

Yasuhiro Tachibana

List of Publications by Citations

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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.

83

papers

7,229

citations

36

h-index

85

g-index

88

ext. papers

7,783

ext. citations

7.1

avg, IF

5.81

L-index

#	Paper	IF	Citations
83	Artificial photosynthesis for solar water-splitting. <i>Nature Photonics</i> , 2012 , 6, 511-518	33.9	1484
82	Subpicosecond Interfacial Charge Separation in Dye-Sensitized Nanocrystalline Titanium Dioxide Films. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 20056-20062		736
81	Parameters Influencing Charge Recombination Kinetics in Dye-Sensitized Nanocrystalline Titanium Dioxide Films. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 538-547	3.4	582
80	Electron Injection and Recombination in Dye Sensitized Nanocrystalline Titanium Dioxide Films: A Comparison of Ruthenium Bipyridyl and Porphyrin Sensitizer Dyes. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 1198-1205	3.4	401
79	Charge Recombination Kinetics in Dye-Sensitized Nanocrystalline Titanium Dioxide Films under Externally Applied Bias. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 1745-1749	3.4	309
78	Dye-sensitized solar cells based on WO ₃ . <i>Langmuir</i> , 2010 , 26, 19148-52	4	293
77	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
76	Quantitative Analysis of Light-Harvesting Efficiency and Electron-Transfer Yield in Ruthenium-Dye-Sensitized Nanocrystalline TiO ₂ Solar Cells. <i>Chemistry of Materials</i> , 2002 , 14, 2527-2535	9.6	211
75	Dye regeneration kinetics in dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2012 , 134, 16925-8	16.4	202
74	Charge Separation in Solid-State Dye-Sensitized Heterojunction Solar Cells. <i>Journal of the American Chemical Society</i> , 1999 , 121, 7445-7446	16.4	179
73	Application of the tris(acetylacetonato)iron(III)/(II) redox couple in p-type dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 3758-62	16.4	169
72	Dye-Sensitized Nanocrystalline TiO ₂ Solar Cells Based on Ruthenium(II) Phenanthroline Complex Photosensitizers. <i>Langmuir</i> , 2001 , 17, 5992-5999	4	162
71	Modulation of the Rate of Electron Injection in Dye-Sensitized Nanocrystalline TiO ₂ Films by Externally Applied Bias. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 7424-7431	3.4	162
70	Origin of surface trap states in CdS quantum dots: relationship between size dependent photoluminescence and sulfur vacancy trap states. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 2850-8	3.6	157
69	CdS Quantum Dots Sensitized TiO ₂ Sandwich Type Photoelectrochemical Solar Cells. <i>Chemistry Letters</i> , 2007 , 36, 88-89	1.7	140
68	Near-infrared absorbing Cu ₁₂ Sb ₄ S ₁₃ and Cu ₃ Sb ₅ S ₄ nanocrystals: synthesis, characterization, and photoelectrochemistry. <i>Journal of the American Chemical Society</i> , 2013 , 135, 11562-71	16.4	135
67	Comment on Measurement of Ultrafast Photoinduced Electron Transfer from Chemically Anchored RuDye Molecules into Empty Electronic States in a Colloidal Anatase TiO ₂ Film. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 3649-3650	3.4	104

66	Performance improvement of CdS quantum dots sensitized TiO ₂ solar cells by introducing a dense TiO ₂ blocking layer. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 102002	3	86
65	Electron injection kinetics for the nanocrystalline TiO ₂ films sensitised with the dye (Bu ₄ N) ₂ Ru(dcbpyH) ₂ (NCS) ₂ . <i>Chemical Physics</i> , 2002 , 285, 127-132	2.3	85
64	Synthesis and characterisation of famatinite copper antimony sulfide nanocrystals. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11466		81
63	Efficient panchromatic sensitization of nanocrystalline TiO ₂ films by β -diketonato ruthenium polypyridyl complexes. <i>New Journal of Chemistry</i> , 2002 , 26, 966-968	3.6	81
62	Wafer-Scale Synthesis of Semiconducting SnO Monolayers from Interfacial Oxide Layers of Metallic Liquid Tin. <i>ACS Nano</i> , 2017 , 11, 10974-10983	16.7	80
61	Transient luminescence studies of electron injection in dye sensitised nanocrystalline TiO ₂ films. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001 , 142, 215-220	4.7	77
60	Dominating Energy Losses in NiO p-Type Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1401387	21.8	67
59	Improved Photovoltages for p-Type Dye-Sensitized Solar Cells Using CuCrO ₂ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16375-16379	3.8	62
58	Charge Recombination Kinetics at an in Situ Chemical Bath-Deposited CdS/Nanocrystalline TiO ₂ Interface. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 6852-6858	3.8	54
57	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
56	Controlling surface reactions of CdS nanocrystals: photoluminescence activation, photoetching and photostability under light irradiation. <i>Nanotechnology</i> , 2007 , 18, 465702	3.4	52
55	Photo-excitation intensity dependent electron and hole injections from lead iodide perovskite to nanocrystalline TiO ₂ and spiro-OMeTAD. <i>Chemical Communications</i> , 2016 , 52, 673-6	5.8	50
54	Enhancement of phosphorescence and unimolecular behavior in the solid state by perfect insulation of platinum-acetylide polymers. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14714-7	16.4	49
53	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
52	Sub-picosecond Equilibration of Excitation Energy in Isolated Photosystem II Reaction Centers Revisited: Time-Dependent Anisotropy. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 10469-10478		45
51	Indium tin oxide as a semiconductor material in efficient p-type dye-sensitized solar cells. <i>NPG Asia Materials</i> , 2016 , 8, e305-e305	10.3	43
50	Dye-Anchoring Functional Groups on the Performance of Dye-Sensitized Solar Cells: Comparison between Alkoxysilyl and Carboxyl Groups. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 28425-28434	3.8	37
49	Optical simulation of transmittance into a nanocrystalline anatase TiO ₂ film for solar cell applications. <i>Solar Energy Materials and Solar Cells</i> , 2007 , 91, 201-206	6.4	37

48	Semiconductor Quantum Dot Sensitized Solar Cells Based on Ferricyanide/Ferrocyanide Redox Electrolyte Reaching an Open Circuit Photovoltage of 0.8 V. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 13957-65	9.5	37
47	Photoinduced Formation of Polythiophene/TiO ₂ Nanohybrid Heterojunction Films for Solar Cell Applications. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 4767-4775	3.8	36
46	The Excitation Wavelength and Solvent Dependence of the Kinetics of Electron Injection in Ru(dcbpy) ₂ (NCS) ₂ Sensitized Nanocrystalline TiO ₂ Films. <i>Zeitschrift Fur Physikalische Chemie</i> , 1999 , 212, 93-98	3.1	36
45	Tuning of the fluorescence wavelength of CdTe quantum dots with 2 nm resolution by size-selective photoetching. <i>Nanotechnology</i> , 2009 , 20, 215302	3.4	34
44	Dye-sensitized solar cells based on nanocrystalline TiO ₂ sensitized with a novel pyridylquinoline ruthenium(II) complex. <i>New Journal of Chemistry</i> , 2002 , 26, 963-965	3.6	30
43	Identifying an Optimum Perovskite Solar Cell Structure by Kinetic Analysis: Planar, Mesoporous Based, or Extremely Thin Absorber Structure. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3722-3732	6.1	29
42	Polyacrylic acid coating of highly luminescent CdS nanocrystals for biological labeling applications. <i>Journal of Colloid and Interface Science</i> , 2008 , 324, 257-60	9.3	23
41	Monodisperse and size-tunable PbS colloidal quantum dots via heterogeneous precursors. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2182-2187	7.1	21
40	Application of the Tris(acetylacetonato)iron(III)/(II) Redox Couple in p-Type Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2015 , 127, 3829-3833	3.6	21
39	Electron Injection Dynamics at the SILAR Deposited CdS Quantum Dot/TiO ₂ Interface. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 20357-20362	3.8	21
38	Photodeposition of Pt on composite films of Nafion and conducting polymer and O ₂ reduction using the composite film-coated electrode. <i>Electrochimica Acta</i> , 2004 , 50, 749-754	6.7	17
37	Light Intensity Dependence of Performance of Lead Halide Perovskite Solar Cells. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2017 , 30, 577-582	0.7	16
36	One-step Preparation and Photosensitivity of Size-quantized Cadmium Chalcogenide Nanoparticles Deposited on Porous Zinc Oxide Film Electrodes. <i>Chemistry Letters</i> , 2007 , 36, 712-713	1.7	15
35	Solution-Processable, Solid State Donor-Acceptor Materials for Singlet Fission. <i>Advanced Energy Materials</i> , 2018 , 8, 1801720	21.8	15
34	Fluorene-Thiophene Copolymer Wire on TiO ₂ : Mechanism Achieving Long Charge Separated State Lifetimes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 25672-25681	3.8	12
33	Organic conducting wire formation on a TiO ₂ nanocrystalline structure: towards long-lived charge separated systems. <i>Chemical Communications</i> , 2009 , 4360-2	5.8	12
32	Photoelectrochemistry of p-type Cu ₂ O semiconductor electrode in ionic liquid. <i>Research on Chemical Intermediates</i> , 2006 , 32, 575-583	2.8	11
31	Developing sustainable, high-performance perovskites in photocatalysis: design strategies and applications. <i>Chemical Society Reviews</i> , 2021 ,	58.5	10

30	The Performance-Determining Role of Lewis Bases in Dye-Sensitized Solar Cells Employing Copper-Bisphenanthroline Redox Mediators. <i>Advanced Energy Materials</i> , 2020 , 10, 2002067	21.8	10
29	Insulated conjugated bimetallopolymer with sigmoidal response by dual self-controlling system as a biomimetic material. <i>Nature Communications</i> , 2020 , 11, 408	17.4	9
28	Hetero Face-to-Face Porphyrin Array with Cooperative Effects of Coordination and Host-Guest Complexation. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 1900-1904	4.5	7
27	Concerted Ion Migration and Diffusion-Induced Degradation in Lead-Free Ag ₃ BiI ₆ Rudorffite Solar Cells under Ambient Conditions. <i>Solar Rrl</i> , 2021 , 5, 2100077	7.1	7
26	Liquid Crystallinity as a Self-Assembly Motif for High-Efficiency, Solution-Processed, Solid-State Singlet Fission Materials. <i>Advanced Energy Materials</i> , 2019 , 9, 1901069	21.8	6
25	Organic/inorganic hybrid electrochromic devices based on photoelectrochemically formed polypyrrole/TiO ₂ nanohybrid films. <i>Journal of Materials Chemistry</i> , 2012 ,		6
24	Excitation Wavelength Dependent Interfacial Charge Transfer Dynamics in a CH ₃ NH ₃ PbI ₃ Perovskite Film. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2018 , 31, 633-642	0.7	6
23	Conducting Pattern Formation of Electrochemically Polymerized Thiophene in an Organopolysilane Film Imaged by Ultra-Violet Light. <i>Chemistry Letters</i> , 1994 , 23, 1119-1122	1.7	5
22	Experimental observation of multiple trapping/charge separation steps in the isolated PS2 reaction centre 1995 , 883-886		5
21	Complementary Color Tuning by HCl via Phosphorescence-to-Fluorescence Conversion on Insulated Metallopolymer Film and Its Light-Induced Acceleration. <i>Polymers</i> , 2020 , 12,	4.5	3
20	Electrocatalytic Activity of Pt and Ru Photodeposited Polyaniline Electrodes for Methanol Oxidation. <i>Electrochemistry</i> , 2007 , 75, 39-44	1.2	3
19	Novel Offset Printing without a Developing Process Utilizing the UV-Photodecomposition of Polysilane. <i>Bulletin of the Chemical Society of Japan</i> , 1998 , 71, 2005-2009	5.1	3
18	Interfacial electron transfer mechanisms in bithiophene sensitized TiO ₂ based solar cells. <i>Transactions of the Materials Research Society of Japan</i> , 2008 , 33, 161-164	0.2	3
17	Investigation of the Effect of Pt Location in Catalyst Layer on Fuel Cell Performance Using Pt-photodeposited Polyaniline-Nafion Composite Film. <i>Electrochemistry</i> , 2005 , 73, 1021-1025	1.2	3
16	Synthesis of Insulated Heteroaromatic Platinum-Acetylide Complexes with Color-Tunable Phosphorescence in Solution and Solid States. <i>Journal of Organic Chemistry</i> , 2020 , 85, 3082-3091	4.2	3
15	Electron Injection from a CdS Quantum Dot to a TiO ₂ Conduction Band as an Efficiency Limiting Process: Comparison of QD Depositions between SILAR and Linker Assisted Attachment. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2016 , 29, 357-362	0.7	3
14	Primary photocatalytic water reduction and oxidation at an anatase TiO ₂ and Pt-TiO ₂ nanocrystalline electrode revealed by quantitative transient absorption studies. <i>Applied Catalysis B: Environmental</i> , 2021 , 296, 120226	21.8	3
13	Surface Modification of Photoluminescent CdS Nanocrystals Inducing Spontaneous Phase Transfer Reaction. <i>Chemistry Letters</i> , 2005 , 34, 1300-1301	1.7	2

12	Functional metal oxide ceramics as electron transport medium in photovoltaics and photo-electrocatalysis 2020 , 207-273		2
11	Quantum dot sensitized solar cells 2008 ,		1
10	Photoinduced Charge Carrier Dynamics of Metal Chalcogenide Semiconductor Quantum Dot Sensitized TiO ₂ Film for Photovoltaic Application. <i>Journal of Photopolymer Science and Technology</i> = [<i>Fotoporima Konwakai Shi</i>], 2021 , 34, 271-278	0.7	1
9	Influence of Hole Mobility on Charge Separation and Recombination Dynamics at Lead Halide Perovskite and Spiro-OMeTAD Interface. <i>Journal of Photopolymer Science and Technology</i> = [<i>Fotoporima Konwakai Shi</i>], 2019 , 32, 727-733	0.7	1
8	Pattern Coloring of UV-Light Imaged Polysilane Films Using Electrochemical Deposition of Pigment Micelle. <i>Chemistry Letters</i> , 1996 , 25, 167-168	1.7	0
7	Optical properties of a conjugated-polymer-sensitized solar cell: the effect of interfacial structure. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 14489-94	3.6	
6	?????????????????. <i>Electrochemistry</i> , 2011 , 79, 112-115	1.2	
5	Preparation and Characteristic Control of Conducting Polymer/Metal Oxide Nano-Hybrid Films for Solar Energy Conversion. <i>Ceramic Engineering and Science Proceedings</i> , 35-49	0.1	
4	Interfacial Electron Transfer Reactions in CdS Quantum Dot Sensitized TiO ₂ Nanocrystalline Electrodes 239-264		
3	Addition of Capacitor Property into Polymer Electrolyte Fuel Cell by Using Composite of Conducting Polymer and Pt-deposited Carbon. <i>Electrochemistry</i> , 2006 , 74, 394-396	1.2	
2	Photoselective Excitation of P680 ? 1995 , 607-610		
1	The catalytic decomposition of carbon dioxide on zinc-exchanged Y-zeolite at low temperatures. <i>Journal of Chemical Technology and Biotechnology</i> , 2021 , 96, 2675-2680	3.5	