

Rajiv Kumar Kar

List of Publications by Year in descending order

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59
papers

1,322
citations

361045

20
h-index

395343

33
g-index

62
all docs

62
docs citations

62
times ranked

2313
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding flavin electronic structure and spectra. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2022, 12, e1541.	6.2	19
2	Insight into the isomerization mechanism of retinal proteins from hybrid quantum mechanics/molecular mechanics simulations. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2022, 12, e1562.	6.2	7
3	Cover Image, Volume 12, Issue 2. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2022, 12, .	6.2	0
4	Doubling Förster Resonance Energy Transfer Efficiency in Proteins with Extrinsic Thioamide Probes: Implications for Thiomodified Nucleobases. Chemistry - A European Journal, 2021, 27, 4373-4383.	1.7	6
5	Frontiers in Multiscale Modeling of Photoreceptor Proteins. Photochemistry and Photobiology, 2021, 97, 243-269.	1.3	26
6	Two-photon conversion of a bacterial phytochrome. Biophysical Journal, 2021, 120, 964-974.	0.2	8
7	LC-MS characterized methanolic extract of zanthoxylum armatum possess anti-breast cancer activity through Nrf2-Keap1 pathway: An in-silico, in-vitro and in-vivo evaluation. Journal of Ethnopharmacology, 2021, 269, 113758.	2.0	16
8	Computational Resources for Bioscience Education. Applied Biochemistry and Biotechnology, 2021, 193, 3418-3424.	1.4	0
9	Solvent Relaxation NMR: A Tool for Real-Time Monitoring Water Dynamics in Protein Aggregation Landscape. ACS Chemical Neuroscience, 2021, 12, 2903-2916.	1.7	8
10	Gram-Scale Synthesis of 1,8-Naphthyridines in Water: The Friedlander Reaction Revisited. ACS Omega, 2021, 6, 19304-19313.	1.6	11
11	Transient Near-UV Absorption of the Light-Driven Sodium Pump <i>Krokinobacter eikastus</i> Rhodopsin 2: A Spectroscopic Marker for Retinal Configuration. Journal of Physical Chemistry Letters, 2021, 12, 6284-6291.	2.1	9
12	Structural Dynamics of RNA in the Presence of Choline Amino Acid Based Ionic Liquid: A Spectroscopic and Computational Outlook. ACS Central Science, 2021, 7, 1688-1697.	5.3	8
13	Tuning the Quantum Chemical Properties of Flavins via Modification at C8. Journal of Physical Chemistry B, 2021, 125, 12654-12669.	1.2	7
14	High-resolution structure of a partially folded insulin aggregation intermediate. Proteins: Structure, Function and Bioinformatics, 2020, 88, 1648-1659.	1.5	13
15	Quercetin loaded folate targeted plasmonic silver nanoparticles for light activated chemo-photothermal therapy of DMBA induced breast cancer in Sprague Dawley rats. RSC Advances, 2020, 10, 31961-31978.	1.7	30
16	Femtosecond-to-millisecond structural changes in a light-driven sodium pump. Nature, 2020, 583, 314-318.	13.7	115
17	Structural and biochemical investigation of MARK4 inhibitory potential of cholic acid: Towards therapeutic implications in neurodegenerative diseases. International Journal of Biological Macromolecules, 2020, 161, 596-604.	3.6	37
18	Effect of pH on the structure and function of pyruvate dehydrogenase kinase 3: Combined spectroscopic and MD simulation studies. International Journal of Biological Macromolecules, 2020, 147, 768-777.	3.6	16

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19	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.	1.2	10
20	Characterization of Antimicrobial Peptide-Membrane Interaction Using All-Atom Molecular Dynamic Simulation. <i>Springer Protocols</i> , 2020, , 163-176.	0.1	2
21	A Peptide-Nanoparticle System with Improved Efficacy against Multidrug Resistant Bacteria. <i>Scientific Reports</i> , 2019, 9, 4485.	1.6	80
22	Atomistic Insight into the Role of Threonine 127 in the Functional Mechanism of Channelrhodopsin-2. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4905.	1.3	4
23	Nuclear spin-hyperpolarization generated in a flavoprotein under illumination: experimental field-dependence and theoretical level crossing analysis. <i>Scientific Reports</i> , 2019, 9, 18436.	1.6	14
24	Sequence specificity of amylin-insulin interaction: a fragment-based insulin fibrillation inhibition study. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019, 1867, 405-415.	1.1	13
25	Spectroscopic Properties of Lumiflavin: A Quantum Chemical Study. <i>Photochemistry and Photobiology</i> , 2019, 95, 662-674.	1.3	15
26	Nonproductive Binding Modes as a Prominent Feature of A β ₄₀ Fiber Elongation: Insights from Molecular Dynamics Simulation. <i>Journal of Chemical Information and Modeling</i> , 2018, 58, 1576-1586.	2.5	11
27	Evidences for zinc (II) and copper (II) ion interactions with Mycobacterium leprae HSP18: Effect on its structure and chaperone function. <i>Journal of Inorganic Biochemistry</i> , 2018, 188, 62-75.	1.5	6
28	Synthesis of novel muramic acid derivatives and their interaction with lysozyme: Action of lysozyme revisited. <i>Journal of Colloid and Interface Science</i> , 2017, 498, 395-404.	5.0	12
29	Accelerated molecular dynamics simulation analysis of MSI-594 in a lipid bilayer. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 19289-19299.	1.3	46
30	Activity of a novel sulfonamide compound 2-nitro-N-(pyridin-2-ylmethyl)benzenesulfonamide against Leishmania donovani. <i>Drug Design, Development and Therapy</i> , 2016, 10, 1753.	2.0	3
31	Evidence for Inhibition of Lysozyme Amyloid Fibrillization by Peptide Fragments from Human Lysozyme: A Combined Spectroscopy, Microscopy, and Docking Study. <i>Biomacromolecules</i> , 2016, 17, 1998-2009.	2.6	35
32	Deciphering the role of the AT-rich interaction domain and the HMG-box domain of ARID-HMG proteins of Arabidopsis thaliana. <i>Plant Molecular Biology</i> , 2016, 92, 371-388.	2.0	16
33	Structural Elucidation of the Cell-Penetrating Penetratin Peptide in Model Membranes at the Atomic Level: Probing Hydrophobic Interactions in the Blood-Brain Barrier. <i>Biochemistry</i> , 2016, 55, 4982-4996.	1.2	24
34	Mode of Action of a Designed Antimicrobial Peptide: High Potency against Cryptococcus neoformans. <i>Biophysical Journal</i> , 2016, 111, 1724-1737.	0.2	37
35	Expedient synthesis of the pentasaccharide repeating unit of the O-antigen of Escherichia coli O86 and its conformational analysis. <i>Glycoconjugate Journal</i> , 2016, 33, 887-896.	1.4	5
36	Biophysical insights into the membrane interaction of the core amyloid-forming A β ₄₀ fragment K16-K28 and its role in the pathogenesis of Alzheimer's disease. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16890-16901.	1.3	16

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37	Structure and Dynamics of Antifreeze Protein-Model Membrane Interactions: A Combined Spectroscopic and Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2016, 120, 902-914.	1.2	20
38	C -cinnamoyl glycosides as a new class of anti-filarial agents. <i>European Journal of Medicinal Chemistry</i> , 2016, 114, 308-317.	2.6	14
39	Biophysical Characterization of Essential Phosphorylation at the Flexible C-Terminal Region of C-Raf with 14-3-3 σ Protein. <i>PLoS ONE</i> , 2015, 10, e0135976.	1.1	9
40	Structural and sequential context of p53: A review of experimental and theoretical evidence. <i>Progress in Biophysics and Molecular Biology</i> , 2015, 117, 250-263.	1.4	48
41	Interaction of ATP with a Small Heat Shock Protein from <i>Mycobacterium leprae</i> : Effect on Its Structure and Function. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003661.	1.3	13
42	Will It Be Beneficial To Simulate the Antifreeze Proteins at Ice Freezing Condition or at Lower Temperature?. <i>Journal of Physical Chemistry B</i> , 2015, 119, 11485-11495.	1.2	12
43	Biophysical and biochemical aspects of antifreeze proteins: Using computational tools to extract atomistic information. <i>Progress in Biophysics and Molecular Biology</i> , 2015, 119, 194-204.	1.4	15
44	Membrane disruptive antimicrobial activities of human β -defensin-3 analogs. <i>European Journal of Medicinal Chemistry</i> , 2015, 91, 91-99.	2.6	44
45	Double GC:GC Mismatch in dsDNA Enhances Local Dynamics Retaining the DNA Footprint: A High-Resolution NMR Study. <i>ChemMedChem</i> , 2014, 9, 2059-2064.	1.6	14
46	Linear synthesis and conformational analysis of the pentasaccharide repeating unit of the cell wall O-antigen of <i>Escherichia coli</i> O13. <i>Carbohydrate Research</i> , 2014, 391, 9-15.	1.1	3
47	Acetylation of Gly1 and Lys2 Promotes Aggregation of Human β -Crystallin. <i>Biochemistry</i> , 2014, 53, 7269-7282.	1.2	26
48	Synthesis of the pentasaccharide repeating unit of the O-antigen of <i>Escherichia coli</i> O175 using one-pot glycosylations and its conformational analysis. <i>Tetrahedron</i> , 2014, 70, 9262-9267.	1.0	2
49	Sequence context induced antimicrobial activity: insight into lipopolysaccharide permeabilization. <i>Molecular BioSystems</i> , 2014, 10, 1596-1612.	2.9	30
50	Synthesis of the tetrasaccharide repeating unit of the O-antigen of the <i>Escherichia coli</i> O69 strain and its conformational analysis. <i>RSC Advances</i> , 2014, 4, 37079-37084.	1.7	3
51	Indolicidin Targets Duplex DNA: Structural and Mechanistic Insight through a Combination of Spectroscopy and Microscopy. <i>ChemMedChem</i> , 2014, 9, 2052-2058.	1.6	75
52	Convergent Synthesis and Conformational Analysis of the Hexasaccharide Repeating Unit of the O-Antigen of <i>Shigella flexneri</i> Serotype 1d. <i>European Journal of Organic Chemistry</i> , 2014, 4577-4584.	1.2	20
53	Interaction between Nbp35 and Cfd1 Proteins of Cytosolic Fe-S Cluster Assembly Reveals a Stable Complex Formation in <i>Entamoeba histolytica</i> . <i>PLoS ONE</i> , 2014, 9, e108971.	1.1	19
54	Human cathelicidin peptide LL37 binds telomeric G-quadruplex. <i>Molecular BioSystems</i> , 2013, 9, 1833.	2.9	25

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55	Novel G-quadruplex stabilizing agents: in-silico approach and dynamics. Journal of Biomolecular Structure and Dynamics, 2013, 31, 1497-1518.	2.0	15
56	Computational Elucidation of Structural Basis for Ligand Binding with <i>Leishmania donovani</i> Adenosine Kinase. BioMed Research International, 2013, 2013, 1-14.	0.9	32
57	Use of a Small Peptide Fragment as an Inhibitor of Insulin Fibrillation Process: A Study by High and Low Resolution Spectroscopy. PLoS ONE, 2013, 8, e72318.	1.1	64
58	Quantifying the Structural Requirements for Designing Newer FLT3 Inhibitors. Medicinal Chemistry, 2012, 8, 913-927.	0.7	5
59	Solution Structures, Dynamics, and Ice Growth Inhibitory Activity of Peptide Fragments Derived from an Antarctic Yeast Protein. PLoS ONE, 2012, 7, e49788.	1.1	21