

Saad Tayyab

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119
papers

1,849
citations

23
h-index

39
g-index

127
ext. papers

2,046
ext. citations

3.7
avg, IF

4.91
L-index

#	Paper	IF	Citations
119	Multispectroscopic and molecular modeling approach to investigate the interaction of flavokawain B with human serum albumin. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 5899-908	5.7	172
118	Molten globule-like state of human serum albumin at low pH. <i>FEBS Journal</i> , 1999 , 266, 26-32		106
117	Anion-induced stabilization of human serum albumin prevents the formation of intermediate during urea denaturation. <i>Proteins: Structure, Function and Bioinformatics</i> , 2000 , 40, 29-38	4.2	94
116	Protein proteinase inhibitors from avian egg whites. <i>Cellular and Molecular Life Sciences</i> , 1997 , 53, 13-23	10.3	77
115	On the purported Backbone fluorescence in protein three-dimensional fluorescence spectra. <i>RSC Advances</i> , 2016 , 6, 112870-112876	3.7	76
114	Probing the interaction of a therapeutic flavonoid, pinostrobin with human serum albumin: multiple spectroscopic and molecular modeling investigations. <i>PLoS ONE</i> , 2013 , 8, e76067	3.7	70
113	Use of domain specific ligands to study urea-induced unfolding of bovine serum albumin. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 277, 83-8	3.4	60
112	Formation of molten globule-like state during acid denaturation of <i>Aspergillus niger</i> glucoamylase. <i>Process Biochemistry</i> , 2012 , 47, 775-784	4.8	56
111	Molten-globule like partially folded states of human serum albumin induced by fluoro and alkyl alcohols at low pH. <i>Archives of Biochemistry and Biophysics</i> , 2004 , 426, 3-10	4.1	51
110	Binding of an anticancer drug, axitinib to human serum albumin: Fluorescence quenching and molecular docking study. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016 , 162, 386-394	6.7	50
109	Interaction of an anticancer drug, gefitinib with human serum albumin: insights from fluorescence spectroscopy and computational modeling analysis. <i>RSC Advances</i> , 2016 , 6, 91756-91767	3.7	43
108	Use of fluorescence enhancement technique to study bilirubin-albumin interaction. <i>International Journal of Biological Macromolecules</i> , 1999 , 25, 353-8	7.9	43
107	Understanding the role of internal lysine residues of serum albumins in conformational stability and bilirubin binding. <i>BBA - Proteins and Proteomics</i> , 2001 , 1545, 263-77		40
106	Gastroprotective effect of ethanolic extract of <i>Curcuma xanthorrhiza</i> leaf against ethanol-induced gastric mucosal lesions in Sprague-Dawley rats. <i>BioMed Research International</i> , 2014 , 2014, 416409	3	39
105	Salt-induced refolding in different domains of partially folded bovine serum albumin. <i>International Journal of Biological Macromolecules</i> , 2002 , 30, 17-22	7.9	33
104	Anion-induced refolding of human serum albumin under low pH conditions. <i>BBA - Proteins and Proteomics</i> , 2000 , 1476, 139-48		33
103	Bromophenol blue binding as a probe to study urea and guanidine hydrochloride denaturation of bovine serum albumin. <i>Journal of Biochemistry</i> , 2008 , 144, 33-8	3.1	30

102	Influence of fluoro, chloro and alkyl alcohols on the folding pathway of human serum albumin. <i>Journal of Biochemistry</i> , 2005 , 138, 335-41	3.1	30
101	Molecular interaction study of an anticancer drug, ponatinib with human serum albumin using spectroscopic and molecular docking methods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 214, 199-206	4.4	24
100	Role of salt bridge(s) in the binding and photoconversion of bilirubin bound to high affinity site on human serum albumin. <i>BBA - Proteins and Proteomics</i> , 2000 , 1479, 103-13		24
99	Effect of lysine modification on the conformation and indomethacin binding properties of human serum albumin. <i>International Journal of Biological Macromolecules</i> , 1999 , 26, 173-80	7.9	24
98	Spectrofluorometric and molecular docking studies on the binding of curcumenol and curcumenone to human serum albumin. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 5180-93	6.3	23
97	Behavior of various mammalian albumins towards bilirubin binding and photochemical properties of different bilirubin-albumin complexes. <i>International Journal of Biological Macromolecules</i> , 2003 , 31, 187-93	7.9	23
96	Size exclusion chromatography and size exclusion HPLC of proteins. <i>Biochemical Education</i> , 1991 , 19, 149-152		23
95	Interaction of a tyrosine kinase inhibitor, vandetanib with human serum albumin as studied by fluorescence quenching and molecular docking. <i>Journal of Biomolecular Structure and Dynamics</i> , 2016 , 34, 1693-704	3.6	22
94	Supramolecular interaction of 6-shogaol, a therapeutic agent of <i>Zingiber officinale</i> with human serum albumin as elucidated by spectroscopic, calorimetric and molecular docking methods. <i>Phytomedicine</i> , 2015 , 22, 621-30	6.5	22
93	Characterization of the binding of an anticancer drug, lapatinib to human serum albumin. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016 , 160, 229-39	6.7	22
92	PLGA-microsphere mediated clearance of bilirubin in temporarily hyperbilirubinemic rats: an alternate strategy for the treatment of experimental jaundice. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2006 , 1760, 227-32	4	21
91	Interaction of flavokawain B with lysozyme: A photophysical and molecular simulation study. <i>Journal of Luminescence</i> , 2015 , 160, 101-109	3.8	20
90	Succinylation-induced conformational destabilization of lysozyme as studied by guanidine hydrochloride denaturation. <i>Journal of Biochemistry</i> , 2009 , 146, 895-904	3.1	20
89	Experimental determination of the free energy of unfolding of proteins. <i>Biochemical Education</i> , 1995 , 23, 162-164		20
88	Fluorometric and molecular docking investigation on the binding characteristics of SB202190 to human serum albumin. <i>Journal of Luminescence</i> , 2016 , 174, 77-84	3.8	18
87	A correlation between changes in conformation and molecular properties of bovine serum albumin upon succinylation. <i>Journal of Biochemistry</i> , 1986 , 100, 1125-36	3.1	18
86	Comprehensive insight into the binding of sunitinib, a multi-targeted anticancer drug to human serum albumin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017 , 181, 254-263	4.4	17
85	Probing the interaction of 2,4-dichlorophenoxyacetic acid with human serum albumin as studied by experimental and computational approaches. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 207, 284-293	4.4	16

84	Interactive association between RhoA transcriptional signaling inhibitor, CCG1423 and human serum albumin: Biophysical and in silico studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018 , 36, 2495-2507	3.6	15
83	Protein stabilizing potential of simulated honey sugar cocktail under various denaturation conditions. <i>Process Biochemistry</i> , 2012 , 47, 1933-1943	4.8	15
82	Interaction of stattic, a STAT3 inhibitor with human serum albumin: spectroscopic and computational study. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017 , 35, 3581-3590	3.6	14
81	Exploring the interaction between the antiallergic drug, tranilast and human serum albumin: Insights from calorimetric, spectroscopic and modeling studies. <i>International Journal of Pharmaceutics</i> , 2015 , 491, 352-8	6.5	14
80	Stabilizing effect of various polyols on the native and the denatured states of glucoamylase. <i>Scientific World Journal, The</i> , 2013 , 2013, 570859	2.2	14
79	Influence of succinylation of bovine serum albumin on its conformation and bilirubin binding. <i>BBA - Proteins and Proteomics</i> , 1987 , 913, 359-67		14
78	Biophysical and computational characterization of vandetanib-lysozyme interaction. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 189, 485-494	4.4	12
77	Spectroscopic studies on the interaction of green synthesized-gold nanoparticles with human serum albumin. <i>Journal of Molecular Liquids</i> , 2018 , 265, 105-113	6	12
76	On the modulation of photoinduced fluorescence enhancement and conformational stability of albumin-bound bilirubin: effect of epsilon-NH(2) groups blocking and chloroform binding. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2000 , 1523, 147-53	4	11
75	A comparative study on the extraction of membrane-bound bilirubin from erythrocyte membranes using various methods. <i>Journal of Proteomics</i> , 1999 , 39, 39-45		11
74	Calcium-induced bilirubin-dependent hemolysis of human erythrocytes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1997 , 1326, 124-30	3.8	10
73	Spectroscopic studies on the binding of bromocresol purple to different serum albumins and its bilirubin displacing action. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2008 , 90, 1-7	6.7	10
72	Evaluation of pendimethalin binding to human serum albumin: Insights from spectroscopic and molecular modeling approach. <i>Journal of Biochemical and Molecular Toxicology</i> , 2017 , 31, N/A	3.4	9
71	Binding of bilirubin to mammalian erythrocytes. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1997 , 118, 97-103	2.3	9
70	Bilirubin binding properties of pigeon serum albumin and its comparison with human serum albumin. <i>International Journal of Biological Macromolecules</i> , 2002 , 30, 171-8	7.9	9
69	Chloroform-induced conformational changes in the bound pigment in bilirubin-albumin complexes. <i>Biochimie</i> , 2000 , 82, 203-9	4.6	9
68	Binding of bilirubin to erythrocytes from different mammalian species. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1995 , 111, 507-9		9
67	Exploring the interaction mechanism of a dicarboxamide fungicide, iprodione with bovine serum albumin. <i>Chemical Papers</i> , 2020 , 74, 1633-1646	1.9	9

66	Binding of bromophenol blue to bovine serum albumin and its succinylated forms. <i>International Journal of Biological Macromolecules</i> , 1990 , 12, 55-8	7.9	8
65	Biomolecular interaction of a platelet aggregation inhibitor, 3,4-methylenedioxy-Ehitrostyrene with human serum albumin: multi-spectral and computational characterization. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020 , 38, 2693-2703	3.6	8
64	Towards increasing chemical and thermal stability of lysozyme with a simulated honey sugar cocktail. <i>RSC Advances</i> , 2014 , 4, 53891-53898	3.7	7
63	A comparative analysis on the binding characteristics of various mammalian albumins towards a multitherapeutic agent, pinostrobin. <i>Experimental Animals</i> , 2015 , 64, 101-8	1.8	7
62	Probing the determinants of protein solubility with amino acid modification. <i>Journal of Biochemistry</i> , 1993 , 114, 786-92	3.1	7
61	A look into enzyme kinetics: some introductory experiments. <i>Biochemical Education</i> , 1992 , 20, 118		7
60	Amplification-free and direct fluorometric determination of telomerase activity in cell lysates using chimeric DNA-templated silver nanoclusters. <i>Mikrochimica Acta</i> , 2019 , 186, 81	5.8	7
59	Serum albumin: clinical significance of drug binding and development as drug delivery vehicle. <i>Advances in Protein Chemistry and Structural Biology</i> , 2021 , 123, 193-218	5.3	7
58	Intermolecular recognition between pyrimethamine, an antimalarial drug and human serum albumin: Spectroscopic and docking study. <i>Journal of Molecular Liquids</i> , 2020 , 311, 113270	6	6
57	Characteristics and thermodynamics of the interaction of 6-shogaol with human serum albumin as studied by isothermal titration calorimetry. <i>Brazilian Journal of Pharmaceutical Sciences</i> , 2016 , 52, 443-446	1.8	6
56	Does recovery in the spectral characteristics of GdnHCl-denatured Bacillus licheniformis α -amylase due to added calcium point towards protein stabilization?. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013 , 77, 87-96	2.1	5
55	Effect of pH and temperature on the binding of bilirubin to human erythrocyte membranes. <i>Journal of Biosciences</i> , 2000 , 25, 157-161	2.3	5
54	Probing structure-activity relationship in diamine oxidase--reactivities of lysine and arginine residues. <i>International Journal of Biological Macromolecules</i> , 1996 , 18, 77-81	7.9	5
53	Differential accessibility of bilirubin to erythrocyte membrane vesicles bearing different structural features. <i>Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology</i> , 2000 , 127, 345-50		4
52	Effect of acetylation on conformation and bilirubin-binding properties of goat serum albumin. <i>International Journal of Biological Macromolecules</i> , 1995 , 17, 33-5	7.9	4
51	Involvement of lysine residues of goat serum albumin in high-affinity binding of bilirubin. <i>BBA - Proteins and Proteomics</i> , 1994 , 1205, 171-7		4
50	Bromophenol blue binding to mammalian albumins and displacement of albumin-bound bilirubin. <i>Pakistan Journal of Biological Sciences</i> , 2008 , 11, 2418-22	0.8	4
49	Green synthesised-gold nanoparticles in photothermal therapy of breast cancer. <i>Micro and Nano Letters</i> , 2019 , 14, 470-474	0.9	4

48	Targeting chemical and thermal stability of ovalbumin by simulated honey sugar cocktail. <i>International Journal of Biological Macromolecules</i> , 2015 , 73, 207-14	7.9	3
47	Biophysical and computational view on the combination between an anticancer drug, saracatinib and human serum albumin. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 39, 3565-3575	3.6	3
46	Halogenol- versus alkanol-induced structural transitions of acid-denatured glucoamylase: Characterization of alcohol-induced states. <i>Process Biochemistry</i> , 2013 , 48, 853-862	4.8	3
45	Liposome-bilirubin interaction: a novel strategy to eliminate bilirubin from systemic circulation. <i>Journal of Liposome Research</i> , 2004 , 14, 111-22	6.1	3
44	Interaction of bilirubin with sealed and human serum albumin-entrapped sealed membranes. <i>Molecular and Cellular Biochemistry</i> , 2005 , 277, 101-7	4.2	3
43	Bilirubin binding to normal and modified human erythrocyte membranes: effect of phospholipases, neuraminidase, trypsin and CaCl ₂ . <i>Molecular and Cellular Biochemistry</i> , 2001 , 228, 15-23	4.2	3
42	Effect of phospholipase C, trypsin and neuraminidase on binding of bilirubin to mammalian erythrocyte membranes. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2001 , 129, 355-62	2.6	3
41	Differential resistance to calcium-induced bilirubin-dependent hemolysis in mammalian erythrocytes. <i>Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology</i> , 1999 , 122, 109-13		3
40	Binding of bilirubin to goat serum albumin: Determination of binding constant. <i>Biochemical Education</i> , 1995 , 23, 98-100		3
39	Biochemistry through cartoons □Understanding Enzymes. <i>Biochemical Education</i> , 1990 , 18, 42-43		3
38	Biochemistry and roles of glycoporphin A. <i>Biochemical Education</i> , 1988 , 16, 63-66		3
37	Influence of Buffer Composition and Calcium Chloride on GdnHCl Denaturation of Bacillus licheniformis □Amylase. <i>Protein and Peptide Letters</i> , 2016 , 23, 537-43	1.9	3
36	Interaction mechanism of an antimalarial drug, sulfadoxine with human serum albumin. <i>Spectroscopy Letters</i> , 2020 , 53, 391-405	1.1	3
35	Biophysical and in silico investigations of the molecular association between a potent RNA polymerase inhibitor, thiolutin and human serum albumin. <i>Journal of Molecular Liquids</i> , 2020 , 303, 112648	6	2
34	Molten globule-like partially folded state of Bacillus licheniformis □Amylase at low pH induced by 1,1,1,3,3,3-hexafluoroisopropanol. <i>Scientific World Journal, The</i> , 2014 , 2014, 824768	2.2	2
33	Structural stability of commercial ficin under different denaturing conditions. <i>Turkish Journal of Biochemistry</i> , 2013 , 38, 319-328	0.3	2
32	Honey-induced protein stabilization as studied by fluorescein isothiocyanate fluorescence. <i>Scientific World Journal, The</i> , 2013 , 2013, 981902	2.2	2
31	Comparison of bilirubin binding and other molecular properties of the serum albumin of several mammalian species. <i>IUBMB Life</i> , 1998 , 44, 165-73	4.7	2

30	Interaction of bilirubin with native and protein-depleted human erythrocyte membranes. <i>Molecular and Cellular Biochemistry</i> , 2003 , 246, 171-177	4.2	2
29	Interference of sodium azide with the quantitation of bilirubin: modification of Fog's method to eliminate azide interference. <i>Analytical Biochemistry</i> , 1995 , 224, 542-6	3.1	2
28	Conformational destabilization of Bacillus licheniformis α -amylase induced by lysine modification and calcium depletion.. <i>Acta Biochimica Polonica</i> , 2011 , 58,	2	2
27	A Comparative Analysis of Protein Stabilizing Potential of Honey and Simulated Honey Sugar Cocktail. <i>Protein and Peptide Letters</i> , 2016 , 23, 898-904	1.9	2
26	Effect of Various Polyols on the Acid-Denatured States of Champedak Galactose-Binding Lectin. <i>Protein and Peptide Letters</i> , 2018 , 25, 314-324	1.9	2
25	Combination mode of antimalarial drug mefloquine and human serum albumin: Insights from spectroscopic and docking approaches. <i>Biopolymers</i> , 2020 , 111, e23337	2.2	2
24	Exploring the interaction between tyrphostin 9 and human serum albumin using biophysical and computational methods. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020 , 38, 4134-4142	3.6	2
23	Exploring the combination characteristics of lumefantrine, an antimalarial drug and human serum albumin through spectroscopic and molecular docking studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 39, 691-702	3.6	2
22	Alcohol-induced structural transitions in the acid-denatured Bacillus licheniformis α -amylase. <i>Journal of Saudi Chemical Society</i> , 2017 , 21, S349-S358	4.3	1
21	Immunological exercises for beginners. <i>Biochemical Education</i> , 1993 , 21, 155-157		1
20	Mini review: protein folding: a problem of today. <i>Biochemical Education</i> , 1988 , 16, 221		1
19	Stabilization of Human Serum Albumin against Urea Denaturation by Diazepam and Ketoprofen. <i>Protein and Peptide Letters</i> , 2015 , 22, 611-7	1.9	1
18	Protein Profiling of Brassica juncea (L.) Czern var. Ensabi at Different Developmental Stages. <i>Journal of Biological Sciences</i> , 2011 , 11, 165-172	0.4	1
17	Comparison of pendimethalin binding properties of serum albumins from various mammalian species. <i>Biyokimya Dergisi</i> , 2019 , 44, 363-369	0.7	1
16	Docking Evaluation of the Interaction Between Green Tea Active Ingredient, l-Theanine and Human Serum Albumin. <i>The National Academy of Sciences, India</i> , 2021 , 44, 17-19	0.6	1
15	Lysine modification of human serum albumin and its effect on protein conformation and nalidixic acid binding. <i>Journal of the Indian Chemical Society</i> , 2021 , 98, 100031		1
14	Conformational analysis of champedak galactose-binding lectin under different urea concentrations. <i>Plant Physiology and Biochemistry</i> , 2016 , 98, 57-63	5.4	0
13	Visualization of serum albumin on electrophoretic gels using the specific ligand bilirubin. <i>Journal of Proteomics</i> , 1998 , 37, 47-52		0

12	Biomolecular interaction mechanism of an anticancer drug, pazopanib with human serum albumin: a multi-spectroscopic and computational approach. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 1-12	3.6	0
11	Intrinsic Fluorescence as a Spectral Probe for Protein Denaturation Studies in the Presence of Honey. <i>Journal of Applied Spectroscopy</i> , 2015 , 82, 845-848	0.7	
10	Erythrocytes from healthy smokers bind more bilirubin than the erythrocytes from healthy non-smokers. <i>Molecular and Cellular Biochemistry</i> , 1998 , 183, 211-4	4.2	
9	Resistance towards calcium induced bilirubin dependent hemolysis in porcine erythrocytes. <i>Indian Journal of Clinical Biochemistry</i> , 2008 , 23, 17-23	2.2	
8	Enhanced bilirubin binding to different mammalian erythrocytes in the presence of magnesium ions. <i>Indian Journal of Clinical Biochemistry</i> , 2001 , 16, 31-6	2.2	
7	Modulation in the photosensitivity of albumin-bound bilirubin. <i>International Journal of Biological Macromolecules</i> , 2001 , 29, 267-71	7.9	
6	Contributory presentations/posters. <i>Journal of Biosciences</i> , 1999 , 24, 33-198	2.3	
5	Interaction of bilirubin with native and protein-depleted human erythrocyte membranes 2003 , 171-177		
4	Acid-Induced Unfolding of Champedak Galactose-Binding Lectin. <i>Protein and Peptide Letters</i> , 2016 , 23, 1111-1117	1.9	
3	Biophysical and computational approaches to unravel the molecular interaction mechanism of bromodeoxyuridine, a proliferative marker with human serum albumin. <i>Monatshefte Für Chemie</i> , 2019 , 150, 2061-2070	1.4	
2	Exploring ligand-protein interaction: A laboratory exercise on herbicide binding to plasma transport protein. <i>Biochemistry and Molecular Biology Education</i> , 2019 , 47, 156-160	1.3	
1	Interaction of bilirubin with native and protein-depleted human erythrocyte membranes. <i>Molecular and Cellular Biochemistry</i> , 2003 , 246, 171-7	4.2	