Saad Tayyab

List of Publications by Year in Descending Order

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	Biophysical and computational view on the combination between an anticancer drug, saracatinib and human serum albumin. *Journal of Biomolecular Structure and Dynamics*, **2021**, 39, 3565-3575	3.6	3
118	Biomolecular interaction mechanism of an anticancer drug, pazopanib with human serum albumin: a multi-spectroscopic and computational approach. *Journal of Biomolecular Structure and Dynamics*, **2021**, 1-12	3.6	0
117	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	0.6	1
116	Serum albumin: clinical significance of drug binding and development as drug delivery vehicle. *Advances in Protein Chemistry and Structural Biology*, **2021**, 123, 193-218	5.3	7
115	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	3.6	2
114	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
113	Intermolecular recognition between pyrimethamine, an antimalarial drug and human serum albumin: Spectroscopic and docking study. *Journal of Molecular Liquids*, **2020**, 311, 113270	6	6
112	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	6	2
111	Interaction mechanism of an antimalarial drug, sulfadoxine with human serum albumin. *Spectroscopy Letters*, **2020**, 53, 391-405	1.1	3
110	Combination mode of antimalarial drug mefloquine and human serum albumin: Insights from spectroscopic and docking approaches. *Biopolymers*, **2020**, 111, e23337	2.2	2
109	Exploring the interaction mechanism of a dicarboxamide fungicide, iprodione with bovine serum albumin. *Chemical Papers*, **2020**, 74, 1633-1646	1.9	9
108	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	3.6	2
107	Biomolecular interaction of a platelet aggregation inhibitor, 3,4-methylenedioxy-β-nitrostyrene with human serum albumin: multi-spectral and computational characterization. *Journal of Biomolecular Structure and Dynamics*, **2020**, 38, 2693-2703	3.6	8
106	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	4.4	24
105	Green synthesised-gold nanoparticles in photothermal therapy of breast cancer. *Micro and Nano Letters*, **2019**, 14, 470-474	0.9	4
104	Biophysical and computational approaches to unravel the molecular interaction mechanism of bromodeoxyuridine, a proliferative marker with human serum albumin. *Monatshefte Fü Chemie*, **2019**, 150, 2061-2070	1.4	
103	Exploring ligand-protein interaction: A laboratory exercise on herbicide binding to plasma transport protein. *Biochemistry and Molecular Biology Education*, **2019**, 47, 156-160	1.3	

102	Amplification-free and direct fluorometric determination of telomerase activity in cell lysates using chimeric DNA-templated silver nanoclusters. *Mikrochimica Acta*, **2019**, 186, 81	5.8	7
101	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	4.4	16
100	Comparison of pendimethalin binding properties of serum albumins from various mammalian species. *Biyokimya Dergisi*, **2019**, 44, 363-369	0.7	1
99	Interactive association between RhoA transcriptional signaling inhibitor, CCG1423 and human serum albumin: Biophysical and in silico studies. *Journal of Biomolecular Structure and Dynamics*, **2018**, 36, 2495-2507	3.6	15
98	Biophysical and computational characterization of vandetanib-lysozyme interaction. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2018**, 189, 485-494	4.4	12
97	Effect of Various Polyols on the Acid-Denatured States of Champedak Galactose-Binding Lectin. *Protein and Peptide Letters*, **2018**, 25, 314-324	1.9	2
96	Spectroscopic studies on the interaction of green synthesized-gold nanoparticles with human serum albumin. *Journal of Molecular Liquids*, **2018**, 265, 105-113	6	12
95	Interaction of stattic, a STAT3 inhibitor with human serum albumin: spectroscopic and computational study. *Journal of Biomolecular Structure and Dynamics*, **2017**, 35, 3581-3590	3.6	14
94	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	4.4	17
93	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	3.4	9
92	Alcohol-induced structural transitions in the acid-denatured Bacillus licheniformis α-amylase. *Journal of Saudi Chemical Society*, **2017**, 21, S349-S358	4.3	1
91	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, 1693-704	3.6	22
90	On the purported "backbone fluorescence" in protein three-dimensional fluorescence spectra. *RSC Advances*, **2016**, 6, 112870-112876	3.7	76
89	Interaction of an anticancer drug, gefitinib with human serum albumin: insights from fluorescence spectroscopy and computational modeling analysis. *RSC Advances*, **2016**, 6, 91756-91767	3.7	43
88	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	6.7	50
87	Conformational analysis of champedak galactose-binding lectin under different urea concentrations. *Plant Physiology and Biochemistry*, **2016**, 98, 57-63	5.4	0
86	Fluorometric and molecular docking investigation on the binding characteristics of SB202190 to human serum albumin. *Journal of Luminescence*, **2016**, 174, 77-84	3.8	18
85	Influence of Buffer Composition and Calcium Chloride on GdnHCl Denaturation of Bacillus licheniformis α-Amylase. *Protein and Peptide Letters*, **2016**, 23, 537-43	1.9	3

84	A Comparative Analysis of Protein Stabilizing Potential of Honey and Simulated Honey Sugar Cocktail. *Protein and Peptide Letters*, **2016**, 23, 898-904	1.9	2
83	Acid-Induced Unfolding of Champedak Galactose-Binding Lectin. *Protein and Peptide Letters*, **2016**, 23, 1111-1117	1.9	
82	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	1.8	6
81	Characterization of the binding of an anticancer drug, lapatinib to human serum albumin. *Journal of Photochemistry and Photobiology B: Biology*, **2016**, 160, 229-39	6.7	22
80	Spectrofluorometric and molecular docking studies on the binding of curcumenol and curcumenone to human serum albumin. *International Journal of Molecular Sciences*, **2015**, 16, 5180-93	6.3	23
79	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, 352-8	6.5	14
78	Intrinsic Fluorescence as a Spectral Probe for Protein Denaturation Studies in the Presence of Honey. *Journal of Applied Spectroscopy*, **2015**, 82, 845-848	0.7	
77	Interaction of flavokawain B with lysozyme: A photophysical and molecular simulation study. *Journal of Luminescence*, **2015**, 160, 101-109	3.8	20
76	Targeting chemical and thermal stability of ovalbumin by simulated honey sugar cocktail. *International Journal of Biological Macromolecules*, **2015**, 73, 207-14	7.9	3
75	A comparative analysis on the binding characteristics of various mammalian albumins towards a multitherapeutic agent, pinostrobin. *Experimental Animals*, **2015**, 64, 101-8	1.8	7
74	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, 621-30	6.5	22
73	Stabilization of Human Serum Albumin against Urea Denaturation by Diazepam and Ketoprofen. *Protein and Peptide Letters*, **2015**, 22, 611-7	1.9	1
72	Towards increasing chemical and thermal stability of lysozyme with a simulated honey sugar cocktail. *RSC Advances*, **2014**, 4, 53891-53898	3.7	7
71	Molten globule-like partially folded state of Bacillus licheniformis α-amylase at low pH induced by 1,1,1,3,3,3-hexafluoroisopropanol. *Scientific World Journal, The*, **2014**, 2014, 824768	2.2	2
70	Gastroprotective effect of ethanolic extract of Curcuma xanthorrhiza leaf against ethanol-induced gastric mucosal lesions in Sprague-Dawley rats. *BioMed Research International*, **2014**, 2014, 416409	3	39
69	Halogenol- versus alkanol-induced structural transitions of acid-denatured glucoamylase: Characterization of alcohol-induced states. *Process Biochemistry*, **2013**, 48, 853-862	4.8	3
68	Structural stability of commercial ficin under different denaturing conditions. *Turkish Journal of Biochemistry*, **2013**, 38, 319-328	0.3	2
67	Does recovery in the spectral characteristics of GdnHCl-denatured Bacillus licheniformis α-amylase due to added calcium point towards protein stabilization?. *Bioscience, Biotechnology and Biochemistry*, **2013**, 77, 87-96	2.1	5

66	Honey-induced protein stabilization as studied by fluorescein isothiocyanate fluorescence. *Scientific World Journal, The*, **2013**, 2013, 981902	2.2	2
65	Probing the interaction of a therapeutic flavonoid, pinostrobin with human serum albumin: multiple spectroscopic and molecular modeling investigations. *PLoS ONE*, **2013**, 8, e76067	3.7	70
64	Stabilizing effect of various polyols on the native and the denatured states of glucoamylase. *Scientific World Journal, The*, **2013**, 2013, 570859	2.2	14
63	Formation of molten globule-like state during acid denaturation of Aspergillus niger glucoamylase. *Process Biochemistry*, **2012**, 47, 775-784	4.8	56
62	Multispectroscopic and molecular modeling approach to investigate the interaction of flavokawain B with human serum albumin. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 5899-908	5.7	172
61	Protein stabilizing potential of simulated honey sugar cocktail under various denaturation conditions. *Process Biochemistry*, **2012**, 47, 1933-1943	4.8	15
60	Conformational destabilization of Bacillus licheniformis α-amylase induced by lysine modification and calcium depletion.. *Acta Biochimica Polonica*, **2011**, 58,	2	2
59	Protein Profiling of Brassica juncea (L.) Czern var. Ensabi at Different Developmental Stages. *Journal of Biological Sciences*, **2011**, 11, 165-172	0.4	1
58	Succinylation-induced conformational destabilization of lysozyme as studied by guanidine hydrochloride denaturation. *Journal of Biochemistry*, **2009**, 146, 895-904	3.1	20
57	Bromophenol blue binding as a probe to study urea and guanidine hydrochloride denaturation of bovine serum albumin. *Journal of Biochemistry*, **2008**, 144, 33-8	3.1	30
56	Resistance towards calcium induced bilirubin dependent hemolysis in porcine erythrocytes. *Indian Journal of Clinical Biochemistry*, **2008**, 23, 17-23	2.2	
55	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	6.7	10
54	Bromophenol blue binding to mammalian albumins and displacement of albumin-bound bilirubin. *Pakistan Journal of Biological Sciences*, **2008**, 11, 2418-22	0.8	4
53	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, 227-32	4	21
52	Interaction of bilirubin with sealed and human serum albumin-entrapped sealed membranes. *Molecular and Cellular Biochemistry*, **2005**, 277, 101-7	4.2	3
51	Influence of fluoro, chloro and alkyl alcohols on the folding pathway of human serum albumin. *Journal of Biochemistry*, **2005**, 138, 335-41	3.1	30
50	Liposome-bilirubin interaction: a novel strategy to eliminate bilirubin from systemic circulation. *Journal of Liposome Research*, **2004**, 14, 111-22	6.1	3
49	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	4.1	51

48	Interaction of bilirubin with native and protein-depleted human erythrocyte membranes. *Molecular and Cellular Biochemistry*, **2003**, 246, 171-177	4.2	2
47	Behavior of various mammalian albumins towards bilirubin binding and photochemical properties of different bilirubin-albumin complexes. *International Journal of Biological Macromolecules*, **2003**, 31, 187-93	7.9	23
46	Interaction of bilirubin with native and protein-depleted human erythrocyte membranes **2003**, 171-177		
45	Interaction of bilirubin with native and protein-depleted human erythrocyte membranes. *Molecular and Cellular Biochemistry*, **2003**, 246, 171-7	4.2	
44	Salt-induced refolding in different domains of partially folded bovine serum albumin. *International Journal of Biological Macromolecules*, **2002**, 30, 17-22	7.9	33
43	Bilirubin binding properties of pigeon serum albumin and its comparison with human serum albumin. *International Journal of Biological Macromolecules*, **2002**, 30, 171-8	7.9	9
42	Enhanced bilirubin binding to different mammalian erythrocytes in the presence of magnesium ions. *Indian Journal of Clinical Biochemistry*, **2001**, 16, 31-6	2.2	
41	Bilirubin binding to normal and modified human erythrocyte membranes: effect of phospholipases, neuraminidase, trypsin and CaCl2. *Molecular and Cellular Biochemistry*, **2001**, 228, 15-23	4.2	3
40	Understanding the role of internal lysine residues of serum albumins in conformational stability and bilirubin binding. *BBA - Proteins and Proteomics*, **2001**, 1545, 263-77		40
39	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, 355-62	2.6	3
38	Modulation in the photosensitivity of albumin-bound bilirubin. *International Journal of Biological Macromolecules*, **2001**, 29, 267-71	7.9	
37	Anion-induced stabilization of human serum albumin prevents the formation of intermediate during urea denaturation. *Proteins: Structure, Function and Bioinformatics*, **2000**, 40, 29-38	4.2	94
36	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, 103-13		24
35	Anion-induced refolding of human serum albumin under low pH conditions. *BBA - Proteins and Proteomics*, **2000**, 1476, 139-48		33
34	Effect of pH and temperature on the binding of bilirubin to human erythrocyte membranes. *Journal of Biosciences*, **2000**, 25, 157-161	2.3	5
33	Use of domain specific ligands to study urea-induced unfolding of bovine serum albumin. *Biochemical and Biophysical Research Communications*, **2000**, 277, 83-8	3.4	60
32	On the modulation of photoinduced fluorescence enhancement and conformational stability of albumin-bound bilirubin: effect of epsilon-NH(2) groups blocking and chloroform binding. *Biochimica Et Biophysica Acta - General Subjects*, **2000**, 1523, 147-53	4	11
31	Chloroform-induced conformational changes in the bound pigmentin bilirubin-albumin complexes. *Biochimie*, **2000**, 82, 203-9	4.6	9

30	Differential accessibility of bilirubin to erythrocyte membrane vesicles bearing different structural features. *Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology*, **2000**, 127, 345-50		4
29	Molten globule-like state of human serum albumin at low pH. *FEBS Journal*, **1999**, 266, 26-32		106
28	Contributory presentations/posters. *Journal of Biosciences*, **1999**, 24, 33-198	2.3	
27	Differential resistance to calcium-induced bilirubin-dependent hemolysis in mammalian erythrocytes. *Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology* , **1999**, 122, 109-13		3
26	A comparative study on the extraction of membrane-bound bilirubin from erythrocyte membranes using various methods. *Journal of Proteomics*, **1999**, 39, 39-45		11
25	Use of fluorescence enhancement technique to study bilirubin-albumin interaction. *International Journal of Biological Macromolecules*, **1999**, 25, 353-8	7.9	43
24	Effect of lysine modification on the conformation and indomethacin binding properties of human serum albumin. *International Journal of Biological Macromolecules*, **1999**, 26, 173-80	7.9	24
23	Erythrocytes from healthy smokers bind more bilirubin than the erythrocytes from healthy non-smokers. *Molecular and Cellular Biochemistry*, **1998**, 183, 211-4	4.2	
22	Comparison of bilirubin binding and other molecular properties of the serum albumin of several mammalian species. *IUBMB Life*, **1998**, 44, 165-73	4.7	2
21	Visualization of serum albumin on electrophoretic gels using the specific ligand bilirubin. *Journal of Proteomics*, **1998**, 37, 47-52		0
20	Calcium-induced bilirubin-dependent hemolysis of human erythrocytes. *Biochimica Et Biophysica Acta - Biomembranes*, **1997**, 1326, 124-30	3.8	10
19	Binding of bilirubin to mammalian erythrocytes. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **1997**, 118, 97-103	2.3	9
18	Protein proteinase inhibitors from avian egg whites. *Cellular and Molecular Life Sciences*, **1997**, 53, 13-23	10.3	77
17	Probing structure-activity relationship in diamine oxidase--reactivities of lysine and arginine residues. *International Journal of Biological Macromolecules*, **1996**, 18, 77-81	7.9	5
16	Binding of bilirubin to goat serum albumin: Determination of binding constant. *Biochemical Education*, **1995**, 23, 98-100		3
15	Experimental determination of the free energy of unfolding of proteins. *Biochemical Education*, **1995**, 23, 162-164		20
14	Binding of bilirubin to erythrocytes from different mammalian species. *Comparative Biochemistry and Physiology A, Comparative Physiology*, **1995**, 111, 507-9		9
13	Effect of acetylation on conformation and bilirubin-binding properties of goat serum albumin. *International Journal of Biological Macromolecules*, **1995**, 17, 33-5	7.9	4

12	Interference of sodium azide with the quantitation of bilirubin: modification of Fog's method to eliminate azide interference. *Analytical Biochemistry*, **1995**, 224, 542-6	3.1	2
11	Involvement of lysine residues of goat serum albumin in high-affinity binding of bilirubin. *BBA - Proteins and Proteomics*, **1994**, 1205, 171-7		4
10	Probing the determinants of protein solubility with amino acid modification. *Journal of Biochemistry*, **1993**, 114, 786-92	3.1	7
9	Immunological exercises for beginners. *Biochemical Education*, **1993**, 21, 155-157		1
8	A look into enzyme kinetics: some introductory experiments. *Biochemical Education*, **1992**, 20, 118		7
7	Size exclusion chromatography and size exclusion HPLC of proteins. *Biochemical Education*, **1991**, 19, 149-152		23
6	Biochemistry through cartoons Understanding Enzymes. *Biochemical Education*, **1990**, 18, 42-43		3
5	Binding of bromophenol blue to bovine serum albumin and its succinylated forms. *International Journal of Biological Macromolecules*, **1990**, 12, 55-8	7.9	8
4	Biochemistry and roles of glycophorin A. *Biochemical Education*, **1988**, 16, 63-66		3
3	Mini review: protein folding: a problem of today. *Biochemical Education*, **1988**, 16, 221		1
2	Influence of succinylation of bovine serum albumin on its conformation and bilirubin binding. *BBA - Proteins and Proteomics*, **1987**, 913, 359-67		14
1	A correlation between changes in conformation and molecular properties of bovine serum albumin upon succinylation. *Journal of Biochemistry*, **1986**, 100, 1125-36	3.1	18