Ryuzi Katoh

List of Publications by Year
in descending order

179	10,943	44069 48	31849 101
papers	citations	h-index	g-index

181	181	181	11498
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular Design of Coumarin Dyes for Efficient Dye-Sensitized Solar Cells. Journal of Physical Chemistry B, 2003, 107, 597-606.	2.6	1,015
2	Ultrafast Plasmon-Induced Electron Transfer from Gold Nanodots into TiO₂ Nanoparticles. Journal of the American Chemical Society, 2007, 129, 14852-14853.	13.7	878
3	Oligothiophene-Containing Coumarin Dyes for Efficient Dye-Sensitized Solar Cells. Journal of Physical Chemistry B, 2005, 109, 15476-15482.	2.6	562
4	Efficiencies of Electron Injection from Excited N3 Dye into Nanocrystalline Semiconductor (ZrO2,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.6	528
5	Identification of Reactive Species in Photoexcited Nanocrystalline TiO2Films by Wide-Wavelength-Range (400âˆ'2500 nm) Transient Absorption Spectroscopy. Journal of Physical Chemistry B, 2004, 108, 3817-3823.	2.6	454
6	Direct Observation of Reactive Trapped Holes in TiO2Undergoing Photocatalytic Oxidation of Adsorbed Alcohols:Â Evaluation of the Reaction Rates and Yields. Journal of the American Chemical Society, 2006, 128, 416-417.	13.7	312
7	Recent advances in instrumentation for absolute emission quantum yield measurements. Coordination Chemistry Reviews, 2010, 254, 2449-2458.	18.8	297
8	Dynamics of efficient electronâ€"hole separation in TiO2nanoparticles revealed by femtosecond transient absorption spectroscopy under the weak-excitation condition. Physical Chemistry Chemical Physics, 2007, 9, 1453-1460.	2.8	263
9	Plasmon-Induced Charge Separation and Recombination Dynamics in Goldâˆ'TiO₂ Nanoparticle Systems: Dependence on TiO₂ Particle Size. Journal of Physical Chemistry C, 2009, 113, 6454-6462.	3.1	238
10	Fluorescence Quantum Yield of Aromatic Hydrocarbon Crystals. Journal of Physical Chemistry C, 2009, 113, 2961-2965.	3.1	220
11	Analysis of the excited states of regioregular polythiophene P3HT. Energy and Environmental Science, 2008, 1, 294.	30.8	219
12	Dye Sensitization of Nanocrystalline Titanium Dioxide with Square Planar Platinum(II) Diimine Dithiolate Complexes. Inorganic Chemistry, 2001, 40, 5371-5380.	4.0	215
13	Electron Injection Efficiency from Excited N3 into Nanocrystalline ZnO Films:â€‰ Effect of (N3âˆ'Zn2+) Aggregate Formation. Journal of Physical Chemistry B, 2003, 107, 2570-2574.	2.6	212
14	Femtosecond Visible-to-IR Spectroscopy of TiO₂ Nanocrystalline Films: Elucidation of the Electron Mobility before Deep Trapping. Journal of Physical Chemistry C, 2009, 113, 11741-11746.	3.1	184
15	Znâˆ'Zn Porphyrin Dimer-Sensitized Solar Cells: Toward 3-D Light Harvesting. Journal of the American Chemical Society, 2009, 131, 15621-15623.	13.7	177
16	Kinetics and mechanism of electron injection and charge recombination in dye-sensitized nanocrystalline semiconductors. Coordination Chemistry Reviews, 2004, 248, 1195-1213.	18.8	171
17	Origin of the stabilization energy of perylene excimer as studied by fluorescence and near-IR transient absorption spectroscopy. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 145, 23-34.	3.9	141
18	Electron injection efficiency in dye-sensitized solar cells. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2014, 20, 1-16.	11.6	128

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19	Efficiencies of Electron Injection from Excited Sensitizer Dyes to Nanocrystalline ZnO Films as Studied by Near-IR Optical Absorption of Injected Electrons. Journal of Physical Chemistry B, 2002, 106, 12957-12964.	2.6	127
20	Ultrafast Direct and Indirect Electron-Injection Processes in a Photoexcited Dye-Sensitized Nanocrystalline Zinc Oxide Film:Â The Importance of Exciplex Intermediates at the Surface. Journal of Physical Chemistry B, 2004, 108, 12583-12592.	2.6	121
21	Ultrafast plasmon induced electron injection mechanism in goldâ€“TiO2 nanoparticle system. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2013, 15, 21-30.	11.6	114
22	Lithium Ion Effect on Electron Injection from a Photoexcited Coumarin Derivative into a TiO2 Nanocrystalline Film Investigated by Visible-to-IR Ultrafast Spectroscopy. Journal of Physical Chemistry B, 2005, 109, 16406-16414.	2.6	109
23	Panchromatic Sensitization of Nanocrystalline TiO2withcis-Bis(4-carboxy-2-[2â€˜-(4â€˜-carboxypyridyl)]quinoline)bis(thiocyanato-N)ruthenium(II). Inorganic Chemistry, 2003, 42, 7921-7931.	4.0	105
24	Highly stable sensitizer dyes for dye-sensitized solar cells: role of the oligothiophene moiety. Energy and Environmental Science, 2009, 2, 542.	30.8	103
25	Charge Separation and Trapping in N-Doped TiO₂ Photocatalysts: A Time-Resolved Microwave Conductivity Study. Journal of Physical Chemistry Letters, 2010, 1, 3261-3265.	4.6	103
26	Organic Dyes Containing Thieno[3,2-<i>b</i>]indole Donor for Efficient Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 18283-18290.	3.1	100
27	Ultrafast Stepwise Electron Injection from Photoexcited Ru-Complex into Nanocrystalline ZnO Film via Intermediates at the Surface. Journal of Physical Chemistry B, 2003, 107, 4162-4166.	2.6	99
28	Effects of 4-<i>tert</i>-Butylpyridine and Li Ions on Photoinduced Electron Injection Efficiency in Black-Dye-Sensitized Nanocrystalline TiO₂ Films. Journal of Physical Chemistry C, 2009, 113, 20738-20744.	3.1	99
29	Effect of the Particle Size on the Electron Injection Efficiency in Dye-Sensitized Nanocrystalline TiO2Films Studied by Time-Resolved Microwave Conductivity (TRMC) Measurements. Journal of Physical Chemistry C, 2007, 111, 10741-10746.	3.1	87
30	Singlet Annihilation in Films of Regioregular Poly(3-hexylthiophene): Estimates for Singlet Diffusion Lengths and the Correlation between Singlet Annihilation Rates and Spectral Relaxation. Journal of Physical Chemistry C, 2010, 114, 10962-10968.	3.1	87
31	Efficient panchromatic sensitization of nanocrystalline TiO2films by Î²-diketonato ruthenium polypyridyl complexes. New Journal of Chemistry, 2002, 26, 966-968.	2.8	86
32	Effect of the Ligand Structure on the Efficiency of Electron Injection from Excited Ruâ^'Phenanthroline Complexes to Nanocrystalline TiO2Films. Journal of Physical Chemistry B, 2002, 106, 374-379.	2.6	83
33	Influence of TiCl4 treatment on back contact dye-sensitized solar cells sensitized with black dye. Energy and Environmental Science, 2009, 2, 1205.	30.8	83
34	Electronâ€“hole recombination in the bulk of a rutile TiO2 single crystal studied by sub-nanosecond transient absorption spectroscopy. Chemical Physics Letters, 2008, 461, 238-241.	2.6	77
35	Trapping dynamics of electrons and holes in a nanocrystalline TiO2 film revealed by femtosecond visible/near-infrared transient absorption spectroscopy. Comptes Rendus Chimie, 2006, 9, 268-274.	0.5	76
36	Estimate of singlet diffusion lengths in PCBM films by time-resolved emission studies. Chemical Physics Letters, 2009, 478, 33-36.	2.6	76

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37	Photoinduced electron injection in black dye sensitized nanocrystalline TiO2 films. Journal of Materials Chemistry, 2007, 17, 3190.	6.7	75
38	New platinum(II) polypyridyl photosensitizers for TiO2 solar cells. New Journal of Chemistry, 2000, 24, 343-345.	2.8	72
39	Probing with randomly interleaved pulse train bridges the gap between ultrafast pump-probe and nanosecond flash photolysis. Optics Letters, 2016, 41, 1498.	3.3	66
40	Ion Pair Formation in [bmim]I Ionic Liquids. Journal of Physical Chemistry B, 2008, 112, 15426-15430.	2.6	63
41	Sensitization of nanocrystalline TiO2 film by ruthenium(II) diimine dithiolate complexes. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 145, 135-141.	3.9	59
42	Ultrafast interfacial charge separation processes from the singlet and triplet MLCT states of Ru(bpy)2(dcbpy) adsorbed on nanocrystalline SnO2 under negative applied bias. Journal of Chemical Physics, 2000, 113, 3366-3373.	3.0	58
43	Effect of Aggregation on the Excited-State Electronic Structure of Perylene Studied by Transient Absorption Spectroscopy. Journal of Physical Chemistry A, 2006, 110, 6465-6471.	2.5	56
44	Near-IR Absorption Spectrum of Aromatic Excimers. Journal of Physical Chemistry A, 1997, 101, 7725-7728.	2.5	55
45	Highly efficient polypyridyl-ruthenium(II) photosensitizers with chelating oxygen donor ligands: Î²-diketonato-bis(dicarboxybipyridine)ruthenium. Inorganica Chimica Acta, 2000, 310, 169-174.	2.4	55
46	Electron Photodetachment from Iodide in Ionic Liquids through Charge-Transfer-to-Solvent Band Excitationâ€. Journal of Physical Chemistry B, 2007, 111, 4770-4774.	2.6	53
47	Coexistence of Femtosecond- and Nonelectron-Injecting Dyes in Dye-Sensitized Solar Cells: Inhomogeniety Limits the Efficiency. Journal of Physical Chemistry C, 2011, 115, 22084-22088.	3.1	53
48	Effect of pH on absorption spectra of photogenerated holes in nanocrystalline TiO2 films. Chemical Physics Letters, 2007, 438, 268-273.	2.6	51
49	Transient absorption spectra of nanocrystalline TiO2 films at high excitation density. Chemical Physics Letters, 2010, 500, 309-312.	2.6	50
50	What Can Be Learned from Magnetic Field Effects on Singlet Fission: Role of Exchange Interaction in Excited Triplet Pairs. Journal of Physical Chemistry C, 2015, 119, 25840-25844.	3.1	50
51	Femtosecond Diffuse Reflectance Transient Absorption for Dye-Sensitized Solar Cells under Operational Conditions: Effect of Electrolyte on Electron Injection. Journal of the American Chemical Society, 2010, 132, 6614-6615.	13.7	49
52	Mechanism of Particle Size Effect on Electron Injection Efficiency in Ruthenium Dye-Sensitized TiO₂ Nanoparticle Films. Journal of Physical Chemistry C, 2010, 114, 8135-8143.	3.1	49
53	Elucidating the Structureâ€“Property Relationships of Donorâ€“Ï€â€Acceptor Dyes for Dyeâ€Sensitized Solar Cells (DSSCs) through Rapid Library Synthesis by a Oneâ€Pot Procedure. Chemistry - A European Journal, 2014, 20, 10685-10694.	3.3	48
54	Magnetic Field Effects on Triplet Pair Generated by Singlet Fission in an Organic Crystal: Application of Radical Pair Model to Triplet Pair. Journal of Physical Chemistry C, 2016, 120, 27858-27870.	3.1	48

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55	Absorption Spectra of Imidazolium Ionic Liquids. Chemistry Letters, 2007, 36, 1256-1257.	1.3	46
56	Self-trapping limited exciton diffusion in a monomeric perylene crystal as revealed by femtosecond transient absorption microscopy. Physical Chemistry Chemical Physics, 2008, 10, 4435.	2.8	46
57	New Ru(II) phenanthroline complex photosensitizers having different number of carboxyl groups for dye-sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 145, 117-122.	3.9	45
58	Quantitative Estimation of the Efficiency of Electron Injection from Excited Sensitizer Dye into Nanocrystalline ZnO Film. Journal of Physical Chemistry B, 2004, 108, 2643-2647.	2.6	44
59	Charge carrier dynamics in TiO2 nanoparticles at various temperatures. Chemical Physics Letters, 2008, 461, 93-96.	2.6	44
60	Mechanoluminescent properties of europium complexes. Synthetic Metals, 1997, 91, 351-354.	3.9	43
61	Analysis of interactions between 1-butyl-3-methylimidazolium cation and halide anions (Cl-, Br- and I-) by ab initio calculations: anion size effects on preferential locations of anions. Molecular Physics, 2008, 106, 1621-1629.	1.7	42
62	Spectrally narrow emission from organic films under continuous-wave excitation. Applied Physics Letters, 2007, 90, 231109.	3.3	41
63	Ultrafast charge separation and exciplex formation induced by strong interaction between electron donor and acceptor at short distances. Journal of Chemical Physics, 2000, 112, 7111-7117.	3.0	40
64	Synthesis and photophysical properties of ruthenium(II) charge transfer sensitizers containing 4,4â€²-dicarboxy-2,2â€²-biquinoline and 5,8-dicarboxy-6,7-dihydro-dibenzo[1,10]-phenanthroline. Inorganica Chimica Acta, 2001, 322, 7-16.	2.4	40
65	Predicting Solar Cell Performance from Terahertz and Microwave Spectroscopy. Advanced Energy Materials, 2022, 12, .	19.5	40
66	Near-IR transient absorption study on ultrafast electron-injection dynamics from a Ru-complex dye into nanocrystalline In2O3 thin films: Comparison with SnO2, ZnO, and TiO2 films. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 182, 273-279.	3.9	39
67	Generation and Decay Dynamics of Triplet Excitons in Alq3 Thin Films under High-Density Excitation Conditions. Journal of Physical Chemistry A, 2006, 110, 10173-10178.	2.5	38
68	Triplet exciton formation in a benzophenone single crystal studied by picosecond time-resolved absorption spectroscopy. Chemical Physics Letters, 1997, 264, 631-635.	2.6	36
69	Quantitative study of solvent effects on electron injection efficiency for black-dye-sensitized nanocrystalline TiO2 films. Solar Energy Materials and Solar Cells, 2009, 93, 698-703.	6.2	36
70	Electron injection dynamics in dye-sensitized semiconductor nanocrystalline films. Surface Science Reports, 2014, 69, 389-441.	7.2	36
71	Reaction of holes in nanocrystalline TiO2 films evaluated by highly sensitive transient absorption spectroscopy. Catalysis Today, 2007, 120, 214-219.	4.4	35
72	Dye-sensitized solar cells based on nanocrystalline TiO2 sensitized with a novel pyridylquinoline ruthenium(ii) complex. New Journal of Chemistry, 2002, 26, 963-965.	2.8	31

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73	Matter of minutes degradation of poly(3-hexylthiophene) under illumination in air. Journal of Materials Chemistry, 2012, 22, 4282-4289.	6.7	31
74	Relation between charge carrier mobility and lifetime in organic photovoltaics. Journal of Applied Physics, 2013, 114, .	2.5	31
75	Growth of Î²-Perylene Crystal. Chemistry Letters, 2007, 36, 370-371.	1.3	30
76	Fission of a higher excited state generated by singlet exciton fusion in an anthracene crystal. Chemical Physics Letters, 1992, 196, 108-112.	2.6	29
77	Possible new route for the production of C6 by ultrasound. Ultrasonics Sonochemistry, 1998, 5, 37-38.	8.2	29
78	Singlet Fission in Fluorinated Diphenylhexatrienes. Journal of Physical Chemistry C, 2017, 121, 25666-25671.	3.1	29
79	Dual Electron Injection from Charge-Transfer Excited States of TiO2-Anchored Ru(II)-4,4â€²-Dicarboxy-2,2â€²-biquinoline Complex. Chemistry Letters, 2000, 29, 490-491.	1.3	28
80	Nanocrystalline solar cells sensitized with monocarboxyl or dicarboxyl pyridylquinoline ruthenium(II) complexes. Inorganica Chimica Acta, 2003, 351, 283-290.	2.4	27
81	Trace analysis by transient absorption spectroscopy: estimation of the solubility of C60 in polar solvents. Chemical Physics Letters, 2004, 394, 161-164.	2.6	27
82	Effect of dye concentration on electron injection efficiency in nanocrystalline TiO2 films sensitized with N719 dye. Chemical Physics Letters, 2011, 511, 336-339.	2.6	27
83	Structure and dynamics of triplet-exciton pairs generated from singlet fission studied via magnetic field effects. Communications Chemistry, 2018, 1, .	4.5	26
84	Mixed Solvents for Morphology Control of Organic Solar Cell Blend Films. Japanese Journal of Applied Physics, 2008, 47, 1238.	1.5	25
85	Sonochemical polymerization of benzene derivatives: the site of the reaction. Ultrasonics Sonochemistry, 1998, 5, 69-72.	8.2	24
86	Plasmon induced electron transfer at goldâ€"TiO2 interface under femtosecond near-IR two-photon excitation. Thin Solid Films, 2009, 518, 861-864.	1.8	24
87	Direct synthesis of 2-arylazulenes by [8+2] cycloaddition of 2H-cyclohepta[b]furan-2-ones with silyl enol ethers. Chemical Communications, 2020, 56, 1485-1488.	4.1	24
88	Near-IR transient absorption spectra of N3 dye as a probe of aggregation on nanocrystalline semiconductor films. Chemical Physics Letters, 2006, 423, 417-421.	2.6	23
89	Microscopic imaging of the efficiency of electron injection from excited sensitizer dye into nanocrystalline ZnO film. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 166, 69-74.	3.9	22
90	Effect of dye coverage on photo-induced electron injection efficiency in N719-sensitized nanocrystalline TiO2 films. Chemical Physics Letters, 2010, 489, 202-206.	2.6	22

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91	Synthesis and Application of Ruthenium(II) Tricarboxyterpyridyl Complex with a Nitrogen Chelete Ligand for Solar Cells Based on Nanocrystalline TiO2Films. Chemistry Letters, 2004, 33, 986-987.	1.3	21
92	Effect of excitation wavelength on electron injection efficiency in dye-sensitized nanocrystalline TiO2 and ZrO2 films. Comptes Rendus Chimie, 2006, 9, 639-644.	0.5	21
93	Synthesis of 8-aza-3,7-dideaza-2â€²-deoxyadenosines possessing a new adenosine skeleton as an environmentally sensitive fluorescent nucleoside for monitoring the DNA minor groove. Organic and Biomolecular Chemistry, 2015, 13, 7459-7468.	2.8	21
94	Time-resolved microwave conductivity study of charge carrier dynamics in commercially available TiO2 photocatalysts. Journal of Materials Chemistry A, 2015, 3, 15466-15472.	10.3	21
95	Recombination rate between dye cations and electrons in N719-sensitized nanocrystalline TiO2 films under substantially weak excitation conditions. Chemical Physics Letters, 2009, 471, 280-282.	2.6	20
96	Precise Control of Localized Surface Plasmon Wavelengths Is Needed for Effective Enhancement of Tripletâ€“Triplet Annihilation-Based Upconversion Emission. ACS Photonics, 2018, 5, 5025-5037.	6.6	20
97	Ultrafast Relaxation as a Possible Limiting Factor of Electron Injection Efficiency in Black Dye Sensitized Nanocrystalline TiO₂ Films. Journal of Physical Chemistry C, 2012, 116, 22301-22306.	3.1	19
98	Developing Active TiO₂ Nanorods by Examining the Influence of Morphological Changes from Nanorods to Nanoparticles on Photocatalytic Activity. ACS Applied Nano Materials, 2018, 1, 5927-5935.	5.0	19
99	Water-Splitting Activity of La-Doped NaTaO₃ Photocatalysts Sensitive to Spatial Distribution of Dopants. Journal of Physical Chemistry C, 2020, 124, 15285-15294.	3.1	19
100	Photoionization and optical absorption of singlet excitons in a t-stilbene crystal: excitation energy dependence of the ionization efficiency. Chemical Physics Letters, 1990, 174, 541-545.	2.6	17
101	Tunneling-Type Charge Recombination in Nanocrystalline TiO₂ Films at Low Temperature. Journal of Physical Chemistry Letters, 2011, 2, 1888-1891.	4.6	17
102	Photoionization of a singlet exciton in an anthracene single crystal through twoâ€color, twoâ€step excitation. Journal of Chemical Physics, 1991, 94, 5954-5960.	3.0	16
103	Fast-response humidity-sensing films based on methylene blue aggregates formed on nanoporous semiconductor films. Chemical Physics Letters, 2016, 652, 36-39.	2.6	16
104	Estimation of quantum yields of weak fluorescence from eosin Y dimers formed in aqueous solutions. Photochemical and Photobiological Sciences, 2018, 17, 793-799.	2.9	16
105	Plasmonic Silver Nanoprism-Induced Emissive Mode Control between Fluorescence and Phosphorescence of a Phosphorescent Palladium Porphyrin Derivative. ACS Nano, 2019, 13, 13244-13256.	14.6	16
106	Reactions of excited-state benzophenone ketyl radical in a room-temperature ionic liquid. Physical Chemistry Chemical Physics, 2010, 12, 1963.	2.8	15
107	Nanoscale phase domain structure and associated device performance of organic solar cells based on a diketopyrrolopyrrole polymer. RSC Advances, 2013, 3, 20113.	3.6	15
108	A triphenylamine substituted quinacridone derivative for solution processed organic light emitting diodes. Materials Chemistry and Physics, 2018, 206, 56-63.	4.0	15

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109	Observation of singlet exciton photoionization in anthracene single crystal at 2.95 eV. Chemical Physics Letters, 1990, 166, 258-262.	2.6	14
110	Synthesis and Photochemical Properties of Novel Ruthenium(II)-Nickel(II) and Ruthenium(II)-Copper(II) Dinuclear Complexes. Bulletin of the Chemical Society of Japan, 2003, 76, 977-984.	3.2	14
111	Transient photoabsorption by singlet excitons in p-terphenyl single crystals. Chemical Physics Letters, 1986, 131, 209-212.	2.6	13
112	Polarization Energies of Molecular Cations in Alkane Solutions. Zeitschrift Fur Physikalische Chemie, 1995, 190, 193-201.	2.8	13
113	Excitation density effect on the decomposition of liquid benzene by ArF excimer laser (193 nm) irradiation. Chemical Physics Letters, 1998, 291, 305-310.	2.6	13
114	Design and synthesis of a novel fluorescent benzo[g]imidazo[4,5-c]quinoline nucleoside for monitoring base-pair-induced protonation with cytosine: distinguishing cytosine via changes in the intensity and wavelength of fluorescence. Organic and Biomolecular Chemistry, 2016, 14, 3934-3942.	2.8	13
115	Diffusion-Mediated Delayed Fluorescence by Singlet Fission and Geminate Fusion of Correlated Triplets. Journal of Physical Chemistry C, 2018, 122, 11659-11670.	3.1	13
116	Quantitative Evaluation of Electron Injection Efficiency in Dye-Sensitized TiO2 Films. Ambio, 2012, 41, 143-148.	5.5	12
117	Observation of fluorescence from higher excited states in an anthracene crystal. Chemical Physics Letters, 1993, 201, 141-144.	2.6	11
118	Fission and fusion of excitons in perylene crystal studied with VUV and x-ray excitation. Journal of Electron Spectroscopy and Related Phenomena, 1996, 78, 423-425.	1.7	11
119	Dependence of photoionization quantum yield of indole and tryptophan in water on excitation wavelength. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 189, 211-217.	3.9	11
120	Intermolecular Dynamics of Perylene in Polymer Matrices during the Drop-Casting Process Probed by Fluorescence and Droplet Mass Changes. Langmuir, 2018, 34, 8281-8287.	3.5	11
121	Differences in adsorption behavior of N3 dye on flat and nanoporous TiO2 surfaces. Chemical Physics Letters, 2010, 497, 48-51.	2.6	10
122	Fluorescence properties of Î²-perylene crystals prepared by a physical vapor transport method under atmospheric pressure. Chemical Physics Letters, 2019, 730, 312-315.	2.6	10
123	The role of the shell in coreâ€"shell-structured La-doped NaTaO₃ photocatalysts. Physical Chemistry Chemical Physics, 2021, 23, 8868-8879.	2.8	10
124	External photoemission by singlet-exciton photoionization in an anthracene single crystal. Chemical Physics Letters, 1990, 174, 537-540.	2.6	9
125	Photoconductivity and photoelectron emission of liquid squalane and squalene induced by vacuum-ultraviolet light. Chemical Physics Letters, 1995, 242, 320-324.	2.6	9
126	Effect of high pressure on photoionization of N,N,Nâ€²,Nâ€²-tetramethyl-p-phenylenediamine (TMPD) in liquid 2,2-dimethylbutane (DMB). Chemical Physics, 1995, 195, 457-463.	1.9	9

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127	Structure and Properties of Diastereoisomers of a Ruthenium(II) Complex Having a Pyridylpyrazoline Derivative as a Ligand. Chemistry Letters, 2001, 30, 940-941.	1.3	9
128	Transient absorption microscopic study of triplet excitons in organic crystals. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 183, 267-272.	3.9	9
129	A new pyrene cored small organic molecule with a flexible alkyl spacer: a potential solution processable blue emitter with bright photoluminescence. New Journal of Chemistry, 2017, 41, 11383-11390.	2.8	9
130	Artificially Designed Compositionally Graded Sr-Doped NaTaO₃ Single-Crystalline Thin Films and the Dynamics of Their Photoexcited Electronâ€"Hole Pairs. Chemistry of Materials, 2021, 33, 226-233.	6.7	9
131	Synthesis, Reactivity, and Properties of Benz[<i>a</i>]azulenes <i>via</i> the [8 + 2] Cycloaddition of 2<i>H</i>-Cyclohepta[<i>b</i>]furan-2-ones with an Enamine. Journal of Organic Chemistry, 2022, , .	3.2	9
132	Triplet exciton abstracts hydrogen from diphenylmethane doped in benzophenone crystal. Chemical Physics Letters, 1994, 229, 323-327.	2.6	8
133	Near-IR absorption of chloranilâ€"alkylbenzene triplet exciplexes: estimation of the transfer integral between the triplet excited state (DA*) and the ion-pair state (D+Aâˆ'). Chemical Physics Letters, 2002, 352, 234-239.	2.6	8
134	Transient absorption measurement of organic crystals with femtosecond-laser scanning microscopes. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 183, 253-260.	3.9	8
135	Development of an Oxygen Sensor Based on Visual Observation of Luminescence Color Change. Chemistry Letters, 2007, 36, 1310-1311.	1.3	8
136	External Photoelectron Emission Spectra of Ionic Liquids in the Presence and Absence of Iodide. Journal of Physical Chemistry B, 2008, 112, 14971-14975.	2.6	8
137	Negative photochromism of a blue cyanine dye. Chemical Communications, 2020, 56, 15205-15207.	4.1	8
138	Photoemission by singlet-exciton fusion in an anthracene crystal. Chemical Physics Letters, 1990, 174, 531-536.	2.6	7
139	Time profiles and action spectra of double-quantum photoelectron emission in perylene and naphthacene crystals. Chemical Physics Letters, 1992, 196, 103-107.	2.6	7
140	Formation process of micrometer-sized pseudoisocyanine J-aggregates studied by single-aggregate fluorescence spectroscopy. Chemical Physics Letters, 2008, 457, 427-433.	2.6	7
141	Modulation of Electron Injection Dynamics of Ruâ€Based Dye/TiO₂ System in the Presence of Three Different Organic Solvents: Role of Solvent Dipole Moment and Donor Number. ChemPhysChem, 2015, 16, 1657-1662.	2.1	7
142	Reaction of Oxygen with the Singlet Excited State of [<i>n</i>]Cycloparaphenylenes (<i>n</i> = 9, 12,) Tj ETQq0 0 0 rgBT /Overlock 10 Subnanoseconds to Microseconds by the Randomly-Interleaved-Pulse-Train Method. Journal of Physical Chemistry A, 2020, 124, 46-55.	2.5	7
143	Performance Improvement of Tripletâ€"Triplet Annihilation-Based Upconversion Solid Films through Plasmon-Induced Backward Scattering of Periodic Arrays of Ag and Al. Langmuir, 2021, 37, 11508-11519.	3.5	7
144	Singlet Fission in Solid 1,6-Diphenyl-1,3,5-hexatriene Dicarboxylic Acids and Esters: Effects of <i>Meta</i> and <i>Para</i> Substitution. Journal of Physical Chemistry C, 2022, 126, 8742-8751.	3.1	7

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145	Observation of weak fluorescence from the second excited state in an anthracene crystal. Chemical Physics Letters, 1998, 292, 621-624.	2.6	6
146	Aggregate formation of eosin-Y adsorbed on nanocrystalline TiO2 films. Chemical Physics Letters, 2012, 551, 96-100.	2.6	6
147	Mechanism of degradation of electrolyte solutions for dye-sensitized solar cells under ultraviolet light irradiation. Chemical Physics Letters, 2015, 619, 36-38.	2.6	6
148	Charge Generation and Recombination in Diketopyrrolopyrrole Polymer: Fullerene Bulk Heterojunctions Studied by Transient Absorption and Time-Resolved Microwave Conductivity. Journal of Physical Chemistry C, 2016, 120, 28398-28406.	3.1	6
149	Green fluorescence from perylene liquid in the molten state. Chemical Physics Letters, 2019, 734, 136751.	2.6	6
150	Geminate Delayed Fluorescence by Anisotropic Diffusion-Mediated Reversible Singlet Fission and Triplet Fusion. Journal of Physical Chemistry C, 2021, 125, 3295-3304.	3.1	6
151	Effect of Deuteration on Relaxation Dynamics of the Perylene Excimer Studied by Subnanosecond Transient Absorption Spectroscopy. Journal of Physical Chemistry A, 2021, 125, 1359-1366.	2.5	6
152	Autoionization of higher excited states generated by two-photon absorption in p-terphenyl crystals. Chemical Physics Letters, 1992, 188, 80-84.	2.6	5
153	Excited-state dynamics in diketopyrrolopyrrole-based copolymer for organic photovoltaics investigated by transient optical spectroscopy. Japanese Journal of Applied Physics, 2014, 53, 01AB11.	1.5	5
154	Exciton annihilation in dye-sensitized nanocrystalline semiconductor films. Chemical Physics Letters, 2016, 659, 154-158.	2.6	5
155	Effect of reabsorption of fluorescence on transient absorption measurements. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 220, 117127.	3.9	5
156	Geminate electron-hole pair in an anthracene crystal. Its size and generation yield estimated from high-field measurements. Chemical Physics Letters, 1991, 186, 210-214.	2.6	4
157	Difference of solvation site between halide ions and electrons in an alkylammonium ionic liquid. Chemical Physics Letters, 2009, 482, 259-262.	2.6	4
158	Effect of Adsorbed Water Molecules on Light Harvesting and Electron Injection Processes in Dye-Sensitized Nanocrystalline TiO₂ Films. Journal of Physical Chemistry C, 2017, 121, 16266-16274.	3.1	4
159	Delocalization of positive charge in aromatic liquids studied by subnanosecond near-infrared transient absorption spectroscopy. Chemical Physics Letters, 2019, 731, 136578.	2.6	4
160	Exciton Splitting in Nanoscale Phase-Separated Polythiophene:Fullerene Solar Cell Blends. Journal of Nanoelectronics and Optoelectronics, 2010, 5, 115-119.	0.5	4
161	Photoionization of C60 and C70 in Liquid Alkanes. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1994, 49, 793-796.	1.5	3
162	Fluorescence from the second excited state of an anthracene crystal observed by two-step excitation. Chemical Physics Letters, 1999, 300, 734-738.	2.6	3

#	Article	IF	Citations
163	Efficiency of Electron Injection in Dye-Sensitized Semiconductor Films. Key Engineering Materials, 2010, 451, 79-95.	0.4	3
164	Synthesis and characterization of poly(tetramethylsilarylenesiloxane) derivatives with oligothiophene based moiety. Polymer, 2019, 167, 93-101.	3.8	3
165	Synthesis of ethynylpyrene-modified 3-deaza-2â€²-deoxyguanosines as environmentally sensitive fluorescent nucleosides: Target DNA-sequence detection via changes in the fluorescence wavelength. Tetrahedron Letters, 2019, 60, 825-830.	1.4	3
166	Dependence of Photoexcited Electron Behavior on Octahedral Distortion in Barium-Doped NaTaO₃ Photocatalysts. Journal of Physical Chemistry C, 2021, 125, 16403-16412.	3.1	3
167	Imaging of Exciton Absorption in Perylene Crystals by Femtosecond-Laser Scanning Microscopy. Japanese Journal of Applied Physics, 2008, 47, 1400-1403.	1.5	2
168	Study of Ultrathin Films of P3HT/PCBM by Means of Highly Sensitive Absorption Spectroscopy. Chemistry Letters, 2012, 41, 184-186.	1.3	2
169	Observation of an Intermediate State in the Solidâ€"Solid Phase Transition of a Single Crystal of Perylene. Crystal Growth and Design, 2022, 22, 2071-2075.	3.0	2
170	Photoionization cross section of aromatic molecules in liquid alkanes. Journal of Electron Spectroscopy and Related Phenomena, 1996, 78, 419-422.	1.7	1
171	Decomposition of Organic Liquids by Ultrasound.. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 1997, 6, 159-166.	0.0	1
172	Non-Destructive and Discriminating Identification of Illegal Drugs by Transient Absorption Spectroscopy in the Visible and Near-IR Wavelength Range. Japanese Journal of Applied Physics, 2008, 47, 8583-8589.	1.5	1
173	Improvement of light-harvesting and electron injection efficiencies by lithium ion in D149-sensitized nanocrystalline TiO2 films. Chemical Physics Letters, 2015, 634, 37-41.	2.6	1
174	Aligned Growth of Methylene Blue Films on TiO₂ Single Crystals. Journal of Physical Chemistry C, 2017, 121, 22004-22009.	3.1	1
175	Photoconductivity of an Anthracene / 2,2,4,4-Tetramethylpentane Solution: Pressure Effect on the Photoionization of Solute and Solvent. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1997, 52, 435-440.	1.5	0
176	Structure of Film Electrochemically Polymerized on Stainless Steel and Its Fluorescence Property. Japanese Journal of Applied Physics, 2008, 47, 405-410.	1.5	0
177	Diffusion-limited Geminate Delayed Fluorescence by Singlet Fission and Triplet Fusion. , 0, , .		0
178	Thermal and Optical Properties of Dibenzothiophene-Based Poly(tetramethylsilarylenesiloxane) Derivatives. Transactions of the Materials Research Society of Japan, 2020, 45, 45-48.	0.2	0
179	Diffusion-limited Geminate Delayed Fluorescence by Singlet Fission and Triplet Fusion. , 0, , .		0