

Sankar Jana

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,088
citations

361296

20
h-index

414303

32
g-index

42
all docs

42
docs citations

42
times ranked

1366
citing authors

#	ARTICLE	IF	CITATIONS
1	Proton Transfer Assisted Charge Transfer Phenomena in Photochromic Schiff Bases and Effect of NEt_2 Groups to the Anil Schiff Bases. <i>Journal of Physical Chemistry A</i> , 2012, 116, 10948-10958.	1.1	80
2	Anion recognition by simple chromogenic and chromo-fluorogenic salicylidene Schiff base or reduced-Schiff base receptors. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 129, 499-508.	2.0	69
3	Multifunctional fluorescent probe selective for Cu(II) and Fe(III) with dual-mode of binding approach. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 1106-1111.	4.0	67
4	Three new pseudohalide bridged dinuclear Zn(II), Cd(II) complexes of pyrimidine derived Schiff base ligands: Synthesis, crystal structures and fluorescence studies. <i>Polyhedron</i> , 2012, 33, 82-89.	1.0	65
5	Domain Specific Association of Small Fluorescent Probe <i>trans</i> -3-(4-Monomethylaminophenyl)-Acrylonitrile (MMAPA) with Bovine Serum Albumin (BSA) and Its Dissociation from Protein Binding Sites by Ag Nanoparticles: Spectroscopic and Molecular Docking Study. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1155-1163.	1.2	60
6	Binding interaction between plasma protein bovine serum albumin and flexible charge transfer fluorophore: A spectroscopic study in combination with molecular docking and molecular dynamics simulation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 231, 19-27.	2.0	60
7	Exploring structural change of protein bovine serum albumin by external perturbation using extrinsic fluorescence probe: spectroscopic measurement, molecular docking and molecular dynamics simulation. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 323-332.	1.6	54
8	Naked-eye detection of F^- and AcO^- ions by Schiff base receptor. <i>Journal of Fluorine Chemistry</i> , 2011, 132, 536-540.	0.9	52
9	Excited State Intramolecular Charge Transfer Suppressed Proton Transfer Process in 4-(Diethylamino)-2-hydroxybenzaldehyde. <i>Journal of Physical Chemistry A</i> , 2013, 117, 4367-4376.	1.1	48
10	Study of microheterogeneous environment of protein Human Serum Albumin by an extrinsic fluorescent reporter: A spectroscopic study in combination with Molecular Docking and Molecular Dynamics Simulation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2012, 112, 48-58.	1.7	44
11	Highly selective and sensitive fluorescence reporter for toxic Hg(II) ion by a synthetic symmetrical azine derivative. <i>Sensors and Actuators B: Chemical</i> , 2011, 157, 615-620.	4.0	39
12	A Multifunctional Porous Organic Schottky Barrier Diode. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12534-12537.	7.2	37
13	Fluorescent chemosensor for Zn(II) ion by ratiometric displacement of Cd(II) ion: A spectroscopic study and DFT calculation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 238, 7-15.	2.0	32
14	Test kit for detection of biologically important anions: A salicylidene-hydrazine based Schiff base. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 102, 314-318.	2.0	28
15	Potential charge transfer probe induced conformational changes of model plasma protein human serum albumin: Spectroscopic, molecular docking, and molecular dynamics simulation study. <i>Biopolymers</i> , 2012, 97, 766-777.	1.2	27
16	Photoinduced intramolecular charge transfer phenomena in 5-(4-dimethylamino-phenyl)-penta-2,4-dienoic acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 78, 463-468.	2.0	25
17	Excited State Charge Transfer reaction with dual emission from 5-(4-dimethylamino-phenyl)-penta-2,4-dienenitrile: Spectral measurement and theoretical density functional theory calculation. <i>Journal of Molecular Structure</i> , 2011, 998, 136-143.	1.8	25
18	Spectroscopic, colorimetric and theoretical investigation of Salicylidene hydrazine based reduced Schiff base and its application towards biologically important anions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 92, 131-136.	2.0	24

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19	Solvent modulated photophysics of 9-methyl anthroate: Exploring the effect of polarity and hydrogen bonding on the emissive state. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 112, 237-244.	2.0	21
20	Excited state intramolecular charge transfer process in 5-(4-dimethylamino-phenyl)-penta-2,4-dienoic acid ethyl ester and effect of acceptor functional groups. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 261, 31-40.	2.0	21
21	Functional group induced excited state intramolecular proton transfer process in 4-amino-2-methylsulfanyl-pyrimidine-5-carboxylic acid ethyl ester: a combined spectroscopic and density functional theory study. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 1636-1648.	1.6	21
22	Fluorescent Probing of Protein Bovine Serum Albumin Stability and Denaturation Using Polarity Sensitive Spectral Response of a Charge Transfer Probe. <i>Journal of Fluorescence</i> , 2011, 21, 365-374.	1.3	17
23	Reusable anion detection kit: An aqueous medium anion detection. <i>Sensors and Actuators B: Chemical</i> , 2012, 162, 57-62.	4.0	17
24	Donor- π -Pyrene- π -Acceptor Distance-Dependent Intramolecular Charge-Transfer Process: A State-Specific Solvation Preferred to the Linear-Response Approach. <i>ACS Omega</i> , 2020, 5, 9944-9956.	1.6	16
25	Colorimetric π -Naked-eye- π -Highly Selective Detection of Cu(II) Ion by a Simple Chemosensor: An Experimental and Theoretical Modeling. <i>Chemistry Letters</i> , 2011, 40, 279-281.	0.7	15
26	Modulated photophysics of a cationic DNA-staining dye inside protein bovine serum albumin: Study of binding interaction and structural changes of protein. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 121, 23-34.	2.0	15
27	Reusable Amine-Based Structural Motifs for Green House Gas (CO ₂) Fixation. <i>Organic Letters</i> , 2012, 14, 3244-3247.	2.4	14
28	An efficient size-selective anion binding cleft-shaped receptor: A novel [F ₂ (H ₂ O) ₃] ²⁺ cluster with pseudo-encapsulated F ⁻ ion. <i>CrystEngComm</i> , 2012, 14, 1527-1530.	1.3	14
29	Reduced Schiff-base assisted novel dihydrogenphosphate- π -water polymer. <i>CrystEngComm</i> , 2012, 14, 6029.	1.3	10
30	A Molecular Lock and Key: π -Unlocked- π -Locked- π -Conformational Switching of a Receptor by Anions. <i>ChemPlusChem</i> , 2012, 77, 93-97.	1.3	9
31	Retinal Binding to Apo-Gloeobacter Rhodopsin: The Role of pH and Retinal- π -Carotenoid Interaction. <i>Journal of Physical Chemistry B</i> , 2017, 121, 10759-10769.	1.2	9
32	Development of a Multicolor Line-Focus Microscope for Rapid Acquisitions of Excitation Spectra. <i>Biophysical Journal</i> , 2020, 118, 36-43.	0.2	9
33	Redox-state dependent blinking of single photosystem I trimers at around liquid-nitrogen temperature. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2019, 1860, 30-40.	0.5	8
34	The chirality origin of retinal-carotenoid complex in gloeobacter rhodopsin: a temperature-dependent excitonic coupling. <i>Scientific Reports</i> , 2020, 10, 13992.	1.6	7
35	Constrained photophysics of partially and fully encapsulated charge transfer probe (E)-3-(4-Methylaminophenyl) acrylic acid methyl ester inside cyclodextrin nano-cavities: Evidence of cyclodextrins cavity dependent complex stoichiometry. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 84, 249-255.	2.0	6
36	Fine Structure and Swelling Properties of Fibers from Regenerated Rennet-Treated Casein Micelles. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	1.7	6

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37	Transition Metal Ions or Acid-Induced Suppression of Photoinduced Proton Transfer and Electron Transfer Reaction in 5-(4-Fluorophenyl)-2-Hydroxypyridine: A Molecule of Dual Mode Fluorosensitivity. <i>Photochemistry and Photobiology</i> , 2010, 86, 1022-1029.	1.3	4
38	Spectral modulation of a charge transfer reaction of 2-methoxy-4-(N,N-dimethylamino)benzaldehyde inside cyclodextrin nanocage. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2013, 75, 57-68.	1.6	3
39	Chemodosimetric Detection of the Acetate Anion by Using the Template Reaction Method via a Fluorescence "Turn-Off" Signal. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 5432-5442.	1.0	3
40	Twin-FRET: A New Molecular Ruler for Biomolecules. <i>Biophysical Journal</i> , 2019, 116, 565a.	0.2	0