Navaneetha K Subbaiyan

List of Publications by Year in Descending Order

50 papers	2,780 citations	31 h-index	52 g-index
53 ext. papers	2,921 ext. citations	7.3 avg, IF	4.73 L-index

#	Paper	IF	Citations
50	Nanoporous Glass Surface for Backscattered Waveguide Fluorescence Application. *ACS Applied Nano Materials*, **2018**, 1, 7052-7059	5.6	
49	Excited State Charge Separation in Solution and in Electropolymerized Films of Terthiophene-Fullerene Dyad and Phenothiazine-Terthiophene-Fullerene Triad. *ECS Journal of Solid State Science and Technology*, **2017**, 6, M3007-M3013	2	2
48	Chlorin e6 sensitized photovoltaic cells: effect of co-adsorbents on cell performance, charge transfer resistance, and charge recombination dynamics. *Journal of Photonics for Energy*, **2015**, 5, 053089	1.2	8
47	Bench-top aqueous two-phase extraction of isolated individual single-walled carbon nanotubes. *Nano Research*, **2015**, 8, 1755-1769	10	31
46	Role of surfactants and salt in aqueous two-phase separation of carbon nanotubes toward simple chirality isolation. *ACS Nano*, **2014**, 8, 1619-28	16.7	127
45	Developing Monolithic Nanoporous Gold with Hierarchical Bicontinuity Using Colloidal Bijels. *Journal of Physical Chemistry Letters*, **2014**, 5, 809-12	6.4	43
44	The effect of thiophene substituents of fulleropyrrolidine acceptors on the performance of inverted organic solar cells. *Synthetic Metals*, **2014**, 195, 193-200	3.6	7
43	Unexpected but convenient synthesis of soluble meso-tetrakis(3,4-benzoquinone)-substituted porphyrins. *Journal of Porphyrins and Phthalocyanines*, **2014**, 18, 173-181	1.8	5
42	Studies of a supramolecular photoelectrochemical cell using magnesium tetraphenylporphyrin as photosensitizer. *Journal of Porphyrins and Phthalocyanines*, **2013**, 17, 733-741	1.8	4
41	Sequential Photoinduced Energy and Electron Transfer Directed Improved Performance of the Supramolecular Solar Cell of a Zinc Porphyrin–Zinc Phthalocyanine Conjugate Modified TiO2 Surface. *Journal of Physical Chemistry C*, **2013**, 117, 763-773	3.8	52
40	A hybrid soft solar cell based on the mycobacterial porin MspA linked to a sensitizer-viologen Diad. *Journal of the American Chemical Society*, **2013**, 135, 6842-5	16.4	18
39	Light-to-electron converting panchromatic supramolecular solar cells of phthalocyanine-porphyrin heterodimers adsorbed onto nanocrystalline SnO2 electrodes. *Chemical Communications*, **2012**, 48, 3641-3	5.8	25
38	Phenothiazine-sensitized organic solar cells: effect of dye anchor group positioning on the cell performance. *ACS Applied Materials & Interfaces*, **2012**, 4, 5813-20	9.5	110
37	Antioxidant-substituted tetrapyrazinoporphyrazine as a fluorescent sensor for basic anions. *Chemical Communications*, **2012**, 48, 3951-3	5.8	21
36	A novel BF2-chelated azadipyrromethene-fullerene dyad: synthesis, electrochemistry and photodynamics. *Chemical Communications*, **2012**, 48, 206-8	5.8	82
35	Development of nanopatterned fluorine-doped tin oxide electrodes for dye-sensitized solar cells with improved light trapping. *ACS Applied Materials & Interfaces*, **2012**, 4, 1565-72	9.5	51
34	Surface-Immobilized Single-Site Iridium Complexes for Electrocatalytic Water Splitting. *Angewandte Chemie*, **2012**, 124, 9739-9743	3.6	34

33	R□ktitelbild: Surface-Immobilized Single-Site Iridium Complexes for Electrocatalytic Water Splitting (Angew. Chem. 38/2012). *Angewandte Chemie*, **2012**, 124, 9838-9838	3.6	
32	Surface-immobilized single-site iridium complexes for electrocatalytic water splitting. *Angewandte Chemie - International Edition*, **2012**, 51, 9601-5	16.4	113
31	Supramolecular Donor□Acceptor Assembly Derived from Tetracarbazole□Zinc Phthalocyanine Coordinated to Fullerene: Design, Synthesis, Photochemical, and Photoelectrochemical Studies. *Journal of Physical Chemistry C*, **2012**, 116, 11964-11972	3.8	36
30	Photoinduced charge separation in three-layer supramolecular nanohybrids: fullerene-porphyrin-SWCNT. *Physical Chemistry Chemical Physics*, **2012**, 14, 2940-50	3.6	18
29	Control over photoinduced energy and electron transfer in supramolecular polyads of covalently linked azaBODIPY-bisporphyrin Y-molecular clip-Y-hosting fullerene. *Journal of the American Chemical Society*, **2012**, 134, 654-64	16.4	142
28	Functionalization of diameter-sorted semiconductive SWCNTs with photosensitizing porphyrins: syntheses and photoinduced electron transfer. *Chemistry - A European Journal*, **2012**, 18, 11388-98	4.8	24
27	Enhanced photocurrents via redox modulation by fluoride binding to oxoporphyrinogen in a zinc porphyrin-oxoporphyrinogen surface modified TiO2 supramolecular solar cell. *Chemical Communications*, **2011**, 47, 6003-5	5.8	35
26	Syntheses, electrochemistry, and photodynamics of ferrocene-azadipyrromethane donor--acceptor dyads and triads. *Journal of Physical Chemistry A*, **2011**, 115, 9810-9	2.8	63
25	Photoinduced processes of the supramolecularly functionalized semi-conductive SWCNTs with porphyrinsvia ion-pairing interactions. *Energy and Environmental Science*, **2011**, 4, 707-716	35.4	35
24	Distinguishing homogeneous from heterogeneous catalysis in electrode-driven water oxidation with molecular iridium complexes. *Journal of the American Chemical Society*, **2011**, 133, 10473-81	16.4	263
23	Diameter-sorted SWCNT-porphyrin and SWCNT-phthalocyanine conjugates for light-energy harvesting. *ChemPhysChem*, **2011**, 12, 2266-73	3.2	46
22	Photochemical charge separation in closely positioned donor-boron dipyrrin-fullerene triads. *Chemistry - A European Journal*, **2011**, 17, 3147-56	4.8	57
21	Near unity photon-to-electron conversion efficiency of photoelectrochemical cells built on cationic water-soluble porphyrins electrostatically decorated onto thin-film nanocrystalline SnO□surface. *ACS Applied Materials & Interfaces*, **2011**, 3, 2368-76	9.5	25
20	Formation and photoinduced properties of zinc porphyrin-SWCNT and zinc phthalocyanine-SWCNT nanohybrids using diameter sorted nanotubes assembled via metal-ligand coordination and □ stacking. *Journal of Porphyrins and Phthalocyanines*, **2011**, 15, 1033-1043	1.8	18
19	Photoinduced electron transfer in a directly linked meso-triphenylamine zinc porphyrin-quinone dyad. *Journal of Porphyrins and Phthalocyanines*, **2011**, 15, 391-400	1.8	8
18	Photochemical charge separation in supramolecular phthalocyanine-multifullerene conjugates assembled by crown ether-alkyl ammonium cation interactions. *Journal of Physical Chemistry A*, **2010**, 114, 10951-9	2.8	46
17	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. *Journal of Physical Chemistry A*, **2010**, 114, 268-77	2.8	47
16	Electronic energy harvesting multi BODIPY-zinc porphyrin dyads accommodating fullerene as photosynthetic composite of antenna-reaction center. *Physical Chemistry Chemical Physics*, **2010**, 12, 7434-44	3.6	84

15	Effect of anion binding on charge stabilization in a bis-fullerene-oxoporphyrinogen conjugate. *Chemical Communications*, **2010**, 46, 7933-5	5.8	13
14	Photoinduced Charge Separation in Ion-Paired Porphyrin–Single-Wall Carbon Nanotube Donor–Acceptor Hybrids. *Journal of Physical Chemistry C*, **2009**, 113, 13425-13432	3.8	55
13	Anion-complexation-induced stabilization of charge separation. *Journal of the American Chemical Society*, **2009**, 131, 16138-46	16.4	85
12	Supramolecular Donor–Acceptor Hybrid of Electropolymerized Zinc Porphyrin with Axially Coordinated Fullerene: Formation, Characterization, and Photoelectrochemical Properties. *Journal of Physical Chemistry C*, **2009**, 113, 8982-8989	3.8	48
11	Supramolecular solar cells: surface modification of nanocrytalline TiO(2) with coordinating ligands to immobilize sensitizers and dyads via metal-ligand coordination for enhanced photocurrent generation. *Journal of the American Chemical Society*, **2009**, 131, 14646-7	16.4	101
10	Pyrazinacenes: aza analogues of acenes. *Journal of Organic Chemistry*, **2009**, 74, 8914-23	4.2	55
9	Through-bond photoinduced electron transfer in a porphyrin-fullerene conjugate held by a Hamilton type hydrogen bonding motif. *Organic and Biomolecular Chemistry*, **2009**, 7, 1076-80	3.9	23
8	Photosynthetic antenna-reaction center mimicry: sequential energy- and electron transfer in a self-assembled supramolecular triad composed of boron dipyrrin, zinc porphyrin and fullerene. *Journal of Physical Chemistry A*, **2009**, 113, 8478-89	2.8	88
7	Photosynthetic reaction center mimicry: low reorganization energy driven charge stabilization in self-assembled cofacial zinc phthalocyanine dimer-fullerene conjugate. *Journal of the American Chemical Society*, **2009**, 131, 8787-97	16.4	170
6	Metal quinolinolate-fullerene(s) donor-acceptor complexes: evidence for organic LED molecules acting as electron donors in photoinduced electron-transfer reactions. *Journal of the American Chemical Society*, **2008**, 130, 16959-67	16.4	31
5	Co-facial magnesium porphyrin dimer complexed with fullerene: photosynthetic reaction center model of 'special pair'-self-assembled to electron acceptor. *Journal of Porphyrins and Phthalocyanines*, **2008**, 12, 857-865	1.8	13
4	Corrole-fullerene dyads: formation of long-lived charge-separated states in nonpolar solvents. *Journal of the American Chemical Society*, **2008**, 130, 14263-72	16.4	165
3	Self-assembled single-walled carbon nanotube:zinc-porphyrin hybrids through ammonium ion-crown ether interaction: construction and electron transfer. *Chemistry - A European Journal*, **2007**, 13, 8277-84	4.8	73
2	Light-Induced Electron Transfer of a Supramolecular Bis(Zinc Porphyrin)–Fullerene Triad Constructed via a Diacetylamidopyridine/Uracil Hydrogen-Bonding Motif. *Journal of Physical Chemistry C*, **2007**, 111, 12500-12503	3.8	39
1	Supramolecular carbon nanotube-fullerene donor-acceptor hybrids for photoinduced electron transfer. *Journal of the American Chemical Society*, **2007**, 129, 15865-71	16.4	141