

Mrinalini Puranik

List of Publications by Year in descending order

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36
times ranked

696
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of Carbon Monoxide Binding to Cystathionine β -Synthase. Journal of Biological Chemistry, 2006, 281, 13433-13438.	3.4	74
2	Dynamics of Carbon Monoxide Binding to CoxA. Journal of Biological Chemistry, 2004, 279, 21096-21108.	3.4	62
3	Activation Mechanism of the CO Sensor CoxA. Journal of Biological Chemistry, 2003, 278, 35384-35393.	3.4	41
4	Solution Structure of the DNA Damage Lesion 8-Oxoguanosine from Ultraviolet Resonance Raman Spectroscopy. Journal of Physical Chemistry A, 2009, 113, 1459-1471.	2.5	37
5	Resonance Raman Spectroscopic Measurements Delineate the Structural Changes that Occur during Tau Fibril Formation. Biochemistry, 2014, 53, 6550-6565.	2.5	34
6	Developing a Coarse-Grained Model for Bacterial Cell Walls: Evaluating Mechanical Properties and Free Energy Barriers. Journal of Chemical Theory and Computation, 2020, 16, 5369-5384.	5.3	31
7	Computational prediction of vibrational spectra of normal and modified DNA nucleobases. Journal of Raman Spectroscopy, 2009, 40, 1726-1748.	2.5	30
8	Assessing Barriers for Antimicrobial Penetration in Complex Asymmetric Bacterial Membranes: A Case Study with Thymol. Langmuir, 2020, 36, 8800-8814.	3.5	29
9	Structures, Ionization Equilibria, and Tautomerism of 6-Oxopurines in Solution. Journal of Physical Chemistry B, 2009, 113, 15101-15118.	2.6	27
10	Time-Resolved Resonance Raman and Density Functional Studies on the Ground State and Short-Lived Intermediates of Tetrabromo-p-benzoquinone. Journal of Physical Chemistry A, 2001, 105, 10562-10569.	2.5	23
11	Kinetics of Melanin Polymerization during Enzymatic and Nonenzymatic Oxidation. Journal of Physical Chemistry B, 2018, 122, 2047-2063.	2.6	23
12	Vibrational markers of structural distortion in adenine nucleobases upon DNA damage. Physical Chemistry Chemical Physics, 2011, 13, 3851.	2.8	21
13	Heme Displacement Mechanism of CoxA Activation. Journal of Biological Chemistry, 2006, 281, 29165-29173.	3.4	16
14	Structure of the triplet excited state of bromanil from time-resolved resonance Raman spectra and simulation. Journal of Chemical Physics, 2001, 115, 6106-6114.	3.0	11
15	Mode-Specific Reorganization Energies and Ultrafast Solvation Dynamics of Tryptophan from Raman Line-Shape Analysis. Biophysical Journal, 2013, 105, 211-221.	0.5	11
16	Structure of the triplet excited state of tetrabromo-p-benzoquinone from time-resolved resonance Raman spectra and ab initio calculations. Chemical Physics Letters, 2001, 337, 224-230.	2.6	10
17	Hypoxanthine Guanine Phosphoribosyltransferase Distorts the Purine Ring of Nucleotide Substrates and Perturbs the p <i>K</i> _a of Bound Xanthosine Monophosphate. Biochemistry, 2011, 50, 4184-4193.	2.5	10
18	Sub-50 fs excited state dynamics of 6-chloroguanine upon deep ultraviolet excitation. Physical Chemistry Chemical Physics, 2016, 18, 13874-13887.	2.8	9

#	ARTICLE	IF	CITATIONS
19	Differential Distortion of Purine Substrates by Human and <i>Plasmodium falciparum</i> Hypoxanthine-Guanine Phosphoribosyltransferase to Catalyse the Formation of Mononucleotides. <i>ChemPhysChem</i> , 2015, 16, 2172-2181.	2.1	8
20	Deep ultraviolet initiated excited state dynamics of riboflavin and flavin mononucleotide. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 1628-1644.	2.5	7
21	Solution structures of purine base analogues 6-chloroguanine, 8-azaguanine and allopurinol. <i>Journal of Biomolecular Structure and Dynamics</i> , 2014, 32, 27-35.	3.5	6
22	Ultrafast structural dynamics of photoexcited adenine. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 20224-20240.	2.8	6
23	Methylation Stabilizes the Imino Tautomer of dAMP and Amino Tautomer of dCMP in Solution. <i>Journal of Physical Chemistry B</i> , 2011, 115, 6234-6242.	2.6	5
24	Intricate packing in the hydrophobic core of barstar through a CH \cdots F interaction. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 814-821.	2.5	5
25	Mechanism of Discrimination of 8-Oxoguanosine versus Guanosine by <i>Escherichia coli</i> Fpg. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5679-5687.	2.6	5
26	Excited State Structure and Dynamics of p-Benzoquinone and Bromanil from Time-Resolved Resonance Raman Spectra and Simulation. <i>Bulletin of the Chemical Society of Japan</i> , 2002, 75, 1057-1064.	3.2	4
27	Ultrafast Nuclear Dynamics of Photoexcited Guanosine-5'-Monophosphate in Three Singlet States. <i>Journal of Physical Chemistry B</i> , 2017, 121, 7095-7107.	2.6	4
28	Formation of a CH \cdots F Contact in the Core of Native Barstar during Folding. <i>Journal of Physical Chemistry B</i> , 2015, 119, 2928-2932.	2.6	2
29	Solution structure of ligands involved in purine salvage pathway. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 151, 679-686.	3.9	1
30	Solution structures of purine base analogues 9-deazaguanine and 9-deazahypoxanthine. <i>Journal of Biomolecular Structure and Dynamics</i> , 2016, 34, 640-652.	3.5	1
31	Initial excited state structural dynamics of lumiflavin upon ultraviolet excitation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 364, 190-201.	3.9	1
32	Purines as Interrogators of Local Environment in Proteins and DNA. , 2010, , .		0
33	Exquisite Modulation of the Active Site of <i>Methanocaldococcus jannaschii</i> Adenylosuccinate Synthetase in Forward Reaction Complexes. <i>Biochemistry</i> , 2016, 55, 2491-2499.	2.5	0
34	Structural basis for substrate discrimination by E. coli repair enzyme, AlkB. <i>RSC Advances</i> , 2018, 8, 1281-1291.	3.6	0
35	Deciphering Differential Distortion of Purine Substrates by Human and <i>Plasmodium falciparum</i> HGPR. <i>FASEB Journal</i> , 2015, 29, 721.19.	0.5	0
36	Initial Excited State Dynamics of Lumichrome upon Ultraviolet Excitation. <i>Photochemistry and Photobiology</i> , 2022, , .	2.5	0