

Nakul C Maiti

List of Publications by Year in descending order

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61
papers

2,986
citations

304743

22
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161849

54
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64
all docs

64
docs citations

64
times ranked

4811
citing authors

#	ARTICLE	IF	CITATIONS
1	J- and H-Aggregates of Porphyrin~Surfactant Complexes: Time-Resolved Fluorescence and Other Spectroscopic Studies. <i>Journal of Physical Chemistry B</i> , 1998, 102, 1528-1538.	2.6	753
2	Raman Spectroscopic Characterization of Secondary Structure in Natively Unfolded Proteins: β -Synuclein. <i>Journal of the American Chemical Society</i> , 2004, 126, 2399-2408.	13.7	421
3	Fluorescence Dynamics of Dye Probes in Micelles. <i>Journal of Physical Chemistry B</i> , 1997, 101, 11051-11060.	2.6	281
4	Secondary Structure of β -Synuclein Oligomers: Characterization by Raman and Atomic Force Microscopy. <i>Journal of Molecular Biology</i> , 2006, 355, 63-71.	4.2	248
5	Melatonin inhibits matrix metalloproteinase-9 activity by binding to its active site. <i>Journal of Pineal Research</i> , 2013, 54, 398-405.	7.4	96
6	Novel Anti-inflammatory Activity of Epoxyazadiradione against Macrophage Migration Inhibitory Factor. <i>Journal of Biological Chemistry</i> , 2012, 287, 24844-24861.	3.4	83
7	Structure-Specific Effects of Protein Topology on Cross- β Assembly: Studies of Insulin Fibrillation. <i>Biochemistry</i> , 2006, 45, 10278-10293.	2.5	75
8	Synthesis and biological evaluation of a novel betulinic acid derivative as an inducer of apoptosis in human colon carcinoma cells (HT-29). <i>European Journal of Medicinal Chemistry</i> , 2015, 102, 93-105.	5.5	71
9	A Novel Spirooxindole Derivative Inhibits the Growth of <i>Leishmania donovani</i> Parasites both <i>In Vitro</i> and <i>In Vivo</i> by Targeting Type IB Topoisomerase. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 6281-6293.	3.2	54
10	Porphyrin~Gold Nanomaterial for Efficient Drug Delivery to Cancerous Cells. <i>ACS Omega</i> , 2018, 3, 4602-4619.	3.5	53
11	$^1J_{CH}$ Correlates with Alcohol Hydrogen Bond Strength. <i>Journal of Organic Chemistry</i> , 2006, 71, 2878-2880.	3.2	51
12	Synthesis and biological evaluation of andrographolide analogues as anti-cancer agents. <i>European Journal of Medicinal Chemistry</i> , 2014, 85, 95-106.	5.5	44
13	Zn ²⁺ -Catalyzed Diastereoselective [4 + 2] Cycloadditions of β , γ -Unsaturated β -Ketoesters with Olefins. <i>Journal of Organic Chemistry</i> , 2015, 80, 2972-2988.	3.2	36
14	Effects of non-planarity and β -substitution on the singlet-excited-state properties of basket-handle porphyrins. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 1095-1100.	1.7	35
15	Stability and binding interaction of bilirubin on a gold nano-surface: steady state fluorescence and FT-IR investigation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 20013-20022.	2.8	33
16	2,2'-Diphenyl-3,3'-Diindolylmethane: A Potent Compound Induces Apoptosis in Breast Cancer Cells by Inhibiting EGFR Pathway. <i>PLoS ONE</i> , 2013, 8, e59798.	2.5	32
17	Mechanistic Studies of Cu(II) Binding to Amyloid- β Peptides and the Fluorescence and Redox Behaviors of the Resulting Complexes. <i>Journal of Physical Chemistry B</i> , 2008, 112, 8406-8411.	2.6	31
18	Hydrogen bonding plays a significant role in the binding of coomassie brilliant blue-R to hemoglobin: FT-IR, fluorescence and molecular dynamics studies. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31216-31227.	2.8	30

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19	Synthesis, characterization and cytotoxicity study of magnetic (Fe ₃ O ₄) nanoparticles and their drug conjugate. <i>RSC Advances</i> , 2012, 2, 2493.	3.6	28
20	Resonance Raman studies on xanthine oxidase: observation of MoVI-ligand vibrations. <i>Journal of Biological Inorganic Chemistry</i> , 2003, 8, 327-333.	2.6	26
21	Synthesis and bio-evaluation of human macrophage migration inhibitory factor inhibitor to develop anti-inflammatory agent. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 7365-7373.	3.0	26
22	Structural Insight of Amyloidogenic Intermediates of Human Insulin. <i>ACS Omega</i> , 2018, 3, 2452-2462.	3.5	26
23	Order, Disorder, and Reorder State of Lysozyme: Aggregation Mechanism by Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2020, 124, 50-60.	2.6	26
24	Correlation of an Alcohol's $\hat{C}-D$ Stretch with Hydrogen Bond Strength in Complexes with Amines. <i>Journal of Physical Chemistry A</i> , 2003, 107, 9910-9917.	2.5	24
25	Tamarixetin 3-O- β -D-Glucopyranoside from <i>Azadirachta indica</i> Leaves: Gastroprotective Role through Inhibition of Matrix Metalloproteinase-9 Activity in Mice. <i>Journal of Natural Products</i> , 2017, 80, 1347-1353.	3.0	23
26	Fluorescence study of some deformed zinc (II) porphyrins. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1996, 101, 7-10.	3.9	22
27	Pyridine-pyrazole based Al(III) turn on pH sensor for MCF7 cancer cell imaging and detection of picric acid. <i>RSC Advances</i> , 2021, 11, 10094-10109.	3.6	22
28	C^{H} Carries Information of a Hydrogen Bond Involving the Geminal Hydroxyl Group: A Case Study with a Hydrogen-Bonded Complex of 1,1,1,3,3,3-Hexafluoro-2-propanol and Tertiary Amines. <i>Journal of Physical Chemistry A</i> , 2014, 118, 1024-1030.	2.5	21
29	Identification of modes of interactions between 9-aminoacridine hydrochloride hydrate and serum proteins by low and high resolution spectroscopy and molecular modeling. <i>RSC Advances</i> , 2016, 6, 53454-53468.	3.6	21
30	Binding interaction of a gamma-aminobutyric acid derivative with serum albumin: an insight by fluorescence and molecular modeling analysis. <i>SpringerPlus</i> , 2016, 5, 1121.	1.2	20
31	Time-resolved fluorescence of tryptophans in yeast hexokinase-PI: effect of subunit dimerization and ligand binding. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2000, 55, 20-26.	3.8	18
32	Sequence Complexity of Amyloidogenic Regions in Intrinsically Disordered Human Proteins. <i>PLoS ONE</i> , 2014, 9, e89781.	2.5	18
33	Envisaging the Structural Elevation in the Early Event of Oligomerization of Disordered Amyloid β Peptide. <i>ACS Omega</i> , 2017, 2, 4316-4327.	3.5	16
34	Dipeptide derived from benzylcystine forms unbranched nanotubes in aqueous solution. <i>Journal of Nanostructure in Chemistry</i> , 2013, 3, 1.	9.1	15
35	Silver-catalysed azide-alkyne cycloaddition (AgAAC): assessing the mechanism by density functional theory calculations. <i>Royal Society Open Science</i> , 2016, 3, 160090.	2.4	15
36	Formation of Annular Protofibrillar Assembly by Cysteine Tripeptide: Unraveling the Interactions with NMR, FTIR, and Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6367-6379.	2.6	14

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37	Solvent-Assisted Tyrosine-Based Dipeptide Forms Low-Molecular Weight Gel: Preparation and Its Potential Use in Dye Removal and Oil Spillage Separation from Water. <i>ACS Omega</i> , 2019, 4, 14411-14419.	3.5	13
38	Synthesis of N-Fused Triazole-Piperazine-Quinazolinones via One-Pot Tandem Click Reaction and Cross-Dehydrogenative Coupling. <i>Organic Letters</i> , 2021, 23, 9365-9370.	4.6	13
39	Potent anticancer activity of cystine-based dipeptides and their interaction with serum albumins. <i>Chemistry Central Journal</i> , 2013, 7, 91.	2.6	12
40	Molecular Details of a Salt Bridge and Its Role in Insulin Fibrillation by NMR and Raman Spectroscopic Analysis. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1125-1136.	2.6	10
41	Isolation and identification of two isomeric forms of malonyl-coenzyme A in commercial malonyl-coenzyme A. <i>Analytical Biochemistry</i> , 2004, 328, 203-209.	2.4	9
42	Conformation and cytotoxicity of a tetrapeptide constellated with alternative d- and l-proline. <i>RSC Advances</i> , 2012, 2, 6744.	3.6	9
43	Sensing of Iron(III) Ion via Modulation of Redox Potential on Biliverdin Protected Silver Nanosurface. <i>ACS Applied Nano Materials</i> , 2018, 1, 6099-6111.	5.0	9
44	Unveiling the binding interaction of zinc (II) complexes of homologous Schiff-base ligands on the surface of BSA protein: A combined experimental and theoretical approach. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5556.	3.5	9
45	Photophysical properties of structurally deformed basket-handle porphyrins. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995, 91, 4369.	1.7	8
46	Orientation of tyrosine side chain in neurotoxic A β 2 differs in two different secondary structures of the peptide. <i>Royal Society Open Science</i> , 2016, 3, 160112.	2.4	8
47	Solvent Relaxation NMR: A Tool for Real-Time Monitoring Water Dynamics in Protein Aggregation Landscape. <i>ACS Chemical Neuroscience</i> , 2021, 12, 2903-2916.	3.5	8
48	Copper(I) oxide nanoparticle and tryptophan as its biological conjugate: a modulation of cytotoxic effects. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	7
49	Determination of D-Ribose by Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2014, 118, 909-914.	2.6	7
50	Molecular Details of Acetate Binding to a New Diamine Receptor by NMR and FT-IR Analyses. <i>Journal of Physical Chemistry A</i> , 2016, 120, 2330-2341.	2.5	7
51	Porphyrin-Armored Gold Nanospheres Modulate the Secondary Structure of β -Synuclein and Arrest Its Fibrillation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6418-6434.	3.1	7
52	Stereoselective domino azidation and [3 + 2] cycloaddition: a facile route to chiral heterocyclic scaffolds from carbohydrate derived synthons. <i>RSC Advances</i> , 2014, 4, 4155-4162.	3.6	6
53	Cyclophilin-mediated reactivation pathway of inactive adenosine kinase aggregates. <i>Archives of Biochemistry and Biophysics</i> , 2013, 537, 82-90.	3.0	5
54	Binding of hemoglobin to ultrafine carbon nanoparticles: a spectroscopic insight into a major health hazard. <i>RSC Advances</i> , 2014, 4, 22536-22541.	3.6	5

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55	Envisaging Structural Insight of a Terminally Protected Proline Dipeptide by Raman Spectroscopy and Density Functional Theory Analyses. <i>Journal of Physical Chemistry A</i> , 2016, 120, 9829-9840.	2.5	5
56	Metal ions provide structural stability and compactness to tetrameric purothionin. <i>RSC Advances</i> , 2016, 6, 90690-90700.	3.6	4
57	Dabrafenib, idelalisib and nintedanib act as significant allosteric modulator for dengue NS3 protease. <i>PLoS ONE</i> , 2021, 16, e0257206.	2.5	4
58	Impact of porous nanomaterials on inhibiting protein aggregation behaviour. <i>RSC Advances</i> , 2021, 11, 3354-3362.	3.6	4
59	NMR and vibrational spectroscopic studies on the structure and self-assembly of Two de novo dipeptides in methanol. <i>Journal of Molecular Structure</i> , 2022, 1266, 133455.	3.6	4
60	Deciphering the structural intricacy in virulence effectors for proton-motive force mediated unfolding in type-III protein secretion. <i>International Journal of Biological Macromolecules</i> , 2020, 159, 18-33.	7.5	3
61	Conformational selection underpins recognition of multiple DNA sequences by proteins and consequent functional actions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 21618-21628.	2.8	2