

Ryuzi Katoh

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.

173
papers

9,767
citations

47
h-index

96
g-index

181
ext. papers

10,344
ext. citations

4.8
avg, IF

5.88
L-index

#	Paper	IF	Citations
173	Predicting Solar Cell Performance from Terahertz and Microwave Spectroscopy. <i>Advanced Energy Materials</i> , 2022 , 12, 2102776	21.8	5
172	Observation of an Intermediate State in the Solid-Solid Phase Transition of a Single Crystal of Perylene. <i>Crystal Growth and Design</i> , 2022 , 22, 2071-2075	3.5	
171	Artificially Designed Compositionally Graded Sr-Doped NaTaO ₃ Single-Crystalline Thin Films and the Dynamics of Their Photoexcited Electron-Hole Pairs. <i>Chemistry of Materials</i> , 2021 , 33, 226-233	9.6	3
170	Dependence of Photoexcited Electron Behavior on Octahedral Distortion in Barium-Doped NaTaO ₃ Photocatalysts. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 16403-16412	3.8	0
169	The role of the shell in core-shell-structured La-doped NaTaO photocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 8868-8879	3.6	6
168	Geminate Delayed Fluorescence by Anisotropic Diffusion-Mediated Reversible Singlet Fission and Triplet Fusion. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 3295-3304	3.8	4
167	Effect of Deuteration on Relaxation Dynamics of the Perylene Excimer Studied by Subnanosecond Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 1359-1366	2.8	2
166	Performance Improvement of Triplet-Triplet Annihilation-Based Upconversion Solid Films through Plasmon-Induced Backward Scattering of Periodic Arrays of Ag and Al. <i>Langmuir</i> , 2021 , 37, 11508-11519 ⁴		3
165	Water-Splitting Activity of La-Doped NaTaO ₃ Photocatalysts Sensitive to Spatial Distribution of Dopants. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 15285-15294	3.8	7
164	Thermal and Optical Properties of Dibenzothiophene-Based Poly(tetramethylsilylenesiloxane) Derivatives. <i>Transactions of the Materials Research Society of Japan</i> , 2020 , 45, 45-48	0.2	
163	Direct synthesis of 2-arylazulenes by [8+2] cycloaddition of 2H-cyclohepta[b]furan-2-ones with silyl enol ethers. <i>Chemical Communications</i> , 2020 , 56, 1485-1488	5.8	16
162	Reaction of Oxygen with the Singlet Excited State of [n]Cycloparaphenylenes (n = 9, 12, and 15): A Time-Resolved Transient Absorption Study Seamlessly Covering Time Ranges from Subnanoseconds to Microseconds by the Randomly-Interleaved-Pulse-Train Method. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 46-55	2.8	6
161	Negative photochromism of a blue cyanine dye. <i>Chemical Communications</i> , 2020 , 56, 15205-15207	5.8	2
160	Synthesis and characterization of poly(tetramethylsilylenesiloxane) derivatives with oligothiophene based moiety. <i>Polymer</i> , 2019 , 167, 93-101	3.9	2
159	Synthesis of ethynylpyrene-modified 3-deaza-2'-deoxyguanosines as environmentally sensitive fluorescent nucleosides: Target DNA-sequence detection via changes in the fluorescence wavelength. <i>Tetrahedron Letters</i> , 2019 , 60, 825-830	2	0
158	Fluorescence properties of perylene crystals prepared by a physical vapor transport method under atmospheric pressure. <i>Chemical Physics Letters</i> , 2019 , 730, 312-315	2.5	8
157	Effect of reabsorption of fluorescence on transient absorption measurements. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 220, 117127	4.4	3

156	Delocalization of positive charge in aromatic liquids studied by subnanosecond near-infrared transient absorption spectroscopy. <i>Chemical Physics Letters</i> , 2019 , 731, 136578	2.5	4
155	Plasmonic Silver Nanoprism-Induced Emissive Mode Control between Fluorescence and Phosphorescence of a Phosphorescent Palladium Porphyrin Derivative. <i>ACS Nano</i> , 2019 , 13, 13244-13256	16.7	7
154	Green fluorescence from perylene liquid in the molten state. <i>Chemical Physics Letters</i> , 2019 , 734, 136751	2.5	2
153	Diffusion-Mediated Delayed Fluorescence by Singlet Fission and Geminate Fusion of Correlated Triplets. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 11659-11670	3.8	7
152	Estimation of quantum yields of weak fluorescence from eosin Y dimers formed in aqueous solutions. <i>Photochemical and Photobiological Sciences</i> , 2018 , 17, 793-799	4.2	11
151	Structure and dynamics of triplet-exciton pairs generated from singlet fission studied via magnetic field effects. <i>Communications Chemistry</i> , 2018 , 1,	6.3	19
150	A triphenylamine substituted quinacridone derivative for solution processed organic light emitting diodes. <i>Materials Chemistry and Physics</i> , 2018 , 206, 56-63	4.4	12
149	Precise Control of Localized Surface Plasmon Wavelengths Is Needed for Effective Enhancement of Triplet-Triplet Annihilation-Based Upconversion Emission. <i>ACS Photonics</i> , 2018 , 5, 5025-5037	6.3	14
148	Developing Active TiO ₂ Nanorods by Examining the Influence of Morphological Changes from Nanorods to Nanoparticles on Photocatalytic Activity. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5927-5935	5.6	13
147	Intermolecular Dynamics of Perylene in Polymer Matrices during the Drop-Casting Process Probed by Fluorescence and Droplet Mass Changes. <i>Langmuir</i> , 2018 , 34, 8281-8287	4	9
146	Aligned Growth of Methylene Blue Films on TiO ₂ Single Crystals. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 22004-22009	3.8	0
145	A new pyrene cored small organic molecule with a flexible alkyl spacer: a potential solution processable blue emitter with bright photoluminescence. <i>New Journal of Chemistry</i> , 2017 , 41, 11383-11390	3.6	9
144	Effect of Adsorbed Water Molecules on Light Harvesting and Electron Injection Processes in Dye-Sensitized Nanocrystalline TiO ₂ Films. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 16266-16274	3.8	4
143	Singlet Fission in Fluorinated Diphenylhexatrienes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 25666-25673	3.8	21
142	Magnetic Field Effects on Triplet Pair Generated by Singlet Fission in an Organic Crystal: Application of Radical Pair Model to Triplet Pair. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 27858-27870	3.8	33
141	Exciton annihilation in dye-sensitized nanocrystalline semiconductor films. <i>Chemical Physics Letters</i> , 2016 , 659, 154-158	2.5	4
140	Probing with randomly interleaved pulse train bridges the gap between ultrafast pump-probe and nanosecond flash photolysis. <i>Optics Letters</i> , 2016 , 41, 1498-501	3	47
139	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. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 3934-42	3.9	11

138	Charge Generation and Recombination in Diketopyrrolopyrrole Polymer: Fullerene Bulk Heterojunctions Studied by Transient Absorption and Time-Resolved Microwave Conductivity. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 28398-28406	3.8	6
137	Fast-response humidity-sensing films based on methylene blue aggregates formed on nanoporous semiconductor films. <i>Chemical Physics Letters</i> , 2016 , 652, 36-39	2.5	14
136	Synthesis of 8-aza-3,7-dideaza-2Pdeoxyadenosines possessing a new adenosine skeleton as an environmentally sensitive fluorescent nucleoside for monitoring the DNA minor groove. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 7459-68	3.9	19
135	Improvement of light-harvesting and electron injection efficiencies by lithium ion in D149-sensitized nanocrystalline TiO ₂ films. <i>Chemical Physics Letters</i> , 2015 , 634, 37-41	2.5	1
134	Time-resolved microwave conductivity study of charge carrier dynamics in commercially available TiO ₂ photocatalysts. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15466-15472	13	17
133	What Can Be Learned from Magnetic Field Effects on Singlet Fission: Role of Exchange Interaction in Excited Triplet Pairs. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 25840-25844	3.8	35
132	Mechanism of degradation of electrolyte solutions for dye-sensitized solar cells under ultraviolet light irradiation. <i>Chemical Physics Letters</i> , 2015 , 619, 36-38	2.5	6
131	Modulation of Electron Injection Dynamics of Ru-Based Dye/TiO ₂ System in the Presence of Three Different Organic Solvents: Role of Solvent Dipole Moment and Donor Number. <i>ChemPhysChem</i> , 2015 , 16, 1657-62	3.2	7
130	Electron injection efficiency in dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2014 , 20, 1-16	16.4	104
129	Electron injection dynamics in dye-sensitized semiconductor nanocrystalline films. <i>Surface Science Reports</i> , 2014 , 69, 389-441	12.9	33
128	Elucidating the structure-property relationships of donor-acceptor dyes for dye-sensitized solar cells (DSSCs) through rapid library synthesis by a one-pot procedure. <i>Chemistry - A European Journal</i> , 2014 , 20, 10685-94	4.8	44
127	Excited-state dynamics in diketopyrrolopyrrole-based copolymer for organic photovoltaics investigated by transient optical spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 01AB11	1.4	4
126	Nanoscale phase domain structure and associated device performance of organic solar cells based on a diketopyrrolopyrrole polymer. <i>RSC Advances</i> , 2013 , 3, 20113	3.7	14
125	Ultrafast plasmon induced electron injection mechanism in gold@TiO ₂ nanoparticle system. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2013 , 15, 21-30	16.4	96
124	Relation between charge carrier mobility and lifetime in organic photovoltaics. <i>Journal of Applied Physics</i> , 2013 , 114, 184503	2.5	28
123	Study of Ultrathin Films of P3HT/PCBM by Means of Highly Sensitive Absorption Spectroscopy. <i>Chemistry Letters</i> , 2012 , 41, 184-186	1.7	2
122	Ultrafast Relaxation as a Possible Limiting Factor of Electron Injection Efficiency in Black Dye Sensitized Nanocrystalline TiO ₂ Films. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22301-22306	3.8	18
121	Aggregate formation of eosin-Y adsorbed on nanocrystalline TiO ₂ films. <i>Chemical Physics Letters</i> , 2012 , 551, 96-100	2.5	6

120	Matter of minutes degradation of poly(3-hexylthiophene) under illumination in air. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4282-4289		27
119	Quantitative evaluation of electron injection efficiency in dye-sensitized TiO ₂ films. <i>Ambio</i> , 2012 , 41 Suppl 2, 143-8	6.5	10
118	Tunneling-Type Charge Recombination in Nanocrystalline TiO ₂ Films at Low Temperature. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 1888-1891	6.4	15
117	Effect of dye concentration on electron injection efficiency in nanocrystalline TiO ₂ films sensitized with N719 dye. <i>Chemical Physics Letters</i> , 2011 , 511, 336-339	2.5	26
116	Coexistence of Femtosecond- and Nonelectron-Injecting Dyes in Dye-Sensitized Solar Cells: Inhomogeneity Limits the Efficiency. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 22084-22088	3.8	49
115	Efficiency of Electron Injection in Dye-Sensitized Semiconductor Films. <i>Key Engineering Materials</i> , 2010 , 451, 79-95	0.4	3
114	Femtosecond diffuse reflectance transient absorption for dye-sensitized solar cells under operational conditions: effect of electrolyte on electron injection. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6614-5	16.4	47
113	Organic Dyes Containing Thieno[3,2-b]indole Donor for Efficient Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 18283-18290	3.8	91
112	Singlet Annihilation in Films of Regioregular Poly(3-hexylthiophene): Estimates for Singlet Diffusion Lengths and the Correlation between Singlet Annihilation Rates and Spectral Relaxation. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10962-10968	3.8	80
111	Mechanism of Particle Size Effect on Electron Injection Efficiency in Ruthenium Dye-Sensitized TiO ₂ Nanoparticle Films. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 8135-8143	3.8	46
110	Charge Separation and Trapping in N-Doped TiO ₂ Photocatalysts: A Time-Resolved Microwave Conductivity Study. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3261-3265	6.4	86
109	Reactions of excited-state benzophenone ketyl radical in a room-temperature ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 1963-70	3.6	14
108	Differences in adsorption behavior of N3 dye on flat and nanoporous TiO ₂ surfaces. <i>Chemical Physics Letters</i> , 2010 , 497, 48-51	2.5	10
107	Recent advances in instrumentation for absolute emission quantum yield measurements. <i>Coordination Chemistry Reviews</i> , 2010 , 254, 2449-2458	23.2	246
106	Effect of dye coverage on photo-induced electron injection efficiency in N719-sensitized nanocrystalline TiO ₂ films. <i>Chemical Physics Letters</i> , 2010 , 489, 202-206	2.5	20
105	Transient absorption spectra of nanocrystalline TiO ₂ films at high excitation density. <i>Chemical Physics Letters</i> , 2010 , 500, 309-312	2.5	35
104	Exciton Splitting in Nanoscale Phase-Separated Polythiophene:Fullerene Solar Cell Blends. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2010 , 5, 115-119	1.3	4
103	Quantitative study of solvent effects on electron injection efficiency for black-dye-sensitized nanocrystalline TiO ₂ films. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 698-703	6.4	33

102	Plasmon induced electron transfer at gold/TiO ₂ interface under femtosecond near-IR two-photon excitation. <i>Thin Solid Films</i> , 2009 , 518, 861-864	2.2	22
101	Recombination rate between dye cations and electrons in N719-sensitized nanocrystalline TiO ₂ films under substantially weak excitation conditions. <i>Chemical Physics Letters</i> , 2009 , 471, 280-282	2.5	18
100	Estimate of singlet diffusion lengths in PCBM films by time-resolved emission studies. <i>Chemical Physics Letters</i> , 2009 , 478, 33-36	2.5	72
99	Difference of solvation site between halide ions and electrons in an alkylammonium ionic liquid. <i>Chemical Physics Letters</i> , 2009 , 482, 259-262	2.5	4
98	Fluorescence Quantum Yield of Aromatic Hydrocarbon Crystals. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 2961-2965	3.8	195
97	Influence of TiCl ₄ treatment on back contact dye-sensitized solar cells sensitized with black dye. <i>Energy and Environmental Science</i> , 2009 , 2, 1205	35.4	74
96	Plasmon-Induced Charge Separation and Recombination Dynamics in Gold/TiO ₂ Nanoparticle Systems: Dependence on TiO ₂ Particle Size. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 6454-6462	3.8	209
95	Zn-Zn porphyrin dimer-sensitized solar cells: toward 3-D light harvesting. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15621-3	16.4	165
94	Effects of 4-tert-Butylpyridine and Li Ions on Photoinduced Electron Injection Efficiency in Black-Dye-Sensitized Nanocrystalline TiO ₂ Films. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 20738-20744	2.8	95
93	Femtosecond Visible-to-IR Spectroscopy of TiO ₂ Nanocrystalline Films: Elucidation of the Electron Mobility before Deep Trapping. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 11741-11746	3.8	158
92	Highly stable sensitizer dyes for dye-sensitized solar cells: role of the oligothiophene moiety. <i>Energy and Environmental Science</i> , 2009 , 2, 542	35.4	98
91	Analysis of the excited states of regioregular polythiophene P3HT. <i>Energy and Environmental Science</i> , 2008 , 1, 294	35.4	193
90	Self-trapping limited exciton diffusion in a monomeric perylene crystal as revealed by femtosecond transient absorption microscopy. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 4435-41	3.6	41
89	External photoelectron emission spectra of ionic liquids in the presence and absence of iodide. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 14971-5	3.4	7
88	Ion pair formation in [bmim]I ionic liquids. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 15426-30	3.4	58
87	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. <i>Molecular Physics</i> , 2008 , 106, 1621-1629	1.7	39
86	Imaging of Exciton Absorption in Perylene Crystals by Femtosecond-Laser Scanning Microscopy. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 1400-1403	1.4	1
85	Mixed Solvents for Morphology Control of Organic Solar Cell Blend Films. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 1238-1241	1.4	23

84	Structure of Film Electrochemically Polymerized on Stainless Steel and Its Fluorescence Property. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 405-410	1.4	
83	Formation process of micrometer-sized pseudoisocyanine J-aggregates studied by single-aggregate fluorescence spectroscopy. <i>Chemical Physics Letters</i> , 2008 , 457, 427-433	2.5	6
82	Charge carrier dynamics in TiO ₂ nanoparticles at various temperatures. <i>Chemical Physics Letters</i> , 2008 , 461, 93-96	2.5	42
81	Electron-hole recombination in the bulk of a rutile TiO ₂ single crystal studied by sub-nanosecond transient absorption spectroscopy. <i>Chemical Physics Letters</i> , 2008 , 461, 238-241	2.5	73
80	Photoinduced electron injection in black dye sensitized nanocrystalline TiO ₂ films. <i>Journal of Materials Chemistry</i> , 2007 , 17, 3190		75
79	Electron photodetachment from iodide in ionic liquids through charge-transfer-to-solvent band excitation. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 4770-4	3.4	50
78	Ultrafast plasmon-induced electron transfer from gold nanodots into TiO ₂ nanoparticles. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14852-3	16.4	765
77	Effect of pH on absorption spectra of photogenerated holes in nanocrystalline TiO ₂ films. <i>Chemical Physics Letters</i> , 2007 , 438, 268-273	2.5	46
76	Reaction of holes in nanocrystalline TiO ₂ films evaluated by highly sensitive transient absorption spectroscopy. <i>Catalysis Today</i> , 2007 , 120, 214-219	5.3	32
75	Dependence of photoionization quantum yield of indole and tryptophan in water on excitation wavelength. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007 , 189, 211-217	4.7	8
74	Spectrally narrow emission from organic films under continuous-wave excitation. <i>Applied Physics Letters</i> , 2007 , 90, 231109	3.4	37
73	Growth of Perylene Crystal. <i>Chemistry Letters</i> , 2007 , 36, 370-371	1.7	23
72	Absorption Spectra of Imidazolium Ionic Liquids. <i>Chemistry Letters</i> , 2007 , 36, 1256-1257	1.7	39
71	Development of an Oxygen Sensor Based on Visual Observation of Luminescence Color Change. <i>Chemistry Letters</i> , 2007 , 36, 1310-1311	1.7	7
70	Dynamics of efficient electron-hole separation in TiO ₂ nanoparticles revealed by femtosecond transient absorption spectroscopy under the weak-excitation condition. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 1453-60	3.6	234
69	Effect of the Particle Size on the Electron Injection Efficiency in Dye-Sensitized Nanocrystalline TiO ₂ Films Studied by Time-Resolved Microwave Conductivity (TRMC) Measurements. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 10741-10746	3.8	82
68	Effect of excitation wavelength on electron injection efficiency in dye-sensitized nanocrystalline TiO ₂ and ZrO ₂ films. <i>Comptes Rendus Chimie</i> , 2006 , 9, 639-644	2.7	20
67	Direct observation of reactive trapped holes in TiO ₂ undergoing photocatalytic oxidation of adsorbed alcohols: evaluation of the reaction rates and yields. <i>Journal of the American Chemical Society</i> , 2006 , 128, 416-7	16.4	280

66	Trapping dynamics of electrons and holes in a nanocrystalline TiO ₂ film revealed by femtosecond visible/near-infrared transient absorption spectroscopy. <i>Comptes Rendus Chimie</i> , 2006 , 9, 268-274	2.7	64
65	Near-IR transient absorption spectra of N3 dye as a probe of aggregation on nanocrystalline semiconductor films. <i>Chemical Physics Letters</i> , 2006 , 423, 417-421	2.5	20
64	Near-IR transient absorption study on ultrafast electron-injection dynamics from a Ru-complex dye into nanocrystalline In ₂ O ₃ thin films: Comparison with SnO ₂ , ZnO, and TiO ₂ films. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006 , 182, 273-279	4.7	38
63	Transient absorption microscopic study of triplet excitons in organic crystals. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006 , 183, 267-272	4.7	9
62	Transient absorption measurement of organic crystals with femtosecond-laser scanning microscopes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006 , 183, 253-260	4.7	6
61	Generation and decay dynamics of triplet excitons in Alq ₃ thin films under high-density excitation conditions. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 10173-8	2.8	34
60	Effect of aggregation on the excited-state electronic structure of perylene studied by transient absorption spectroscopy. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 6465-71	2.8	49
59	Lithium ion effect on electron injection from a photoexcited coumarin derivative into a TiO ₂ nanocrystalline film investigated by visible-to-IR ultrafast spectroscopy. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 16406-14	3.4	106
58	Oligothiophene-containing coumarin dyes for efficient dye-sensitized solar cells. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 15476-82	3.4	53 ¹
57	Microscopic imaging of the efficiency of electron injection from excited sensitizer dye into nanocrystalline ZnO film. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004 , 166, 69-74	4.7	22
56	Kinetics and mechanism of electron injection and charge recombination in dye-sensitized nanocrystalline semiconductors. <i>Coordination Chemistry Reviews</i> , 2004 , 248, 1195-1213	23.2	164
55	Trace analysis by transient absorption spectroscopy: estimation of the solubility of C ₆₀ in polar solvents. <i>Chemical Physics Letters</i> , 2004 , 394, 161-164	2.5	26
54	Quantitative Estimation of the Efficiency of Electron Injection from Excited Sensitizer Dye into Nanocrystalline ZnO Film. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 2643-2647	3.4	40
53	Ultrafast Direct and Indirect Electron-Injection Processes in a Photoexcited Dye-Sensitized Nanocrystalline Zinc Oxide Film: The Importance of Exciplex Intermediates at the Surface. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 12583-12592	3.4	116
52	Identification of Reactive Species in Photoexcited Nanocrystalline TiO ₂ Films by Wide-Wavelength-Range (400-500 nm) Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 3817-3823	3.4	405
51	Efficiencies of Electron Injection from Excited N3 Dye into Nanocrystalline Semiconductor (ZrO ₂ , TiO ₂ , ZnO, Nb ₂ O ₅ , SnO ₂ , In ₂ O ₃) Films. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 4818-4822	3.4	48 ¹
50	Synthesis and Application of Ruthenium(II) Tricarboxyterpyridyl Complex with a Nitrogen Chelate Ligand for Solar Cells Based on Nanocrystalline TiO ₂ Films. <i>Chemistry Letters</i> , 2004 , 33, 986-987	1.7	21
49	Synthesis and Photochemical Properties of Novel Ruthenium(II)-Nickel(II) and Ruthenium(II)-Copper(II) Dinuclear Complexes. <i>Bulletin of the Chemical Society of Japan</i> , 2003 , 76, 977-984 ⁵¹		13

48	Molecular Design of Coumarin Dyes for Efficient Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 597-606	3.4	936
47	Nanocrystalline solar cells sensitized with monocarboxyl or dicarboxyl pyridylquinoline ruthenium(II) complexes. <i>Inorganica Chimica Acta</i> , 2003 , 351, 283-290	2.7	26
46	Ultrafast Stepwise Electron Injection from Photoexcited Ru-Complex into Nanocrystalline ZnO Film via Intermediates at the Surface. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 4162-4166	3.4	93
45	Electron Injection Efficiency from Excited N3 into Nanocrystalline ZnO Films: Effect of (N3)n2+ Aggregate Formation. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 2570-2574	3.4	201
44	Panchromatic sensitization of nanocrystalline TiO2 with cis-Bis(4-carboxy-2-[2P(4Pcarboxypyridyl)]quinoline)bis(thiocyanato-N)ruthenium(II). <i>Inorganic Chemistry</i> , 2003 , 42, 7921-31	5.1	102
43	Near-IR absorption of chloranilalkylbenzene triplet exciplexes: estimation of the transfer integral between the triplet excited state (DA*) and the ion-pair state (D+A). <i>Chemical Physics Letters</i> , 2002 , 352, 234-239	2.5	6
42	Effect of the Ligand Structure on the Efficiency of Electron Injection from Excited RuPhenanthroline Complexes to Nanocrystalline TiO2 Films. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 374-379	3.4	72
41	Efficient panchromatic sensitization of nanocrystalline TiO2 films by β -diketonato ruthenium polypyridyl complexes. <i>New Journal of Chemistry</i> , 2002 , 26, 966-968	3.6	81
40	Dye-sensitized solar cells based on nanocrystalline TiO2 sensitized with a novel pyridylquinoline ruthenium(II) complex. <i>New Journal of Chemistry</i> , 2002 , 26, 963-965	3.6	30
39	Efficiencies of Electron Injection from Excited Sensitizer Dyes to Nanocrystalline ZnO Films as Studied by Near-IR Optical Absorption of Injected Electrons. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 12957-12964	3.4	118
38	Structure and Properties of Diastereoisomers of a Ruthenium(II) Complex Having a Pyridylpyrazoline Derivative as a Ligand. <i>Chemistry Letters</i> , 2001 , 30, 940-941	1.7	9
37	Origin of the stabilization energy of perylene excimer as studied by fluorescence and near-IR transient absorption spectroscopy. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001 , 145, 23-34	4.7	129
36	New Ru(II) phenanthroline complex photosensitizers having different number of carboxyl groups for dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001 , 145, 117-122	4.7	44
35	Sensitization of nanocrystalline TiO2 film by ruthenium(II) diimine dithiolate complexes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001 , 145, 135-141	4.7	52
34	Synthesis and photophysical properties of ruthenium(II) charge transfer sensitizers containing 4,4'-dicarboxy-2,2'-biquinoline and 5,8-dicarboxy-6,7-dihydro-dibenzo[1,10]-phenanthroline. <i>Inorganica Chimica Acta</i> , 2001 , 322, 7-16	2.7	38
33	Dye sensitization of nanocrystalline titanium dioxide with square planar platinum(II) diimine dithiolate complexes. <i>Inorganic Chemistry</i> , 2001 , 40, 5371-80	5.1	208
32	Dual Electron Injection from Charge-Transfer Excited States of TiO2-Anchored Ru(II)-4,4'-Dicarboxy-2,2'-biquinoline Complex. <i>Chemistry Letters</i> , 2000 , 29, 490-491	1.7	28
31	Highly efficient polypyridyl-ruthenium(II) photosensitizers with chelating oxygen donor ligands: β -diketonato-bis(dicarboxybipyridine)ruthenium. <i>Inorganica Chimica Acta</i> , 2000 , 310, 169-174	2.7	53

30	Ultrafast charge separation and exciplex formation induced by strong interaction between electron donor and acceptor at short distances. <i>Journal of Chemical Physics</i> , 2000 , 112, 7111-7117	3.9	38
29	Ultrafast interfacial charge separation processes from the singlet and triplet MLCT states of Ru(bpy) ₂ (dcbpy) adsorbed on nanocrystalline SnO ₂ under negative applied bias. <i>Journal of Chemical Physics</i> , 2000 , 113, 3366-3373	3.9	54
28	New platinum(II) polypyridyl photosensitizers for TiO ₂ solar cells. <i>New Journal of Chemistry</i> , 2000 , 24, 343-345	3.6	64
27	Fluorescence from the second excited state of an anthracene crystal observed by two-step excitation. <i>Chemical Physics Letters</i> , 1999 , 300, 734-738	2.5	3
26	Excitation density effect on the decomposition of liquid benzene by ArF excimer laser (193 nm) irradiation. <i>Chemical Physics Letters</i> , 1998 , 291, 305-310	2.5	10
25	Observation of weak fluorescence from the second excited state in an anthracene crystal. <i>Chemical Physics Letters</i> , 1998 , 292, 621-624	2.5	6
24	Possible new route for the production of C ₆₀ by ultrasound. <i>Ultrasonics Sonochemistry</i> , 1998 , 5, 37-8	8.9	26
23	Sonochemical polymerization of benzene derivatives: the site of the reaction. <i>Ultrasonics Sonochemistry</i> , 1998 , 5, 69-72	8.9	23
22	Near-IR Absorption Spectrum of Aromatic Excimers. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 7725-7728	8.8	46
21	Mechanoluminescent properties of europium complexes. <i>Synthetic Metals</i> , 1997 , 91, 351-354	3.6	37
20	Photoconductivity of an Anthracene / 2,2,4,4-Tetramethylpentane Solution: Pressure Effect on the Photoionization of Solute and Solvent. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1997 , 52, 435-440	1.4	
19	Triplet exciton formation in a benzophenone single crystal studied by picosecond time-resolved absorption spectroscopy. <i>Chemical Physics Letters</i> , 1997 , 264, 631-635	2.5	33
18	Photoionization cross section of aromatic molecules in liquid alkanes. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1996 , 78, 419-422	1.7	1
17	Fission and fusion of excitons in perylene crystal studied with VUV and x-ray excitation. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1996 , 78, 423-425	1.7	11
16	Polarization Energies of Molecular Cations in Alkane Solutions. <i>Zeitschrift Fur Physikalische Chemie</i> , 1995 , 190, 193-201	3.1	13
15	Photoconductivity and photoelectron emission of liquid squalane and squalene induced by vacuum-ultraviolet light. <i>Chemical Physics Letters</i> , 1995 , 242, 320-324	2.5	8
14	Effect of high pressure on photoionization of N,N,N',N'-tetramethyl-p-phenylenediamine (TMPD) in liquid 2,2-dimethylbutane (DMB). <i>Chemical Physics</i> , 1995 , 195, 457-463	2.3	9
13	Triplet exciton abstracts hydrogen from diphenylmethane doped in benzophenone crystal. <i>Chemical Physics Letters</i> , 1994 , 229, 323-327	2.5	7

12	Photoionization of C60 and C70 in Liquid Alkanes. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1994 , 49, 793-796	1.4	3
11	Observation of fluorescence from higher excited states in an anthracene crystal. <i>Chemical Physics Letters</i> , 1993 , 201, 141-144	2.5	10
10	Autoionization of higher excited states generated by two-photon absorption in p-terphenyl crystals. <i>Chemical Physics Letters</i> , 1992 , 188, 80-84	2.5	5
9	Time profiles and action spectra of double-quantum photoelectron emission in perylene and naphthacene crystals. <i>Chemical Physics Letters</i> , 1992 , 196, 103-107	2.5	7
8	Fission of a higher excited state generated by singlet exciton fusion in an anthracene crystal. <i>Chemical Physics Letters</i> , 1992 , 196, 108-112	2.5	24
7	Geminate electron-hole pair in an anthracene crystal. Its size and generation yield estimated from high-field measurements. <i>Chemical Physics Letters</i> , 1991 , 186, 210-214	2.5	3
6	Photoionization of a singlet exciton in an anthracene single crystal through two-color, two-step excitation. <i>Journal of Chemical Physics</i> , 1991 , 94, 5954-5960	3.9	16
5	Photoemission by singlet-exciton fusion in an anthracene crystal. <i>Chemical Physics Letters</i> , 1990 , 174, 531-536	2.5	7
4	External photoemission by singlet-exciton photoionization in an anthracene single crystal. <i>Chemical Physics Letters</i> , 1990 , 174, 537-540	2.5	9
3	Observation of singlet exciton photoionization in anthracene single crystal at 2.95 eV. <i>Chemical Physics Letters</i> , 1990 , 166, 258-262	2.5	13
2	Photoionization and optical absorption of singlet excitons in a t-stilbene crystal: excitation energy dependence of the ionization efficiency. <i>Chemical Physics Letters</i> , 1990 , 174, 541-545	2.5	16
1	Transient photoabsorption by singlet excitons in p-terphenyl single crystals. <i>Chemical Physics Letters</i> , 1986 , 131, 209-212	2.5	10