Rizwan Hasan Khan

List of Publications by Year
in descending order

333	13,462	20759 60	37111 96
papers	citations	h-index	g-index

341	341	341	11643
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Low dose mercury toxicity and human health. Environmental Toxicology and Pharmacology, 2005, 20, 351-360.	2.0	894
2	Effect of Albumin Conformation on the Binding of Ciprofloxacin to Human Serum Albumin:Â A Novel Approach Directly Assigning Binding Site. Biomacromolecules, 2006, 7, 1350-1356.	2.6	306
3	Ligand binding strategies of human serum albumin: How can the cargo be utilized?. Chirality, 2010, 22, 77-87.	1.3	295
4	Protein proteinase inhibitor genes in combat against insects, pests, and pathogens: natural and engineered phytoprotection. Archives of Biochemistry and Biophysics, 2004, 431, 145-159.	1.4	266
5	pH-Induced Molten Globule State of Rhizopus niveus Lipase is More Resistant Against Thermal and Chemical Denaturation Than Its Native State. Cell Biochemistry and Biophysics, 2012, 62, 487-499.	0.9	221
6	Elucidating the interaction of limonene with bovine serum albumin: a multi-technique approach. Molecular BioSystems, 2015, 11, 307-316.	2.9	220
7	pH-Dependent Conformational Transitions in Conalbumin (Ovotransferrin), a Metalloproteinase from Hen Egg White. Cell Biochemistry and Biophysics, 2011, 61, 551-560.	0.9	184
8	Binding of erucic acid with human serum albumin using a spectroscopic and molecular docking study. International Journal of Biological Macromolecules, 2017, 105, 1572-1580.	3.6	178
9	Review on Alzheimer's disease: Inhibition of amyloid beta and tau tangle formation. International Journal of Biological Macromolecules, 2021, 167, 382-394.	3.6	154
10	Vitamin k3 inhibits protein aggregation: Implication in the treatment of amyloid diseases. Scientific Reports, 2016, 6, 26759.	1.6	152
11	Impact of structural stability of cold adapted Candida antarctica lipase B (CaLB): in relation to pH, chemical and thermal denaturation. RSC Advances, 2015, 5, 20115-20131.	1.7	151
12	3D printing applications in bone tissue engineering. Journal of Clinical Orthopaedics and Trauma, 2020, 11, S118-S124.	0.6	149
13	The role of advanced glycation end products in various types of neurodegenerative disease: a therapeutic approach. Cellular and Molecular Biology Letters, 2014, 19, 407-37.	2.7	139
14	Effect of copper oxide nanoparticles on the conformation and activity of Î²-galactosidase. Colloids and Surfaces B: Biointerfaces, 2014, 123, 96-105.	2.5	134
15	Stereo-Selectivity of Human Serum Albumin to Enantiomeric and Isoelectronic Pollutants Dissected by Spectroscopy, Calorimetry and Bioinformatics. PLoS ONE, 2011, 6, e26186.	1.1	133
16	Biophysical and molecular docking insight into the interaction of cytosine Î²-D arabinofuranoside with human serum albumin. Journal of Luminescence, 2015, 164, 123-130.	1.5	130
17	Protein aggregation: From background to inhibition strategies. International Journal of Biological Macromolecules, 2017, 103, 208-219.	3.6	128
18	A Comprehensive Insight into Binding of Hippuric Acid to Human Serum Albumin: A Study to Uncover Its Impaired Elimination through Hemodialysis. PLoS ONE, 2013, 8, e71422.	1.1	121

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19	Structural characteristics of thermostable immunogenic outer membrane protein from Salmonella enterica serovar Typhi. Applied Microbiology and Biotechnology, 2014, 98, 2533-2543.	1.7	120
20	Ascorbic acid inhibits human insulin aggregation and protects against amyloid induced cytotoxicity. Archives of Biochemistry and Biophysics, 2017, 621, 54-62.	1.4	119
21	Interactions of thioflavin T with serum albumins: Spectroscopic analyses. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 74, 94-99.	2.0	118
22	Interaction and photo-induced cleavage studies of a copper based chemotherapeutic drug with human serum albumin: spectroscopic and molecular docking study. Molecular BioSystems, 2012, 8, 2424.	2.9	113
23	SDS Can Be Utilized as an Amyloid Inducer: A Case Study on Diverse Proteins. PLoS ONE, 2012, 7, e29694.	1.1	113
24	Interaction of Bovine (BSA), Rabbit (RSA), and Porcine (PSA) Serum Albumins with Cationic Single-Chain/Gemini Surfactants: A Comparative Study. Langmuir, 2009, 25, 11686-11691.	1.6	111
25	Elimination of Endogenous Toxin, Creatinine from Blood Plasma Depends on Albumin Conformation: Site Specific Uremic Toxicity & Impaired Drug Binding. PLoS ONE, 2011, 6, e17230.	1.1	108
26	Protein misfolding and aggregation: Mechanism, factors and detection. Process Biochemistry, 2016, 51, 1183-1192.	1.8	107
27	Molecular insight into binding behavior of polyphenol (rutin) with beta lactoglobulin: Spectroscopic, molecular docking and MD simulation studies. Journal of Molecular Liquids, 2018, 269, 511-520.	2.3	107
28	Biophysical Insight into Furosemide Binding to Human Serum Albumin: A Study To Unveil Its Impaired Albumin Binding in Uremia. Journal of Physical Chemistry B, 2013, 117, 2595-2604.	1.2	104
29	Biophysical investigation of thymoquinone binding to â€˜Nâ€™ and â€˜Bâ€™ isoforms of human serum albumin: exploring the interaction mechanism and radical scavenging activity. RSC Advances, 2015, 5, 18218-18232.	1.7	104
30	Nanoparticle formulations in the diagnosis and therapy of Alzheimer's disease. International Journal of Biological Macromolecules, 2019, 130, 515-526.	3.6	104
31	Nanoparticles in relation to peptide and protein aggregation. International Journal of Nanomedicine, 2014, 9, 899.	3.3	103
32	Co-precipitation synthesis and characterization of Co doped SnO 2 NPs, HSA interaction via various spectroscopic techniques and their antimicrobial and photocatalytic activities. International Journal of Biological Macromolecules, 2017, 94, 554-565.	3.6	101
33	Interaction of 5-fluoro-5â€²-deoxyuridine with human serum albumin under physiological and non-physiological condition: A biophysical investigation. Colloids and Surfaces B: Biointerfaces, 2014, 123, 469-477.	2.5	100
34	Vitamin B12 offers neuronal cell protection by inhibiting Aî²-42 amyloid fibrillation. International Journal of Biological Macromolecules, 2017, 99, 477-482.	3.6	98
35	Solubilization of Recombinant Ovine Growth Hormone with Retention of Native-like Secondary Structure and Its Refolding from the Inclusion Bodies of Escherichia coli. Biotechnology Progress, 1998, 14, 722-728.	1.3	96
36	Protonation favors aggregation of lysozyme with SDS. Soft Matter, 2014, 10, 2591.	1.2	96

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37	Flower-shaped ZnO nanoparticles synthesized by a novel approach at near-room temperatures with antibacterial and antifungal properties. International Journal of Nanomedicine, 2014, 9, 853.	3.3	94
38	Interplay of multiple interaction forces: Binding of tyrosine kinase inhibitor nintedanib with human serum albumin. Journal of Photochemistry and Photobiology B: Biology, 2016, 157, 70-76.	1.7	91
39	Characterization of a partially folded intermediate of stem bromelain at low pH. FEBS Journal, 2002, 269, 47-52.	0.2	90
40	The Surfactant-Induced Conformational and Activity Alterations in Rhizopus niveus Lipase. Cell Biochemistry and Biophysics, 2015, 71, 1199-1206.	0.9	90
41	Chiral preference of l-tryptophan derived metal-based antitumor agent of late 3d-metal ions (Co(II),) Tj ETQq1 1 0.784314 rgBT /Overl DNA, 5â€²-GMP and 5â€²-TMP. European Journal of Medicinal Chemistry, 2010, 45, 3549-3557.	2.6	87
42	Protein misfolding, aggregation and mechanism of amyloid cytotoxicity: An overview and therapeutic strategies to inhibit aggregation. International Journal of Biological Macromolecules, 2019, 134, 1022-1037.	3.6	79
43	Pollutant-Induced Modulation in Conformation and Î²-Lactamase Activity of Human Serum Albumin. PLoS ONE, 2012, 7, e38372.	1.1	79
44	Guanidine hydrochloride denaturation of human serum albumin originates by local unfolding of some stable loops in domain III. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2005, 1750, 93-102.	1.1	78
45	Biophysical insight into the anti-amyloidogenic behavior of taurine. International Journal of Biological Macromolecules, 2015, 80, 375-384.	3.6	78
46	Molten Globule of Hemoglobin Proceeds into Aggregates and Advanced Glycated End Products. PLoS ONE, 2013, 8, e72075.	1.1	76
47	Structure of amyloid oligomers and their mechanisms of toxicities: Targeting amyloid oligomers using novel therapeutic approaches. European Journal of Medicinal Chemistry, 2016, 114, 41-58.	2.6	76
48	Multi-spectroscopic and molecular modelling approach to investigate the interaction of riboflavin with human serum albumin. Journal of Biomolecular Structure and Dynamics, 2018, 36, 795-809.	2.0	74
49	Investigating the site selective binding of busulfan to human serum albumin: Biophysical and molecular docking approaches. International Journal of Biological Macromolecules, 2018, 107, 1414-1421.	3.6	73
50	Spectroscopic studies on the interaction of cationic surfactants with bovine serum albumin. Colloids and Surfaces B: Biointerfaces, 2009, 69, 122-128.	2.5	71
51	A health concern regarding the protein corona, aggregation and disaggregation. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 971-991.	1.1	71
52	Unraveling Comparative Anti-Amyloidogenic Behavior of Pyrazinamide and D-Cycloserine: A Mechanistic Biophysical Insight. PLoS ONE, 2015, 10, e0136528.	1.1	71
53	Interaction of amphiphilic drugs with human and bovine serum albumins. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 97, 119-124.	2.0	70
54	Interaction of new kinase inhibitors cabozantinib and tofacitinib with human serum alpha-1 acid glycoprotein. A comprehensive spectroscopic and molecular Docking approach. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 159, 199-208.	2.0	69

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55	Anti-amyloidogenic behavior and interaction of Diallylsulfide with Human Serum Albumin. International Journal of Biological Macromolecules, 2016, 92, 1220-1228.	3.6	68
56	Comparative insight into surfactants mediated amyloidogenesis of lysozyme. International Journal of Biological Macromolecules, 2016, 83, 315-325.	3.6	68
57	Attenuation of amyloid fibrillation in presence of Warfarin: A biophysical investigation. International Journal of Biological Macromolecules, 2017, 95, 713-718.	3.6	66
58	A mechanistic approach for islet amyloid polypeptide aggregation to develop anti-amyloidogenic agents for type-2 diabetes. Biochimie, 2011, 93, 793-805.	1.3	65
59	Probing the binding of phenolic aldehyde vanillin with bovine serum albumin: Evidence from spectroscopic and docking approach. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 203, 40-47.	2.0	63
60	A Comprehensive Spectroscopic and Computational Investigation to Probe the Interaction of Antineoplastic Drug Nordihydroguaiaretic Acid with Serum Albumins. PLoS ONE, 2016, 11, e0158833.	1.1	62
61	Spectroscopic Studies on the Comparative Interaction of Cationic Single-Chain and Gemini Surfactants with Human Serum Albumin. Journal of Biochemistry, 2008, 145, 67-77.	0.9	59
62	DNA binding and nuclease activity of copper(II) complexes of tridentate ligands. Inorganica Chimica Acta, 2011, 376, 264-270.	1.2	58
63	Binding of Janus kinase inhibitor tofacitinib with human serum albumin: multi-technique approach. Journal of Biomolecular Structure and Dynamics, 2016, 34, 2037-2044.	2.0	58
64	Capreomycin inhibits the initiation of amyloid fibrillation and suppresses amyloid induced cell toxicity. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2018, 1866, 549-557.	1.1	57
65	Formation of a molten globule like state in bovine serum albumin at alkaline pH. European Biophysics Journal, 2008, 37, 1303-1308.	1.2	56
66	Probing the interaction of cephalosporin antibioticâ€“ceftazidime with human serum albumin: A biophysical investigation. International Journal of Biological Macromolecules, 2017, 105, 292-299.	3.6	56
67	Kinetics of inclusion body production in batch and high cell density fed-batch culture of Escherichia coli expressing ovine growth hormone. Journal of Biotechnology, 1999, 75, 161-172.	1.9	55
68	Characterization of molten globule state of cytochrome c at alkaline, native and acidic pH induced by butanol and SDS. International Journal of Biochemistry and Cell Biology, 2004, 36, 2281-2292.	1.2	55
69	Interaction of the 5-fluorouracil analog 5-fluoro-2â€²-deoxyuridine with â€˜Nâ€™ and â€˜Bâ€™ isoforms of human serum albumin: a spectroscopic and calorimetric study. Molecular BioSystems, 2014, 10, 2954-2964.	2.9	55
70	Study on the interaction between amphiphilic drug and bovine serum albumin: A thermodynamic and spectroscopic description. Journal of Luminescence, 2014, 155, 39-46.	1.5	55
71	Effect of pH, temperature and alcohols on the stability of glycosylated and deglycosylated stem bromelain. Journal of Biosciences, 2003, 28, 709-714.	0.5	54
72	Interaction of Bovine Serum Albumin with Cationic Single Chain+Nonionic and Cationic Gemini+Nonionic Binary Surfactant Mixtures. Journal of Physical Chemistry B, 2010, 114, 3197-3204.	1.2	53

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73	Alkali-Induced Conformational Transition in Different Domains of Bovine Serum Albumin. Protein and Peptide Letters, 2004, 11, 307-315.	0.4	52
74	Spectroscopic and calorimetric studies of interaction of methimazole with human serum albumin. Journal of Luminescence, 2014, 151, 219-223.	1.5	52
75	Characterization of a Proteinase Inhibitor fromCajanus cajan(L.). The Protein Journal, 2003, 22, 543-554.	1.1	51
76	A tuber lectin from Arisaema helleborifolium Schott with anti-insect activity against melon fruit fly, Bactrocera cucurbitae (Coquillett) and anti-cancer effect on human cancer cell lines. Archives of Biochemistry and Biophysics, 2006, 445, 156-165.	1.4	51
77	Revisiting ligand-induced conformational changes in proteins: essence, advancements, implications and future challenges. Journal of Biomolecular Structure and Dynamics, 2013, 31, 630-648.	2.0	51
78	Intermediate formation at lower urea concentration in â€˜Bâ€™ isomer of human serum albumin: a case study using domain specific ligands. Biochemical and Biophysical Research Communications, 2004, 314, 166-173.	1.0	50
79	Effect of spacer length of alkanediyl-Î±,Ï‰-bis(dimethylcetylammonium bromide) gemini homologues on the interfacial and physicochemical properties of BSA. Colloids and Surfaces B: Biointerfaces, 2010, 77, 54-59.	2.5	50
80	Interaction of anticancer drug clofarabine with human serum albumin and human Î±-1 acid glycoprotein. Spectroscopic and molecular docking approach. Journal of Pharmaceutical and Biomedical Analysis, 2017, 135, 106-115.	1.4	50
81	DFT/B3LYP calculations, in vitro cytotoxicity and antioxidant activities of steroidal pyrimidines and their interaction with HSA using molecular docking and multispectroscopic techniques. Bioorganic Chemistry, 2017, 73, 83-99.	2.0	50
82	Physicochemical studies on glycationâ€induced structural changes in human IgG. IUBMB Life, 2012, 64, 151-156.	1.5	49
83	Physicochemical analysis of structural alteration and advanced glycation end products generation during glycation of H2A histone by 3â€deoxyglucosone. IUBMB Life, 2014, 66, 686-693.	1.5	49
84	Urea induced unfolding of F isomer of human serum albumin: A case study using multiple probes. Archives of Biochemistry and Biophysics, 2005, 437, 159-167.	1.4	48
85	pH-Dependent Differential Interacting Mechanisms of Sodium Dodecyl Sulfate with Bovine Serum Fetuin: A Biophysical Insight. Journal of Physical Chemistry B, 2014, 118, 13025-13036.	1.2	48
86	Analysis of Binding Interaction Between Antibacterial Ciprofloxacin and Human Serum Albumin by Spectroscopic Techniques. Cell Biochemistry and Biophysics, 2014, 70, 93-101.	0.9	48
87	Alcohol-induced versus anion-induced states of Î±-chymotrypsinogen A at low pH. BBA - Proteins and Proteomics, 2000, 1481, 229-236.	2.1	46
88	Elucidating the mode of action of urea on mammalian serum albumins and protective effect of sodium dodecyl sulfate. Biochemical and Biophysical Research Communications, 2013, 441, 681-688.	1.0	46
89	Hydrophobicity alone can not trigger aggregation in protonated mammalian serum albumins. Physical Chemistry Chemical Physics, 2014, 16, 5150.	1.3	46
90	Glycation of H1 Histone by 3-Deoxyglucosone: Effects on Protein Structure and Generation of Different Advanced Glycation End Products. PLoS ONE, 2015, 10, e0130630.	1.1	45

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91	Interaction mode of polycarbazoleâ€“titanium dioxide nanocomposite with DNA: Molecular docking simulation and in-vitro antimicrobial study. Journal of Photochemistry and Photobiology B: Biology, 2015, 153, 20-32.	1.7	45
92	3-Deoxyglucosone: A Potential Glycating Agent Accountable for Structural Alteration in H3 Histone Protein through Generation of Different AGEs. PLoS ONE, 2015, 10, e0116804.	1.1	45
93	Interaction of gelatin with promethazine hydrochloride: Conductimetry, tensiometry and circular dichroism studies. Journal of Molecular Structure, 2013, 1050, 35-42.	1.8	44
94	Insight into the interaction of antitubercular and anticancer compound clofazimine with human serum albumin: spectroscopy and molecular modelling. Journal of Biomolecular Structure and Dynamics, 2017, 35, 46-57.	2.0	44
95	Identification and Design of Antimicrobial Peptides for Therapeutic Applications. Current Protein and Peptide Science, 2012, 13, 211-223.	0.7	43
96	A mechanistic insight into protein-ligand interaction, folding, misfolding, aggregation and inhibition of protein aggregates: An overview. International Journal of Biological Macromolecules, 2018, 106, 1115-1129.	3.6	43
97	Severe acute respiratory syndrome coronavirus 2 infection reaches the human nervous system: How?. Journal of Neuroscience Research, 2021, 99, 750-777.	1.3	40
98	2,2,2-Trifluroethanol induces simultaneous increase in Î±-helicity and aggregation in alkaline unfolded state of bovine serum albumin. International Journal of Biological Macromolecules, 2010, 46, 250-254.	3.6	39
99	1-Anilino-8-Naphthalene Sulfonate (ANS) Is Not a Desirable Probe for Determining the Molten Globule State of Chymopapain. PLoS ONE, 2012, 7, e50633.	1.1	39
100	Trifluoroethanol-induced â€œmolten globuleâ€•state in stem bromelain. Archives of Biochemistry and Biophysics, 2003, 413, 199-206.	1.4	38
101	The acid-induced state of glucose oxidase exists as a compact folded intermediate. Biochemical and Biophysical Research Communications, 2003, 303, 685-692.	1.0	38
102	Different Molten Globule-like Folding Intermediates of Hen Egg White Lysozyme Induced by High pH and Tertiary Butanol. Journal of Biochemistry, 2007, 141, 573-583.	0.9	38
103	Acid-induced unfolding of didecameric keyhole limpet hemocyanin: detection and characterizations of decameric and tetrameric intermediate states. Amino Acids, 2010, 39, 899-910.	1.2	38
104	More stable structure of wheat germ lipase at low pH than its native state. Biochimie, 2010, 92, 885-893.	1.3	38
105	Spectroscopic approach of the interaction study of amphiphilic drugs with the serum albumins. Colloids and Surfaces B: Biointerfaces, 2011, 87, 447-453.	2.5	38
106	Monomeric Banana Lectin at Acidic pH Overrules Conformational Stability of Its Native Dimeric Form. PLoS ONE, 2013, 8, e62428.	1.1	38
107	Biophysical insights into the interaction of hen egg white lysozyme with therapeutic dye clofazimine: modulation of activity and SDS induced aggregation of model protein. Journal of Biomolecular Structure and Dynamics, 2017, 35, 2197-2210.	2.0	38
108	Fibrillogenesis of human serum albumin in the presence of levodopa â€“ spectroscopic, calorimetric and microscopic studies. International Journal of Biological Macromolecules, 2017, 94, 301-308.	3.6	38

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109	Characterization of molten globule state of fetuin at low pH. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2003, 1649, 164-170.	1.1	37
110	Interaction of Cetyltrimethylammonium Bromide and Its Gemini Homologue Bis(cetyldimethylammonium)butane Dibromide with Xanthine Oxidase. Journal of Physical Chemistry B, 2012, 116, 5711-5718.	1.2	37
111	Fluoroalcohols-induced modulation and amyloid formation in conalbumin. International Journal of Biological Macromolecules, 2014, 70, 606-614.	3.6	37
112	Synthesis, characterization and interaction studies of 1,3,4-oxadiazole derivatives of fatty acid with human serum albumin (HSA): A combined multi-spectroscopic and molecular docking study. European Journal of Medicinal Chemistry, 2016, 122, 72-78.	2.6	37
113	Biophysical insight into the interaction mechanism of plant derived polyphenolic compound tannic acid with homologous mammalian serum albumins. International Journal of Biological Macromolecules, 2018, 107, 2450-2464.	3.6	37
114	Applications of graphene-based electrochemical and optical biosensors in early detection of cancer biomarkers. Colloids and Surfaces B: Biointerfaces, 2022, 212, 112356.	2.5	37
115	Characterization of a partially folded intermediate of papain induced by fluorinated alcohols at low pH. Archives of Biochemistry and Biophysics, 2004, 432, 79-87.	1.4	36
116	Glycoprotein Targeting and Other Applications of Lectins in Biotechnology. Current Protein and Peptide Science, 2007, 8, 261-271.	0.7	36
117	In vitro DNA binding, molecular docking and antimicrobial studies on a newly synthesized poly(o-toluidine)â€“titanium dioxide nanocomposite. RSC Advances, 2014, 4, 39174.	1.7	36
118	Concentration-dependent antagonistic persuasion of SDS and naphthalene derivatives on the fibrillation of stem bromelain. Archives of Biochemistry and Biophysics, 2013, 540, 101-116.	1.4	35
119	A study of interaction between antidepressant drug nortriptyline hydrochloride with gelatin. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 2068-2074.	2.7	35
120	Thermal induced unfolding of human serum albumin isomers: Assigning residual Î± helices to domain II. International Journal of Biological Macromolecules, 2015, 75, 447-452.	3.6	35
121	Polyols (Glycerol and Ethylene glycol) mediated amorphous aggregate inhibition and secondary structure restoration of metalloproteinase-conalbumin (ovotransferrin). International Journal of Biological Macromolecules, 2017, 94, 290-300.	3.6	35
122	Binding of anti-cardiovascular drug to serum albumin: an insight in the light of spectroscopic and computational approaches. Journal of Biomolecular Structure and Dynamics, 2018, 36, 54-67.	2.0	34
123	Structural Stability as a Probe for Molecular Evolution of Homologous Albumins Studied by Spectroscopy and Bioinformatics. Cell Biochemistry and Biophysics, 2011, 61, 313-325.	0.9	33
124	A biophysical and computational study unraveling the molecular interaction mechanism of a new Janus kinase inhibitor Tofacitinib with bovine serum albumin. Journal of Molecular Recognition, 2017, 30, e2601.	1.1	33
125	Unveiling the stimulatory effects of tartrazine on human and bovine serum albumin fibrillogenesis: Spectroscopic and microscopic study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 191, 116-124.	2.0	33
126	The role of amyloids in Alzheimer's and Parkinson's diseases. International Journal of Biological Macromolecules, 2021, 190, 44-55.	3.6	33

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127	Low versus high molecular weight poly(ethylene glycol)-induced states of stem bromelain at low pH: Stabilization of molten globule and unfolded states. Biopolymers, 2006, 81, 350-359.	1.2	32
128	Non-fluorinated cosolvents: A potent amorphous aggregate inducer of metalloproteinase-conalbumin (ovotransferrin). International Journal of Biological Macromolecules, 2015, 78, 417-428.	3.6	32
129	Gallic acid: A naturally occurring bifunctional inhibitor of amyloid and metal induced aggregation with possible implication in metal-based therapy. Journal of Molecular Liquids, 2019, 285, 27-37.	2.3	32
130	Refolding of bovine serum albumin via artificial chaperone protocol using gemini surfactants. Journal of Colloid and Interface Science, 2011, 364, 157-162.	5.0	31
131	DNA induced aggregation of stem bromelain; a mechanistic insight. RSC Advances, 2016, 6, 37591-37599.	1.7	31
132	Biogenic terbium oxide nanoparticles as the vanguard against osteosarcoma. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 168, 123-131.	2.0	31
133	Antiglycation study of HMG-R inhibitors and tocotrienol against glycated BSA and LDL: A comparative study. International Journal of Biological Macromolecules, 2018, 116, 983-992.	3.6	31
134	Unfolding of rabbit serum albumin by cationic surfactants: Surface tensiometry, small-angle neutron scattering, intrinsic fluorescence, resonance Rayleigh scattering and circular dichroism studies. Journal of Colloid and Interface Science, 2010, 352, 436-443.	5.0	30
135	Negatively charged food additive dye â€œAllura Redâ€•rapidly induces SDS-soluble amyloid fibril in beta-lactoglobulin protein. International Journal of Biological Macromolecules, 2018, 107, 1706-1716.	3.6	30
136	Effect of cetyltrimethylammonium bromide (CTAB) on the conformation of a hen egg white lysozyme: A spectroscopic and molecular docking study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 219, 313-318.	2.0	30
137	Influence of salts and alcohols on the conformation of partially folded intermediate of stem bromelain at low pH. International Journal of Biochemistry and Cell Biology, 2005, 37, 361-374.	1.2	29
138	Date palm (Phoenix dactylifera L.) fruit's polyphenols as potential inhibitors for human amylin fibril formation and toxicity in type 2 diabetes. International Journal of Biological Macromolecules, 2020, 164, 1794-1808.	3.6	29
139	Cetyltrimethylammonium bromide (CTAB) promote amyloid fibril formation in carbohydrate binding protein (concanavalin A) at physiological pH. RSC Advances, 2016, 6, 38100-38111.	1.7	28
140	Mechanisms of protein aggregation and inhibition. Frontiers in Bioscience - Elite, 2017, 9, 1-20.	0.9	28
141	Unraveling the molecular mechanism of the effects of sodium dodecyl sulfate, salts, and sugars on amyloid fibril formation in camel IgG. Colloids and Surfaces B: Biointerfaces, 2018, 170, 430-437.	2.5	28
142	Protease inhibitors: A panacea?. Journal of Biochemical and Molecular Toxicology, 2010, 24, 270-277.	1.4	27
143	Interaction of biocompatible natural rosin-based surfactants with human serum albumin: A biophysical study. Journal of Luminescence, 2015, 167, 399-407.	1.5	27
144	Amyloidogenic behavior of different intermediate state of stem bromelain: A biophysical insight. International Journal of Biological Macromolecules, 2016, 91, 477-485.	3.6	27

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145	Influence of urea additives on micellar morphology/protein conformation. Colloids and Surfaces B: Biointerfaces, 2006, 51, 10-15.	2.5	26
146	Effect of galactose on acid induced molten globule state of Soybean Agglutinin: Biophysical approach. Journal of Molecular Structure, 2015, 1099, 149-153.	1.8	26
147	Inhibitory effect of copper nanoparticles on rosin modified surfactant induced aggregation of lysozyme. International Journal of Biological Macromolecules, 2015, 78, 379-388.	3.6	26
148	Cytotoxic species in amyloid-associated diseases: Oligomers or mature fibrils. Advances in Protein Chemistry and Structural Biology, 2019, 118, 333-369.	1.0	26
149	Stabilizing proteins to prevent conformational changes required for amyloid fibril formation. Journal of Cellular Biochemistry, 2019, 120, 2642-2656.	1.2	26
150	Multi-spectroscopic and molecular docking technique study of the azelastine interaction with human serum albumin. Journal of Molecular Structure, 2020, 1201, 127147.	1.8	26
151	Differential mode of interaction of ThioflavinT with native Î² structural motif in human Î± 1-acid glycoprotein and cross beta sheet of its amyloid: Biophysical and molecular docking approach. Journal of Molecular Structure, 2016, 1117, 208-217.	1.8	25
152	Biophysical Elucidation of Amyloid Fibrillation Inhibition and Prevention of Secondary Nucleation by Cholic Acid: An Unexplored Function of Cholic Acid. ACS Chemical Neuroscience, 2019, 10, 4704-4715.	1.7	25
153	Molecular basis of the inhibition and disaggregation of thermally-induced amyloid fibrils of human serum albumin by an anti-Parkinson's drug, benserazide hydrochloride. Journal of Molecular Liquids, 2019, 278, 553-567.	2.3	25
154	Mechanisms of amyloid proteins aggregation and their inhibition by antibodies, small molecule inhibitors, nano-particles and nano-bodies. International Journal of Biological Macromolecules, 2021, 186, 580-590.	3.6	25
155	A review of the berberine natural polysaccharide nanostructures as potential anticancer and antibacterial agents. Biomedicine and Pharmacotherapy, 2022, 146, 112531.	2.5	25
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