# Nakul C Maiti

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6462444/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 61 papers | 2,986 citations | 304743 22 h-index | 161849 54 g-index |
| 64 all docs | 64 docs citations | 64 times ranked | 4811 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | NMR and vibrational spectroscopic studies on the structure and self-assembly of Two de novo dipeptides in methanol. Journal of Molecular Structure, 2022, 1266, 133455. | 3.6 | 4 |
| 2 | Pyridine-pyrazole based Al(<scp>iii</scp>) â€˜turn onâ€™ sensor for MCF7 cancer cell imaging and detection of picric acid. RSC Advances, 2021, 11, 10094-10109. | 3.6 | 22 |
| 3 | Solvent Relaxation NMR: A Tool for Real-Time Monitoring Water Dynamics in Protein Aggregation Landscape. ACS Chemical Neuroscience, 2021, 12, 2903-2916. | 3.5 | 8 |
| 4 | Dabrafenib, idelalisib and nintedanib act as significant allosteric modulator for dengue NS3 protease. PLoS ONE, 2021, 16, e0257206. | 2.5 | 4 |
| 5 | Impact of porous nanomaterials on inhibiting protein aggregation behaviour. RSC Advances, 2021, 11, 3354-3362. | 3.6 | 4 |
| 6 | Synthesis of N-Fused Triazoleâ€“Piperazineâ€“Quinazolinones via One-Pot Tandem Click Reaction and Cross-Dehydrogenative Coupling. Organic Letters, 2021, 23, 9365-9370. | 4.6 | 13 |
| 7 | Order, Disorder, and Reorder State of Lysozyme: Aggregation Mechanism by Raman Spectroscopy. Journal of Physical Chemistry B, 2020, 124, 50-60. | 2.6 | 26 |
| 8 | Deciphering the structural intricacy in virulence effectors for proton-motive force mediated unfolding in type-III protein secretion. International Journal of Biological Macromolecules, 2020, 159, 18-33. | 7.5 | 3 |
| 9 | Porphyrin-Armored Gold Nanospheres Modulate the Secondary Structure of Î±-Synuclein and Arrest Its Fibrillation. Journal of Physical Chemistry C, 2020, 124, 6418-6434. | 3.1 | 7 |
| 10 | Molecular Details of a Salt Bridge and Its Role in Insulin Fibrillation by NMR and Raman Spectroscopic Analysis. Journal of Physical Chemistry B, 2020, 124, 1125-1136. | 2.6 | 10 |
| 11 | Unveiling the binding interaction of zinc (II) complexes of homologous Schiffâ€base ligands on the surface of BSA protein: A combined experimental and theoretical approach. Applied Organometallic Chemistry, 2020, 34, e5556. | 3.5 | 9 |
| 12 | Solvent-Assisted Tyrosine-Based Dipeptide Forms Low-Molecular Weight Gel: Preparation and Its Potential Use in Dye Removal and Oil Spillage Separation from Water. ACS Omega, 2019, 4, 14411-14419. | 3.5 | 13 |
| 13 | Structural Insight of Amyloidogenic Intermediates of Human Insulin. ACS Omega, 2018, 3, 2452-2462. | 3.5 | 26 |
| 14 | Porphyrinâ€“Gold Nanomaterial for Efficient Drug Delivery to Cancerous Cells. ACS Omega, 2018, 3, 4602-4619. | 3.5 | 53 |
| 15 | Sensing of Iron(III) Ion via Modulation of Redox Potential on Biliverdin Protected Silver Nanosurface. ACS Applied Nano Materials, 2018, 1, 6099-6111. | 5.0 | 9 |
| 16 | Tamarixetin 3-O-Î²-<scp>d</scp>-Glucopyranoside from Azadirachta indica Leaves: Gastroprotective Role through Inhibition of Matrix Metalloproteinase-9 Activity in Mice. Journal of Natural Products, 2017, 80, 1347-1353. | 3.0 | 23 |
| 17 | Formation of Annular Protofibrillar Assembly by Cysteine Tripeptide: Unraveling the Interactions with NMR, FTIR, and Molecular Dynamics. Journal of Physical Chemistry B, 2017, 121, 6367-6379. | 2.6 | 14 |
| 18 | Envisaging the Structural Elevation in the Early Event of Oligomerization of Disordered Amyloid Î² Peptide. ACS Omega, 2017, 2, 4316-4327. | 3.5 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Conformational selection underpins recognition of multiple DNA sequences by proteins and consequent functional actions. Physical Chemistry Chemical Physics, 2016, 18, 21618-21628. | 2.8 | 2 |
| 20 | Binding interaction of a gamma-aminobutyric acid derivative with serum albumin: an insight by fluorescence and molecular modeling analysis. SpringerPlus, 2016, 5, 1121. | 1.2 | 20 |
| 21 | Molecular Details of Acetate Binding to a New Diamine Receptor by NMR and FT-IR Analyses. Journal of Physical Chemistry A, 2016, 120, 2330-2341. | 2.5 | 7 |
| 22 | Identification of modes of interactions between 9-aminoacridine hydrochloride hydrate and serum proteins by low and high resolution spectroscopy and molecular modeling. RSC Advances, 2016, 6, 53454-53468. | 3.6 | 21 |
| 23 | Orientation of tyrosine side chain in neurotoxic AÎ² differs in two different secondary structures of the peptide. Royal Society Open Science, 2016, 3, 160112. | 2.4 | 8 |
| 24 | A Novel Spirooxindole Derivative Inhibits the Growth of Leishmania donovani Parasites both In Vitro and In Vivo by Targeting Type IB Topoisomerase. Antimicrobial Agents and Chemotherapy, 2016, 60, 6281-6293. | 3.2 | 54 |
| 25 | Envisaging Structural Insight of a Terminally Protected Proline Dipeptide by Raman Spectroscopy and Density Functional Theory Analyses. Journal of Physical Chemistry A, 2016, 120, 9829-9840. | 2.5 | 5 |
| 26 | Silver-catalysed azideâ€“alkyne cycloaddition (AgAAC): assessing the mechanism by density functional theory calculations. Royal Society Open Science, 2016, 3, 160090. | 2.4 | 15 |
| 27 | Metal ions provide structural stability and compactness to tetrameric purothionin. RSC Advances, 2016, 6, 90690-90700. | 3.6 | 4 |
| 28 | Hydrogen bonding plays a significant role in the binding of coomassie brilliant blue-R to hemoglobin: FT-IR, fluorescence and molecular dynamics studies. Physical Chemistry Chemical Physics, 2015, 17, 31216-31227. | 2.8 | 30 |
| 29 | ZnI<sub>2</sub>-Catalyzed Diastereoselective [4 + 2] Cycloadditions of Î²,Î³-Unsaturated Î±-Ketothioesters with Olefins. Journal of Organic Chemistry, 2015, 80, 2972-2988. | 3.2 | 36 |
| 30 | Synthesis and biological evaluation of a novel betulinic acid derivative as an inducer of apoptosis in human colon carcinoma cells (HT-29). European Journal of Medicinal Chemistry, 2015, 102, 93-105. | 5.5 | 71 |
| 31 | Sequence Complexity of Amyloidogenic Regions in Intrinsically Disordered Human Proteins. PLoS ONE, 2014, 9, e89781. | 2.5 | 18 |
| 32 | Copper(I) oxide nanoparticle and tryptophan as its biological conjugate: a modulation of cytotoxic effects. Journal of Nanoparticle Research, 2014, 16, 1. | 1.9 | 7 |
| 33 | Binding of hemoglobin to ultrafine carbon nanoparticles: a spectroscopic insight into a major health hazard. RSC Advances, 2014, 4, 22536-22541. | 3.6 | 5 |
| 34 | Stereoselective domino azidation and [3 + 2] cycloaddition: a facile route to chiral heterocyclic scaffolds from carbohydrate derived synthons. RSC Advances, 2014, 4, 4155-4162. | 3.6 | 6 |
| 35 | Synthesis and biological evaluation of andrographolide analogues as anti-cancer agents. European Journal of Medicinal Chemistry, 2014, 85, 95-106. | 5.5 | 44 |
| 36 | Stability and binding interaction of bilirubin on a gold nano-surface: steady state fluorescence and FT-IR investigation. Physical Chemistry Chemical Physics, 2014, 16, 20013-20022. | 2.8 | 33 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | C<sub>Î±</sub>â€“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. Journal of Physical Chemistry A, 2014, 118, 1024-1030. | 2.5 | 21 |
| 38 | pK<sub>a</sub> Determination of <scp>d</scp>-Ribose by Raman Spectroscopy. Journal of Physical Chemistry B, 2014, 118, 909-914. | 2.6 | 7 |
| 39 | Potent anticancer activity of cystine-based dipeptides and their interaction with serum albumins. Chemistry Central Journal, 2013, 7, 91. | 2.6 | 12 |
| 40 | Dipeptide derived from benzylcystine forms unbranched nanotubes in aqueous solution. Journal of Nanostructure in Chemistry, 2013, 3, 1. | 9.1 | 15 |
| 41 | Melatonin inhibits matrix metalloproteinaseâ€9 activity by binding to its active site. Journal of Pineal Research, 2013, 54, 398-405. | 7.4 | 96 |
| 42 | Cyclophilin-mediated reactivation pathway of inactive adenosine kinase aggregates. Archives of Biochemistry and Biophysics, 2013, 537, 82-90. | 3.0 | 5 |
| 43 | 2,2â€²-Diphenyl-3,3â€²-Diindolylmethane: A Potent Compound Induces Apoptosis in Breast Cancer Cells by Inhibiting EGFR Pathway. PLoS ONE, 2013, 8, e59798. | 2.5 | 32 |
| 44 | Novel Anti-inflammatory Activity of Epoxyazadiradione against Macrophage Migration Inhibitory Factor. Journal of Biological Chemistry, 2012, 287, 24844-24861. | 3.4 | 83 |
| 45 | Conformation and cytotoxicity of a tetrapeptide constellated with alternative d- and l-proline. RSC Advances, 2012, 2, 6744. | 3.6 | 9 |
| 46 | Synthesis, characterization and cytotoxicity study of magnetic (Fe3O4) nanoparticles and their drug conjugate. RSC Advances, 2012, 2, 2493. | 3.6 | 28 |
| 47 | Synthesis and bio-evaluation of human macrophage migration inhibitory factor inhibitor to develop anti-inflammatory agent. Bioorganic and Medicinal Chemistry, 2011, 19, 7365-7373. | 3.0 | 26 |
| 48 | Mechanistic Studies of Cu(II) Binding to Amyloid-Î² Peptides and the Fluorescence and Redox Behaviors of the Resulting Complexes. Journal of Physical Chemistry B, 2008, 112, 8406-8411. | 2.6 | 31 |
| 49 | 1JCHCorrelates with Alcohol Hydrogen Bond Strength. Journal of Organic Chemistry, 2006, 71, 2878-2880. | 3.2 | 51 |
| 50 | Structure-Specific Effects of Protein Topology on Cross-Î² Assembly:Â Studies of Insulin Fibrillationâ€. Biochemistry, 2006, 45, 10278-10293. | 2.5 | 75 |
| 51 | Secondary Structure of Î±-Synuclein Oligomers: Characterization by Raman and Atomic Force Microscopy. Journal of Molecular Biology, 2006, 355, 63-71. | 4.2 | 248 |
| 52 | Isolation and identification of two isomeric forms of malonyl-coenzyme A in commercial malonyl-coenzyme A. Analytical Biochemistry, 2004, 328, 203-209. | 2.4 | 9 |
| 53 | Raman Spectroscopic Characterization of Secondary Structure in Natively Unfolded Proteins:Â Î±-Synuclein. Journal of the American Chemical Society, 2004, 126, 2399-2408. | 13.7 | 421 |
| 54 | Correlation of an Alcohol's Î±Cî—»D Stretch with Hydrogen Bond Strength in Complexes with Amines. Journal of Physical Chemistry A, 2003, 107, 9910-9917. | 2.5 | 24 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Resonance Raman studies on xanthine oxidase: observation of MoVI-ligand vibrations. Journal of Biological Inorganic Chemistry, 2003, 8, 327-333. | 2.6 | 26 |
| 56 | Time-resolved fluorescence of tryptophans in yeast hexokinase-PI: effect of subunit dimerization and ligand binding. Journal of Photochemistry and Photobiology B: Biology, 2000, 55, 20-26. | 3.8 | 18 |
| 57 | J- and H-Aggregates of Porphyrinâ^'Surfactant Complexes:â€‰ Time-Resolved Fluorescence and Other Spectroscopic Studies. Journal of Physical Chemistry B, 1998, 102, 1528-1538. | 2.6 | 753 |
| 58 | Fluorescence Dynamics of Dye Probes in Micelles. Journal of Physical Chemistry B, 1997, 101, 11051-11060. | 2.6 | 281 |
| 59 | Effects of non-planarity and Î²-substitution on the singlet-excited-state properties of basket-handle porphyrins. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 1095-1100. | 1.7 | 35 |
| 60 | Fluorescence study of some deformed zinc (II) porphyrins. Journal of Photochemistry and Photobiology A: Chemistry, 1996, 101, 7-10. | 3.9 | 22 |
| 61 | Photophysical properties of structurally deformed basket-handle prophyrins. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 4369. | 1.7 | 8 |