# Hiroshi Imahori

List of Publications by Year
in descending order

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| 443 | 27,464 | 4383 | 8852 |
|---|---|---|---|
| papers | citations | 86 h-index | 145 g-index |

| 483 | 483 | 483 | 16693 |
|---|---|---|---|
| all docs | docs citations | times ranked | 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 |

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| 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^'TiO<sub>2</sub> 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 Porphyrinâ^'Fullerene Dyads Linked at Close Proximity. Journal of Physical Chemistry A, 2003, 107, 8834-8844. | 1.1 | 158 |
| 41 | Photoactive Three-Dimensional Monolayers:â€‰ Porphyrinâ^'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 Porphyrinâ^'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 TiO<sub>2</sub> Cells. Journal of Physical Chemistry C, 2008, 112, 15576-15585. | 1.5 | 150 |
| 47 | Exciplex Intermediates in Photoinduced Electron Transfer of Porphyrinâ^'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 TiO<sub>2</sub> 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 TiO<sub>2</sub> 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 Ïâ€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 Porphyrinâ^'Furan and â^'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 TiO<sub>2</sub> electrode. Chemical Science, 2016, 7, 1430-1439. | 3.7 | 103 |
| 72 | Effects of Ïâ€-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 | Donorâ^'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 Porphyrinâ^'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 meso-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[c]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 TiO<sub>2</sub> 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 SnO<sub>2</sub> 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 Langmuirâ€™Blodgett Monolayers of Porphyrinâ€™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€c]phosphole Pâ€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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| 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 Iâ€“V 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 |
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