# Kohjiro Hara

## List of Publications by Citations



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|---|---|---|---|
| 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 | Molecular Design of Coumarin Dyes for Efficient Dye-Sensitized Solar Cells. *Journal of Physical Chemistry B*, **2003**, 107, 597-606 | 3.4 | 936 |
| 145 | Alkyl-functionalized organic dyes for efficient molecular photovoltaics. *Journal of the American Chemical Society*, **2006**, 128, 14256-7 | 16.4 | 793 |
| 144 | Ultrafast plasmon-induced electron transfer from gold nanodots into TiO2 nanoparticles. *Journal of the American Chemical Society*, **2007**, 129, 14852-3 | 16.4 | 765 |
| 143 | Design of new coumarin dyes having thiophene moieties for highly efficient organic-dye-sensitized solar cells. *New Journal of Chemistry*, **2003**, 27, 783-785 | 3.6 | 596 |
| 142 | Hexylthiophene-Functionalized Carbazole Dyes for Efficient Molecular Photovoltaics: Tuning of Solar-Cell Performance by Structural Modification. *Chemistry of Materials*, **2008**, 20, 3993-4003 | 9.6 | 582 |
| 141 | A High-Light-Harvesting-Efficiency Coumarin Dye for Stable Dye-Sensitized Solar Cells. *Advanced Materials*, **2007**, 19, 1138-1141 | 24 | 532 |
| 140 | Oligothiophene-containing coumarin dyes for efficient dye-sensitized solar cells. *Journal of Physical Chemistry B*, **2005**, 109, 15476-82 | 3.4 | 531 |
| 139 | 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 |
| 138 | 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 |
| 137 | Efficiencies of Electron Injection from Excited N3 Dye into Nanocrystalline Semiconductor (ZrO2, TiO2, ZnO, Nb2O5, SnO2, In2O3) Films. *Journal of Physical Chemistry B*, **2004**, 108, 4818-4822 | 3.4 | 481 |
| 136 | Thiophene-Functionalized Coumarin Dye for Efficient Dye-Sensitized Solar Cells: Electron Lifetime Improved by Coadsorption of Deoxycholic Acid. *Journal of Physical Chemistry C*, **2007**, 111, 7224-7230 | 3.8 | 458 |
| 135 | Identification of Reactive Species in Photoexcited Nanocrystalline TiO2 Films by Wide-Wavelength-Range (400–1500 nm) Transient Absorption Spectroscopy. *Journal of Physical Chemistry B*, **2004**, 108, 3817-3823 | 3.4 | 405 |
| 134 | Novel Conjugated Organic Dyes for Efficient Dye-Sensitized Solar Cells. *Advanced Functional Materials*, **2005**, 15, 246-252 | 15.6 | 389 |
| 133 | Effect of additives on the photovoltaic performance of coumarin-dye-sensitized nanocrystalline TiO2 solar cells. *Langmuir*, **2004**, 20, 4205-10 | 4 | 386 |
| 132 | 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 |
| 131 | Photosensitization of a porous TiO2 electrode with merocyanine dyes containing a carboxyl group and a long alkyl chain. *Chemical Communications*, **2000**, 1173-1174 | 5.8 | 290 |
| 130 | Direct observation of reactive trapped holes in TiO2 undergoing photocatalytic oxidation of adsorbed alcohols: evaluation of the reaction rates and yields. *Journal of the American Chemical Society*, **2006**, 128, 416-7 | 16.4 | 280 |

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| 129 | Photophysical and (photo)electrochemical properties of a coumarin dye. *Journal of Physical Chemistry B*, **2005**, 109, 3907-14 | 3.4 | 279 |
| 128 | Efficient sensitization of nanocrystalline TiO2 films with cyanine and merocyanine organic dyes. *Solar Energy Materials and Solar Cells*, **2003**, 80, 47-71 | 6.4 | 271 |
| 127 | Novel polyene dyes for highly efficient dye-sensitized solar cells. *Chemical Communications*, **2003**, 252-3 | 5.8 | 261 |
| 126 | Interfacial electron-transfer kinetics in metal-free organic dye-sensitized solar cells: combined effects of molecular structure of dyes and electrolytes. *Journal of the American Chemical Society*, **2008**, 130, 17874-81 | 16.4 | 256 |
| 125 | Dynamics of efficient electron-hole separation in TiO2 nanoparticles revealed by femtosecond transient absorption spectroscopy under the weak-excitation condition. *Physical Chemistry Chemical Physics*, **2007**, 9, 1453-60 | 3.6 | 234 |
| 124 | Steady hydrogen evolution from water on Eosin Y-fixed TiO2 photocatalyst using a silane-coupling reagent under visible light irradiation. *Journal of Photochemistry and Photobiology A: Chemistry*, **2000**, 137, 63-69 | 4.7 | 230 |
| 123 | Dye-sensitized nanocrystalline TiO2 solar cells based on novel coumarin dyes. *Solar Energy Materials and Solar Cells*, **2003**, 77, 89-103 | 6.4 | 227 |
| 122 | Molecular Design of Coumarin Dyes for Stable and Efficient Organic Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2008**, 112, 17011-17017 | 3.8 | 226 |
| 121 | Electrochemical reduction of carbon dioxide under high pressure on various electrodes in an aqueous electrolyte. *Journal of Electroanalytical Chemistry*, **1995**, 391, 141-147 | 4.1 | 221 |
| 120 | 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 |
| 119 | Plasmon-Induced Charge Separation and Recombination Dynamics in Gold□TiO2 Nanoparticle Systems: Dependence on TiO2 Particle Size. *Journal of Physical Chemistry C*, **2009**, 113, 6454-6462 | 3.8 | 209 |
| 118 | Dye sensitization of nanocrystalline titanium dioxide with square planar platinum(II) diimine dithiolate complexes. *Inorganic Chemistry*, **2001**, 40, 5371-80 | 5.1 | 208 |
| 117 | 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. *Journal of the American Chemical Society*, **2013**, 135, 16872-84 | 16.4 | 203 |
| 116 | Electron Injection Efficiency from Excited N3 into Nanocrystalline ZnO Films: Effect of (N3□Zn2+) Aggregate Formation. *Journal of Physical Chemistry B*, **2003**, 107, 2570-2574 | 3.4 | 201 |
| 115 | Dye-Sensitized Nanocrystalline TiO2 Solar Cells Based on Ruthenium(II) Phenanthroline Complex Photosensitizers. *Langmuir*, **2001**, 17, 5992-5999 | 4 | 162 |
| 114 | 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 | 3.8 | 158 |
| 113 | Electron transport in coumarin-dye-sensitized nanocrystalline TiO2 electrodes. *Journal of Physical Chemistry B*, **2005**, 109, 23776-8 | 3.4 | 152 |
| 112 | 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 |

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|---|---|---|---|
| 111 | Robust dye-sensitized overall water splitting system with two-step photoexcitation of coumarin dyes and metal oxide semiconductors. *Chemical Communications*, **2009**, 3577-9 | 5.8 | 135 |
| 110 | Substituted carbazole dyes for efficient molecular photovoltaics: long electron lifetime and high open circuit voltage performance. *Journal of Materials Chemistry*, **2009**, 19, 4829 | | 121 |
| 109 | Electrochemical Reduction of CO 2 on a Cu Electrode under High Pressure: Factors that Determine the Product Selectivity. *Journal of the Electrochemical Society*, **1994**, 141, 2097-2103 | 3.9 | 119 |
| 108 | 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 |
| 107 | Electrochemical reduction of high pressure CO2 at Pb, Hg and In electrodes in an aqueous KHCO3 solution. *Journal of Electroanalytical Chemistry*, **1995**, 394, 199-203 | 4.1 | 118 |
| 106 | Ultrafast Direct and Indirect Electron-Injection Processes in a Photoexcited Dye-Sensitized Nanocrystalline Zinc Oxide Film: The Importance of Exciplex Intermediates at the Surface. *Journal of Physical Chemistry B*, **2004**, 108, 12583-12592 | 3.4 | 116 |
| 105 | Organic Sensitizers Based on Hexylthiophene-Functionalized Indolo[3,2-b]carbazole for Efficient Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2009**, 113, 13409-13415 | 3.8 | 109 |
| 104 | Single crystalline zinc stannate nanoparticles for efficient photo-electrochemical devices. *Chemical Communications*, **2010**, 46, 1529-31 | 5.8 | 106 |
| 103 | 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, 16406-14 | 3.4 | 106 |
| 102 | Panchromatic sensitization of nanocrystalline TiO2 with cis-Bis(4-carboxy-2-[2Q(4Qcarboxypyridyl)]quinoline)bis(thiocyanato-N)ruthenium(II). *Inorganic Chemistry*, **2003**, 42, 7921-31 | 5.1 | 102 |
| 101 | Long-term stability of organicdye-sensitized solar cells based on an alkyl-functionalized carbazole dye. *Energy and Environmental Science*, **2009**, 2, 1109 | 35.4 | 100 |
| 100 | Semiconductor-sensitized solar cells based on nanocrystalline In 2 S 3 /In 2 O 3 thin film electrodes. *Solar Energy Materials and Solar Cells*, **2000**, 62, 441-447 | 6.4 | 99 |
| 99 | Highly stable sensitizer dyes for dye-sensitized solar cells: role of the oligothiophene moiety. *Energy and Environmental Science*, **2009**, 2, 542 | 35.4 | 98 |
| 98 | Ultrafast plasmon induced electron injection mechanism in goldTiO2 nanoparticle system. *Journal of Photochemistry and Photobiology C: Photochemistry Reviews*, **2013**, 15, 21-30 | 16.4 | 96 |
| 97 | 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 | 3.4 | 93 |
| 96 | Enhancing the performance of quantum dots sensitized solar cell by SiO2 surface coating. *Applied Physics Letters*, **2010**, 96, 233107 | 3.4 | 91 |
| 95 | Organic Dyes Containing Thieno[3,2-b]indole Donor for Efficient Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2010**, 114, 18283-18290 | 3.8 | 91 |
| 94 | Effect of the Particle Size on the Electron Injection Efficiency in Dye-Sensitized Nanocrystalline TiO2 Films Studied by Time-Resolved Microwave Conductivity (TRMC) Measurements. *Journal of Physical Chemistry C*, **2007**, 111, 10741-10746 | 3.8 | 82 |

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| 93 | A new efficient photosensitizer for nanocrystalline solar cells: synthesis and characterization of cis-bis(4,7-dicarboxy-1,10-phenanthroline)dithiocyanato ruthenium(II). *Dalton Transactions RSC*, **2000**, 2817-2822 | | 82 |
| 92 | Efficient panchromatic sensitization of nanocrystalline TiO2 films by diketonato ruthenium polypyridyl complexes. *New Journal of Chemistry*, **2002**, 26, 966-968 | 3.6 | 81 |
| 91 | Exploitation of Ionic Liquid Electrolyte for Dye-Sensitized Solar Cells by Molecular Modification of Organic-Dye Sensitizers. *Chemistry of Materials*, **2009**, 21, 2810-2816 | 9.6 | 75 |
| 90 | Nanocrystalline electrodes based on nanoporous-walled WO3 nanotubes for organic-dye-sensitized solar cells. *Langmuir*, **2011**, 27, 12730-6 | 4 | 74 |
| 89 | Molecular Design of Organic Dye toward Retardation of Charge Recombination at Semiconductor/Dye/Electrolyte Interface: Introduction of Twisted Linker. *Journal of Physical Chemistry C*, **2010**, 114, 17920-17925 | 3.8 | 72 |
| 88 | Effect of the Ligand Structure on the Efficiency of Electron Injection from Excited RuPhenanthroline Complexes to Nanocrystalline TiO2 Films. *Journal of Physical Chemistry B*, **2002**, 106, 374-379 | 3.4 | 72 |
| 87 | Large Current Density CO2Reduction under High Pressure Using Gas Diffusion Electrodes. *Bulletin of the Chemical Society of Japan*, **1997**, 70, 571-576 | 5.1 | 69 |
| 86 | 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 |
| 85 | High Efficiency Electrochemical Reduction of Carbon Dioxide under High Pressure on a Gas Diffusion Electrode Containing Pt Catalysts. *Journal of the Electrochemical Society*, **1995**, 142, L57-L59 | 3.9 | 69 |
| 84 | Stepwise construction of head-to-tail-type oligothiophenes via iterative palladium-catalyzed CH arylation and halogen exchange. *Organic Letters*, **2009**, 11, 2297-300 | 6.2 | 67 |
| 83 | 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 | 2.7 | 64 |
| 82 | New platinum(II) polypyridyl photosensitizers for TiO2 solar cells. *New Journal of Chemistry*, **2000**, 24, 343-345 | 3.6 | 64 |
| 81 | Potential-induced degradation in photovoltaic modules based on n-type single crystalline Si solar cells. *Solar Energy Materials and Solar Cells*, **2015**, 140, 361-365 | 6.4 | 62 |
| 80 | Highly Efficient Photon-to-Electron Conversion of Mercurochrome-sensitized Nanoporous ZnO Solar Cells. *Chemistry Letters*, **2000**, 29, 316-317 | 1.7 | 58 |
| 79 | Electrocatalytic Formation of CH 4 from CO 2 on a Pt Gas Diffusion Electrode. *Journal of the Electrochemical Society*, **1997**, 144, 539-545 | 3.9 | 54 |
| 78 | 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 | 3.9 | 54 |
| 77 | Highly efficient polypyridyl-ruthenium(II) photosensitizers with chelating oxygen donor ligands: diketonato-bis(dicarboxybipyridine)ruthenium. *Inorganica Chimica Acta*, **2000**, 310, 169-174 | 2.7 | 53 |
| 76 | 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 |

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| 75 | Electrochemical CO2 reduction on a glassy carbon electrode under high pressure. *Journal of Electroanalytical Chemistry*, **1997**, 421, 1-4 | 4.1 | 51 |
| 74 | Investigations on anodic photocurrent loss processes in dye sensitized solar cells: comparison between nanocrystalline SnO2 and TiO2 films. *Chemical Physics Letters*, **2002**, 364, 297-302 | 2.5 | 49 |
| 73 | 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, 6614-5 | 16.4 | 47 |
| 72 | 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 | 3.8 | 46 |
| 71 | Effect of pH on absorption spectra of photogenerated holes in nanocrystalline TiO2 films. *Chemical Physics Letters*, **2007**, 438, 268-273 | 2.5 | 46 |
| 70 | Potential-induced degradation of Cu(In,Ga)Se2photovoltaic modules. *Japanese Journal of Applied Physics*, **2015**, 54, 08KC13 | 1.4 | 44 |
| 69 | 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 |
| 68 | Crystalline Si photovoltaic modules based on TiO2-coated cover glass against potential-induced degradation. *RSC Advances*, **2014**, 4, 44291-44295 | 3.7 | 43 |
| 67 | Block copolymer templated nanoporous TiO2 for quantum-dot-sensitized solar cells. *Journal of Materials Chemistry*, **2010**, 20, 492-497 | | 42 |
| 66 | Investigation of optimum conditions for high-efficiency organic thin-film solar cells based on polymer blends. *Journal of Photochemistry and Photobiology A: Chemistry*, **2006**, 182, 269-272 | 4.7 | 42 |
| 65 | 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 | 3.4 | 40 |
| 64 | UV photoinduced reduction of water to hydrogen in Na2S, Na2SO3, and Na2S2O4 aqueous solutions. *Journal of Photochemistry and Photobiology A: Chemistry*, **1999**, 128, 27-31 | 4.7 | 39 |
| 63 | 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 | 4.7 | 38 |
| 62 | 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 |
| 61 | Reductive Electrochemical Decomposition of Chloroform on Metal Electrodes. *Chemistry Letters*, **1997**, 26, 131-132 | 1.7 | 37 |
| 60 | Photocatalytic hydrogen and oxygen formation over SiO2-supported RuS2 in the presence of sacrificial donor and acceptor. *Applied Catalysis A: General*, **1999**, 189, 127-137 | 5.1 | 36 |
| 59 | Electron injection dynamics in dye-sensitized semiconductor nanocrystalline films. *Surface Science Reports*, **2014**, 69, 389-441 | 12.9 | 33 |
| 58 | Change in the product selectivity for the electrochemical CO2 reduction by adsorption of sulfide ion on metal electrodes. *Journal of Electroanalytical Chemistry*, **1997**, 434, 239-243 | 4.1 | 33 |

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| 57 | Alkyl-Functionalized Organic Dyes for Efficient Molecular Photovoltaics [J. Am. Chem. Soc.2006,128, 14256□14257].. *Journal of the American Chemical Society*, **2008**, 130, 4202-4203 | 16.4 | 33 |
| 56 | Organic dyes with oligo-n-hexylthiophene for dye-sensitized solar cells: Relation between chemical structure of donor and photovoltaic performance. *Dyes and Pigments*, **2012**, 92, 1250-1256 | 4.6 | 32 |
| 55 | Carbazole Dyes with Alkyl-functionalized Thiophenes for Dye-sensitized Solar Cells: Relation between Alkyl Chain Length and Photovoltaic Performance. *Chemistry Letters*, **2011**, 40, 872-873 | 1.7 | 32 |
| 54 | Reaction of holes in nanocrystalline TiO2 films evaluated by highly sensitive transient absorption spectroscopy. *Catalysis Today*, **2007**, 120, 214-219 | 5.3 | 32 |
| 53 | Alternation of Charge Injection and Recombination in Dye-Sensitized Solar Cells by the Addition of Nonconjugated Bridge to Organic Dyes. *Journal of Physical Chemistry C*, **2013**, 117, 2024-2031 | 3.8 | 31 |
| 52 | Novel lighter weight crystalline silicon photovoltaic module using acrylic-film as a cover sheet. *Japanese Journal of Applied Physics*, **2014**, 53, 092302 | 1.4 | 30 |
| 51 | Synthesis and Properties of Seleno-analog MK-organic Dye for Photovoltaic Cells Prepared by C□H Functionalization Reactions of Selenophene Derivatives. *Chemistry Letters*, **2011**, 40, 922-924 | 1.7 | 30 |
| 50 | Electrochemical reduction of high pressure carbon dioxide on Fe electrodes at large current density. *Journal of Electroanalytical Chemistry*, **1995**, 386, 257-260 | 4.1 | 30 |
| 49 | Relationship between cross-linking conditions of ethylene vinyl acetate and potential induced degradation for crystalline silicon photovoltaic modules. *Japanese Journal of Applied Physics*, **2015**, 54, 08KG01 | 1.4 | 29 |
| 48 | Investigation on antireflection coating for high resistance to potential-induced degradation. *Japanese Journal of Applied Physics*, **2014**, 53, 03CE01 | 1.4 | 29 |
| 47 | Development of Carbazole Dyes for Efficient Molecular Photovoltaics. *Heterocycles*, **2013**, 87, 275 | 0.8 | 29 |
| 46 | Crystalline Si photovoltaic modules functionalized by a thin polyethylene film against potential and damp-heat-induced degradation. *RSC Advances*, **2015**, 5, 15017-15023 | 3.7 | 28 |
| 45 | 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 |
| 44 | Control of Measurement Environments for High-Efficiency Organic Photovoltaic Cells. *Japanese Journal of Applied Physics*, **2006**, 45, L217-L219 | 1.4 | 27 |
| 43 | Microscopic aspects of potential-induced degradation phenomena and their recovery processes for p-type crystalline Si photovoltaic modules. *Current Applied Physics*, **2016**, 16, 1659-1665 | 2.6 | 27 |
| 42 | Concerted effect of large molecular dyes and bulky cobalt complex redox couple to retard recombination in dye-sensitized solar cells. *Electrochemistry Communications*, **2011**, 13, 778-780 | 5.1 | 26 |
| 41 | Nanocrystalline solar cells sensitized with monocarboxyl or dicarboxyl pyridylquinoline ruthenium(II) complexes. *Inorganica Chimica Acta*, **2003**, 351, 283-290 | 2.7 | 26 |
| 40 | Influence of surface structure of n-type single-crystalline Si solar cells on potential-induced degradation. *Solar Energy Materials and Solar Cells*, **2017**, 166, 132-139 | 6.4 | 24 |

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| 39 | Synthesis and photo-electrochemical properties of novel thienopyrazine and quinoxaline derivatives, and their dye-sensitized solar cell performance. *Organic Electronics*, **2012**, 13, 3097-3101 | 3.5 | 22 |
| 38 | Plasmon induced electron transfer at gold□TiO2 interface under femtosecond near-IR two-photon excitation. *Thin Solid Films*, **2009**, 518, 861-864 | 2.2 | 22 |
| 37 | 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 | 4.7 | 22 |
| 36 | Effect of excitation wavelength on electron injection efficiency in dye-sensitized nanocrystalline TiO2 and ZrO2 films. *Comptes Rendus Chimie*, **2006**, 9, 639-644 | 2.7 | 20 |
| 35 | Near-IR transient absorption spectra of N3 dye as a probe of aggregation on nanocrystalline semiconductor films. *Chemical Physics Letters*, **2006**, 423, 417-421 | 2.5 | 20 |
| 34 | Iterative Extension of Thiophene Ring Leading to Head-to-Tail-Type Oligothiophenes via Stepwise CH Arylation and Halogen Exchange Sequence. *Heterocycles*, **2010**, 82, 505 | 0.8 | 19 |
| 33 | Dye-Sensitized Solar Cells **2005**, 663-700 | | 19 |
| 32 | Enhanced performance of dye-sensitized solar cells with novel 2,6-diphenyl-4H-pyranylidene dyes. *Organic Electronics*, **2012**, 13, 425-431 | 3.5 | 17 |
| 31 | Synthesis and Properties of 9,10-Anthrylene-substituted Phenyleneethynylene Dyes for Dye-sensitized Solar Cell. *Chemistry Letters*, **2011**, 40, 620-622 | 1.7 | 14 |
| 30 | Dye-sensitized Solar Cells Based on Novel Diphenylpyran Derivatives. *Chemistry Letters*, **2011**, 40, 510-511 | 1.7 | 14 |
| 29 | Synthesis and Properties of Anthrylene-Substituted Phenyleneethynylene Dyes Having Amino/Cyano Group(s) and Their Application to Dye-Sensitized Solar Cells. *Bulletin of the Chemical Society of Japan*, **2012**, 85, 687-697 | 5.1 | 13 |
| 28 | Electrochemical Reduction of N2O on Gas-Diffusion Electrodes. *Bulletin of the Chemical Society of Japan*, **1996**, 69, 2159-2162 | 5.1 | 13 |
| 27 | Plasma-enhanced chemical-vapor deposition of silicon nitride film for high resistance to potential-induced degradation. *Japanese Journal of Applied Physics*, **2015**, 54, 08KD12 | 1.4 | 12 |
| 26 | Electrocatalytic Fischer□Tropsch Reactions. Formation of Hydrocarbons and Oxygen-Containing Compounds from CO on a Pt Gas Diffusion Electrode. *Bulletin of the Chemical Society of Japan*, **1997**, 70, 745-754 | 5.1 | 11 |
| 25 | Novel and Efficient Organic Liquid Electrolytes for Dye-sensitized Solar Cells Based on a Ru(II) Terpyridyl Complex Photosensitizer. *Chemistry Letters*, **2003**, 32, 1014-1015 | 1.7 | 11 |
| 24 | Characterization of Photovoltaic Performance of Dye-Sensitized Solar Cells. *Electrochemistry*, **2005**, 73, 887-896 | 1.2 | 10 |
| 23 | Chemically strengthened cover glass for preventing potential induced degradation of crystalline silicon solar cells **2013**, | | 9 |
| 22 | Durable crystalline Si photovoltaic modules based on silicone-sheet encapsulants. *Japanese Journal of Applied Physics*, **2018**, 57, 027101 | 1.4 | 8 |

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| 21 | Deceleration of dye cation reduction kinetics by adding alkyl chains to the Econjugated linker of dye molecules. *Japanese Journal of Applied Physics*, **2014**, 53, 127301 | 1.4 | 7 |
| 20 | 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 |
| 19 | Electrochemical reduction of CO2 by using metal supported gas diffusion electrode under high pressure. *Studies in Surface Science and Catalysis*, **1998**, 577-580 | 1.8 | 6 |
| 18 | Dye-Sensitized Solar Cells **2011**, 642-674 | | 5 |
| 17 | Photocatalytic Activity of RuS2/SiO2for Water Decomposition. *Chemistry Letters*, **1998**, 27, 387-388 | 1.7 | 5 |
| 16 | Spectroscopic investigation of long-term outdoor-exposed crystalline silicon photovoltaic modules. *Journal of Photochemistry and Photobiology A: Chemistry*, **2021**, 404, 112891 | 4.7 | 5 |
| 15 | Ph2P(O) Group for Protection of Terminal Acetylenes. *Synlett*, **2011**, 2011, 2402-2406 | 2.2 | 4 |
| 14 | Femtosecond visible-to-IR spectroscopy of TiO 2 nanocrystalline films: dynamics of UV-generated charge carrier relaxation at different excitation wavelengths **2007**, | | 4 |
| 13 | Influence of electrolyte on the photovoltaic performance of a dye-sensitized TiO2 solar cell based on a Ru(II) terpyridyl complex photosensitizer. *Solar Energy Materials and Solar Cells*, **2004**, 85, 21-21 | 6.4 | 4 |
| 12 | Potential-induced degradation of n-type crystalline Si photovoltaic modules in practical outdoor systems. *Japanese Journal of Applied Physics*, **2018**, 57, 117102 | 1.4 | 4 |
| 11 | Current Status of Dye-Sensitized Solar Cells **2003**, | | 3 |
| 10 | Fabrication of Small-Molecular-Weight Organic Thin-Film Solar Cells by Combination of Wet and Dry Processes. *IEICE Transactions on Electronics*, **2006**, E89-C, 1771-1774 | 0.4 | 3 |
| 9 | Carbazole Dyes with Ether Groups for Dye-Sensitized Solar Cells: Effect of Negative Charges in Dye Molecules on Electron Lifetime. *Japanese Journal of Applied Physics*, **2012**, 51, 10NE14 | 1.4 | 2 |
| 8 | Mechanisms of plasmon-induced charge separation and recombination at gold nanoparticle supported on different size TiO 2 film systems **2007**, | | 2 |
| 7 | Development of Carbazole Dyes for Efficient Molecular Photovoltaics. *Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry*, **2010**, 68, 399-408 | 0.2 | 2 |
| 6 | Carbazole Dyes with Ether Groups for Dye-Sensitized Solar Cells: Effect of Negative Charges in Dye Molecules on Electron Lifetime. *Japanese Journal of Applied Physics*, **2012**, 51, 10NE14 | 1.4 | 2 |
| 5 | Durable crystalline silicon photovoltaic modules based on breathable structure. *Japanese Journal of Applied Physics*, **2021**, 60, 027001 | 1.4 | 2 |
| 4 | Efficient Organic-Dye-Sensitized Nanocrystalline TiO2 Solar Cells **2006**, | | 1 |

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| 3 | Raman spectroscopic analysis of encapsulants in aged photovoltaic modules. *Journal of Photochemistry and Photobiology A: Chemistry*, **2022**, 425, 113721 | 4.7 | 1 |
| 2 | Metal-doped titanium oxide films for suppressing potential-induced degradation of photovoltaic modules. *Journal of the Ceramic Society of Japan*, **2021**, 129, 625-630 | 1 | 0 |
| 1 | Durable polyolefin encapsulants in aged photovoltaic modules. *Journal of Photochemistry and Photobiology A: Chemistry*, **2022**, 114015 | 4.7 | |