Shogo Mori

List of Publications by Year
in descending order

75 papers	4,742 citations	126907 33 h-index	95266 68 g-index
77 all docs	77 docs citations	77 times ranked	4633 citing authors

#	Article	IF	Citations
1	Alkyl-Functionalized Organic Dyes for Efficient Molecular Photovoltaics. Journal of the American Chemical Society, 2006, 128, 14256-14257.	13.7	838
2	How the Nature of Triphenylamine-Polyene Dyes in Dye-Sensitized Solar Cells Affects the Open-Circuit Voltage and Electron Lifetimes. Langmuir, 2010, 26, 2592-2598.	3.5	359
3	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, 17874-17881.	13.7	263
4	Enhancement of Incident Photon-to-Current Conversion Efficiency for Phthalocyanine-Sensitized Solar Cells by 3D Molecular Structuralization. Journal of the American Chemical Society, 2010, 132, 4054-4055.	13.7	215
5	Porphyrins for dye-sensitised solar cells: new insights into efficiency-determining electron transfer steps. Chemical Communications, 2012, 48, 4145.	4.1	215
6	Znâˆ’Zn Porphyrin Dimer-Sensitized Solar Cells: Toward 3-D Light Harvesting. Journal of the American Chemical Society, 2009, 131, 15621-15623.	13.7	177
7	Highly efficient dye-sensitized SnO2 solar cells having sufficient electron diffusion length. Electrochemistry Communications, 2007, 9, 1439-1443.	4.7	172
8	Charge-Transfer Processes in Dye-Sensitized NiO Solar Cells. Journal of Physical Chemistry C, 2008, 112, 16134-16139.	3.1	164
9	Syntheses of NiO nanoporous films using nonionic triblock co-polymer templates and their application to photo-cathodes of p-type dye-sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 199, 1-7.	3.9	150
10	Dye Molecules for Simple Coâ€Sensitization Process: Fabrication of Mixedâ€Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2012, 51, 4371-4374.	13.8	149
11	Substituted carbazole dyes for efficient molecular photovoltaics: long electron lifetime and high open circuit voltage performance. Journal of Materials Chemistry, 2009, 19, 4829.	6.7	125
12	Molecular engineering of zinc phthalocyanine sensitizers for efficient dye-sensitized solar cells. Chemical Communications, 2014, 50, 1941.	4.1	116
13	Highly stable sensitizer dyes for dye-sensitized solar cells: role of the oligothiophene moiety. Energy and Environmental Science, 2009, 2, 542.	30.8	103
14	The origin of open circuit voltage of porphyrin-sensitised TiO2 solar cells. Chemical Communications, 2008, , 4741.	4.1	97
15	Photoelectrochemical characteristics of cells with dyed and undyed nanoporous p-type semiconductor CuO electrodes. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 194, 143-147.	3.9	92
16	Nanocrystalline Electrodes Based on Nanoporous-Walled WO₃ Nanotubes for Organic-Dye-Sensitized Solar Cells. Langmuir, 2011, 27, 12730-12736.	3.5	85
17	Exploitation of Ionic Liquid Electrolyte for Dye-Sensitized Solar Cells by Molecular Modification of Organic-Dye Sensitizers. Chemistry of Materials, 2009, 21, 2810-2816.	6.7	78
18	Molecular Design of Organic Dye toward Retardation of Charge Recombination at Semiconductor/Dye/Electrolyte Interface: Introduction of Twisted Ï€-Linker. Journal of Physical Chemistry C, 2010, 114, 17920-17925.	3.1	73

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19	Molecular Design Rule of Phthalocyanine Dyes for Highly Efficient Nearâ€IR Performance in Dyeâ€Sensitized Solar Cells. Chemistry - A European Journal, 2013, 19, 7496-7502.	3.3	73
20	Dye Aggregation Effect on Interfacial Electron-Transfer Dynamics in Zinc Phthalocyanine-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 17205-17212.	3.1	70
21	Oxidized Ti₃C₂MXene nanosheets for dye-sensitized solar cells. New Journal of Chemistry, 2018, 42, 16446-16450.	2.8	60
22	Electron-Accepting Ï€-Conjugated Systems for Organic Photovoltaics: Influence of Structural Modification on Molecular Orientation at Donorâ€“Acceptor Interfaces. Chemistry of Materials, 2016, 28, 1705-1713.	6.7	55
23	Coexistence of Femtosecond- and Nonelectron-Injecting Dyes in Dye-Sensitized Solar Cells: Inhomogeniety Limits the Efficiency. Journal of Physical Chemistry C, 2011, 115, 22084-22088.	3.1	53
24	Improved performance of porphyrin-based dye sensitised solar cells by phosphinic acid surface treatment. Energy and Environmental Science, 2009, 2, 1069.	30.8	49
25	Retardation of electron injection at NiO/dye/electrolyte interface by aluminium alkoxide treatment. Energy and Environmental Science, 2010, 3, 641.	30.8	48
26	Structural Effect of Donor in Organic Dye on Recombination in Dye-Sensitized Solar Cells with Cobalt Complex Electrolyte. Langmuir, 2014, 30, 2274-2279.	3.5	44
27	Light Intensity Independent Electron Transport and Slow Charge Recombination in Dye-Sensitized In₂O₃ Solar Cells: In Contrast to the Case of TiO₂. Journal of Physical Chemistry C, 2010, 114, 13113-13117.	3.1	43
28	Recombination inhibitive structure of organic dyes for cobalt complex redox electrolytes in dye-sensitised solar cells. Journal of Materials Chemistry A, 2013, 1, 792-798.	10.3	40
29	Improvement of TiO₂/Dye/Electrolyte Interface Conditions by Positional Change of Alkyl Chains in Modified Panchromatic Ru Complex Dyes. Chemistry - A European Journal, 2013, 19, 1028-1034.	3.3	37
30	Alkyl-Functionalized Organic Dyes for Efficient Molecular Photovoltaics [<i>J. Am. Chem. Soc.</i> 2006, <i>128</i>, 14256â^'14257].. Journal of the American Chemical Society, 2008, 130, 4202-4203.	13.7	36
31	Remarkable synergistic effects in a mixed porphyrin dye-sensitized TiO2 film. Applied Physics Letters, 2011, 98, .	3.3	33
32	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.	1.3	33
33	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.	3.1	33
34	Enhanced performance of dye-sensitized solar cells using carbazole-substituted di-chromophoric porphyrin dyes. Journal of Materials Chemistry A, 2014, 2, 16963-16977.	10.3	30
35	Enhancement of dye regeneration kinetics in dichromophoric porphyrinâ€“carbazole triphenylamine dyes influenced by more exposed radical cation orbitals. Chemical Science, 2016, 7, 3506-3516.	7.4	29
36	Electron Transport and Recombination in Dye-Sensitized TiO₂ Solar Cells Fabricated without Sintering Process. Journal of Physical Chemistry C, 2008, 112, 20505-20509.	3.1	28

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37	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.	4.7	28
38	Enhanced Charge Separation Efficiency in Pyridineâ€Anchored Phthalocyanineâ€Sensitized Solar Cells by Linker Elongation. Chemistry - an Asian Journal, 2015, 10, 2347-2351.	3.3	26
39	An Alkyloxyphenyl Group as a Sterically Hindered Substituent on a Triphenylamine Donor Dye for Effective Recombination Inhibition in Dye-Sensitized Solar Cells. Langmuir, 2016, 32, 1178-1183.	3.5	22
40	Three-dimensional electron-accepting compounds containing perylene bis(dicarboximide)s as n-type organic photovoltaic materials. Chemical Communications, 2013, 49, 8386.	4.1	20
41	Cation Exchange at Semiconducting Oxide Surfaces: Origin of Light-Induced Performance Increases in Porphyrin Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2013, 117, 11885-11898.	3.1	20
42	Structural Effects of the Donor Moiety on Reduction Kinetics of Oxidized Dye in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2016, 120, 3612-3618.	3.1	20
43	Discovery of SÂ·Â·Â·Câ‰¡N Intramolecular Bonding in a Thiophenylcyanoacrylate-Based Dye: Realizing Charge Transfer Pathways and DyeÂ·Â·Â·TiO₂ Anchoring Characteristics for Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 25952-25961.	8.0	20
44	Dichromophoric Zinc Porphyrins: Filling the Absorption Gap between the Soret and Q Bands. Journal of Physical Chemistry C, 2015, 119, 5350-5363.	3.1	19
45	Interfacial Charge Transfer in Dye-Sensitized Solar Cells Using SCN-Free Terpyridine-Coordinated Ru Complex Dye and Co Complex Redox Couples. ACS Applied Materials & Interfaces, 2016, 8, 16677-16683.	8.0	19
46	Exploiting Intermolecular Interactions between Alkyl-Functionalized Redox-Active Molecule Pairs to Enhance Interfacial Electron Transfer. Journal of the American Chemical Society, 2018, 140, 13935-13944.	13.7	18
47	A method to measure electron lifetime in dye-sensitized solar cells: Stepped current induced measurement of cell voltage in the dark. Electrochemistry Communications, 2011, 13, 1420-1422.	4.7	17
48	A Nonconjugated Bridge in Dimer-Sensitized Solar Cells Retards Charge Recombination without Decreasing Charge Injection Efficiency. ACS Applied Materials & Interfaces, 2013, 5, 10824-10829.	8.0	17
49	Charge Transport in Dye-Sensitized Solar Cells Based on Flame-made $hbox{TiO}_{m 2}$ Nanoparticles. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1641-1648.	2.9	16
50	The effect of bulky electron-donating thioether substituents on the performances of phthalocyanine based dye sensitized solar cells. Sustainable Energy and Fuels, 2021, 5, 584-589.	4.9	16
51	Enhanced Electron Lifetimes in Dye-Sensitized Solar Cells Using a Dichromophoric Porphyrin: The Utility of Intermolecular Forces. ACS Applied Materials & Interfaces, 2015, 7, 22078-22083.	8.0	14
52	Low-Symmetrical Zinc(II) Benzonaphthoporphyrazine Sensitizers for Light-Harvesting in Near-IR Region of Dye-Sensitized Solar Cells. Inorganic Chemistry, 2016, 55, 5014-5018.	4.0	13
53	Stepped light-induced transient measurements of photocurrent and voltage in dye-sensitized solar cells based on ZnO and ZnO:Ga. Journal of Applied Physics, 2009, 106, .	2.5	11
54	Quantifying Recombination Losses during Charge Extraction in Bulk Heterojunction Solar Cells Using a Modified Charge Extraction Technique. Advanced Energy Materials, 2017, 7, 1602026.	19.5	11

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55	An Increase in Energy Conversion Efficiency by Decreasing Cobalt Redox Electrolyte Diffusion Resistance in Dye-sensitized Solar Cells. Chemistry Letters, 2013, 42, 453-454.	1.3	10
56	Deceleration of dye cation reduction kinetics by adding alkyl chains to the Ï€-conjugated linker of dye molecules. Japanese Journal of Applied Physics, 2014, 53, 127301.	1.5	10
57	Significant Effect of Electronic Coupling on Electron Transfer between Surface-Bound Porphyrins and Co^{2+/3+} Complex Electrolytes. Journal of Physical Chemistry C, 2020, 124, 9178-9190.	3.1	10
58	Substrate-Dependent Electron-Transfer Rate of Mixed-Ligand Electrolytes: Tuning Electron-Transfer Rate without Changing Driving Force. Journal of the American Chemical Society, 2021, 143, 488-495.	13.7	9
59	The Effect of the Dielectric Environment on Electron Transfer Reactions at the Interfaces of Molecular Sensitized Semiconductors in Electrolytes. Journal of Physical Chemistry C, 2020, 124, 6979-6992.	3.1	8
60	Zinc phthalocyanine sensitizer having double carboxylic acid anchoring groups for dye-sensitized solar cells with cobalt(<scp>ii</scp>/<scp>iii</scp>)-based redox electrolyte. RSC Advances, 2015, 5, 82292-82295.	3.6	7
61	Enhancement of quantum efficiency by co-adsorbing small julolidine dye and bulky triphenylamine dye in dye-sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 356, 403-410.	3.9	7
62	TiO2-Based Dye-Sensitized Solar Cell. , 2006, , 193-225.		6
63	A Novel Covalently Linked Zn Phthalocyanineâ€Zn Porphyrin Dyad for Dyeâ€sensitized Solar Cells. Israel Journal of Chemistry, 2016, 56, 175-180.	2.3	6
64	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.	1.5	4
65	Lightâ€Harvesting in the Nearâ€Infrared Region: Dyeâ€Sensitized Solar Cells Sensitized with Asymmetric Ringâ€Expanded Zinc(II) Phthalocyanines. Asian Journal of Organic Chemistry, 2014, 3, 1083-1088.	2.7	4
66	Charge Transporting Properties and Output Characteristics in Polythiophene:Fullerene Derivative Solar Cells. Japanese Journal of Applied Physics, 2011, 50, 01BC13.	1.5	3
67	Organic Sensitizers Including Ï€-Conjugated Fluoreneâ€“Benzothiadiazole Bridge for Dye-sensitized Solar Cells. Chemistry Letters, 2012, 41, 1613-1615.	1.3	3
68	Structural Effect of the Pendant Unit in Thiocyanateâ€Free Ru^{II} Sensitizers on the Dyeâ€Sensitized Solar Cell Performance. European Journal of Inorganic Chemistry, 2017, 2017, 5041-5046.	2.0	3
69	Identification of the loss mechanisms in TiO2 and ZnO solar cells based on blue, piperidinyl-substituted, mono-anhydride perylene dyes. Electrochimica Acta, 2020, 355, 136638.	5.2	3
70	3D Structural Optimization of Zinc Phthalocyanine-Based Sensitizers for Enhancement of Open-Circuit Voltage of Dye-Sensitized Solar Cells. Energies, 2020, 13, 2288.	3.1	3
71	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.	1.5	3
72	High Voltage Flexible ZnO Solar Cells Employing Bulky Organic Dye and [Co(bpy)₃]^{2+/3+}Redox Electrolyte. Journal of the Electrochemical Society, 2018, 165, B3194-B3200.	2.9	2

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73	Molecular Geometry Dependent Electronic Coupling and Reorganization Energy for Electron Transfer between Dye Molecule Adsorbed on TiO2 Electrode and Co Complex in Electrolyte Solutions. Journal of Physical Chemistry C, 0, , .	3.1	2
74	Required Conditions for SLIM-PCV Methods to Measure Electron Diffusion Coefficients and Lifetime in Dye-Sensitized Solar Cells. Electrochemistry, 2012, 80, 886-890.	1.4	1
75	Molecular design strategy for realizing vectorial electron transfer in photoelectrodes. CheM, 2022, 8, 1121-1136.	11.7	1