

Amar Nath Gupta

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

814
citations

687363

13
h-index

526287

27
g-index

37
all docs

37
docs citations

37
times ranked

1025
citing authors

#	ARTICLE	IF	CITATIONS
1	The catalytic core of <i>Leishmania donovani</i> RECQ helicase unwinds a wide spectrum of DNA substrates and is stimulated by replication protein A. <i>FEBS Journal</i> , 2022, 289, 394-416.	4.7	0
2	Plasmid DNA Undergoes Two Compaction Regimes under Macromolecular Crowding. <i>ACS Macro Letters</i> , 2022, 11, 186-192.	4.8	2
3	Electric field-driven conformational changes in the elastin protein. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4195-4204.	2.8	8
4	Hierarchical cage-frame type nanostructure of CeO ₂ for bio sensing applications: from glucose to protein detection. <i>Nanotechnology</i> , 2021, 32, 025504.	2.6	12
5	Interactive patches over amyloid- β oligomers mediate fractal self-assembly. <i>Physical Review E</i> , 2021, 104, 064404.	2.1	0
6	Glucose-induced structural changes and anomalous diffusion of elastin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 188, 110776.	5.0	6
7	Simultaneous Detection of Tyrosine and Structure-specific Intrinsic Fluorescence in the Fibrillation of Alzheimer's Associated Peptides. <i>ChemPhysChem</i> , 2020, 21, 2585-2598.	2.1	7
8	Curcumin Complexed with Graphene Derivative for Breast Cancer Therapy. <i>ACS Applied Bio Materials</i> , 2020, 3, 6284-6296.	4.6	29
9	Anisotropy versus fluctuations in the fractal self-assembly of gold nanoparticles. <i>Soft Matter</i> , 2020, 16, 7778-7788.	2.7	4
10	Fibril growth captured by electrical properties of amyloid- β and human islet amyloid polypeptide. <i>Physical Review E</i> , 2020, 101, 062413.	2.1	8
11	Unveiling the transition path region in the one-dimensional free energy landscape of proteins. <i>Chemical Physics Letters</i> , 2020, 750, 137498.	2.6	0
12	Fractal self-assembly and aggregation of human amylin. <i>Soft Matter</i> , 2020, 16, 3143-3153.	2.7	17
13	Quantification of protein aggregation rates and quenching effects of amylin-inhibitor complexes. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 20083-20094.	2.8	10
14	Observation of Structural Growth of Fibrils of Amylin Protein. <i>Biophysical Journal</i> , 2019, 116, 492a.	0.5	0
15	Quantifying DNA Elasticity in the Course of Binding of Small Molecule to DNA. <i>Biophysical Journal</i> , 2019, 116, 358a.	0.5	0
16	Aggregation of amylin: Spectroscopic investigation. <i>International Journal of Biological Macromolecules</i> , 2019, 133, 1242-1248.	7.5	8
17	DNA supported graphene quantum dots for Ag ion sensing. <i>Nanotechnology</i> , 2019, 30, 255501.	2.6	21
18	Achieving sensitive and stable indium oxide thin films for gamma radiation monitoring. <i>Sensors and Actuators A: Physical</i> , 2019, 285, 378-385.	4.1	19

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19	Repulsive interaction induces fibril formation and their growth. <i>International Journal of Biological Macromolecules</i> , 2019, 123, 20-25.	7.5	10
20	An extensive study on the structural evolution and gamma radiation stability of TeO ₂ thin films. <i>Materials Science in Semiconductor Processing</i> , 2018, 74, 347-351.	4.0	7
21	Compaction of Plasmid DNA by Macromolecular Crowding. <i>Macromolecules</i> , 2017, 50, 1666-1671.	4.8	15
22	Pharmacological chaperone reshapes the energy landscape for folding and aggregation of the prion protein. <i>Nature Communications</i> , 2016, 7, 12058.	12.8	38
23	Folding Rate and Transition Path Time of a Single-Molecule Protein. <i>Biophysical Journal</i> , 2016, 110, 55a.	0.5	0
24	Anti-Prion Ligand Binding Promotes Native PrP Folding Over Misfolding at the Single Molecule Level. <i>Biophysical Journal</i> , 2015, 108, 204a.	0.5	0
25	Transition Path Times for the Folding of Nucleic Acids and Proteins Determined from Experimentally-Reconstructed Energy Landscape Profiles. <i>Biophysical Journal</i> , 2013, 104, 165a.	0.5	0
26	Energy landscape analysis of native folding of the prion protein yields the diffusion constant, transition path time, and rates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 14452-14457.	7.1	140
27	Phthalocyanine tetrasulfonates bind to multiple sites on natively-folded prion protein. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 826-832.	2.3	14
28	Reconstruction of the Energy Landscape Profile for Native Folding of Theprion Protein from Single-Molecule Force Spectroscopy. <i>Biophysical Journal</i> , 2012, 102, 54a.	0.5	0
29	Direct observation of multiple misfolding pathways in a single prion protein molecule. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 5283-5288.	7.1	131
30	Experimental validation of free-energy-landscape reconstruction from non-equilibrium single-molecule force spectroscopy measurements. <i>Nature Physics</i> , 2011, 7, 631-634.	16.7	138
31	Experimental Validation of Free Energy Landscape Reconstructions from Non-Equilibrium Single-Molecule Pulling Experiments. <i>Biophysical Journal</i> , 2011, 100, 484a.	0.5	0
32	Effect of crowding on the conformation of interwound DNA strands from neutron scattering measurements and Monte Carlo simulations. <i>Physical Review E</i> , 2010, 81, 061905.	2.1	13
33	Temporal evolution of self-organization of gelatin molecules and clusters on quartz surface. <i>Physical Review E</i> , 2007, 76, 051912.	2.1	6
34	Surface Patch Binding Induced Intermolecular Complexation and Phase Separation in Aqueous Solutions of Similarly Charged Gelatin-Chitosan Molecules. <i>Journal of Physical Chemistry B</i> , 2007, 111, 10137-10145.	2.6	56
35	Effect of gelatin molecular charge heterogeneity on formation of intermolecular complexes and coacervation transition. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 1511-1520.	2.1	17
36	Swelling and de-swelling kinetics of gelatin hydrogels in ethanol-water marginal solvent. <i>International Journal of Biological Macromolecules</i> , 2006, 39, 240-249.	7.5	35

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37	Flory Temperature and Upper Critical Solution Temperature of Gelatin Solutions. <i>Biomacromolecules</i> , 2005, 6, 1623-1627.	5.4	43