

# Francis D'Souza

## List of Publications by Year in descending order

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415  
papers

18,042  
citations

12322

69  
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111  
g-index

435  
all docs

435  
docs citations

435  
times ranked

12527  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Intermolecular and supramolecular photoinduced electron transfer processes of fullerene-porphyrin/phthalocyanine systems. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2004, 5, 79-104.  | 5.6  | 500       |
| 2  | Supramolecular donor-acceptor hybrids of porphyrins/phthalocyanines with fullerenes/carbon nanotubes: electron transfer, sensing, switching, and catalytic applications. <i>Chemical Communications</i> , 2009, , 4913.   | 2.2  | 473       |
| 3  | Photoinduced electron transfer in supramolecular systems of fullerenes functionalized with ligands capable of binding to zinc porphyrins and zinc phthalocyanines. <i>Coordination Chemistry Reviews</i> , 2005, 249, 1410-1422.  | 9.5  | 400       |
| 4  | Electrochemically synthesized polymers in molecular imprinting for chemical sensing. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 3177-3204.  | 1.9  | 372       |
| 5  | Electrocatalytic Properties and Sensor Applications of Fullerenes and Carbon Nanotubes. <i>Electroanalysis</i> , 2003, 15, 753-772.   | 1.5  | 357       |
| 6  | Photosensitized electron transfer processes of nanocarbons applicable to solar cells. <i>Chemical Society Reviews</i> , 2012, 41, 86-96.  | 18.7 | 357       |
| 7  | Chemical functionalization and characterization of graphene-based materials. <i>Chemical Society Reviews</i> , 2017, 46, 4464-4500.   | 18.7 | 356       |
| 8  | Energy Transfer Followed by Electron Transfer in a Supramolecular Triad Composed of Boron Dipyrin, Zinc Porphyrin, and Fullerene: A Model for the Photosynthetic Antenna-Reaction Center Complex. <i>Journal of the American Chemical Society</i> , 2004, 126, 7898-7907. | 6.6  | 310       |
| 9  | Distinguishing Homogeneous from Heterogeneous Catalysis in Electrode-Driven Water Oxidation with Molecular Iridium Complexes. <i>Journal of the American Chemical Society</i> , 2011, 133, 10473-10481.   | 6.6  | 293       |
| 10 | Spectroscopic, Electrochemical, and Photochemical Studies of Self-Assembled via Axial Coordination Zinc Porphyrin-Fulleropyrrolidine Dyads. <i>Journal of Physical Chemistry A</i> , 2002, 106, 3243-3252.  | 1.1  | 238       |
| 11 | Photosynthetic Antenna-Reaction Center Mimicry by Using Boron Dipyrromethene Sensitizers. <i>ChemPhysChem</i> , 2014, 15, 30-47.  | 1.0  | 222       |
| 12 | Probing the Donor-Acceptor Proximity on the Physicochemical Properties of Porphyrin-Fullerene Dyads: A Tail-On and Tail-Off Binding Approach. <i>Journal of the American Chemical Society</i> , 2001, 123, 5277-5284.   | 6.6  | 193       |
| 13 | Corrole-Fullerene Dyads: Formation of Long-Lived Charge-Separated States in Nonpolar Solvents. <i>Journal of the American Chemical Society</i> , 2008, 130, 14263-14272.  | 6.6  | 185       |
| 14 | Photosynthetic Reaction Center Mimicry: Low Reorganization Energy Driven Charge Stabilization in Self-Assembled Cofacial Zinc Phthalocyanine Dimer-Fullerene Conjugate. <i>Journal of the American Chemical Society</i> , 2009, 131, 8787-8797.                           | 6.6  | 177       |
| 15 | Design and photochemical study of supramolecular donor-acceptor systems assembled via metal-ligand axial coordination. <i>Coordination Chemistry Reviews</i> , 2016, 322, 104-141.  | 9.5  | 172       |
| 16 | Donor-Acceptor Nanohybrids of Zinc Naphthalocyanine or Zinc Porphyrin Noncovalently Linked to Single-Wall Carbon Nanotubes for Photoinduced Electron Transfer. <i>Journal of Physical Chemistry C</i> , 2007, 111, 6947-6955.   | 1.5  | 168       |
| 17 | Supramolecular electron transfer by anion binding. <i>Chemical Communications</i> , 2012, 48, 9801.   | 2.2  | 159       |
| 18 | Organic solar cells. Supramolecular composites of porphyrins and fullerenes organized by polypeptide structures as light harvesters. <i>Journal of Materials Chemistry</i> , 2007, 17, 4160.  | 6.7  | 153       |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Self-assembled tetrapyrroleâ€‘fullerene and tetrapyrroleâ€‘carbon nanotube donorâ€‘acceptor hybrids for light induced electron transfer applications. <i>Journal of Materials Chemistry</i> , 2008, 18, 1440.   | 6.7  | 153       |
| 20 | Control over Photoinduced Energy and Electron Transfer in Supramolecular Polyads of Covalently linked azaBODIPY-Bisporphyrin â€‘Molecular Clipâ€™™ Hosting Fullerene. <i>Journal of the American Chemical Society</i> , 2012, 134, 654-664.             | 6.6  | 148       |
| 21 | Electrochemical and spectroelectrochemical behavior of cobalt(III), cobalt(II), and cobalt(I) complexes of meso-tetraphenylporphyrinate bearing bromides on the .beta.-pyrrole positions. <i>Inorganic Chemistry</i> , 1993, 32, 4042-4048.             | 1.9  | 144       |
| 22 | Supramolecular Carbon Nanotube-Fullerene Donorâˆ’Acceptor Hybrids for Photoinduced Electron Transfer. <i>Journal of the American Chemical Society</i> , 2007, 129, 15865-15871.   | 6.6  | 144       |
| 23 | SWNT-Based Supramolecular Nanoarchitectures with Photosensitizing Donor and Acceptor Molecules. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2586-2593.  | 2.1  | 141       |
| 24 | Porphyrin-Sensitized Solar Cells: Effect of Carboxyl Anchor Group Orientation on the Cell Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 5314-5323.  | 4.0  | 136       |
| 25 | Self-Assembled Porphyrinâˆ’C60and Porphyceneâˆ’C60Complexes via Metal Axial Coordination. <i>Inorganic Chemistry</i> , 1999, 38, 2157-2160.   | 1.9  | 134       |
| 26 | Selective electrosynthesis of dimethylfullerene [(CH <sub>3</sub> ) <sub>2</sub> C <sub>60</sub> ]: a novel method for the controlled functionalization of fullerenes. <i>Journal of the American Chemical Society</i> , 1993, 115, 8505-8506.          | 6.6  | 131       |
| 27 | Selective electrochemical sensing of human serum albumin by semi-covalent molecular imprinting. <i>Biosensors and Bioelectronics</i> , 2015, 74, 960-966.   | 5.3  | 129       |
| 28 | Phenothiazine-Sensitized Organic Solar Cells: Effect of Dye Anchor Group Positioning on the Cell Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 5813-5820.   | 4.0  | 126       |
| 29 | Surfaceâ€‘immobilized Singleâ€‘Site Iridium Complexes for Electrocatalytic Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9601-9605.   | 7.2  | 126       |
| 30 | Studies on Intra-Supramolecular and Intermolecular Electron-Transfer Processes between Zinc Naphthalocyanine and Imidazole-Appended Fullerene. <i>ChemPhysChem</i> , 2003, 4, 474-481.  | 1.0  | 121       |
| 31 | Selective Histamine Piezoelectric Chemosensor Using a Recognition Film of the Molecularly Imprinted Polymer of Bis(bithiophene) Derivatives. <i>Analytical Chemistry</i> , 2009, 81, 2633-2643.   | 3.2  | 120       |
| 32 | Ultrafast photodriven intramolecular electron transfer from an iridium-based water-oxidation catalyst to perylene diimide derivatives. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15651-15656. | 3.3  | 118       |
| 33 | Functionalized polythiophenes: Recognition materials for chemosensors and biosensors of superior sensitivity, selectivity, and detectability. <i>Progress in Polymer Science</i> , 2015, 47, 1-25.  | 11.8 | 118       |
| 34 | Studies on Covalently Linked Porphyrinâˆ’C60Dyads:âˆ’Stabilization of Charge-Separated States by Axial Coordination. <i>Journal of Physical Chemistry A</i> , 2002, 106, 12393-12404.   | 1.1  | 114       |
| 35 | Recent Advances in Photoinduced Electron Transfer Processes of Fullerene-Based Molecular Assemblies and Nanocomposites. <i>Molecules</i> , 2012, 17, 5816-5835.   | 1.7  | 112       |
| 36 | Melamine Acoustic Chemosensor Based on Molecularly Imprinted Polymer Film. <i>Analytical Chemistry</i> , 2009, 81, 10061-10070.   | 3.2  | 110       |

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|----|--|-----|-----------|
| 37 | Supramolecular Solar Cells: Surface Modification of Nanocrystalline TiO <sub>2</sub> with Coordinating Ligands To Immobilize Sensitizers and Dyads via Metal-Ligand Coordination for Enhanced Photocurrent Generation. <i>Journal of the American Chemical Society</i> , 2009, 131, 14646-14647. | 6.6 | 109       |
| 38 | Sensitive Efficiency of Photoinduced Electron Transfer to Band Gaps of Semiconductive Single-Walled Carbon Nanotubes with Supramolecularly Attached Zinc Porphyrin Bearing Pyrene Glues. <i>Journal of the American Chemical Society</i> , 2010, 132, 8158-8164.                                 | 6.6 | 109       |
| 39 | Supramolecular Tetrad of Subphthalocyanine-Triphenylamine-Zinc Porphyrin Coordinated to Fullerene as an "Antenna-Reaction-Center-Mimic: Formation of a Long-Lived Charge-Separated State in a Nonpolar Solvent. <i>Chemistry - A European Journal</i> , 2010, 16, 6193-6202.                     | 1.7 | 104       |
| 40 | Electron Transfer Studies of High Potential Zinc Porphyrin-Fullerene Supramolecular Dyads. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3994-4006.  | 1.5 | 103       |
| 41 | Electronic Interactions and Photoinduced Electron Transfer in Covalently Linked Porphyrin-C60(pyridine) Diads and Supramolecular Triads Formed by Self-Assembling the Diads and Zinc Porphyrin. <i>Journal of Physical Chemistry B</i> , 2002, 106, 4952-4962.                                   | 1.2 | 97        |
| 42 | Molecular imprinting for selective chemical sensing of hazardous compounds and drugs of abuse. <i>TrAC - Trends in Analytical Chemistry</i> , 2012, 34, 59-77.   | 5.8 | 95        |
| 43 | Anion-Complexation-Induced Stabilization of Charge Separation. <i>Journal of the American Chemical Society</i> , 2009, 131, 16138-16146.   | 6.6 | 93        |
| 44 | Photosynthetic Antenna-Reaction Center Mimicry: Sequential Energy- and Electron Transfer in a Self-assembled Supramolecular Triad Composed of Boron Dipyrin, Zinc Porphyrin and Fullerene. <i>Journal of Physical Chemistry A</i> , 2009, 113, 8478-8489.  | 1.1 | 93        |
| 45 | Near-IR Excitation Transfer and Electron Transfer in a BF <sub>2</sub> -Chelated Dipyrromethane-Azadipyrromethane Dyad and Triad. <i>Chemistry - A European Journal</i> , 2012, 18, 5239-5247.   | 1.7 | 92        |
| 46 | Electronic, Spectral, and Electrochemical Properties of (TPPBr) <sub>2</sub> Zn Where TPPBr is the Dianion of 1,2-Brominated-Pyrrole Tetraphenylporphyrin and Varies from 0 to 8. <i>Inorganic Chemistry</i> , 1998, 37, 4567-4572.  | 1.9 | 90        |
| 47 | A Ferrocene-C60-Dinitrobenzene Triad: Synthesis and Computational, Electrochemical, and Photochemical Studies. <i>Journal of Physical Chemistry A</i> , 2002, 106, 649-656.  | 1.1 | 90        |
| 48 | A novel BF <sub>2</sub> -chelated azadipyrromethane-fullerene dyad: synthesis, electrochemistry and photodynamics. <i>Chemical Communications</i> , 2012, 48, 206-208.   | 2.2 | 90        |
| 49 | Supramolecular Triads Formed by Axial Coordination of Fullerene to Covalently Linked Zinc Porphyrin-Ferrocene(s): Design, Syntheses, Electrochemistry, and Photochemistry. <i>Journal of Physical Chemistry B</i> , 2004, 108, 11333-11343.  | 1.2 | 88        |
| 50 | Supramolecular porphyrin-fullerene via "two-point" binding strategy: Axial-coordination and cation-crown ether complexation. <i>Chemical Communications</i> , 2005, , 1279-1281.   | 2.2 | 87        |
| 51 | Electronic energy harvesting multi BODIPY-zinc porphyrin dyads accommodating fullerene as photosynthetic composite of antenna-reaction center. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 7434.  | 1.3 | 87        |
| 52 | Effect of Axial Ligation or π-π-Type Interactions on Photochemical Charge Stabilization in "Two-Point" Bound Supramolecular Porphyrin-Fullerene Conjugates. <i>Chemistry - A European Journal</i> , 2005, 11, 4416-4428.   | 1.7 | 84        |
| 53 | Molecularly imprinted polymer (MIP) based piezoelectric microgravimetry chemosensor for selective determination of adenine. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2522-2529.  | 5.3 | 84        |
| 54 | Bioinspired intelligent molecularly imprinted polymers for chemosensing: A mini review. <i>Electrochemistry Communications</i> , 2015, 50, 81-87.  | 2.3 | 83        |

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|----|---|-----|-----------|
| 55 | Multi-Triphenylamine-Substituted Porphyrin-Fullerene Conjugates as Charge Stabilizing "Antenna" Reaction Center Mimics. <i>Journal of Physical Chemistry A</i> , 2007, 111, 8552-8560.  | 1.1 | 81        |
| 56 | Dual Functioning Thieno-Pyrrole Fused BODIPY Dyes for NIR Optical Imaging and Photodynamic Therapy: Singlet Oxygen Generation without Heavy Halogen Atom Assistance. <i>Chemistry - an Asian Journal</i> , 2015, 10, 1335-1343.                                   | 1.7 | 80        |
| 57 | Photoinduced Electron Transfer in Two-Point-Bound Supramolecular Triads Composed of N,N-Dimethylaminophenyl-Fullerene-Pyridine Coordinated to Zinc Porphyrin. <i>Journal of Physical Chemistry A</i> , 2003, 107, 4801-4807.                                      | 1.1 | 79        |
| 58 | Self-Assembled Single-Walled Carbon Nanotube: Zinc-Porphyrin Hybrids through Ammonium Ion-Crown Ether Interaction: Construction and Electron Transfer. <i>Chemistry - A European Journal</i> , 2007, 13, 8277-8284.   | 1.7 | 77        |
| 59 | Phenothiazine-BODIPY-Fullerene Triads as Photosynthetic Reaction Center Models: Substitution and Solvent Polarity Effects on Photoinduced Charge Separation and Recombination. <i>Chemistry - A European Journal</i> , 2014, 20, 17100-17112.                     | 1.7 | 76        |
| 60 | Photosynthetic Reaction Center Mimicry of a Special Pair-Dimer Linked to Electron Acceptors by a Supramolecular Approach: Self-Assembled Cofacial Zinc Porphyrin Dimer Complexed with Fullerene(s). <i>Chemistry - A European Journal</i> , 2007, 13, 916-922.    | 1.7 | 75        |
| 61 | Ultrafast Photoinduced Energy and Electron Transfer in Multi-Modular Donor-Acceptor Conjugates. <i>Chemistry - A European Journal</i> , 2012, 18, 13844-13853.  | 1.7 | 75        |
| 62 | Solar Water Splitting Combining a BiVO <sub>4</sub> Light Absorber with a Ru-Based Molecular Cocatalyst. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7275-7281.   | 1.5 | 75        |
| 63 | Multiple photosynthetic reaction centres composed of supramolecular assemblies of zinc porphyrin dendrimers with a fullerene acceptor. <i>Chemical Communications</i> , 2011, 47, 7980.   | 2.2 | 73        |
| 64 | Design and Studies on Supramolecular Ferrocene-Porphyrin-Fullerene Constructs for Generating Long-Lived Charge Separated States. <i>Journal of Physical Chemistry B</i> , 2006, 110, 25240-25250.   | 1.2 | 72        |
| 65 | Face-to-Face Pacman-Type Porphyrin-Fullerene Dyads: Design, Synthesis, Charge Transfer Interactions, and Photophysical Studies. <i>Chemistry - A European Journal</i> , 2008, 14, 674-681.  | 1.7 | 72        |
| 66 | Structural studies of a non-covalently linked porphyrin-fullerene dyad. <i>Chemical Communications</i> , 2001, , 267-268.   | 2.2 | 71        |
| 67 | Self-Assembled via Axial Coordination Magnesium Porphyrin-Imidazole Appended Fullerene Dyad: A Spectroscopic, Electrochemical, Computational, and Photochemical Studies. <i>Journal of Physical Chemistry B</i> , 2005, 109, 10107-10114.                         | 1.2 | 71        |
| 68 | Chromogenic Indicator for Anion Reporting Based on an N-Substituted Oxoporphyrinogen. <i>Inorganic Chemistry</i> , 2006, 45, 8288-8296.   | 1.9 | 71        |
| 69 | Comparison of Amorphous Iridium Water-Oxidation Electrocatalysts Prepared from Soluble Precursors. <i>Inorganic Chemistry</i> , 2012, 51, 7749-7763.  | 1.9 | 71        |
| 70 | Syntheses, Electrochemistry, and Photodynamics of Ferrocene-Azadipyromethane Donor-Acceptor Dyads and Triads. <i>Journal of Physical Chemistry A</i> , 2011, 115, 9810-9819.  | 1.1 | 69        |
| 71 | A broad-band capturing and emitting molecular triad: synthesis and photochemistry. <i>Chemical Communications</i> , 2013, 49, 2867.   | 2.2 | 69        |
| 72 | Electrochemistry and Spectral Characterization of Oxidized and Reduced (TPPB <sub>x</sub> )FeCl Where TPPB <sub>x</sub> is the Dianion of 1,2-Brominated-Pyrrole Tetraphenylporphyrin and x Varies from 0 to 8. <i>Inorganic Chemistry</i> , 1996, 35, 5570-5576. | 1.9 | 67        |

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|----|---|-----|-----------|
| 73 | Pyrazinacenes: Aza Analogues of Acenes. <i>Journal of Organic Chemistry</i> , 2009, 74, 8914-8923.  | 1.7 | 66        |
| 74 | Excitation Wavelength Dependent, Ultrafast Photoinduced Electron Transfer in Bisferrocene/BF <sub>2</sub> Chelated Azadipyrromethene/Fullerene Tetrads. <i>Chemistry - A European Journal</i> , 2013, 19, 7221-7230.  | 1.7 | 65        |
| 75 | Supramolecular complex composed of a covalently linked zinc porphyrin dimer and fulleropyrrolidine bearing two axially coordinating pyridine entities. <i>Chemical Communications</i> , 2004, , 2276.   | 2.2 | 64        |
| 76 | Molecularly imprinted poly[bis(2,2'-bithienyl)methane] film with built-in molecular recognition sites for a piezoelectric microgravimetry chemosensor for selective determination of dopamine. <i>Bioelectrochemistry</i> , 2010, 80, 62-72.                          | 2.4 | 63        |
| 77 | Molecular Recognition via Hydroquinone Quinone Pairing: Electrochemical and Singlet Emission Behavior of [5,10,15-Triphenyl-20-(2,5-dihydroxy-phenyl)porphyrinato]zinc(II) Quinone Complexes. <i>Journal of the American Chemical Society</i> , 1996, 118, 923-924.   | 6.6 | 62        |
| 78 | Highly Nonplanar, Electron Deficient, N-Substituted tetra-Oxocyclohexadienylidene Porphyrinogens: Structural, Computational, and Electrochemical Investigations. <i>Journal of Organic Chemistry</i> , 2004, 69, 5861-5869.   | 1.7 | 62        |
| 79 | Vectorial Charge Separation and Selective Triplet-State Formation during Charge Recombination in a Pyrrolyl-Bridged BODIPY Fullerene Dyad. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8095-8102.   | 1.5 | 62        |
| 80 | Molecularly Imprinted Polymer (MIP) Film with Improved Surface Area Developed by Using Metal Organic Framework (MOF) for Sensitive Lipocalin (NGAL) Determination. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 19860-19865.                              | 4.0 | 61        |
| 81 | Thieno-Pyrrole-Fused 4,4-Difluoro-4-bora-3a,4a-diaza-indacene Fullerene Dyads: Utilization of Near-Infrared Sensitizers for Ultrafast Charge Separation in Donor Acceptor Systems. <i>Journal of the American Chemical Society</i> , 2014, 136, 7571-7574.            | 6.6 | 60        |
| 82 | Synthesis and Electrochemical Studies of a Series of Fluorinated Dodecaphenylporphyrins. <i>Inorganic Chemistry</i> , 1999, 38, 2188-2198.  | 1.9 | 59        |
| 83 | Photochemical Charge Separation in Closely Positioned Donor Boron Dipyrriin Fullerene Triads. <i>Chemistry - A European Journal</i> , 2011, 17, 3147-3156.  | 1.7 | 59        |
| 84 | Sequential Photoinduced Energy and Electron Transfer Directed Improved Performance of the Supramolecular Solar Cell of a Zinc Porphyrin Zinc Phthalocyanine Conjugate Modified TiO <sub>2</sub> Surface. <i>Journal of Physical Chemistry C</i> , 2013, 117, 763-773. | 1.5 | 59        |
| 85 | Charge stabilization in a closely spaced ferrocene boron dipyrriin fullerene triad. <i>Chemical Communications</i> , 2010, 46, 3301.  | 2.2 | 58        |
| 86 | A Charge Stabilizing, Multimodular, Ferrocene Bis(triphenylamine) Zinc porphyrin Fullerene Polyad. <i>Chemistry - A European Journal</i> , 2013, 19, 9629-9638.   | 1.7 | 57        |
| 87 | A Supramolecular Tetrad Featuring Covalently Linked Ferrocene Zinc Porphyrin BODIPY Coordinated to Fullerene: A Charge Stabilizing, Photosynthetic Antenna Reaction Center Mimic. <i>Chemistry - A European Journal</i> , 2014, 20, 17089-17099.                      | 1.7 | 57        |
| 88 | Photoinduced Charge Separation in Ion-Paired Porphyrin Single-Wall Carbon Nanotube Donor Acceptor Hybrids. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13425-13432.   | 1.5 | 56        |
| 89 | Molecularly Imprinted Polymer for Recognition of 5-Fluorouracil by RNA-type Nucleobase Pairing. <i>Analytical Chemistry</i> , 2013, 85, 8304-8312.  | 3.2 | 55        |
| 90 | Electrooxidation of Cobalt(II) $\beta$ -Brominated-Pyrrole Tetraphenylporphyrins in CH <sub>2</sub> Cl <sub>2</sub> under an N <sub>2</sub> or a CO Atmosphere. <i>Inorganic Chemistry</i> , 1997, 36, 6292-6298.   | 1.9 | 54        |

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|-----|--|-----|-----------|
| 91  | Studies on Porphyrin-Quinhydrone Complexes: A Molecular Recognition of Quinone and Hydroquinone in Solution. <i>Journal of Organic Chemistry</i> , 2001, 66, 4601-4609.  | 1.7 | 54        |
| 92  | Development of Nanopatterned Fluorine-Doped Tin Oxide Electrodes for Dye-Sensitized Solar Cells with Improved Light Trapping. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 1565-1572.  | 4.0 | 54        |
| 93  | Ultrafast excitation transfer and charge stabilization in a newly assembled photosynthetic antenna-reaction center mimic composed of boron dipyrin, zinc porphyrin and fullerene. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 18168.              | 1.3 | 53        |
| 94  | Ultrafast Singlet-Singlet Energy Transfer in Self-Assembled via Metal-Ligand Axial Coordination of Free-Base Porphyrin-Zinc Phthalocyanine and Free-Base Porphyrin-Zinc Naphthalocyanine Dyads. <i>Journal of Physical Chemistry A</i> , 2010, 114, 268-277. | 1.1 | 52        |
| 95  | Self-Assembled via Metal-Ligand Coordination AzaBODIPY-Zinc Phthalocyanine and AzaBODIPY-Zinc Naphthalocyanine Conjugates: Synthesis, Structure, and Photoinduced Electron Transfer. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5638-5649.          | 1.5 | 52        |
| 96  | Excited-State Charge Transfer in Covalently Functionalized MoS <sub>2</sub> with a Zinc Phthalocyanine Donor-Acceptor Hybrid. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5712-5717.  | 7.2 | 52        |
| 97  | Spectral, electrochemical, and photophysical studies of a magnesium porphyrin-fullerene dyad. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 3163.  | 1.3 | 51        |
| 98  | Direct determination of small RNAs using a biotinylated polythiophene impedimetric genosensor. <i>Biosensors and Bioelectronics</i> , 2017, 87, 1012-1019.   | 5.3 | 51        |
| 99  | Spectral and Electrochemical Investigations on the Tail-On and Tail-Off Mechanism in Pyridine Covalently Bound Zinc(II) Porphyrins. <i>Inorganic Chemistry</i> , 1996, 35, 5747-5749.  | 1.9 | 49        |
| 100 | Supramolecular Donor-Acceptor Hybrid of Electropolymerized Zinc Porphyrin with Axially Coordinated Fullerene: Formation, Characterization, and Photoelectrochemical Properties. <i>Journal of Physical Chemistry C</i> , 2009, 113, 8982-8989.               | 1.5 | 49        |
| 101 | Ultrafast Photoinduced Electron Transfer and Charge Stabilization in Donor-Acceptor Dyads Capable of Harvesting Near-Infrared Light. <i>Chemistry - A European Journal</i> , 2015, 21, 11483-11494.  | 1.7 | 49        |
| 102 | Electrochemical, UV/Visible, and EPR Characterization of Metalloporphyrines Containing First-Row Transition Metals. <i>The Journal of Physical Chemistry</i> , 1994, 98, 11885-11891.  | 2.9 | 48        |
| 103 | Electrocatalytic reduction of molecular oxygen using non-planar cobalt tetrakis-(4-sulfonatophenyl)- $\beta$ -octabromoporphyrin. <i>Journal of Electroanalytical Chemistry</i> , 1997, 426, 17-21.  | 1.9 | 48        |
| 104 | Molecular Triads Composed of Ferrocene, C60, and Nitroaromatic Entities: A Electrochemical, Computational, and Photochemical Investigations. <i>Journal of Organic Chemistry</i> , 2002, 67, 9122-9129.  | 1.7 | 48        |
| 105 | Diameter-Sorted SWCNT-Porphyrin and SWCNT-Phthalocyanine Conjugates for Light-Energy Harvesting. <i>ChemPhysChem</i> , 2011, 12, 2266-2273.  | 1.0 | 48        |
| 106 | Evolution of Molecular Design of Porphyrin Chromophores for Photovoltaic Materials of Superior Light-to-Electricity Conversion Efficiency. <i>Solar Rrl</i> , 2017, 1, 1600002.  | 3.1 | 48        |
| 107 | Bionano Donor-Acceptor Hybrids of Porphyrin, ssDNA, and Semiconductive Single-Wall Carbon Nanotubes for Electron Transfer via Porphyrin Excitation. <i>Journal of the American Chemical Society</i> , 2011, 133, 19922-19930.                                | 6.6 | 47        |
| 108 | Simultaneous Chronoamperometry and Piezoelectric Microgravimetry Determination of Nitroaromatic Explosives Using Molecularly Imprinted Thiophene Polymers. <i>Analytical Chemistry</i> , 2013, 85, 8361-8368.  | 3.2 | 47        |

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|-----|---|------|-----------|
| 109 | Axially assembled photosynthetic reaction center mimics composed of tetrathiafulvalene, aluminum(III) porphyrin and fullerene entities. <i>Nanoscale</i> , 2015, 7, 12151-12165.  | 2.8  | 47        |
| 110 | Hierarchical templating in deposition of semi-covalently imprinted inverse opal polythiophene film for femtomolar determination of human serum albumin. <i>Biosensors and Bioelectronics</i> , 2017, 94, 155-161.                                   | 5.3  | 47        |
| 111 | Design, Syntheses, and Studies of Supramolecular Porphyrin- Fullerene Conjugates, Using Bis-18-crown-6 Appended Porphyrins and Pyridine or Alkyl Ammonium Functionalized Fullerenes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5905-5913. | 1.2  | 46        |
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