Hiroshi Imahori

List of Publications by Year
in descending order

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443 papers	27,464 citations	4370 86 h-index	8835 145 g-index
483 all docs	483 docs citations	483 times ranked	16693 citing authors

#	Article	IF	Citations
1	Large Ï€-Aromatic Molecules as Potential Sensitizers for Highly Efficient Dye-Sensitized Solar Cells. Accounts of Chemical Research, 2009, 42, 1809-1818.	7.6	936
2	Donor-Linked Fullerenes: Photoinduced electron transfer and its potential application. Advanced Materials, 1997, 9, 537-546.	11.1	640
3	Modulating Charge Separation and Charge Recombination Dynamics in Porphyrinâ^'Fullerene Linked Dyads and Triads:Â Marcus-Normal versus Inverted Region. Journal of the American Chemical Society, 2001, 123, 2607-2617.	6.6	537
4	Porphyrins as excellent dyes for dye-sensitized solar cells: recent developments and insights. Dalton Transactions, 2015, 44, 448-463.	1.6	529
5	Charge Separation in a Novel Artificial Photosynthetic Reaction Center Lives 380 ms. Journal of the American Chemical Society, 2001, 123, 6617-6628.	6.6	500
6	Photovoltaic Cells Using Composite Nanoclusters of Porphyrins and Fullerenes with Gold Nanoparticles. Journal of the American Chemical Society, 2005, 127, 1216-1228.	6.6	454
7	Porphyrin- and Fullerene-Based Molecular Photovoltaic Devices. Advanced Functional Materials, 2004, 14, 525-536.	7.8	448
8	Light-Harvesting and Photocurrent Generation by Gold Electrodes Modified with Mixed Self-Assembled Monolayers of Boronâ^'Dipyrrin and Ferroceneâ^'Porphyrinâ^'Fullerene Triad. Journal of the American Chemical Society, 2001, 123, 100-110.	6.6	426
9	Fullerenes as Novel Acceptors in Photosynthetic Electron Transfer. European Journal of Organic Chemistry, 1999, 1999, 2445-2457.	1.2	394
10	Linkage and Solvent Dependence of Photoinduced Electron Transfer in Zincporphyrin-C60Dyads. Journal of the American Chemical Society, 1996, 118, 11771-11782.	6.6	389
11	Nanostructured artificial photosynthesis. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2003, 4, 51-83.	5.6	383
12	Sequential Energy and Electron Transfer in an Artificial Reaction Center:Â Formation of a Long-Lived Charge-Separated State. Journal of the American Chemical Society, 2000, 122, 6535-6551.	6.6	352
13	Giant Multiporphyrin Arrays as Artificial Light-Harvesting Antennas. Journal of Physical Chemistry B, 2004, 108, 6130-6143.	1.2	352
14	Porphyrinâ€"fullerene linked systems as artificial photosynthetic mimics. Organic and Biomolecular Chemistry, 2004, 2, 1425-1433.	1.5	339
15	Design and synthesis of phosphole-based Ï€ systems for novel organic materials. Organic and Biomolecular Chemistry, 2009, 7, 1258.	1.5	279
16	An Extremely Small Reorganization Energy of Electron Transfer in Porphyrinâ^'Fullerene Dyad. Journal of Physical Chemistry A, 2001, 105, 1750-1756.	1.1	275
17	Photovoltaic Properties of Self-Assembled Monolayers of Porphyrins and Porphyrinâ^'Fullerene Dyads on ITO and Gold Surfaces. Journal of the American Chemical Society, 2003, 125, 9129-9139.	6.6	258
18	Electron-Donating Perylene Tetracarboxylic Acids for Dye-Sensitized Solar Cells. Organic Letters, 2007, 9, 1971-1974.	2.4	247

#	Article	IF	Citations
19	Optical properties of fullerene and non-fullerene peapods. Applied Physics A: Materials Science and Processing, 2002, 74, 349-354.	1.1	230
20	Vectorial Multistep Electron Transfer at the Gold Electrodes Modified with Self-Assembled Monolayers of Ferroceneâ^'Porphyrinâ^'Fullerene Triads. Journal of Physical Chemistry B, 2000, 104, 2099-2108.	1.2	216
21	Stepwise Charge Separation and Charge Recombination in Ferrocene-meso,meso-Linked Porphyrin Dimerâ^'Fullerene Triad. Journal of the American Chemical Society, 2002, 124, 5165-5174.	6.6	215
22	Solvent Dependence of Charge Separation and Charge Recombination Rates in Porphyrinâ^'Fullerene Dyad. Journal of Physical Chemistry A, 2001, 105, 325-332.	1.1	212
23	Photoinduced Charge Carrier Dynamics of Znâ^'Porphyrinâ^'TiO₂ Electrodes: The Key Role of Charge Recombination for Solar Cell Performance. Journal of Physical Chemistry A, 2011, 115, 3679-3690.	1.1	210
24	Production of an Ultra-Long-Lived Charge-Separated State in a Zinc Chlorinâ€"C60 Dyad by One-Step Photoinduced Electron Transfer. Angewandte Chemie - International Edition, 2004, 43, 853-856.	7.2	206
25	Photochemical and Electrochemical Properties of Zinc Chlorinâ^'C60 Dyad as Compared to Corresponding Free-Base Chlorinâ^'C60, Free-Base Porphyrinâ^'C60, and Zinc Porphyrinâ^'C60 Dyads. Journal of the American Chemical Society, 2001, 123, 10676-10683.	6.6	201
26	Long-Lived Charge-Separated State Generated in a Ferroceneâ€"meso,meso-Linked Porphyrin Trimerâ€"Fullerene Pentad with a High Quantum Yield. Chemistry - A European Journal, 2004, 10, 3184-3196.	1.7	200
27	Chain Length Effect on the Structure and Photoelectrochemical Properties of Self-Assembled Monolayers of Porphyrins on Gold Electrodes. Journal of Physical Chemistry B, 2000, 104, 1253-1260.	1.2	196
28	Comparison of Reorganization Energies for Intra- and Intermolecular Electron Transfer. Angewandte Chemie - International Edition, 2002, 41, 2344-2347.	7.2	193
29	Carbon nanotube-modified electrodes for solar energy conversion. Energy and Environmental Science, 2008, 1, 120.	15.6	176
30	Renaissance of Fused Porphyrins: Substituted Methylene-Bridged Thiophene-Fused Strategy for High-Performance Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2019, 141, 9910-9919.	6.6	176
31	DNA nanotechnology-based composite-type gold nanoparticle-immunostimulatory DNA hydrogel for tumor photothermal immunotherapy. Biomaterials, 2017, 146, 136-145.	5.7	174
32	Quaternary Self-Organization of Porphyrin and Fullerene Units by Clusterization with Gold Nanoparticles on SnO2Electrodes for Organic Solar Cells. Journal of the American Chemical Society, 2003, 125, 14962-14963.	6.6	173
33	Self-assembling porphyrins and phthalocyanines for photoinduced charge separation and charge transport. Chemical Communications, 2012, 48, 4032.	2.2	171
34	Novel unsymmetrically Ï€-elongated porphyrin for dye-sensitized TiO2cells. Chemical Communications, 2007, , 2069-2071.	2.2	170
35	Supramolecular Donorâ^'Acceptor Heterojunctions by Vectorial Stepwise Assembly of Porphyrins and Coordination-Bonded Fullerene Arrays for Photocurrent Generation. Journal of the American Chemical Society, 2009, 131, 3198-3200.	6.6	170
36	A Molecular Tetrad Allowing Efficient Energy Storage for 1.6 s at 163 K. Journal of Physical Chemistry A, 2004, 108, 541-548.	1.1	169

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37	Large Photocurrent Generation of Gold Electrodes Modified with [60]Fullerene-Linked Oligothiophenes Bearing a Tripodal Rigid Anchor. Journal of the American Chemical Society, 2002, 124, 532-533.	6.6	168
38	Quinoxaline-Fused Porphyrins for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2008, 112, 4396-4405.	1.5	166
39	Photodynamic and Photothermal Effects of Semiconducting and Metallic-Enriched Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2012, 134, 17862-17865.	6.6	163
40	Ultrafast Photodynamics of Exciplex Formation and Photoinduced Electron Transfer in Porphyrinâˆ’Fullerene Dyads Linked at Close Proximity. Journal of Physical Chemistry A, 2003, 107, 8834-8844.	1.1	158
41	Photoactive Three-Dimensional Monolayers:â€‰ Porphyrinâˆ’Alkanethiolate-Stabilized Gold Clusters. Journal of the American Chemical Society, 2001, 123, 335-336.	6.6	157
42	Driving Force Dependence of Intermolecular Electron-Transfer Reactions of Fullerenes. Chemistry - A European Journal, 2003, 9, 1585-1593.	1.7	156
43	Supramolecular Photovoltaic Cells Based on Composite Molecular Nanoclusters:Â Dendritic Porphyrin and C60, Porphyrin Dimer and C60, and Porphyrinâˆ’C60Dyad. Journal of Physical Chemistry B, 2004, 108, 12865-12872.	1.2	153
44	Supramolecular Photovoltaic Cells Using Porphyrin Dendrimers and Fullerene. Advanced Materials, 2004, 16, 975-979.	11.1	150
45	Creation of Fullerene-Based Artificial Photosynthetic Systems. Bulletin of the Chemical Society of Japan, 2007, 80, 621-636.	2.0	150
46	Naphthyl-Fused Ï€-Elongated Porphyrins for Dye-Sensitized TiO₂ Cells. Journal of Physical Chemistry C, 2008, 112, 15576-15585.	1.5	150
47	Exciplex Intermediates in Photoinduced Electron Transfer of Porphyrinâˆ’Fullerene Dyads. Journal of the American Chemical Society, 2002, 124, 8067-8077.	6.6	148
48	Effects of meso-Diarylamino Group of Porphyrins as Sensitizers in Dye-Sensitized Solar Cells on Optical, Electrochemical, and Photovoltaic Properties. Journal of Physical Chemistry C, 2010, 114, 10656-10665.	1.5	147
49	Catalytic Effects of Dioxygen on Intramolecular Electron Transfer in Radical Ion Pairs of Zinc Porphyrin-Linked Fullerenes. Journal of the American Chemical Society, 2001, 123, 2571-2575.	6.6	144
50	Light Energy Conversion Using Mixed Molecular Nanoclusters. Porphyrin and C60Cluster Films for Efficient Photocurrent Generation. Journal of Physical Chemistry B, 2003, 107, 12105-12112.	1.2	143
51	Effects of Porphyrin Substituents and Adsorption Conditions on Photovoltaic Properties of Porphyrin-Sensitized TiO₂ Cells. Journal of Physical Chemistry C, 2009, 113, 18406-18413.	1.5	143
52	Creation of Pure Nanodrugs and Their Anticancer Properties. Angewandte Chemie - International Edition, 2012, 51, 10315-10318.	7.2	140
53	Charge-transfer emission of compact porphyrinâ€“fullerene dyad analyzed by Marcus theory of electron-transfer. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2001, 57, 2229-2244.	2.0	138
54	Role of Adsorption Structures of Zn-Porphyrin on TiO₂ in Dye-Sensitized Solar Cells Studied by Sum Frequency Generation Vibrational Spectroscopy and Ultrafast Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 6066-6080.	1.5	137

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55	Effects of 5-Membered Heteroaromatic Spacers on Structures of Porphyrin Films and Photovoltaic Properties of Porphyrin-Sensitized TiO2 Cells. Journal of Physical Chemistry C, 2007, 111, 3528-3537.	1.5	131
56	Electron Transfer Cascade by Organic/Inorganic Ternary Composites of Porphyrin, Zinc Oxide Nanoparticles, and Reduced Graphene Oxide on a Tin Oxide Electrode that Exhibits Efficient Photocurrent Generation. Journal of the American Chemical Society, 2011, 133, 7684-7687.	6.6	130
57	Highly Asymmetrical Porphyrins with Enhanced Pushâ€“Pull Character for Dyeâ€Sensitized Solar Cells. Chemistry - A European Journal, 2013, 19, 17075-17081.	1.7	129
58	Segregated Donorâ€“Acceptor Columns in Liquid Crystals That Exhibit Highly Efficient Ambipolar Charge Transport. Journal of the American Chemical Society, 2011, 133, 10736-10739.	6.6	126
59	Isomer Effects of Fullerene Derivatives on Organic Photovoltaics and Perovskite Solar Cells. Accounts of Chemical Research, 2019, 52, 2046-2055.	7.6	126
60	A Sequential Photoinduced Electron Relay Accelerated by Fullerene in a Porphyrin-Pyromellitimide-C60 Triad. Angewandte Chemie International Edition in English, 1997, 36, 2626-2629.	4.4	120
61	Phosphole-Containing Calixpyrroles, Calixphyrins, and Porphyrins: Synthesis and Coordination Chemistry. Accounts of Chemical Research, 2009, 42, 1193-1204.	7.6	118
62	Photoconductivity in Metalâ€“Organic Framework (MOF) Thin Films. Angewandte Chemie - International Edition, 2019, 58, 9590-9595.	7.2	118
63	Comparison of Electrode Structures and Photovoltaic Properties of Porphyrin-Sensitized Solar Cells with TiO2and Nb, Ge, Zr-Added TiO2Composite Electrodes. Langmuir, 2006, 22, 11405-11411.	1.6	115
64	Fusion of Phosphole and 1,1â€²â€Biacenaphthene: Phosphorus(V)â€Containing Extended Ï€â€Systems with High Electron Affinity and Electron Mobility. Angewandte Chemie - International Edition, 2011, 50, 8016-8020.	7.2	115
65	Porphyrin Monolayer-Modified Gold Clusters as Photoactive Materials. Advanced Materials, 2001, 13, 1197-1199.	11.1	113
66	Synthesis and Photophysical and Photovoltaic Properties of Porphyrinâˆ'Furan and âˆ'Thiophene Alternating Copolymers. Journal of Physical Chemistry C, 2009, 113, 10798-10806.	1.5	113
67	Photofunctional Hybrid Nanocarbon Materials. Journal of Physical Chemistry C, 2013, 117, 3195-3209.	1.5	108
68	Synthesis of sterically hindered phthalocyanines and their applications to dye-sensitized solar cells. Dalton Transactions, 2008, , 5476.	1.6	106
69	Chain Length Effect on Photocurrent from Polymethylene-Linked Porphyrins in Self-Assembled Monolayers. Langmuir, 1998, 14, 5335-5338.	1.6	105
70	Photothermal ablation of tumor cells using a single-walled carbon nanotubeâ€“peptide composite. Journal of Controlled Release, 2014, 173, 59-66.	4.8	104
71	Visible light-driven water oxidation using a covalently-linked molecular catalystâ€“sensitizer dyad assembled on a TiO₂ electrode. Chemical Science, 2016, 7, 1430-1439.	3.7	103
72	Effects of Ï€-Elongation and the Fused Position of Quinoxaline-Fused Porphyrins as Sensitizers in Dye-Sensitized Solar Cells on Optical, Electrochemical, and Photovoltaic Properties. Journal of Physical Chemistry C, 2010, 114, 11293-11304.	1.5	102

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73	Donorâˆ'Acceptor Nanoarchitecture on Semiconducting Electrodes for Solar Energy Conversion. Journal of Physical Chemistry C, 2009, 113, 9029-9039.	1.5	100
74	Synthesis and Photophysical Property of Porphyrin-Linked Fullerene. Chemistry Letters, 1995, 24, 265-266.	0.7	99
75	An Investigation of Photocurrent Generation by Gold Electrodes Modified with Self-Assembled Monolayers of C60. Journal of Physical Chemistry B, 1999, 103, 7233-7237.	1.2	99
76	Structure and Photophysical Properties of Porphyrin-Modified Metal Nanoclusters with Different Chain Lengths. Langmuir, 2004, 20, 73-81.	1.6	99
77	PHOTOINDUCED ELECTRON TRANSFER IN A CAROTENOBUCKMINSTERFULLERENE DYAD. Photochemistry and Photobiology, 1995, 62, 1009-1014.	1.3	99
78	Tropolone as a Highâ€Performance Robust Anchoring Group for Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2015, 54, 9052-9056.	7.2	99
79	Organic Photoelectrochemical Cell Mimicking Photoinduced Multistep Electron Transfer in Photosynthesis: Interfacial Structure and Photoelectrochemical Properties of Self-Assembled Monolayers of Porphyrin-Linked Fullerenes on Gold Electrodes. Bulletin of the Chemical Society of Japan, 1999, 72, 485-502.	2.0	97
80	Long-Lived Charge-Separated State Produced by Photoinduced Electron Transfer in a Zinc Imidazoporphyrin-C60Dyad. Organic Letters, 2003, 5, 2719-2721.	2.4	96
81	Thermosensitive Ion Channel Activation in Single Neuronal Cells by Using Surfaceâ€Engineered Plasmonic Nanoparticles. Angewandte Chemie - International Edition, 2015, 54, 11725-11729.	7.2	96
82	Optical, Electrochemical, and Photovoltaic Effects of an Electron-Withdrawing Tetrafluorophenylene Bridge in a Pushâ€"Pull Porphyrin Sensitizer Used for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2011, 115, 14415-14424.	1.5	94
83	Remarkable Dependence of the Final Charge Separation Efficiency on the Donorâ€"Acceptor Interaction in Photoinduced Electron Transfer. Angewandte Chemie - International Edition, 2016, 55, 629-633.	7.2	94
84	Near infra-red emission of charge-transfer complexes of porphyrinâ€"fullerene films. Chemical Physics Letters, 2000, 326, 344-350.	1.2	87
85	Small Reorganization Energy of Intramolecular Electron Transfer in Fullerene-Based Dyads with Short Linkage. Journal of Physical Chemistry A, 2002, 106, 10991-10998.	1.1	87
86	Effects of Hydrogen Bonding on Metal Ion-Promoted Intramolecular Electron Transfer and Photoinduced Electron Transfer in a Ferrocene-Quinone Dyad with a Rigid Amide Spacer. Journal of the American Chemical Society, 2003, 125, 1007-1013.	6.6	87
87	Primary charge-recombination in an artificial photosynthetic reaction center. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10017-10022.	3.3	85
88	Syntheses, Structures, and Coordination Chemistry of Phosphole-Containing Hybrid Calixphyrins:Â Promising Macrocyclic P,N2,X-Mixed Donor Ligands for Designing Reactive Transition-Metal Complexes. Journal of the American Chemical Society, 2008, 130, 990-1002.	6.6	85
89	Ultrafast Photoinduced Electron Transfer in Directly Linked Porphyrinâˆ'Ferrocene Dyads. Journal of Physical Chemistry A, 2007, 111, 5136-5143.	1.1	80
90	Vectorial Electron Relay at ITO Electrodes Modified with Self-Assembled Monolayers of Ferroceneâ€"Porphyrinâ€"Fullerene Triads and Porphyrinâ€"Fullerene Dyads for Molecular Photovoltaic Devices. Chemistry - A European Journal, 2004, 10, 5111-5122.	1.7	79

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91	Enhancement of Photocurrent Generation by ITO Electrodes Modified Chemically with Self-Assembled Monolayers of Porphyrinâ€“Fullerene Dyads. Advanced Materials, 2002, 14, 892.	11.1	77
92	Photosynthetic electron transfer using fullerenes as novel acceptors. Carbon, 2000, 38, 1599-1605.	5.4	76
93	Regioselective Î²-Metalation of <i>meso</i>-Phosphanylporphyrins. Structure and Optical Properties of Porphyrin Dimers Linked by Peripherally Fused Phosphametallacycles. Journal of the American Chemical Society, 2008, 130, 4588-4589.	6.6	76
94	An efficient electron transport material of tin oxide for planar structure perovskite solar cells. Journal of Power Sources, 2016, 307, 891-897.	4.0	76
95	Long-Lived Charge Separation with High Quantum Yield in a Ferrocene-Porphyrin-Fullerene Triad. Chemistry Letters, 1999, 28, 721-722.	0.7	75
96	Comparative Study on the Structural, Optical, and Electrochemical Properties of Bithiopheneâ€Fused Benzo[<i>c</i>]phospholes. Chemistry - A European Journal, 2008, 14, 8102-8115.	1.7	75
97	A new class of epitaxial porphyrin metalâ€“organic framework thin films with extremely high photocarrier generation efficiency: promising materials for all-solid-state solar cells. Journal of Materials Chemistry A, 2016, 4, 12739-12747.	5.2	75
98	Synthesis and Self-Assembly of Porphyrin-linked Fullerene on Gold Surface Using S-Au Linkage. Chemistry Letters, 1996, 25, 907-908.	0.7	73
99	Synthesis and photoelectrochemical properties of a self-assembled monolayer of a ferroceneâ€“porphyrinâ€“fullerene triad on a gold electrode. Chemical Communications, 1999, , 1165-1166.	2.2	72
100	A Negative Temperature Dependence of the Electron Self-Exchange Rates of Zinc Porphyrin Ï€ Radical Cations. Journal of the American Chemical Society, 2002, 124, 10974-10975.	6.6	72
101	Phosphorus-Containing Hybrid Calixphyrins:Â Promising Mixed-Donor Ligands for Visible and Efficient Palladium Catalysts. Journal of the American Chemical Society, 2006, 128, 11760-11761.	6.6	71
102	Electrophoretic deposition of donorâ€“acceptor nanostructures on electrodes for molecular photovoltaics. Journal of Materials Chemistry, 2007, 17, 31-41.	6.7	71
103	Synthesis, Structures, and Properties ofmeso-Phosphorylporphyrins: Self-Organization through Pâ€“Oxoâ€“Zinc Coordination. Chemistry - A European Journal, 2007, 13, 891-901.	1.7	71
104	Effects of dihydronaphthyl-based [60]fullerene bisadduct regioisomers on polymer solar cell performance. Chemical Communications, 2012, 48, 8550.	2.2	71
105	Nature-Inspired Tree-Like TiO₂ Architecture: A 3D Platform for the Assembly of CdS and Reduced Graphene Oxide for Photoelectrochemical Processes. Journal of Physical Chemistry C, 2015, 119, 7543-7553.	1.5	71
106	Effects of Porphyrin Substituents on Film Structure and Photoelectrochemical Properties of Porphyrin/Fullerene Composite Clusters Electrophoretically Deposited on Nanostructured SnO₂ Electrodes. Chemistry - A European Journal, 2007, 13, 10182-10193.	1.7	70
107	Triarylamineâ€Substituted Imidazoleâ€•and Quinoxalineâ€Fused Pushâ€“Pull Porphyrins for Dyeâ€Sensitized Solar Cells. ChemSusChem, 2013, 6, 508-517.	3.6	70
108	Photoinduced Electron Transfer in Langmuirâˆ’Blodgett Monolayers of Porphyrinâˆ’Fullerene Dyads. Langmuir, 2005, 21, 5383-5390.	1.6	69

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109	One-Dimensional Nanostructured Semiconducting Materials for Organic Photovoltaics. Journal of Physical Chemistry Letters, 2010, 1, 1020-1025.	2.1	69
110	Tunable, strongly-donating perylene photosensitizers for dye-sensitized solar cells. Journal of Materials Chemistry, 2011, 21, 7166.	6.7	69
111	Resonance Raman and FTIR Spectra of Isotope-Labeled Reduced 1,4-Benzoquinone and Its Protonated Forms in Solutions. Journal of Physical Chemistry A, 1997, 101, 622-631.	1.1	67
112	Nanostructured assembly of porphyrin clusters for light energy conversion. Journal of Materials Chemistry, 2003, 13, 2515.	6.7	67
113	Electrophoretic Deposition of Single-Walled Carbon Nanotubes Covalently Modified with Bulky Porphyrins on Nanostructured SnO2Electrodes for Photoelectrochemical Devices. Journal of Physical Chemistry C, 2007, 111, 11484-11493.	1.5	67
114	Fabrication of dye-sensitized solar cells using natural dye for food pigment: Monascus yellow. Energy and Environmental Science, 2010, 3, 905.	15.6	67
115	Design and control of organic semiconductors and their nanostructures for polymerâ€“fullerene-based photovoltaic devices. Journal of Materials Chemistry A, 2014, 2, 11545-11560.	5.2	67
116	Lead-free perovskite solar cells using Sb and Bi-based A3B2X9 and A3BX6 crystals with normal and inverse cell structures. Nano Convergence, 2017, 4, 26.	6.3	67
117	Control of electron transfer and its utilization. Pure and Applied Chemistry, 1997, 69, 1951-1956.	0.9	66
118	Hostâ€“Guest Interactions in the Supramolecular Incorporation of Fullerenes into Tailored Holes on Porphyrin-Modified Gold Nanoparticles in Molecular Photovoltaics. Chemistry - A European Journal, 2005, 11, 7265-7275.	1.7	66
119	Retention of Intrinsic Electronic Properties of Soluble Single-Walled Carbon Nanotubes after a Significant Degree of Sidewall Functionalization by the Bingel Reaction. Journal of Physical Chemistry C, 2007, 111, 9734-9741.	1.5	66
120	Fused Five-membered Porphyrin for Dye-sensitized Solar Cells. Chemistry Letters, 2008, 37, 846-847.	0.7	65
121	Substituent Effects of Porphyrins on Structures and Photophysical Properties of Amphiphilic Porphyrin Aggregates. Journal of Physical Chemistry B, 2008, 112, 16517-16524.	1.2	64
122	Metal Ion-Promoted Intramolecular Electron Transfer in a Ferrocene-Naphthoquinone Linked Dyad. Continuous Change in Driving Force and Reorganization Energy with Metal Ion Concentration. Journal of the American Chemical Society, 2003, 125, 7014-7021.	6.6	63
123	Redox-Coupled Complexation of 23-Phospha-21-thiaporphyrin with Group 10 Metals: A Convenient Access to Stable Core-Modified Isophlorinâ^'Metal Complexes. Journal of the American Chemical Society, 2008, 130, 16446-16447.	6.6	63
124	Free Base and Metal Complexes of 5,15-Diaza-10,20-dimesitylporphyrins: Synthesis, Structures, Optical and Electrochemical Properties, and Aromaticities. Inorganic Chemistry, 2012, 51, 12879-12890.	1.9	63
125	Nickel(II) and Copper(II) Complexes of Î²â€•Unsubstituted 5,15â€•Diazaporphyrins and Pyridazineâ€•Fused Diazacorrinoids: Metalâ€“Template Syntheses and Peripheral Functionalizations. Chemistry - A European Journal, 2012, 18, 6208-6216.	1.7	63
126	Acenaphtho[1,â€‰2â€‹<i>c</i>]phosphole <i>P</i>â€•Oxide: A Phospholeâ€“Naphthalene Ï€â€•Conjugated System with High Electron Mobility. Chemistry - A European Journal, 2009, 15, 10000-10004.	1.7	62

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127	Uphill Photooxidation of NADH Analogues by Hexyl Viologen Catalyzed by Zinc Porphyrin-Linked Fullerenesâ€. Journal of Physical Chemistry A, 2002, 106, 1903-1908.	1.1	61
128	Effects of Metal Ions on Photoinduced Electron Transfer in Zinc Porphyrin?Naphthalenediimide Linked Systems. Chemistry - A European Journal, 2004, 10, 474-483.	1.7	61
129	Analysis of Sputtering Damage on <i>I</i>â€"<i>V</i> Curves for Perovskite Solar Cells and Simulation with Reversed Diode Model. Journal of Physical Chemistry C, 2016, 120, 28441-28447.	1.5	61
130	Visible light-driven water oxidation with a subporphyrin sensitizer and a water oxidation catalyst. Chemical Communications, 2016, 52, 13702-13705.	2.2	61
131	Effects of Bulky Substituents of Pushâ€"Pull Porphyrins on Photovoltaic Properties of Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 15379-15390.	4.0	61
132	Synthesis of a Phosphorus-Containing Hybrid Porphyrin. Organic Letters, 2006, 8, 5713-5716.	2.4	60
133	Photophysics and photoelectrochemical properties of nanohybrids consisting of fullerene-encapsulated single-walled carbon nanotubes and poly(3-hexylthiophene). Energy and Environmental Science, 2011, 4, 741-750.	15.6	60
134	Photoinduced Electron Transfer in Self-Assembled Monolayers of Porphyrinâˆ'Fullerene Dyads on ITO. Langmuir, 2005, 21, 6385-6391.	1.6	59
135	Concentration Effects of Porphyrin Monolayers on the Structure and Photoelectrochemical Properties of Mixed Self-Assembled Monolayers of Porphyrin and Alkanethiol on Gold Electrodes. Langmuir, 2001, 17, 4925-4931.	1.6	58
136	Light stability tests of methylammonium and formamidinium Pb-halide perovskites for solar cell applications. Japanese Journal of Applied Physics, 2015, 54, 08KF08.	0.8	58
137	Enhancement of Light Harvesting and Photocurrent Generation by ITO Electrodes Modified with meso,meso-Linked Porphyrin Oligomers. Nano Letters, 2003, 3, 409-412.	4.5	57
138	Molecular Photoelectrochemical Devices: Supramolecular Incorporation of C60 Molecules into Tailored Holes on Porphyrin-Modified Gold Nanoclusters. Advanced Materials, 2005, 17, 1727-1730.	11.1	57
139	Scandium Ion-Promoted Photoinduced Electron-Transfer Oxidation of Fullerenes and Derivatives by p-Chloranil and p-Benzoquinone. Journal of the American Chemical Society, 2001, 123, 12458-12465.	6.6	56
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433	Visible Light-Driven Water Oxidation with Porphyrin Sensitizers and Water Oxidation Catalysts. ECS Meeting Abstracts, 2017, , .	0.0	0
434	Geometries and Dynamics of Photoinduced Electron-Hole Pairs in Polyhexylthiophene-Fullerene Systems. ECS Meeting Abstracts, 2017, , .	0.0	0
435	(Invited) Electron Donor-Nanocarbon Electron Acceptor Composites Linked with Oligophenylene Bridge. ECS Meeting Abstracts, 2017, , .	0.0	0
436	(Invited) Exciplex Formation and Decay in Porphyrin-Carbon Nanotube Ensembles. ECS Meeting Abstracts, 2018, , .	0.0	0
437	(Invited) Isomer Effects of Nanocarbons in Organic Solar Cells. ECS Meeting Abstracts, 2019, , .	0.0	0
438	Thiophene-Fused Expanded Porphyrins with Ï€-System Switching. ECS Meeting Abstracts, 2019, , .	0.0	0
439	(Invited) Photoinduced Donor-Acceptor Interaction in Nanocarbon-Based Systems. ECS Meeting Abstracts, 2020, MA2020-01, 802-802.	0.0	0
440	Preparation and Physicochemical Properties of Inorganic Two-dimensional Nanomaterial/Fullerene Composites. ECS Meeting Abstracts, 2021, MA2021-02, 515-515.	0.0	0
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442	Photoinduced Energy and Electron Transfer in Nanocarbon-Based Donor-Acceptor Systems. ECS Meeting Abstracts, 2020, MA2020-02, 1085-1085.	0.0	0
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