

# Arunkumar Kathiravan

## List of Publications by Citations

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93  
papers

2,256  
citations

25  
h-index

44  
g-index

97  
ext. papers

2,571  
ext. citations

4  
avg, IF

5.21  
L-index

#	Paper	IF	Citations
93	Photoinduced charge carrier dynamics of Zn-porphyrin-TiO <sub>2</sub> electrodes: the key role of charge recombination for solar cell performance. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 3679-90	2.8	193
92	Spectroscopic studies on the interaction of colloidal capped CdS nanoparticles with bovine serum albumin. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2009</b> , 72, 167-72	6	127
91	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. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 6066-6080	3.8	126
90	Interaction of anthraquinone dyes with lysozyme: evidences from spectroscopic and docking studies. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 175, 985-91	12.8	116
89	Effect of anchoring group on the photosensitization of colloidal TiO <sub>2</sub> nanoparticles with porphyrins. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 331, 401-7	9.3	106
88	Pyrene Schiff base: photophysics, aggregation induced emission, and antimicrobial properties. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 13573-81	3.4	90
87	Study on the binding of colloidal zinc oxide nanoparticles with bovine serum albumin. <i>Journal of Molecular Structure</i> , <b>2009</b> , 934, 129-137	3.4	79
86	The interaction of sonochemically synthesized gold nanoparticles with serum albumins. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2010</b> , 53, 804-10	3.5	78
85	Photoinduced interactions between colloidal TiO <sub>2</sub> nanoparticles and calf thymus-DNA. <i>Polyhedron</i> , <b>2009</b> , 28, 1374-1378	2.7	69
84	Spectroscopic studies on the interaction between phycocyanin and bovine serum albumin. <i>Journal of Molecular Structure</i> , <b>2009</b> , 919, 210-214	3.4	64
83	Photoinduced interaction between xanthene dyes and colloidal CdS nanoparticles. <i>Journal of Molecular Structure</i> , <b>2009</b> , 921, 279-284	3.4	55
82	Interaction of colloidal AgTiO <sub>2</sub> nanoparticles with bovine serum albumin. <i>Polyhedron</i> , <b>2009</b> , 28, 157-161	2.7	53
81	Photosensitization of colloidal TiO <sub>2</sub> nanoparticles with phycocyanin pigment. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 335, 196-202	9.3	52
80	Antimicrobial activity, cytotoxicity and DNA binding studies of carbon dots. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2018</b> , 196, 295-302	4.4	47
79	Interaction of colloidal TiO <sub>2</sub> with bovine serum albumin: A fluorescence quenching study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2008</b> , 324, 176-180	5.1	47
78	Photoinduced interaction between MPA capped CdTe QDs and certain anthraquinone dyes. <i>Journal of Luminescence</i> , <b>2011</b> , 131, 597-602	3.8	39
77	Photoinduced interaction of colloidal TiO <sub>2</sub> nanoparticles with lysozyme: Evidences from spectroscopic studies. <i>Journal of Luminescence</i> , <b>2011</b> , 131, 1975-1981	3.8	39

76	Interaction of colloidal TiO <sub>2</sub> with human serum albumin: A fluorescence quenching study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2009</b> , 333, 91-95	5.1	38
75	The role of linkers in tuning the optoelectronic properties of triphenylamine derivatives for solar cell applications - A DFT/TDDFT study. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 6153-6163	3.6	36
74	Fluorescence quenching of meso-tetrakis (4-sulfonatophenyl) porphyrin by colloidal TiO <sub>2</sub> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2008</b> , 70, 615-8	4.4	35
73	Photoinduced electron transfer reactions between meso-tetrakis(4-sulfonatophenyl)porphyrin and colloidal metal-semiconductor nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2009</b> , 333, 175-181	5.1	32
72	An investigation on fluorescence quenching of certain porphyrins by colloidal CdS. <i>Journal of Luminescence</i> , <b>2009</b> , 129, 854-860	3.8	31
71	Photoinduced electron transfer from phycoerythrin to colloidal metal semiconductor nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2009</b> , 72, 496-501	4.4	29
70	Unravelling the effect of anchoring groups on the ground and excited state properties of pyrene using computational and spectroscopic methods. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 13332-45	3.6	29
69	In vitro antioxidant and antimicrobial activities of Merremia emarginata using thio glycolic acid-capped cadmium telluride quantum dots. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2013</b> , 101, 74-82	6	27
68	Pyrene-Based Chemosensor for Picric Acid-Fundamentals to Smartphone Device Design. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 13244-13250	7.8	25
67	Cyanobacterial chlorophyll as a sensitizer for colloidal TiO <sub>2</sub> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2009</b> , 71, 1783-7	4.4	25
66	Pyrene based D-πA architectures: synthesis, density functional theory, photophysics and electron transfer dynamics. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 3125-3135	3.6	24
65	Aggregation behaviour and electron injection/recombination dynamics of symmetrical and unsymmetrical Zn-phthalocyanines on TiO <sub>2</sub> film. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 1015-21	3.6	23
64	A simple and ubiquitous device for picric acid detection in latent fingerprints using carbon dots. <i>Analyst, The</i> , <b>2020</b> , 145, 4532-4539	5	22
63	Control of the size and shape of TiO <sub>2</sub> nanoparticles in restricted media. <i>Nanotechnology</i> , <b>2013</b> , 24, 195601	3.4	22
62	An investigation on electron transfer quenching of zinc(II) meso-tetraphenylporphyrin (ZnTPP) by colloidal TiO <sub>2</sub> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2008</b> , 71, 1106-9	4.4	22
61	Fluorescent Carbon Dots Derived from Vehicle Exhaust Soot and Sensing of Tartrazine in Soft Drinks. <i>ACS Omega</i> , <b>2020</b> , 5, 7025-7031	3.9	21
60	Fuel waste to fluorescent carbon dots and its multifarious applications. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 282, 972-983	8.5	20
59	Photoinduced interaction between riboflavin and TiO <sub>2</sub> colloid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2008</b> , 71, 1080-3	4.4	18

58	A diminutive modification in arylamine electron donors: synthesis, photophysics and solvatochromic analysis--towards the understanding of dye sensitized solar cell performances. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 28647-57	3.6	16
57	Probing electron transfer dynamics of pyranine with reduced graphene oxide. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 20878-86	3.6	16
56	Electron transfer dynamics from the singlet and triplet excited states of meso-tetrakis(p-carboxyphenyl)porphyrin into colloidal TiO <sub>2</sub> and AuTiO <sub>2</sub> nanoparticles. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 348, 642-8	9.3	16
55	DNA Targeting Long-Chain Alkoxy Appended Tin(IV) Porphyrin Scaffolds: Photophysical and Antimicrobial PDT Investigations.. <i>ACS Applied Bio Materials</i> , <b>2018</b> , 1, 1705-1716	4.1	16
54	Pyrene-based prospective biomaterial: In vitro bioimaging, protein binding studies and detection of bilirubin and Fe. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2019</b> , 221, 117150-4	4.4	15
53	Nanostructured Graphene Oxide Dots: Synthesis, Characterization, Photoinduced Electron Transfer Studies, and Detection of Explosives/Biomolecules. <i>ACS Omega</i> , <b>2018</b> , 3, 9096-9104	3.9	15
52	A combined experimental and computational characterization of D <sub>A</sub> dyes containing heterocyclic electron donors. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2017</b> , 332, 453-464	4.7	15
51	New D <sub>A</sub> Configured Dye for Efficient Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 22241-22251	3.8	15
50	Protoporphyrin IX on TiO <sub>2</sub> electrode: A spectroscopic and photovoltaic investigation. <i>Dyes and Pigments</i> , <b>2013</b> , 96, 196-203	4.6	14
49	Fluorescence Quenching of Xanthene Dyes by TiO <sub>2</sub> . <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2007</b> , 221, 941-948	3.48	14
48	Luminescence and magnetic properties of novel nanoparticle-sheathed 3D Micro-Architectures of Fe <sub>0.5</sub> R <sub>0.5</sub> (MoO <sub>4</sub> ) <sub>1.5</sub> :Ln <sup>3+</sup> (R = Gd <sup>3+</sup> , La <sup>3+</sup> ), (Ln = Eu, Tb, Dy) for bifunctional application. <i>Electronic Materials Letters</i> , <b>2015</b> , 11, 24-33	2.9	12
47	Investigation on the fluorescence quenching of 2,3-diazabicyclo[2.2.2]oct-2-ene (DBO) by certain estrogens and catechols. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2008</b> , 193, 204-212	4.7	12
46	Unravel the interaction of protoporphyrin IX with reduced graphene oxide by vital spectroscopic techniques. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2017</b> , 178, 86-93	4.4	11
45	Interaction between certain porphyrins and CdS colloids: a steady state and time resolved fluorescence quenching study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2008</b> , 71, 1507-11	4.4	11
44	AIE Nanodots Obtained from a Pyrene Schiff Base and Their Applications. <i>ChemistrySelect</i> , <b>2017</b> , 2, 13531-1359	13.59	10
43	Zn-Porphyrin propped with hydantoin anchor: synthesis, photophysics and electron injection/recombination dynamics. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 5117-5127	3.6	10
42	Fluorescence Quenching of Meso-Tetrakis(p-Sulfonatophenyl)Porphyrin (TSPP) by certain Organic Dyes. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2008</b> , 222, 987-995	3.1	10
41	Synthesis and electronic properties of A3B-thienyl porphyrins: experimental and computational investigations. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 1569-1580	3.6	9

40	Photoinduced interaction of arylamine dye with carbon quantum dots ensued from <i>Centella asiatica</i> . <i>Journal of Luminescence</i> , <b>2017</b> , 192, 321-327	3.8	9
39	A Study on the Fluorescence Quenching of Eosin by certain Organic Dyes. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2008</b> , 222, 1013-1021	3.1	9
38	Anthracene based AIEgen for picric acid detection in real water samples. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2019</b> , 220, 117144	4.4	8
37	A pyrene based colorimetric chemosensor for CO <sub>2</sub> gas detection triggered by fluoride ion. <i>Chemical Physics Letters</i> , <b>2019</b> , 719, 67-71	2.5	8
36	Ultraslow recombination in AOT-capped TiO <sub>2</sub> nanoparticles sensitized by protoporphyrin IX. <i>Dalton Transactions</i> , <b>2014</b> , 43, 15065-74	4.3	8
35	Fluorescence Quenching of Tris(2,2'-bipyridine)Ruthenium(II) Dichloride by Certain Organic Dyes. <i>Journal of Solution Chemistry</i> , <b>2010</b> , 39, 1520-1530	1.8	8
34	A combined experimental and computational investigation on pyrene based D-πA dyes. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 6264-6273	3.6	7
33	Zn-phthalocyanine-functionalized nanometal and nanometal-TiO <sub>2</sub> hybrids: aggregation behavior and excited-state dynamics. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 14139-49	3.6	7
32	Interaction of meso-tetrakis (p-sulfonatophenyl) porphyrin (TSPP) with pyrimidines: A steady state and time-resolved fluorescence quenching study. <i>Journal of Molecular Structure</i> , <b>2009</b> , 919, 79-82	3.4	7
31	Fluorescence Quenching Study on Electron Transfer from Certain Amines to Excited State Triphenylpyrylium Ion (TPP <sup>+</sup> ). <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2007</b> , 221, 929-939	3.1	7
30	Zinc titanate nanomaterials photocatalytic studies and sensitization of hydantoin derivatized porphyrin dye. <i>Nano Structures Nano Objects</i> , <b>2020</b> , 21, 100412	5.6	7
29	IoT-enabled dye-sensitized solar cells: an effective embedded tool for monitoring the outdoor device performance.. <i>RSC Advances</i> , <b>2020</b> , 10, 35787-35791	3.7	6
28	Light induced behavior of xanthene dyes with benzyl viologen. <i>Synthetic Metals</i> , <b>2014</b> , 196, 131-138	3.6	6
27	Investigation on the Photoinduced Interaction Between Water Soluble CdTe Quantum Dots and Certain Antioxidants. <i>Advanced Science Letters</i> , <b>2011</b> , 4, 3490-3495	0.1	6
26	Internet of Things-Enabled Aggregation-Induced Emission Probe for Cu Ions: Comprehensive Investigations and Three-Dimensional Printed Portable Device Design. <i>ACS Omega</i> , <b>2020</b> , 5, 32761-32768	3.9	5
25	Excited state electron transfer reactions of Protoporphyrin IX with fullerene. <i>Synthetic Metals</i> , <b>2014</b> , 194, 77-81	3.6	5
24	Tin(IV) Porphyrins Containing π-Substituted Bromines: Synthesis, Conformations, Electrochemistry and Photophysical Evaluation. <i>European Journal of Inorganic Chemistry</i> , <b>2018</b> , 2018, 3868-3877	2.3	5
23	Probing the Highly Efficient Electron Transfer Dynamics between Zinc Protoporphyrin IX and Sodium Titanate Nanosheets. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 7121-9	2.8	4

22	Facile synthesis of carbon nanocubes and its applications for sensing antibiotics. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2020</b> , 403, 112855	4-7	4
21	Synthesis, crystal structure, bovine serum albumin binding studies of 1,2,4-triazine based copper(I) complexes. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1207, 127821	3-4	4
20	Photophysics, TiO <sub>2</sub> sensitization and photovoltaic performance of Zn-ProtoporphyrinIX. <i>Journal of Molecular Structure</i> , <b>2017</b> , 1134, 112-120	3-4	3
19	Impact of capping agent on the electron transfer dynamics of CdTe QDs with methyl viologen. <i>Journal of Luminescence</i> , <b>2016</b> , 178, 356-361	3-8	3
18	Substituent Effect on the Photophysics and ESIPT Mechanism of ,SBis(salicylidene)--phenylenediamine: A DFT/TD-DFT Analysis. <i>Journal of Chemical Information and Modeling</i> , <b>2021</b> , 61, 1825-1839	6-1	3
17	An Efficient Turn-ON Fluorescent Probe for Fluoride ions [Meticulous Investigations and Development of Arduino Microcomputer Integrated Smartphone Device. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 345, 117042	6	3
16	Sensory materials for microfluidic paper based analytical devices - A review. <i>Talanta</i> , <b>2021</b> , 235, 122733	6.2	3
15	Pyrene based chemosensor for carbon dioxide gas [Meticulous investigations and digital image based RGB analysis. <i>Sensors and Actuators Reports</i> , <b>2020</b> , 2, 100007	4-7	2
14	Oxidative fluorescence quenching of Mg-phthalocyanine by quinones. <i>Journal of Molecular Liquids</i> , <b>2014</b> , 194, 188-192	6	2
13	Reductive fluorescence quenching of DMP with aniline. <i>Journal of Luminescence</i> , <b>2014</b> , 145, 188-193	3-8	2
12	Investigation on the Photoinduced Interaction of Water Soluble Thio Glycolic Acid Capped CdSe Quantum Dots with Lysozyme. <i>Advanced Science Letters</i> , <b>2011</b> , 4, 377-382	0-1	2
11	Photoinduced electron transfer reactions of pyranine with benzoquinone and titanium dioxide. <i>Luminescence</i> , <b>2016</b> , 31, 1344-1348	2-5	1
10	Probing electron transfer dynamics of phenosafranin with iodide. <i>Journal of Luminescence</i> , <b>2016</b> , 169, 245-250	3-8	1
9	Photosensitization of Colloidal TiO <sub>2</sub> with ZnTPP and Pyrene. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2008</b> , 222, 647-654	3-1	1
8	Synthesis, density functional theory and sensitization of indole dyes. <i>Materials Letters</i> , <b>2021</b> , 283, 128745	3-3	1
7	Evaluation of the anti-rheumatic properties of thymol using carbon dots as nanocarriers on FCA induced arthritic rats. <i>Food and Function</i> , <b>2021</b> , 12, 5038-5050	6-1	1
6	Investigation of photophysical insights into the CsPbBr <sub>3</sub> -porphyrazine system in solution. <i>Chemical Physics Letters</i> , <b>2022</b> , 792, 139427	2-5	0
5	Y-shaped fluorophore: Synthesis, crystal structure and picric acid detection. <i>Journal of Molecular Structure</i> , <b>2021</b> , 1238, 130442	3-4	0

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| 4 | Immersion solvent dependent photophysical and photovoltaic properties of Porphyrin/TiO <sub>2</sub> interface. <i>Chemical Physics Letters</i> , <b>2021</b> , 781, 138963                  | 2.5 | ○ |
| 3 | Delineating the effect of substituent and Ebridge flip on the photophysical properties of pyrene derivatives: answers from DFT/TD-DFT calculations. <i>Journal of Materials Science</i> , 1 | 4.3 | ○ |
| 2 | Fluorescence Quenching of Phycoerythrin by Anthraquinone Dyes. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2010</b> , 224, 1337-1346   | 3.1 |   |
| 1 | Photoinduced Electron Transfer between Triphenylpyrylium Ion (TPP <sup>+</sup> ) and Certain Phenols. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2008</b> , 222, 1591-1599            | 3.1 |   |