreversion quantum yield. <i>Tetrahedron</i> , 2017 , 73, 4918-4924	2.4	22
164	A turn-on mode fluorescent diarylethene: Solvatochromism of fluorescence. <i>Dyes and Pigments</i> , 2018 , 153, 144-149	4.6	22
163	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
162	Photoisomerization of an azobenzene gel by pulsed laser irradiation. <i>Chemical Communications</i> , 2009 , 4420-2	5.8	22
161	Energy Gap Dependence of Charge Recombination Rates of Ion Pairs Produced by Excitation of Charge-Transfer Complexes Adsorbed on the Porous Glass. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 5757-5760		21
160	Coherent dynamics and ultrafast excited state relaxation of blue copper protein; plastocyanin. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 6067-75	3.6	20
159	Selective meso-monobromination of 5,15-diarylporphyrins via organopalladium porphyrins. <i>Journal of Porphyrins and Phthalocyanines</i> , 2004 , 08, 1222-1227	1.8	20
158	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
157	Solvent Effect of the Hole Migration along a Poly(N-vinylcarbazole) Chain as Revealed by Picosecond Transient Absorption and Dichroism Measurements. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 2192-2199	2.8	19
156	Picosecond Laser Photolysis Studies on Chain-Length, Solvent and Temperature Dependences of the Intramolecular Photoreduction Process of Benzophenone by Diphenylamine. <i>Bulletin of the Chemical Society of Japan</i> , 1995 , 68, 1569-1582	5.1	19
155	Turn-on mode fluorescence photoswitching of diarylethene single crystals. <i>CrystEngComm</i> , 2016 , 18, 7241-7248	3.3	19
154	Multivariate curve resolution alternating least squares to cope with deviations from data bilinearity in ultrafast time-resolved spectroscopy. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2013 , 128, 101-110	3.8	18

153	Temperature near Gold Nanoparticles under Photoexcitation: Evaluation Using a Fluorescence Correlation Technique. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 8388-8396	3.8	18
152	Photoinduced electron transfer dynamics in aromatic vinyl polymers and related systems: time-resolved detection of primary events. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2003 , 4, 195-214	16.4	18
151	Real-Time Blinking Suppression of Perovskite Quantum Dots by Halide Vacancy Filling. <i>ACS Nano</i> , 2021 , 15, 2831-2838	16.7	18
150	Direct Observation of the Ultrafast Evolution of Open-Shell Biradical in Photochromic Radical Dimer. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6382-6389	16.4	17
149	Object Transportation System Mimicking the Cilia of Paramecium aurelia Making Use of the Light-Controllable Crystal Bending Behavior of a Photochromic Diarylethene. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 13308-13312	16.4	17
148	Femto- to Microsecond Excited State Relaxation of 9-(4-(N,N-Dimethylamino)phenyl)phenanthrene and 4-(9-Phenanthryl)-3,5-N,N-tetramethylaniline. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 5054-5062	2.8	17
147	Picosecond 266-nm Multiphoton Laser Photolysis Studies on the Solvated Electron Formation Process in Water and Liquid Alcohols. <i>Laser Chemistry</i> , 1987 , 7, 119-128		17
146	Plasmonic Control and Stabilization of Asymmetric Light Scattering from Ag Nanocubes on TiO. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 11064-11072	9.5	16
145	Organic solvent-free water-developable sugar resist material derived from biomass in green lithography. <i>Microelectronic Engineering</i> , 2014 , 122, 70-76	2.5	16
144	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
143	Development of near-infrared 35 fs laser microscope and its application to the detection of three- and four-photon fluorescence of organic microcrystals. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 1091-1094	2.4	16
142	Laser Ablation of Silk Protein (Fibroin) Films. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 4772-4779	1.4	16
141	Femtosecond-Picosecond Laser Photolysis Studies on Proton Transfer Process of Excited 1-Pyrenol-Triethylamine Hydrogen Bonding Complex in Solutions. <i>Israel Journal of Chemistry</i> , 1993 , 33, 183-192	3.4	16
140	Multiphoton-gated cycloreversion reaction of a photochromic 1,2-bis(thiazolyl)perfluorocyclopentene diarylethene derivative. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012 , 234, 57-65	4.7	15
139	Picosecond 266 nm photolysis of neat liquids: Solvated electron formation in water and alcohols. <i>Chemical Physics Letters</i> , 1983 , 98, 277-281	2.5	15
138	Laser-driven phase transitions in aqueous colloidal gold nanoparticles under high pressure: picosecond pump-probe study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 4994-5004	3.6	14
137	Inhomogeneous Deactivation with UV Excitation in Submicron Grains of Lead Iodide Perovskite-based Solar Cell as Revealed by Femtosecond Transient Absorption Microscopy. <i>Chemistry Letters</i> , 2014 , 43, 1656-1658	1.7	14
136	Picosecond-Microsecond Dynamics of Photoinduced Electron-Transfer Processes in Amorphous Solid Films of Dimeric Carbazolyl Compounds Doped with 1,2,4,5-Tetracyanobenzene. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 524-530	3.4	14

- 135 Enhancement and suppression of vibrational coherence in degenerate four-wave-mixing signal generated from dye-doped polymer films. *Journal of Physical Chemistry B*, **2005**, 109, 11946-52 3.4 14
- 134 Picosecond Dynamics of Excited 9,9-Bianthryl Adsorbed on Porous Glass: Role of Symmetry Breaking in the Ground State *Journal of Physical Chemistry A*, **2002**, 106, 2067-2073 2.8 14
- 133 Picosecond laser photolysis studies on the electron transfer and charge shift processes in flavin mononucleotide-cytochrome c-EDTA molecular organization. *Chemical Physics Letters*, **1991**, 182, 379-383 2.5 14
- 132 Vacuum-deposited films of liquid crystal molecules of cyanooctyloxybiphenyl Electronic spectra of the films and structural transformation of the deposited films as revealed by insitu fluorescence measurements. *Thin Solid Films*, **1997**, 292, 204-212 2.2 13
- 131 Formation of extremely long-lived charge-separated state following photoinduced electron transfer in poly(N-vinylcarbazole) coadsorbed with 1,2,4,5-tetracyanobenzene on a macroreticular resin. *The Journal of Physical Chemistry*, **1995**, 99, 13062-13064 13
- 130 Picosecond 266 nm multiphoton laser photolysis of liquid alkyl chlorides: Production of ionic species. *Chemical Physics Letters*, **1985**, 118, 459-463 2.5 13
- 129 Optical properties and solvatofluorochromism of fluorene derivatives bearing S,S-dioxidized thiophene. *Photochemical and Photobiological Sciences*, **2016**, 15, 1254-1263 4.2 13
- 128 Restricted diffusion of guest molecules in polymer thin films on solid substrates as revealed by three-dimensional single-molecule tracking. *Chemical Communications*, **2015**, 51, 13756-9 5.8 12
- 127 Mesoscopic Motion of Optically Trapped Particle Synchronized with Photochromic Reactions of Diarylethene Derivatives. *Journal of Physical Chemistry Letters*, **2018**, 9, 2659-2664 6.4 12
- 126 Opto-thermophoretic separation and trapping of plasmonic nanoparticles. *Nanoscale*, **2019**, 11, 21093-21102 2.1 12
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