

Kohjiro Hara

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.

146 papers	17,316 citations	64 h-index	131 g-index
156 ext. papers	18,104 ext. citations	5.1 avg, IF	6.26 L-index

#	Paper	IF	Citations
146	Raman spectroscopic analysis of encapsulants in aged photovoltaic modules. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022 , 425, 113721	4.7	1
145	Durable polyolefin encapsulants in aged photovoltaic modules. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022 , 114015	4.7	
144	Spectroscopic investigation of long-term outdoor-exposed crystalline silicon photovoltaic modules. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021 , 404, 112891	4.7	5
143	Durable crystalline silicon photovoltaic modules based on breathable structure. <i>Japanese Journal of Applied Physics</i> , 2021 , 60, 027001	1.4	2
142	Metal-doped titanium oxide films for suppressing potential-induced degradation of photovoltaic modules. <i>Journal of the Ceramic Society of Japan</i> , 2021 , 129, 625-630	1	0
141	Durable crystalline Si photovoltaic modules based on silicone-sheet encapsulants. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 027101	1.4	8
140	Potential-induced degradation of n-type crystalline Si photovoltaic modules in practical outdoor systems. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 117102	1.4	4
139	Influence of surface structure of n-type single-crystalline Si solar cells on potential-induced degradation. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 166, 132-139	6.4	24
138	Microscopic aspects of potential-induced degradation phenomena and their recovery processes for p-type crystalline Si photovoltaic modules. <i>Current Applied Physics</i> , 2016 , 16, 1659-1665	2.6	27
137	Potential-induced degradation of Cu(In,Ga)Se ₂ photovoltaic modules. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 08KC13	1.4	44
136	Crystalline Si photovoltaic modules functionalized by a thin polyethylene film against potential and damp-heat-induced degradation. <i>RSC Advances</i> , 2015 , 5, 15017-15023	3.7	28
135	Potential-induced degradation in photovoltaic modules based on n-type single crystalline Si solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 140, 361-365	6.4	62
134	Relationship between cross-linking conditions of ethylene vinyl acetate and potential induced degradation for crystalline silicon photovoltaic modules. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 08KG01	1.4	29
133	Plasma-enhanced chemical-vapor deposition of silicon nitride film for high resistance to potential-induced degradation. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 08KD12	1.4	12
132	Electron injection dynamics in dye-sensitized semiconductor nanocrystalline films. <i>Surface Science Reports</i> , 2014 , 69, 389-441	12.9	33
131	Crystalline Si photovoltaic modules based on TiO ₂ -coated cover glass against potential-induced degradation. <i>RSC Advances</i> , 2014 , 4, 44291-44295	3.7	43
130	Investigation on antireflection coating for high resistance to potential-induced degradation. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 03CE01	1.4	29

129	Deceleration of dye cation reduction kinetics by adding alkyl chains to the E-conjugated linker of dye molecules. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 127301	1.4	7
128	Novel lighter weight crystalline silicon photovoltaic module using acrylic-film as a cover sheet. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 092302	1.4	30
127	Visible-light-induced water splitting based on two-step photoexcitation between dye-sensitized layered niobate and tungsten oxide photocatalysts in the presence of a triiodide/iodide shuttle redox mediator. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16872-84	16.4	203
126	Chemically strengthened cover glass for preventing potential induced degradation of crystalline silicon solar cells 2013 ,		9
125	Development of Carbazole Dyes for Efficient Molecular Photovoltaics. <i>Heterocycles</i> , 2013 , 87, 275	0.8	29
124	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
123	Alternation of Charge Injection and Recombination in Dye-Sensitized Solar Cells by the Addition of Nonconjugated Bridge to Organic Dyes. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 2024-2031	3.8	31
122	Organic dyes with oligo-n-hexylthiophene for dye-sensitized solar cells: Relation between chemical structure of donor and photovoltaic performance. <i>Dyes and Pigments</i> , 2012 , 92, 1250-1256	4.6	32
121	Enhanced performance of dye-sensitized solar cells with novel 2,6-diphenyl-4H-pyranylidene dyes. <i>Organic Electronics</i> , 2012 , 13, 425-431	3.5	17
120	Synthesis and Properties of Anthrylene-Substituted Phenyleneethynylene Dyes Having Amino/Cyano Group(s) and Their Application to Dye-Sensitized Solar Cells. <i>Bulletin of the Chemical Society of Japan</i> , 2012 , 85, 687-697	5.1	13
119	Synthesis and photo-electrochemical properties of novel thienopyrazine and quinoxaline derivatives, and their dye-sensitized solar cell performance. <i>Organic Electronics</i> , 2012 , 13, 3097-3101	3.5	22
118	Carbazole Dyes with Ether Groups for Dye-Sensitized Solar Cells: Effect of Negative Charges in Dye Molecules on Electron Lifetime. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 10NE14	1.4	2
117	Carbazole Dyes with Ether Groups for Dye-Sensitized Solar Cells: Effect of Negative Charges in Dye Molecules on Electron Lifetime. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 10NE14	1.4	2
116	Dye-Sensitized Solar Cells 2011 , 642-674		5
115	Nanocrystalline electrodes based on nanoporous-walled WO ₃ nanotubes for organic-dye-sensitized solar cells. <i>Langmuir</i> , 2011 , 27, 12730-6	4	74
114	Synthesis and Properties of 9,10-Anthrylene-substituted Phenyleneethynylene Dyes for Dye-sensitized Solar Cell. <i>Chemistry Letters</i> , 2011 , 40, 620-622	1.7	14
113	Carbazole Dyes with Alkyl-functionalized Thiophenes for Dye-sensitized Solar Cells: Relation between Alkyl Chain Length and Photovoltaic Performance. <i>Chemistry Letters</i> , 2011 , 40, 872-873	1.7	32
112	Synthesis and Properties of Seleno-analog MK-organic Dye for Photovoltaic Cells Prepared by C-H Functionalization Reactions of Selenophene Derivatives. <i>Chemistry Letters</i> , 2011 , 40, 922-924	1.7	30

111	Dye-sensitized Solar Cells Based on Novel Diphenylpyran Derivatives. <i>Chemistry Letters</i> , 2011 , 40, 510-511	5.1	17
110	Concerted effect of large molecular dyes and bulky cobalt complex redox couple to retard recombination in dye-sensitized solar cells. <i>Electrochemistry Communications</i> , 2011 , 13, 778-780	5.1	26
109	Ph2P(O) Group for Protection of Terminal Acetylenes. <i>Synlett</i> , 2011 , 2011, 2402-2406	2.2	4
108	Enhancing the performance of quantum dots sensitized solar cell by SiO ₂ surface coating. <i>Applied Physics Letters</i> , 2010 , 96, 233107	3.4	91
107	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
106	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
105	Iterative Extension of Thiophene Ring Leading to Head-to-Tail-Type Oligothiophenes via Stepwise CH Arylation and Halogen Exchange Sequence. <i>Heterocycles</i> , 2010 , 82, 505	0.8	19
104	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
103	Molecular Design of Organic Dye toward Retardation of Charge Recombination at Semiconductor/Dye/Electrolyte Interface: Introduction of Twisted Linker. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 17920-17925	3.8	72
102	Single crystalline zinc stannate nanoparticles for efficient photo-electrochemical devices. <i>Chemical Communications</i> , 2010 , 46, 1529-31	5.8	106
101	Block copolymer templated nanoporous TiO ₂ for quantum-dot-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2010 , 20, 492-497		42
100	Development of Carbazole Dyes for Efficient Molecular Photovoltaics. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2010 , 68, 399-408	0.2	2
99	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
98	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
97	Organic Sensitizers Based on Hexylthiophene-Functionalized Indolo[3,2-b]carbazole for Efficient Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13409-13415	3.8	109
96	Robust dye-sensitized overall water splitting system with two-step photoexcitation of coumarin dyes and metal oxide semiconductors. <i>Chemical Communications</i> , 2009 , 3577-9	5.8	135
95	Substituted carbazole dyes for efficient molecular photovoltaics: long electron lifetime and high open circuit voltage performance. <i>Journal of Materials Chemistry</i> , 2009 , 19, 4829		121
94	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

93	Stepwise construction of head-to-tail-type oligothiophenes via iterative palladium-catalyzed CH arylation and halogen exchange. <i>Organic Letters</i> , 2009 , 11, 2297-300	6.2	67
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	Exploitation of Ionic Liquid Electrolyte for Dye-Sensitized Solar Cells by Molecular Modification of Organic-Dye Sensitizers. <i>Chemistry of Materials</i> , 2009 , 21, 2810-2816	9.6	75
90	Long-term stability of organic dye-sensitized solar cells based on an alkyl-functionalized carbazole dye. <i>Energy and Environmental Science</i> , 2009 , 2, 1109	35.4	100
89	Hexylthiophene-Functionalized Carbazole Dyes for Efficient Molecular Photovoltaics: Tuning of Solar-Cell Performance by Structural Modification. <i>Chemistry of Materials</i> , 2008 , 20, 3993-4003	9.6	582
88	Interfacial electron-transfer kinetics in metal-free organic dye-sensitized solar cells: combined effects of molecular structure of dyes and electrolytes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 17874-81	16.4	256
87	Molecular Design of Coumarin Dyes for Stable and Efficient Organic Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17011-17017	3.8	226
86	Alkyl-Functionalized Organic Dyes for Efficient Molecular Photovoltaics [J. Am. Chem. Soc. 2006, 128, 14256-14257]. <i>Journal of the American Chemical Society</i> , 2008 , 130, 4202-4203	16.4	33
85	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
84	Thiophene-Functionalized Coumarin Dye for Efficient Dye-Sensitized Solar Cells: Electron Lifetime Improved by Coadsorption of Deoxycholic Acid. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 7224-7230	3.8	458
83	A High-Light-Harvesting-Efficiency Coumarin Dye for Stable Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2007 , 19, 1138-1141	24	532
82	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
81	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
80	Femtosecond visible-to-IR spectroscopy of TiO ₂ nanocrystalline films: dynamics of UV-generated charge carrier relaxation at different excitation wavelengths 2007 ,		4
79	Mechanisms of plasmon-induced charge separation and recombination at gold nanoparticle supported on different size TiO ₂ film systems 2007 ,		2
78	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
77	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
76	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

75	Control of Measurement Environments for High-Efficiency Organic Photovoltaic Cells. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, L217-L219	1.4	27
74	Efficient Organic-Dye-Sensitized Nanocrystalline TiO ₂ Solar Cells 2006 ,		1
73	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
72	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
71	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
70	Investigation of optimum conditions for high-efficiency organic thin-film solar cells based on polymer blends. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006 , 182, 269-272	4.7	42
69	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
68	Alkyl-functionalized organic dyes for efficient molecular photovoltaics. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14256-7	16.4	793
67	Fabrication of Small-Molecular-Weight Organic Thin-Film Solar Cells by Combination of Wet and Dry Processes. <i>IEICE Transactions on Electronics</i> , 2006 , E89-C, 1771-1774	0.4	3
66	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
65	Dye-Sensitized Solar Cells 2005 , 663-700		19
64	Photophysical and (photo)electrochemical properties of a coumarin dye. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 3907-14	3.4	279
63	Oligothiophene-containing coumarin dyes for efficient dye-sensitized solar cells. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 15476-82	3.4	531
62	Electron transport in coumarin-dye-sensitized nanocrystalline TiO ₂ electrodes. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 23776-8	3.4	152
61	Novel Conjugated Organic Dyes for Efficient Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2005 , 15, 246-252	15.6	389
60	Characterization of Photovoltaic Performance of Dye-Sensitized Solar Cells. <i>Electrochemistry</i> , 2005 , 73, 887-896	1.2	10
59	Influence of electrolyte on the photovoltaic performance of a dye-sensitized TiO ₂ solar cell based on a Ru(II) terpyridyl complex photosensitizer. <i>Solar Energy Materials and Solar Cells</i> , 2004 , 85, 21-21	6.4	4
58	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

57	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
56	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
55	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
54	Effect of additives on the photovoltaic performance of coumarin-dye-sensitized nanocrystalline TiO ₂ solar cells. <i>Langmuir</i> , 2004 , 20, 4205-10	4	386
53	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	481
52	Novel and Efficient Organic Liquid Electrolytes for Dye-sensitized Solar Cells Based on a Ru(II) Terpyridyl Complex Photosensitizer. <i>Chemistry Letters</i> , 2003 , 32, 1014-1015	1.7	11
51	Design of new coumarin dyes having thiophene moieties for highly efficient organic-dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2003 , 27, 783-785	3.6	596
50	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
49	Nanocrystalline solar cells sensitized with monocarboxyl or dicarboxyl pyridylquinoline ruthenium(II) complexes. <i>Inorganica Chimica Acta</i> , 2003 , 351, 283-290	2.7	26
48	Dye-sensitized nanocrystalline TiO ₂ solar cells based on novel coumarin dyes. <i>Solar Energy Materials and Solar Cells</i> , 2003 , 77, 89-103	6.4	227
47	Efficient sensitization of nanocrystalline TiO ₂ films with cyanine and merocyanine organic dyes. <i>Solar Energy Materials and Solar Cells</i> , 2003 , 80, 47-71	6.4	271
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)n ²⁺ Aggregate Formation. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 2570-2574	3.4	201
44	Novel polyene dyes for highly efficient dye-sensitized solar cells. <i>Chemical Communications</i> , 2003 , 252-3	5.8	261
43	Panchromatic sensitization of nanocrystalline TiO ₂ with cis-Bis(4-carboxy-2-[2-(4-carboxypyridyl)]quinoline)bis(thiocyanato-N)ruthenium(II). <i>Inorganic Chemistry</i> , 2003 , 42, 7921-31	5.1	102
42	Current Status of Dye-Sensitized Solar Cells 2003 ,		3
41	Investigations on anodic photocurrent loss processes in dye sensitized solar cells: comparison between nanocrystalline SnO ₂ and TiO ₂ films. <i>Chemical Physics Letters</i> , 2002 , 364, 297-302	2.5	49
40	Effect of the Ligand Structure on the Efficiency of Electron Injection from Excited RuPhenanthroline Complexes to Nanocrystalline TiO ₂ Films. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 374-379	3.4	72

- 39 Quantitative Analysis of Light-Harvesting Efficiency and Electron-Transfer Yield in Ruthenium-Dye-Sensitized Nanocrystalline TiO₂ Solar Cells. *Chemistry of Materials*, **2002**, 14, 2527-2535 9.6 211
- 38 Efficient panchromatic sensitization of nanocrystalline TiO₂ films by β -diketonato ruthenium polypyridyl complexes. *New Journal of Chemistry*, **2002**, 26, 966-968 3.6 81
- 37 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 3.4 118
- 36 Photoelectrochemical Properties of J Aggregates of Benzothiazole Merocyanine Dyes on a Nanostructured TiO₂ Film. *Journal of Physical Chemistry B*, **2002**, 106, 1363-1371 3.4 334
- 35 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 4.7 44
- 34 Sensitization of nanocrystalline TiO₂ film by ruthenium(II) diimine dithiolate complexes. *Journal of Photochemistry and Photobiology A: Chemistry*, **2001**, 145, 135-141 4.7 52
- 33 Influence of electrolytes on the photovoltaic performance of organic dye-sensitized nanocrystalline TiO₂ solar cells. *Solar Energy Materials and Solar Cells*, **2001**, 70, 151-161 6.4 138
- 32 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. *Inorganica Chimica Acta*, **2001**, 322, 7-16 2.7 38
- 31 A coumarin-derivative dye sensitized nanocrystalline TiO₂ solar cell having a high solar-energy conversion efficiency up to 5.6%. *Chemical Communications*, **2001**, 569-570 5.8 523
- 30 Dye-Sensitized Nanocrystalline TiO₂ Solar Cells Based on Ruthenium(II) Phenanthroline Complex Photosensitizers. *Langmuir*, **2001**, 17, 5992-5999 4 162
- 29 Significant effects of the distance between the cyanine dye skeleton and the semiconductor surface on the photoelectrochemical properties of dye-sensitized porous semiconductor electrodes. *New Journal of Chemistry*, **2001**, 25, 200-202 3.6 69
- 28 Dye sensitization of nanocrystalline titanium dioxide with square planar platinum(II) diimine dithiolate complexes. *Inorganic Chemistry*, **2001**, 40, 5371-80 5.1 208
- 27 Electrochemical Preparation of Poly(3-thiopheneacetic acid) and Its n-Type Semiconductor Property. *Bulletin of the Chemical Society of Japan*, **2000**, 73, 583-587 5.1 6
- 26 Highly Efficient Photon-to-Electron Conversion of Mercurochrome-sensitized Nanoporous ZnO Solar Cells. *Chemistry Letters*, **2000**, 29, 316-317 1.7 58
- 25 Dual Electron Injection from Charge-Transfer Excited States of TiO₂-Anchored Ru(II)-4,4'-Dicarboxy-2,2'-biquinoline Complex. *Chemistry Letters*, **2000**, 29, 490-491 1.7 28
- 24 Highly efficient polypyridyl-ruthenium(II) photosensitizers with chelating oxygen donor ligands: β -diketonato-bis(dicarboxybipyridine)ruthenium. *Inorganica Chimica Acta*, **2000**, 310, 169-174 2.7 53
- 23 Semiconductor-sensitized solar cells based on nanocrystalline In₂S₃/In₂O₃ thin film electrodes. *Solar Energy Materials and Solar Cells*, **2000**, 62, 441-447 6.4 99
- 22 Highly efficient photon-to-electron conversion with mercurochrome-sensitized nanoporous oxide semiconductor solar cells. *Solar Energy Materials and Solar Cells*, **2000**, 64, 115-134 6.4 482

21	Steady hydrogen evolution from water on Eosin Y-fixed TiO ₂ photocatalyst using a silane-coupling reagent under visible light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2000 , 137, 63-69	4.7	230
20	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
19	A new efficient photosensitizer for nanocrystalline solar cells: synthesis and characterization of cis-bis(4,7-dicarboxy-1,10-phenanthroline)dithiocyanato ruthenium(II). <i>Dalton Transactions RSC</i> , 2000 , 2817-2822		82
18	New platinum(II) polypyridyl photosensitizers for TiO ₂ solar cells. <i>New Journal of Chemistry</i> , 2000 , 24, 343-345	3.6	64
17	Photosensitization of a porous TiO ₂ electrode with merocyanine dyes containing a carboxyl group and a long alkyl chain. <i>Chemical Communications</i> , 2000 , 1173-1174	5.8	290
16	Photocatalytic hydrogen and oxygen formation over SiO ₂ -supported RuS ₂ in the presence of sacrificial donor and acceptor. <i>Applied Catalysis A: General</i> , 1999 , 189, 127-137	5.1	36
15	UV photoinduced reduction of water to hydrogen in Na ₂ S, Na ₂ SO ₃ , and Na ₂ S ₂ O ₄ aqueous solutions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1999 , 128, 27-31	4.7	39
14	Electrochemical reduction of CO ₂ by using metal supported gas diffusion electrode under high pressure. <i>Studies in Surface Science and Catalysis</i> , 1998 , 577-580	1.8	6
13	Photocatalytic Activity of RuS ₂ /SiO ₂ for Water Decomposition. <i>Chemistry Letters</i> , 1998 , 27, 387-388	1.7	5
12	Electrocatalytic Formation of CH ₄ from CO ₂ on a Pt Gas Diffusion Electrode. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 539-545	3.9	54
11	Electrocatalytic Fischer-Tropsch Reactions. Formation of Hydrocarbons and Oxygen-Containing Compounds from CO on a Pt Gas Diffusion Electrode. <i>Bulletin of the Chemical Society of Japan</i> , 1997 , 70, 745-754	5.1	11
10	Large Current Density CO ₂ Reduction under High Pressure Using Gas Diffusion Electrodes. <i>Bulletin of the Chemical Society of Japan</i> , 1997 , 70, 571-576	5.1	69
9	Reductive Electrochemical Decomposition of Chloroform on Metal Electrodes. <i>Chemistry Letters</i> , 1997 , 26, 131-132	1.7	37
8	Electrochemical CO ₂ reduction on a glassy carbon electrode under high pressure. <i>Journal of Electroanalytical Chemistry</i> , 1997 , 421, 1-4	4.1	51
7	Change in the product selectivity for the electrochemical CO ₂ reduction by adsorption of sulfide ion on metal electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1997 , 434, 239-243	4.1	33
6	Electrochemical Reduction of N ₂ O on Gas-Diffusion Electrodes. <i>Bulletin of the Chemical Society of Japan</i> , 1996 , 69, 2159-2162	5.1	13
5	Electrochemical reduction of high pressure carbon dioxide on Fe electrodes at large current density. <i>Journal of Electroanalytical Chemistry</i> , 1995 , 386, 257-260	4.1	30
4	Electrochemical reduction of carbon dioxide under high pressure on various electrodes in an aqueous electrolyte. <i>Journal of Electroanalytical Chemistry</i> , 1995 , 391, 141-147	4.1	221

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