

Gulam Rabbani

List of Publications by Year in Descending Order

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

62 papers	3,175 citations	33 h-index	56 g-index
63 ext. papers	3,849 ext. citations	4.9 avg, IF	5.72 L-index

#	Paper	IF	Citations
62	Carbon nanotube field-effect transistor (CNT-FET)-based biosensor for rapid detection of SARS-CoV-2 (COVID-19) surface spike protein S1. <i>Bioelectrochemistry</i> , 2022 , 143, 107982	5.6	32
61	Fabrication and characterization of field effect transistor based on single walled carbon nanotubes. <i>Journal of King Saud University - Science</i> , 2022 , 102137	3.6	1
60	Penta-peptide ATN-161 based neutralization mechanism of SARS-CoV-2 spike protein. <i>Biochemistry and Biophysics Reports</i> , 2021 , 28, 101170	2.2	3
59	Review: Roles of human serum albumin in prediction, diagnoses and treatment of COVID-19. <i>International Journal of Biological Macromolecules</i> , 2021 , 193, 948-955	7.9	15
58	NeuroMuscleDB: a Database of Genes Associated with Muscle Development, Neuromuscular Diseases, Ageing, and Neurodegeneration. <i>Molecular Neurobiology</i> , 2019 , 56, 5835-5843	6.2	6
57	Insight of the Interaction between 2,4-thiazolidinedione and Human Serum Albumin: A Spectroscopic, Thermodynamic and Molecular Docking Study. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	24
56	Multi-Spectroscopic Characterization of Human Serum Albumin Binding with Cyclobenzaprine Hydrochloride: Insights from Biophysical and Approaches. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	23
55	Structure, enzymatic activities, glycation and therapeutic potential of human serum albumin: A natural cargo. <i>International Journal of Biological Macromolecules</i> , 2019 , 123, 979-990	7.9	142
54	A comparative biophysical and in-silico studies on the interactions of ticlopidine hydrochloride with two serum albumins. <i>Journal of Chemical Thermodynamics</i> , 2019 , 131, 9-20	2.9	12
53	Enzyme targeting strategies for prevention and treatment of cancer: Implications for cancer therapy. <i>Seminars in Cancer Biology</i> , 2019 , 56, 1-11	12.7	48
52	Binding of Tolperisone Hydrochloride with Human Serum Albumin: Effects on the Conformation, Thermodynamics, and Activity of HSA. <i>Molecular Pharmaceutics</i> , 2018 , 15, 1445-1456	5.6	127
51	Roles of osmolytes in protein folding and aggregation in cells and their biotechnological applications. <i>International Journal of Biological Macromolecules</i> , 2018 , 109, 483-491	7.9	69
50	Binding of anti-cardiovascular drug to serum albumin: an insight in the light of spectroscopic and computational approaches. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018 , 36, 54-67	3.6	21
49	Fibromodulin and regulation of the intricate balance between myoblast differentiation to myocytes or adipocyte-like cells. <i>FASEB Journal</i> , 2018 , 32, 768-781	0.9	24
48	A mechanistic insight into protein-ligand interaction, folding, misfolding, aggregation and inhibition of protein aggregates: An overview. <i>International Journal of Biological Macromolecules</i> , 2018 , 106, 1115-1129	7.9	32
47	Use of Peptides for the Management of Alzheimer's Disease: Diagnosis and Inhibition. <i>Frontiers in Aging Neuroscience</i> , 2018 , 10, 21	5.3	40
46	Nanoparticle-Based Drugs: A Potential Armamentarium of Effective Anti-Cancer Therapies. <i>Current Drug Metabolism</i> , 2018 , 19, 839-846	3.5	14

45	Protein-protein Interactions and their Role in Various Diseases and their Prediction Techniques. <i>Current Protein and Peptide Science</i> , 2018 , 19, 948-957	2.8	21
44	Computer Aided Drug Design and its Application to the Development of Potential Drugs for Neurodegenerative Disorders. <i>Current Neuropharmacology</i> , 2018 , 16, 740-748	7.6	40
43	Calorimetric and spectroscopic binding studies of amoxicillin with human serum albumin. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 127, 1445-1455	4.1	26
42	Binding of erucic acid with human serum albumin using a spectroscopic and molecular docking study. <i>International Journal of Biological Macromolecules</i> , 2017 , 105, 1572-1580	7.9	119
41	Biophysical Study on the Interaction between Eperisone Hydrochloride and Human Serum Albumin Using Spectroscopic, Calorimetric, and Molecular Docking Analyses. <i>Molecular Pharmaceutics</i> , 2017 , 14, 1656-1665	5.6	141
40	Methylglyoxal and Advanced Glycation End products: Insight of the regulatory machinery affecting the myogenic program and of its modulation by natural compounds. <i>Scientific Reports</i> , 2017 , 7, 5916	4.9	29
39	Sauromatum guttatum lectin: Spectral studies, lectin-carbohydrate interaction, molecular cloning and in silico analysis. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 1267-1279	7.9	8
38	A spectroscopic and molecular docking approach on the binding of tinzaparin sodium with human serum albumin. <i>Journal of Molecular Structure</i> , 2017 , 1127, 283-288	3.4	52
37	Polyols (Glycerol and Ethylene glycol) mediated amorphous aggregate inhibition and secondary structure restoration of metalloproteinase-conalbumin (ovotransferrin). <i>International Journal of Biological Macromolecules</i> , 2017 , 94, 290-300	7.9	28
36	Neo-epitopes on crotonaldehyde modified DNA preferably recognize circulating autoantibodies in cancer patients. <i>Tumor Biology</i> , 2016 , 37, 1817-24	2.9	8
35	Structural variations and molten globule state in Arisaema helliborifolium lectin under various treatments as monitored by spectroscopy. <i>Protein and Peptide Letters</i> , 2016 , 23, 107-19	1.9	5
34	Behaviour of oleic acid-depleted bovine alpha-lactalbumin made LEthal to tumor cells (BAMLET). <i>Molecular BioSystems</i> , 2016 , 12, 1871-80		13
33	Impact of structural stability of cold adapted Candida antarctica lipase B (CaLB): in relation to pH, chemical and thermal denaturation. <i>RSC Advances</i> , 2015 , 5, 20115-20131	3.7	110
32	The surfactant-induced conformational and activity alterations in Rhizopus niveus lipase. <i>Cell Biochemistry and Biophysics</i> , 2015 , 71, 1199-206	3.2	85
31	The pharmacological features of bilirubin: the question of the century. <i>Cellular and Molecular Biology Letters</i> , 2015 , 20, 418-47	8.1	10
30	Biophysical investigation of thymoquinone binding to α and β isoforms of human serum albumin: exploring the interaction mechanism and radical scavenging activity. <i>RSC Advances</i> , 2015 , 5, 18218-18232	3.7	76
29	Non-fluorinated cosolvents: A potent amorphous aggregate inducer of metalloproteinase-conalbumin (ovotransferrin). <i>International Journal of Biological Macromolecules</i> , 2015 , 78, 417-28	7.9	31
28	Preferential recognition of peroxynitrite-modified human serum albumin by circulating autoantibodies in cancer. <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 875-82	7.9	6

27	Glycation of H1 Histone by 3-Deoxyglucosone: Effects on Protein Structure and Generation of Different Advanced Glycation End Products. <i>PLoS ONE</i> , 2015 , 10, e0130630	3.7	38
26	3-Deoxyglucosone: a potential glycating agent accountable for structural alteration in H3 histone protein through generation of different AGEs. <i>PLoS ONE</i> , 2015 , 10, e0116804	3.7	40
25	Structural characteristics of thermostable immunogenic outer membrane protein from <i>Salmonella enterica</i> serovar Typhi. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 2533-43	5.7	86
24	Interaction of 5-Fluoro-5'-deoxyuridine with human serum albumin under physiological and non-physiological condition: a biophysical investigation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 123, 469-77	6	76
23	The role of advanced glycation end products in various types of neurodegenerative disease: a therapeutic approach. <i>Cellular and Molecular Biology Letters</i> , 2014 , 19, 407-37	8.1	107
22	Fluoroalcohols-induced modulation and amyloid formation in conalbumin. <i>International Journal of Biological Macromolecules</i> , 2014 , 70, 606-14	7.9	35
21	Effect of copper oxide nanoparticles on the conformation and activity of β -galactosidase. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 123, 96-105	6	100
20	Cosolvents induced unfolding and aggregation of keyhole limpet hemocyanin. <i>Cell Biochemistry and Biophysics</i> , 2014 , 69, 103-13	3.2	16
19	Spectroscopic and calorimetric studies of interaction of methimazole with human serum albumin. <i>Journal of Luminescence</i> , 2014 , 151, 219-223	3.8	41
18	Nanoparticles in relation to peptide and protein aggregation. <i>International Journal of Nanomedicine</i> , 2014 , 9, 899-912	7.3	89
17	An insight into the biophysical characterization of insoluble collagen aggregates: implication for arthritis. <i>Journal of Fluorescence</i> , 2014 , 24, 1423-31	2.4	16
16	Physicochemical analysis of structural alteration and advanced glycation end products generation during glycation of H2A histone by 3-deoxyglucosone. <i>IUBMB Life</i> , 2014 , 66, 686-93	4.7	45
15	Concentration-dependent antagonistic persuasion of SDS and naphthalene derivatives on the fibrillation of stem bromelain. <i>Archives of Biochemistry and Biophysics</i> , 2013 , 540, 101-16	4.1	32
14	Revisiting ligand-induced conformational changes in proteins: essence, advancements, implications and future challenges. <i>Journal of Biomolecular Structure and Dynamics</i> , 2013 , 31, 630-48	3.6	35
13	Biophysical insight into furosemide binding to human serum albumin: a study to unveil its impaired albumin binding in uremia. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 2595-604	3.4	93
12	Monomeric banana lectin at acidic pH overrules conformational stability of its native dimeric form. <i>PLoS ONE</i> , 2013 , 8, e62428	3.7	36
11	A comprehensive insight into binding of hippuric acid to human serum albumin: a study to uncover its impaired elimination through hemodialysis. <i>PLoS ONE</i> , 2013 , 8, e71422	3.7	102
10	1-Anilino-8-naphthalene sulfonate (ANS) is not a desirable probe for determining the molten globule state of chymopapain. <i>PLoS ONE</i> , 2012 , 7, e50633	3.7	26

9	pH-Induced molten globule state of <i>Rhizopus niveus</i> lipase is more resistant against thermal and chemical denaturation than its native state. <i>Cell Biochemistry and Biophysics</i> , 2012 , 62, 487-99	3.2	177
8	Identification and design of antimicrobial peptides for therapeutic applications. <i>Current Protein and Peptide Science</i> , 2012 , 13, 211-23	2.8	39
7	Pollutant-induced modulation in conformation and Lactamase activity of human serum albumin. <i>PLoS ONE</i> , 2012 , 7, e38372	3.7	65
6	pH-dependent conformational transitions in conalbumin (ovotransferrin), a metalloproteinase from hen egg white. <i>Cell Biochemistry and Biophysics</i> , 2011 , 61, 551-60	3.2	149
5	Elimination of endogenous toxin, creatinine from blood plasma depends on albumin conformation: site specific uremic toxicity & impaired drug binding. <i>PLoS ONE</i> , 2011 , 6, e17230	3.7	84
4	Stereo-selectivity of human serum albumin to enantiomeric and isoelectronic pollutants dissected by spectroscopy, calorimetry and bioinformatics. <i>PLoS ONE</i> , 2011 , 6, e26186	3.7	112
3	2,2,2-Trifluoroethanol induces simultaneous increase in alpha-helicity and aggregation in alkaline unfolded state of bovine serum albumin. <i>International Journal of Biological Macromolecules</i> , 2010 , 46, 250-4	7.9	33
2	Acid-induced unfolding of didecameric keyhole limpet hemocyanin: detection and characterizations of decameric and tetrameric intermediate states. <i>Amino Acids</i> , 2010 , 39, 899-910	3.5	36
1	Protease inhibitors: a panacea?. <i>Journal of Biochemical and Molecular Toxicology</i> , 2010 , 24, 270-7	3.4	26