Saad Tayyab

List of Publications by Year
in descending order

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126 papers	2,253 citations	236833 25 h-index	265120 42 g-index
127 all docs	127 docs citations	127 times ranked	2408 citing authors

#	Article	IF	Citations
1	Multispectroscopic and Molecular Modeling Approach To Investigate the Interaction of Flavokawain B with Human Serum Albumin. Journal of Agricultural and Food Chemistry, 2012, 60, 5899-5908.	2.4	194
2	Molten globule-like state of human serum albumin at low pH. FEBS Journal, 1999, 266, 26-32.	0.2	113
3	Anion-induced stabilization of human serum albumin prevents the formation of intermediate during urea denaturation. , 2000, 40, 29-38.		108
4	On the purported â€œbackbone fluorescenceâ€•in protein three-dimensional fluorescence spectra. RSC Advances, 2016, 6, 112870-112876.	1.7	108
5	Protein proteinase inhibitors from avian egg whites. Cellular and Molecular Life Sciences, 1997, 53, 13-23.	2.4	94
6	Probing the Interaction of a Therapeutic Flavonoid, Pinostrobin with Human Serum Albumin: Multiple Spectroscopic and Molecular Modeling Investigations. PLoS ONE, 2013, 8, e76067.	1.1	83
7	Binding of an anticancer drug, axitinib to human serum albumin: Fluorescence quenching and molecular docking study. Journal of Photochemistry and Photobiology B: Biology, 2016, 162, 386-394.	1.7	69
8	Use of Domain Specific Ligands to Study Urea-Induced Unfolding of Bovine Serum Albumin. Biochemical and Biophysical Research Communications, 2000, 277, 83-88.	1.0	65
9	Formation of molten globule-like state during acid denaturation of Aspergillus niger glucoamylase. Process Biochemistry, 2012, 47, 775-784.	1.8	60
10	Molten-globule like partially folded states of human serum albumin induced by fluoro and alkyl alcohols at low pH. Archives of Biochemistry and Biophysics, 2004, 426, 3-10.	1.4	57
11	Use of fluorescence enhancement technique to study bilirubinâ€“albumin interaction. International Journal of Biological Macromolecules, 1999, 25, 353-358.	3.6	49
12	Interaction of an anticancer drug, gefitinib with human serum albumin: insights from fluorescence spectroscopy and computational modeling analysis. RSC Advances, 2016, 6, 91756-91767.	1.7	46
13	Molecular interaction study of an anticancer drug, ponatinib with human serum albumin using spectroscopic and molecular docking methods. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 214, 199-206.	2.0	46
14	Gastroprotective Effect of Ethanolic Extract ofCurcuma xanthorrhizaLeaf against Ethanol-Induced Gastric Mucosal Lesions inSprague-DawleyRats. BioMed Research International, 2014, 2014, 1-10.	0.9	43
15	Understanding the role of internal lysine residues of serum albumins in conformational stability and bilirubin binding. BBA - Proteins and Proteomics, 2001, 1545, 263-277.	2.1	42
16	Anion-induced refolding of human serum albumin under low pH conditions. BBA - Proteins and Proteomics, 2000, 1476, 139-148.	2.1	38
17	Bromophenol Blue Binding as a Probe to Study Urea and Guanidine Hydrochloride Denaturation of Bovine Serum Albumin. Journal of Biochemistry, 2008, 144, 33-38.	0.9	35
18	Serum albumin: clinical significance of drug binding and development as drug delivery vehicle. Advances in Protein Chemistry and Structural Biology, 2021, 123, 193-218.	1.0	35

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19	Salt-induced refolding in different domains of partially folded bovine serum albumin. International Journal of Biological Macromolecules, 2002, 30, 17-22.	3.6	34
20	Size exclusion chromatography and size exclusion HPLC of proteins. Biochemical Education, 1991, 19, 149-152.	0.1	31
21	Influence of Fluoro, Chloro and Alkyl Alcohols on the Folding Pathway of Human Serum Albumin. Journal of Biochemistry, 2005, 138, 335-341.	0.9	31
22	Characterization of the binding of an anticancer drug, lapatinib to human serum albumin. Journal of Photochemistry and Photobiology B: Biology, 2016, 160, 229-239.	1.7	31
23	Effect of lysine modification on the conformation and indomethacin binding properties of human serum albumin. International Journal of Biological Macromolecules, 1999, 26, 173-180.	3.6	27
24	Behavior of various mammalian albumins towards bilirubin binding and photochemical properties of different bilirubinâ€“albumin complexes. International Journal of Biological Macromolecules, 2003, 31, 187-193.	3.6	27
25	Interaction of a tyrosine kinase inhibitor, vandetanib with human serum albumin as studied by fluorescence quenching and molecular docking. Journal of Biomolecular Structure and Dynamics, 2016, 34, 1693-1704.	2.0	27
26	Supramolecular interaction of 6-shogaol, a therapeutic agent of Zingiber officinale with human serum albumin as elucidated by spectroscopic, calorimetric and molecular docking methods. Phytomedicine, 2015, 22, 621-630.	2.3	26
27	Spectrofluorometric and Molecular Docking Studies on the Binding of Curcumenol and Curcumenone to Human Serum Albumin. International Journal of Molecular Sciences, 2015, 16, 5180-5193.	1.8	26
28	Comprehensive insight into the binding of sunitinib, a multi-targeted anticancer drug to human serum albumin. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 181, 254-263.	2.0	25
29	Role of salt bridge(s) in the binding and photoconversion of bilirubin bound to high affinity site on human serum albumin. BBA - Proteins and Proteomics, 2000, 1479, 103-113.	2.1	24
30	Fluorometric and molecular docking investigation on the binding characteristics of SB202190 to human serum albumin. Journal of Luminescence, 2016, 174, 77-84.	1.5	24
31	Probing the interaction of 2,4-dichlorophenoxyacetic acid with human serum albumin as studied by experimental and computational approaches. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 207, 284-293.	2.0	23
32	Experimental determination of the free energy of unfolding of proteins. Biochemical Education, 1995, 23, 162-164.	0.1	22
33	Succinylation-induced Conformational Destabilization of Lysozyme as Studied by Guanidine Hydrochloride Denaturation. Journal of Biochemistry, 2009, 146, 895-904.	0.9	22
34	Interaction of flavokawain B with lysozyme: A photophysical and molecular simulation study. Journal of Luminescence, 2015, 160, 101-109.	1.5	22
35	Biophysical and computational characterization of vandetanibâ€“lysozyme interaction. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 189, 485-494.	2.0	22
36	A Correlation between Changes in Conformation and Molecular Properties of Bovine Serum Albumin upon Succinylation1. Journal of Biochemistry, 1986, 100, 1125-1136.	0.9	21

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37	PLGA-microsphere mediated clearance of bilirubin in temporarily hyperbilirubinemic rats: An alternate strategy for the treatment of experimental jaundice. Biochimica Et Biophysica Acta - General Subjects, 2006, 1760, 227-232.	1.1	21
38	Exploring the interaction between the antiallergic drug, tranilast and human serum albumin: Insights from calorimetric, spectroscopic and modeling studies. International Journal of Pharmaceutics, 2015, 491, 352-358.	2.6	18
39	Exploring the interaction mechanism of a dicarboxamide fungicide, iprodione with bovine serum albumin. Chemical Papers, 2020, 74, 1633-1646.	1.0	18
40	Interactive association between RhoA transcriptional signaling inhibitor, CCG1423 and human serum albumin: Biophysical andin silicostudies. Journal of Biomolecular Structure and Dynamics, 2018, 36, 2495-2507.	2.0	17
41	Protein stabilizing potential of simulated honey sugar cocktail under various denaturation conditions. Process Biochemistry, 2012, 47, 1933-1943.	1.8	16
42	Intermolecular recognition between pyrimethamine, an antimalarial drug and human serum albumin: Spectroscopic and docking study. Journal of Molecular Liquids, 2020, 311, 113270.	2.3	16
43	Influence of succinylation of bovine serum albumin on its conformation and bilirubin binding. BBA - Proteins and Proteomics, 1987, 913, 359-367.	2.1	15
44	Interaction of stattic, a STAT3 inhibitor with human serum albumin: spectroscopic and computational study. Journal of Biomolecular Structure and Dynamics, 2017, 35, 3581-3590.	2.0	15
45	Spectroscopic studies on the interaction of green synthesized-gold nanoparticles with human serum albumin. Journal of Molecular Liquids, 2018, 265, 105-113.	2.3	15
46	Stabilizing Effect of Various Polyols on the Native and the Denatured States of Glucoamylase. Scientific World Journal, The, 2013, 2013, 1-9.	0.8	14
47	Calcium-induced bilirubin-dependent hemolysis of human erythrocytes. Biochimica Et Biophysica Acta - Biomembranes, 1997, 1326, 124-130.	1.4	12
48	Binding of Bilirubin to Mammalian Erythrocytes. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1997, 118, 97-103.	0.7	12
49	A comparative study on the extraction of membrane-bound bilirubin from erythrocyte membranes using various methods. Journal of Proteomics, 1999, 39, 39-45.	2.4	12
50	On the modulation of photoinduced fluorescence enhancement and conformational stability of albumin-bound bilirubin:. Biochimica Et Biophysica Acta - General Subjects, 2000, 1523, 147-153.	1.1	11
51	Bilirubin binding properties of pigeon serum albumin and its comparison with human serum albumin. International Journal of Biological Macromolecules, 2002, 30, 171-178.	3.6	11
52	Spectroscopic studies on the binding of bromocresol purple to different serum albumins and its bilirubin displacing action. Journal of Photochemistry and Photobiology B: Biology, 2008, 90, 1-7.	1.7	11
53	Green synthesisedâ€gold nanoparticles in photothermal therapy of breast cancer. Micro and Nano Letters, 2019, 14, 470-474.	0.6	11
54	A look into enzyme kinetics: some introductory experiments. Biochemical Education, 1992, 20, 118.	0.1	10

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55	Chloroform-induced conformational changes in the bound pigmentin bilirubin-albumin complexes. Biochimie, 2000, 82, 203-209.	1.3	10
56	Amplification-free and direct fluorometric determination of telomerase activity in cell lysates using chimeric DNA-templated silver nanoclusters. Mikrochimica Acta, 2019, 186, 81.	2.5	10
57	Biomolecular interaction of a platelet aggregation inhibitor, 3,4-methylenedioxy-Î²-nitrostyrene with human serum albumin: multi-spectral and computational characterization. Journal of Biomolecular Structure and Dynamics, 2020, 38, 2693-2703.	2.0	10
58	Biophysical and in silico investigations of the molecular association between a potent RNA polymerase inhibitor, thiolutin and human serum albumin. Journal of Molecular Liquids, 2020, 303, 112648.	2.3	10
59	Interaction mechanism of an antimalarial drug, sulfadoxine with human serum albumin. Spectroscopy Letters, 2020, 53, 391-405.	0.5	10
60	Binding of bilirubin to erythrocytes from different mammalian species. Comparative Biochemistry and Physiology A, Comparative Physiology, 1995, 111, 507-509.	0.7	9
61	Evaluation of pendimethalin binding to human serum albumin: Insights from spectroscopic and molecular modeling approach. Journal of Biochemical and Molecular Toxicology, 2017, 31, N/A.	1.4	9
62	Exploring the combination characteristics of lumefantrine, an antimalarial drug and human serum albumin through spectroscopic and molecular docking studies. Journal of Biomolecular Structure and Dynamics, 2021, 39, 691-702.	2.0	9
63	Binding of bromophenol blue to bovine serum albumin and its succinylated forms. International Journal of Biological Macromolecules, 1990, 12, 55-58.	3.6	8
64	Combination mode of antimalarial drug mefloquine and human serum albumin: Insights from spectroscopic and docking approaches. Biopolymers, 2020, 111, e23337.	1.2	8
65	Probing the Determinants of Protein Solubility with Amino Acid Modification1. Journal of Biochemistry, 1993, 114, 786-792.	0.9	7
66	Effect of pH and temperature on the binding of bilirubin to human erythrocyte membranes. Journal of Biosciences, 2000, 25, 157-161.	0.5	7
67	Towards increasing chemical and thermal stability of lysozyme with a simulated honey sugar cocktail. RSC Advances, 2014, 4, 53891-53898.	1.7	7
68	A comparative analysis on the binding characteristics of various mammalian albumins towards a multitherapeutic agent, pinostrobin. Experimental Animals, 2015, 64, 101-108.	0.7	7
69	Characteristics and thermodynamics of the interaction of 6-shogaol with human serum albumin as studied by isothermal titration calorimetry. Brazilian Journal of Pharmaceutical Sciences, 2016, 52, 443-446.	1.2	7
70	Biophysical and computational view on the inÂvitro combination between an anticancer drug, saracatinib and human serum albumin. Journal of Biomolecular Structure and Dynamics, 2021, 39, 3565-3575.	2.0	7
71	Does Recovery in the Spectral Characteristics of GdnHCl-DenaturedBacillus licheniformisÎ±-Amylase Due to Added Calcium Point towards Protein Stabilization?. Bioscience, Biotechnology and Biochemistry, 2013, 77, 87-96.	0.6	6
72	Involvement of lysine residues of goat serum albumin in high-affinity binding of bilirubin. BBA - Proteins and Proteomics, 1994, 1205, 171-177.	2.1	5

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73	Probing structure-activity relationship in diamine oxidase reactivities of lysine and arginine residues. International Journal of Biological Macromolecules, 1996, 18, 77-81.	3.6	5
74	Differential accessibility of bilirubin to erythrocyte membrane vesicles bearing different structural features. Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology, 2000, 127, 345-350.	0.5	5
75	Effect of acetylation on conformation and bilirubin-binding properties of goat serum albumin. International Journal of Biological Macromolecules, 1995, 17, 33-35.	3.6	4
76	Bilirubin binding to normal and modified human erythrocyte membranes: effect of phospholipases, neuraminidase, trypsin and CaCl2. Molecular and Cellular Biochemistry, 2001, 228, 15-23.	1.4	4
77	Molten Globule-Like Partially Folded State ofBacillus licheniformis Î±-Amylase at Low pH Induced by 1,1,1,3,3,3-Hexafluoroisopropanol. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	4
78	Targeting chemical and thermal stability of ovalbumin by simulated honey sugar cocktail. International Journal of Biological Macromolecules, 2015, 73, 207-214.	3.6	4
79	Bromophenol Blue Binding to Mammalian Albumins and Displacement of Albumin-Bound Bilirubin. Pakistan Journal of Biological Sciences, 2008, 11, 2418-2422.	0.2	4
80	Biochemistry and roles of glycophorin A. Biochemical Education, 1988, 16, 63-66.	0.1	3
81	Biochemistry through cartoons â€" Understanding Enzymes. Biochemical Education, 1990, 18, 42-43.	0.1	3
82	Binding of bilirubin to goat serum albumin: Determination of binding constant. Biochemical Education, 1995, 23, 98-100.	0.1	3
83	Comparison of bilirubin binding and other molecular properties of tile serum albumin of several mammalian species. IUBMB Life, 1998, 44, 165-173.	1.5	3
84	Differential resistance to calcium-induced bilirubin-dependent hemolysis in mammalian erythrocytes. Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology, 1999, 122, 109-113.	0.5	3
85	Effect of phospholipase C, trypsin and neuraminidase on binding of bilirubin to mammalian erythrocyte membranes. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2001, 129, 355-362.	0.8	3
86	Liposomeâ€Bilirubin Interaction: A Novel Strategy to Eliminate Bilirubin from Systemic Circulation. Journal of Liposome Research, 2004, 14, 111-122.	1.5	3
87	Interaction of bilirubin with sealed and human serum albumin-entrapped sealed membranes. Molecular and Cellular Biochemistry, 2005, 277, 101-107.	1.4	3
88	Halogenol- versus alkanol-induced structural transitions of acid-denatured glucoamylase: Characterization of alcohol-induced states. Process Biochemistry, 2013, 48, 853-862.	1.8	3
89	Honey-Induced Protein Stabilization as Studied by Fluorescein Isothiocyanate Fluorescence. Scientific World Journal, The, 2013, 2013, 1-8.	0.8	3
90	Biomolecular interaction mechanism of an anticancer drug, pazopanib with human serum albumin: a multi-spectroscopic and computational approach. Journal of Biomolecular Structure and Dynamics, 2022, 40, 8312-8323.	2.0	3

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91	Influence of Buffer Composition and Calcium Chloride on GdnHCl Denaturation of Bacillus licheniformis α-Amylase. Protein and Peptide Letters, 2016, 23, 537-543.	0.4	3
92	Interference of Sodium Azide with the Quantitation of Bilirubin: Modification of Fogâ€²s Method to Eliminate Azide Interference. Analytical Biochemistry, 1995, 224, 542-546.	1.1	2
93	Memorization through games. Biochemical Education, 1995, 23, 100-101.	0.1	2
94	Interaction of bilirubin with native and protein-depleted human erythrocyte membranes. Molecular and Cellular Biochemistry, 2003, 246, 171-177.	1.4	2
95	Structural stability of commercial ficin under different denaturing conditions. Turkish Journal of Biochemistry, 2013, 38, 319-328.	0.3	2
96	Conformational analysis of champedak galactose-binding lectin under different urea concentrations. Plant Physiology and Biochemistry, 2016, 98, 57-63.	2.8	2
97	Exploring ligand-protein interaction: A laboratory exercise on herbicide binding to plasma transport protein. Biochemistry and Molecular Biology Education, 2019, 47, 156-160.	0.5	2
98	Comparison of pendimethalin binding properties of serum albumins from various mammalian species. Biyokimya Dergisi, 2019, 44, 363-369.	0.1	2
99	Exploring the interaction between tyrphostin 9 and human serum albumin using biophysical and computational methods. Journal of Biomolecular Structure and Dynamics, 2020, 38, 4134-4142.	2.0	2
100	Docking Evaluation of the Interaction Between Green Tea Active Ingredient, l-Theanine and Human Serum Albumin. The National Academy of Sciences, India, 2021, 44, 17-19.	0.8	2
101	Conformational destabilization of Bacillus licheniformis Î±-amylase induced by lysine modification and calcium depletion.. Acta Biochimica Polonica, 2011, 58, .	0.3	2
102	A Comparative Analysis of Protein Stabilizing Potential of Honey and Simulated Honey Sugar Cocktail. Protein and Peptide Letters, 2016, 23, 898-904.	0.4	2
103	Effect of Various Polyols on the Acid-Denatured States of Champedak Galactose-Binding Lectin. Protein and Peptide Letters, 2018, 25, 314-324.	0.4	2
104	Protein Profiling of Brassica juncea (L.) Czern var. Ensabi at Different Developmental Stages. Journal of Biological Sciences, 2011, 11, 165-172.	0.1	2
105	Mini review: protein folding: a problem of today. Biochemical Education, 1988, 16, 221.	0.1	1
106	Immunological exercises for beginners. Biochemical Education, 1993, 21, 155-157.	0.1	1
107	Visualization of serum albumin on electrophoretic gels using the specific ligand bilirubin. Journal of Proteomics, 1998, 37, 47-52.	2.4	1
108	Alcohol-induced structural transitions in the acid-denatured Bacillus licheniformis Î±-amylase. Journal of Saudi Chemical Society, 2017, 21, S349-S358.	2.4	1

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109	Lysine modification of human serum albumin and its effect on protein conformation and nalidixic acid binding. Journal of the Indian Chemical Society, 2021, 98, 100031.	1.3	1
110	Stabilization of Human Serum Albumin against Urea Denaturation by Diazepam and Ketoprofen. Protein and Peptide Letters, 2015, 22, 611-617.	0.4	1
111	Warfarin Binding to Native and Structurally-Altered Human Serum Albumins. Indian Journal of Pharmaceutical Education and Research, 2015, 49, 225-230.	0.3	1
112	Chemical Analysis ofBrassica juncea(L.) Czern var. Ensabi. Vegetos, 2013, 26, 93.	0.8	1
113	Acid-Induced Unfolding of Champedak Galactose-Binding Lectin. Protein and Peptide Letters, 2016, 23, 1111-1117.	0.4	1
114	Fluorometric and Docking Analysis of the Complex Formation between an Anti-Cancer Drug, Chlorambucil and Bovine Serum Albumin. Indian Journal of Pharmaceutical Education and Research, 2019, 53, 682-687.	0.3	1
115	Biochemical education in Kashmir, India. Biochemical Education, 1989, 17, 84-85.	0.1	0
116	Biochemical education in leisure. Biochemical Education, 1994, 22, 21-23.	0.1	0
117	Erythrocytes from healthy smokers bind more bilirubin than the erythrocytes from healthy non-smokers. Molecular and Cellular Biochemistry, 1998, 183, 211-214.	1.4	0
118	Contributory presentations/posters. Journal of Biosciences, 1999, 24, 33-198.	0.5	0
119	Modulation in the photosensitivity of albumin-bound bilirubin. International Journal of Biological Macromolecules, 2001, 29, 267-271.	3.6	0
120	Enhanced bilirubin binding to different mammalian erythrocytes in the presence of magnesium ions. Indian Journal of Clinical Biochemistry, 2001, 16, 31-36.	0.9	0
121	Resistance towards calcium induced bilirubin dependent hemolysis in porcine erythrocytes. Indian Journal of Clinical Biochemistry, 2008, 23, 17-23.	0.9	0
122	Intrinsic Fluorescence as a Spectral Probe for Protein Denaturation Studies in the Presence of Honey. Journal of Applied Spectroscopy, 2015, 82, 845-848.	0.3	0
123	Biophysical and computational approaches to unravel the molecular interaction mechanism of bromodeoxyuridine, a proliferative marker with human serum albumin. Monatshefte FÃ¼r Chemie, 2019, 150, 2061-2070.	0.9	0
124	Interaction of bilirubin with native and protein-depleted human erythrocyte membranes. , 2003, , 171-177.		0
125	Increased Chemical Stability of Bacillus Licheniformis Î±-Amylase Upon Acetylation. Studia Universitatis Babes-Bolyai Chemia, 2017, 62, 319-332.	0.1	0
126	Interaction of bilirubin with native and protein-depleted human erythrocyte membranes. Molecular and Cellular Biochemistry, 2003, 246, 171-7.	1.4	0