

Sumit K Chaturvedi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

1,915
citations

24
h-index

43
g-index

61
ext. papers

2,142
ext. citations

4.6
avg, IF

5.04
L-index

#	Paper	IF	Citations
47	Global multi-method analysis of interaction parameters for reversibly self-associating macromolecules at high concentrations. <i>Scientific Reports</i> , 2021 , 11, 5741	4.9	2
46	pH and alcohol induced structural transition in Ntf2 a nuclear transport factor of <i>Saccharomyces cerevisiae</i> . <i>International Journal of Biological Macromolecules</i> , 2020 , 159, 79-86	7.9	2
45	An insight into structural plasticity and conformational transitions of transcriptional co-activator Sus1. <i>PLoS ONE</i> , 2020 , 15, e0229216	3.7	3
44	Measuring aggregates, self-association, and weak interactions in concentrated therapeutic antibody solutions. <i>MABs</i> , 2020 , 12, 1810488	6.6	5
43	Nucleic acid-induced dimerization of HIV-1 Gag protein. <i>Journal of Biological Chemistry</i> , 2019 , 294, 16480-16493	5.1	3
42	Measuring Ultra-Weak Protein Self-Association by Non-ideal Sedimentation Velocity. <i>Journal of the American Chemical Society</i> , 2019 , 141, 2990-2996	16.4	15
41	All tubulins are not alike: Heterodimer dissociation differs among different biological sources. <i>Journal of Biological Chemistry</i> , 2019 , 294, 10315-10324	5.4	7
40	A Reappraisal of Sedimentation Nonideality Coefficients for the Analysis of Weak Interactions of Therapeutic Proteins. <i>AAPS Journal</i> , 2019 , 21, 35	3.7	10
39	Enhanced Sample Handling for Analytical Ultracentrifugation with 3D-Printed Centerpieces. <i>Analytical Chemistry</i> , 2019 , 91, 5866-5873	7.8	10
38	Elucidating the inhibitory potential of Vitamin A against fibrillation and amyloid associated cytotoxicity. <i>International Journal of Biological Macromolecules</i> , 2019 , 129, 333-338	7.9	20
37	Capreomycin inhibits the initiation of amyloid fibrillation and suppresses amyloid induced cell toxicity. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018 , 1866, 549-557	4	44
36	Investigating the site selective binding of busulfan to human serum albumin: Biophysical and molecular docking approaches. <i>International Journal of Biological Macromolecules</i> , 2018 , 107, 1414-1421	7.9	58
35	Stabilizing proteins to prevent conformational changes required for amyloid fibril formation. <i>Journal of Cellular Biochemistry</i> , 2018 , 120, 2642	4.7	15
34	Measuring macromolecular size distributions and interactions at high concentrations by sedimentation velocity. <i>Nature Communications</i> , 2018 , 9, 4415	17.4	33
33	Biophysical insights into the interaction of hen egg white lysozyme with therapeutic dye clofazimine: modulation of activity and SDS induced aggregation of model protein. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017 , 35, 2197-2210	3.6	33
32	Attenuation of amyloid fibrillation in presence of Warfarin: A biophysical investigation. <i>International Journal of Biological Macromolecules</i> , 2017 , 95, 713-718	7.9	59
31	Vitamin B12 offers neuronal cell protection by inhibiting A β 42 amyloid fibrillation. <i>International Journal of Biological Macromolecules</i> , 2017 , 99, 477-482	7.9	82

30	Sedimentation of Reversibly Interacting Macromolecules with Changes in Fluorescence Quantum Yield. <i>Biophysical Journal</i> , 2017 , 112, 1374-1382	2.9	6
29	Ascorbic acid inhibits human insulin aggregation and protects against amyloid induced cytotoxicity. <i>Archives of Biochemistry and Biophysics</i> , 2017 , 621, 54-62	4.1	95
28	Protein aggregation: From background to inhibition strategies. <i>International Journal of Biological Macromolecules</i> , 2017 , 103, 208-219	7.9	102
27	An ester-functionalized cationic gemini surfactant mediated structural transitions of porcine serum albumin (PSA) via binding interaction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 516, 245-253	5.1	4
26	Use of fluorescence-detected sedimentation velocity to study high-affinity protein interactions. <i>Nature Protocols</i> , 2017 , 12, 1777-1791	18.8	30
25	Analyzing the interaction between porcine serum albumin (PSA) and ester-functionalized cationic gemini surfactants. <i>Process Biochemistry</i> , 2017 , 63, 145-153	4.8	6
24	Probing the interaction of cephalosporin antibiotic-ceftazidime with human serum albumin: A biophysical investigation. <i>International Journal of Biological Macromolecules</i> , 2017 , 105, 292-299	7.9	46
23	Characterization of CNL like protein fragment (CNL-LPF) from mature <i>Lageneria siceraria</i> seeds. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 1194-1203	7.9	1
22	Crystal Structure of Chicken β -Crystallin Reveals Lattice Contacts with Implications for Function in the Lens and the Evolution of the β Crystallins. <i>Structure</i> , 2017 , 25, 1068-1078.e2	5.2	13
21	Mechanisms of protein aggregation and inhibition. <i>Frontiers in Bioscience - Elite</i> , 2017 , 9, 1-20	1.6	23
20	Biophysical and molecular docking insight into interaction mechanism and thermal stability of human serum albumin isoforms with a semi-synthetic water-soluble camptothecin analog irinotecan hydrochloride. <i>Journal of Biomolecular Structure and Dynamics</i> , 2016 , 34, 1545-60	3.6	14
19	Comparative binding study of anti-tuberculosis drug pyrazinamide with serum albumins. <i>RSC Advances</i> , 2016 , 6, 85860-85869	3.7	23
18	Vitamin k3 inhibits protein aggregation: Implication in the treatment of amyloid diseases. <i>Scientific Reports</i> , 2016 , 6, 26759	4.9	123
17	Peroxynitrite-induced structural perturbations in human IgG: A physicochemical study. <i>Archives of Biochemistry and Biophysics</i> , 2016 , 603, 72-80	4.1	7
16	Amyloidogenic behavior of different intermediate state of stem bromelain: A biophysical insight. <i>International Journal of Biological Macromolecules</i> , 2016 , 91, 477-85	7.9	21
15	Protein misfolding and aggregation: Mechanism, factors and detection. <i>Process Biochemistry</i> , 2016 , 51, 1183-1192	4.8	83
14	Comparative insight into surfactants mediated amyloidogenesis of lysozyme. <i>International Journal of Biological Macromolecules</i> , 2016 , 83, 315-25	7.9	60
13	DNA induced aggregation of stem bromelain; a mechanistic insight. <i>RSC Advances</i> , 2016 , 6, 37591-37599	3.7	28

12	Anti-amyloidogenic behavior and interaction of Diallylsulfide with Human Serum Albumin. <i>International Journal of Biological Macromolecules</i> , 2016 , 92, 1220-1228	7.9	58
11	Biophysical insight into the anti-amyloidogenic behavior of taurine. <i>International Journal of Biological Macromolecules</i> , 2015 , 80, 375-84	7.9	60
10	Biophysical and molecular docking insight into the interaction of cytosine β -D arabinofuranoside with human serum albumin. <i>Journal of Luminescence</i> , 2015 , 164, 123-130	3.8	115
9	A copper(II) complex as selective turn-on fluorosensor for nitric oxide and its intracellular application. <i>Inorganica Chimica Acta</i> , 2015 , 437, 201-206	2.7	5
8	Elucidating the interaction of limonene with bovine serum albumin: a multi-technique approach. <i>Molecular BioSystems</i> , 2015 , 11, 307-16		190
7	Unraveling Comparative Anti-Amyloidogenic Behavior of Pyrazinamide and D-Cycloserine: A Mechanistic Biophysical Insight. <i>PLoS ONE</i> , 2015 , 10, e0136528	3.7	62
6	Protonation favors aggregation of lysozyme with SDS. <i>Soft Matter</i> , 2014 , 10, 2591-9	3.6	81
5	Elucidating the mode of action of urea on mammalian serum albumins and protective effect of sodium dodecyl sulfate. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 441, 681-8	3.4	44
4	Ion-dipole induced interaction between cationic gemini/TTAB and nonionic (Tween) surfactants: interfacial and microstructural phenomena. <i>RSC Advances</i> , 2013 , 3, 6945	3.7	16
3	Monomeric banana lectin at acidic pH overrules conformational stability of its native dimeric form. <i>PLoS ONE</i> , 2013 , 8, e62428	3.7	36
2	SDS can be utilized as an amyloid inducer: a case study on diverse proteins. <i>PLoS ONE</i> , 2012 , 7, e29694	3.7	103
1	DNA binding and nuclease activity of copper(II) complexes of tridentate ligands. <i>Inorganica Chimica Acta</i> , 2011 , 376, 264-270	2.7	55