Amar Nath Gupta

List of Publications by Year
in descending order

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37	814	687363 13	526287 27
papers	citations	h-index	g-index

37	37	37	1025
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Energy landscape analysis of native folding of the prion protein yields the diffusion constant, transition path time, and rates. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14452-14457.	7.1	140
2	Experimental validation of free-energy-landscape reconstruction from non-equilibrium single-molecule force spectroscopy measurements. Nature Physics, 2011, 7, 631-634.	16.7	138
3	Direct observation of multiple misfolding pathways in a single prion protein molecule. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5283-5288.	7.1	131
4	Surface Patch Binding Induced Intermolecular Complexation and Phase Separation in Aqueous Solutions of Similarly Charged Gelatinâˆ’Chitosan Molecules. Journal of Physical Chemistry B, 2007, 111, 10137-10145.	2.6	56
5	Flory Temperature and Upper Critical Solution Temperature of Gelatin Solutions. Biomacromolecules, 2005, 6, 1623-1627.	5.4	43
6	Pharmacological chaperone reshapes the energy landscape for folding and aggregation of the prion protein. Nature Communications, 2016, 7, 12058.	12.8	38
7	Swelling and de-swelling kinetics of gelatin hydrogels in ethanolâ€“water marginal solvent. International Journal of Biological Macromolecules, 2006, 39, 240-249.	7.5	35
8	Curcumin Complexed with Graphene Derivative for Breast Cancer Therapy. ACS Applied Bio Materials, 2020, 3, 6284-6296.	4.6	29
9	DNA supported graphene quantum dots for Ag ion sensing. Nanotechnology, 2019, 30, 255501.	2.6	21
10	Achieving sensitive and stable indium oxide thin films for gamma radiation monitoring. Sensors and Actuators A: Physical, 2019, 285, 378-385.	4.1	19
11	Effect of gelatin molecular charge heterogeneity on formation of intermolecular complexes and coacervation transition. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 1511-1520.	2.1	17
12	Fractal self-assembly and aggregation of human amylin. Soft Matter, 2020, 16, 3143-3153.	2.7	17
13	Compaction of Plasmid DNA by Macromolecular Crowding. Macromolecules, 2017, 50, 1666-1671.	4.8	15
14	Phthalocyanine tetrasulfonates bind to multiple sites on natively-folded prion protein. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2012, 1824, 826-832.	2.3	14
15	Effect of crowding on the conformation of interwound DNA strands from neutron scattering measurements and Monte Carlo simulations. Physical Review E, 2010, 81, 061905.	2.1	13
16	Hierarchical cage-frame type nanostructure of CeO₂for bio sensing applications: from glucose to protein detection. Nanotechnology, 2021, 32, 025504.	2.6	12
17	Quantification of protein aggregation rates and quenching effects of amylinâ€“inhibitor complexes. Physical Chemistry Chemical Physics, 2019, 21, 20083-20094.	2.8	10
18	Repulsive interaction induces fibril formation and their growth. International Journal of Biological Macromolecules, 2019, 123, 20-25.	7.5	10

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19	Aggregation of amylin: Spectroscopic investigation. International Journal of Biological Macromolecules, 2019, 133, 1242-1248.	7.5	8
20	Fibril growth captured by electrical properties of amyloid- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math> and human islet amyloid polypeptide. Physical Review E, 2020, 101, 062413.	2.1	8
21	Electric field-driven conformational changes in the elastin protein. Physical Chemistry Chemical Physics, 2021, 23, 4195-4204.	2.8	8
22	An extensive study on the structural evolution and gamma radiation stability of TeO 2 thin films. Materials Science in Semiconductor Processing, 2018, 74, 347-351.	4.0	7
23	Simultaneous Detection of Tyrosine and Structureâ€Specific Intrinsic Fluorescence in the Fibrillation of Alzheimer's Associated Peptides. ChemPhysChem, 2020, 21, 2585-2598.	2.1	7
24	Temporal evolution of self-organization of gelatin molecules and clusters on quartz surface. Physical Review E, 2007, 76, 051912.	2.1	6
25	Glucose-induced structural changes and anomalous diffusion of elastin. Colloids and Surfaces B: Biointerfaces, 2020, 188, 110776.	5.0	6
26	Anisotropy versus fluctuations in the fractal self-assembly of gold nanoparticles. Soft Matter, 2020, 16, 7778-7788.	2.7	4
27	Plasmid DNA Undergoes Two Compaction Regimes under Macromolecular Crowding. ACS Macro Letters, 2022, 11, 186-192.	4.8	2
28	Experimental Validation of Free Energy Landscape Reconstructions from Non-Equilibrium Single-Molecule Pulling Experiments. Biophysical Journal, 2011, 100, 484a.	0.5	0
29	Reconstruction of the Energy Landscape Profile for Native Folding of Thepprion Protein from Single-Molecule Force Spectroscopy. Biophysical Journal, 2012, 102, 54a.	0.5	0
30	Transition Path Times for the Folding of Nucleic Acids and Proteins Determined from Experimentally-Reconstructed Energy Landscape Profiles. Biophysical Journal, 2013, 104, 165a.	0.5	0
31	Anti-Prion Ligand Binding Promotes Native PrP Folding Over Misfolding at the Single Molecule Level. Biophysical Journal, 2015, 108, 204a.	0.5	0
32	Folding Rate and Transition Path Time of a Single-Molecule Protein. Biophysical Journal, 2016, 110, 55a.	0.5	0
33	Observation of Structural Growth of Fibrils of Amylin Protein. Biophysical Journal, 2019, 116, 492a.	0.5	0
34	Quantifying DNA Elasticity in the Course of Binding of Small Molecule to DNA. Biophysical Journal, 2019, 116, 358a.	0.5	0
35	Unveiling the transition path region in the one-dimensional free energy landscape of proteins. Chemical Physics Letters, 2020, 750, 137498.	2.6	0
36	The catalytic core of Leishmania donovani RECQ helicase unwinds a wide spectrum of DNA substrates and is stimulated by replication protein A. FEBS Journal, 2022, 289, 394-416.	4.7	0

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37	Interactive patches over amyloid- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math> oligomers mediate fractal self-assembly. Physical Review E, 2021, 104, 064404.	2.1	0