Bilqees Bano

List of Publications by Citations

92 papers	761 citations	14 h-index	20 g-index
93 ext. papers	875 ext. citations	4.2 avg, IF	4.69 L-index

#	Paper	IF	Citations
92	Comparison of guanidine hydrochloride (GdnHCl) and urea denaturation on inactivation and unfolding of human placental cystatin (HPC). *Protein Journal*, **2005**, 24, 283-92	3.9	52
91	Probing the interaction of anticancer drug temsirolimus with human serum albumin: molecular docking and spectroscopic insight. *Journal of Biomolecular Structure and Dynamics*, **2018**, 36, 1479-1489	3.6	46
90	Understanding the binding between Rosmarinic acid and serum albumin: In vitro and in silico insight. *Journal of Molecular Liquids*, **2020**, 311, 113348	6	30
89	Methylglyoxal induced glycation and aggregation of human serum albumin: Biochemical and biophysical approach. *International Journal of Biological Macromolecules*, **2018**, 113, 269-276	7.9	26
88	Investigating the interaction of anticancer drug temsirolimus with human transferrin: Molecular docking and spectroscopic approach. *Journal of Molecular Recognition*, **2018**, 31, e2728	2.6	26
87	Journey of cystatins from being mere thiol protease inhibitors to at heart of many pathological conditions. *International Journal of Biological Macromolecules*, **2017**, 102, 674-693	7.9	21
86	Cystatins in Health and Diseases. *International Journal of Peptide Research and Therapeutics*, **2009**, 15, 43	2.1	21
85	Rosmarinic acid restrains protein glycation and aggregation in human serum albumin: Multi spectroscopic and microscopic insight - Possible Therapeutics Targeting Diseases. *International Journal of Biological Macromolecules*, **2020**, 161, 187-193	7.9	19
84	Effect of non-enzymatic glycation on cystatin: a spectroscopic study. *Journal of Fluorescence*, **2014**, 24, 1107-17	2.4	18
83	Employing in vitro analysis to test the potency of methylglyoxal in inducing the formation of amyloid-like aggregates of caprine brain cystatin. *Amino Acids*, **2015**, 47, 135-46	3.5	16
82	Cystatin like thiol proteinase inhibitor from pancreas of Capra hircus: purification and detailed biochemical characterization. *Amino Acids*, **2010**, 38, 1001-10	3.5	16
81	Purification and biochemical characterization of phytocystatin from Brassica alba. *Journal of Molecular Recognition*, **2016**, 29, 223-31	2.6	16
80	Conformational behaviour and aggregation of chickpea cystatin in trifluoroethanol: effects of epicatechin and tannic acid. *Archives of Biochemistry and Biophysics*, **2014**, 562, 51-61	4.1	15
79	Insight into the biochemical, kinetic and spectroscopic characterization of garlic (Allium sativum) phytocystatin: Implication for cardiovascular disease. *International Journal of Biological Macromolecules*, **2017**, 95, 734-742	7.9	14
78	Deciphering the interaction of bovine heart cystatin with ZnO nanoparticles: Spectroscopic and thermodynamic approach. *International Journal of Biological Macromolecules*, **2017**, 95, 1056-1063	7.9	14
77	Purification and characterization of high molecular mass and low molecular mass cystatin from goat brain. *Neurochemical Research*, **2006**, 31, 1327-36	4.6	14
76	Evaluation of polyphenols as possible therapeutics for amyloidoses: Comparative analysis of Kaempferol and Catechin. *International Journal of Biological Macromolecules*, **2015**, 81, 60-8	7.9	13

75	Deciphering the binding of carbendazim (fungicide) with human serum albumin: A multi-spectroscopic and molecular modelling studies. *Journal of Biomolecular Structure and Dynamics*, **2019**, 37, 2230-2241	3.6	13
74	Biochemical and biophysical changes induced by fungicide sodium diethyl dithiocarbamate (SDD), in phytocystatin purified from Phaseolus mungo (Urd): a commonly used Indian legume. *Journal of Agricultural and Food Chemistry*, **2005**, 53, 6027-34	5.7	13
73	Non-enzymatic Glycation of Almond Cystatin Leads to Conformational Changes and Altered Activity. *Protein and Peptide Letters*, **2015**, 22, 449-59	1.9	13
72	Glyoxal induced structural transition of buffalo kidney cystatin to molten globule and aggregates: Anti-fibrillation potency of quinic acid. *IUBMB Life*, **2016**, 68, 156-66	4.7	12
71	An Update on the Association of Protein Kinases with Cardiovascular Diseases. *Current Pharmaceutical Design*, **2019**, 25, 174-183	3.3	11
70	Deciphering the toxic effects of iprodione, a fungicide and malathion, an insecticide on thiol protease inhibitor isolated from yellow Indian mustard seeds. *Environmental Toxicology and Pharmacology*, **2018**, 61, 52-60	5.8	11
69	Different conformation of thiol protease inhibitor during amyloid formation: inhibition by curcumin and quercetin. *Journal of Fluorescence*, **2013**, 23, 451-7	2.4	10
68	Characterizing harmful advanced glycation end-products (AGEs) and ribosylated aggregates of yellow mustard seed phytocystatin: Effects of different monosaccharides. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2017**, 171, 183-192	4.4	10
67	Purification and characterization of buffalo brain cystatin. *Protein and Peptide Letters*, **2011**, 18, 210-8	1.9	10
66	Purification and characterization of kininogens from sheep plasma. *Protein Journal*, **2005**, 24, 95-102	3.9	10
65	Probing the interaction of human serum albumin with iprodione, a fungicide: spectroscopic and molecular docking insight. *Journal of Biomolecular Structure and Dynamics*, **2019**, 37, 857-862	3.6	10
64	Binding of κ-carrageenan (a food additive) to almond cystatin: An insight involving spectroscopic and thermodynamic approach. *International Journal of Biological Macromolecules*, **2017**, 98, 684-690	7.9	9
63	Conformational transitions induced by in vitro macromolecular crowding lead to the amyloidogenesis of buffalo heart cystatin. *Journal of Molecular Recognition*, **2015**, 28, 699-709	2.6	9
62	Spectroscopic evaluation of the interaction between pesticides and chickpea cystatin: comparative binding and toxicity analyses. *Environmental Sciences: Processes and Impacts*, **2016**, 18, 872-81	4.3	9
61	Spectroscopic studies on the interaction of bilirubin with liver cystatin. *European Biophysics Journal*, **2011**, 40, 175-80	1.9	9
60	Physico-chemical and in-silico analysis of a phytocystatin purified from Brassica juncea cultivar RoAgro 5444. *Biochemistry and Cell Biology*, **2016**, 94, 584-596	3.6	8
59	Damage of cystatin due to ROS-generation and radical-scavenging activity of antioxidants and associated compounds. *International Journal of Biological Macromolecules*, **2018**, 119, 369-379	7.9	8
58	Conformational changes during amyloid fibril formation of pancreatic thiol proteinase inhibitor: effect of copper and zinc. *Molecular Biology Reports*, **2012**, 39, 2945-55	2.8	8

57	Insight into the functional and structural transition of garlic phytocystatin induced by urea and guanidine hydrochloride: A comparative biophysical study. *International Journal of Biological Macromolecules*, **2018**, 106, 20-29	7.9	8
56	Structural and functional studies on a variant of cystatin purified from brain of Capra hircus. *Journal of Biomolecular Structure and Dynamics*, **2017**, 35, 1693-1709	3.6	7
55	Insight into the biochemical characterization of phytocystatin from Glycine max and its interaction with Cd and Ni. *Journal of Molecular Recognition*, **2019**, 32, e2787	2.6	7
54	Structural transition of kidney cystatin induced by silicon dioxide nanoparticles: An implication for renal diseases. *International Journal of Biological Macromolecules*, **2017**, 94, 754-761	7.9	7
53	Protein unfolding studies of thiol-proteinase inhibitor from goat (Capra hircus) muscle in the presence of urea and GdnHCl as denaturants. *European Biophysics Journal*, **2011**, 40, 611-7	1.9	7
52	Modification of sheep plasma kininogen by free radicals. *Free Radical Research*, **2004**, 38, 393-403	4	7
51	Structural requirements for cathepsin B and cathepsin H inhibition by kininogens. *The Protein Journal*, **1996**, 15, 519-25		7
50	Effect of trifluoroethanol on □crystallin: folding, aggregation, amyloid, and cytotoxicity analysis. *Journal of Molecular Recognition*, **2016**, 29, 33-40	2.6	7
49	Investigating the preventive effects of baicalin and gallocatechin against glyoxal-induced cystatin aggregation. *Journal of Biomolecular Structure and Dynamics*, **2018**, 36, 3791-3802	3.6	7
48	Biochemical, immunological and kinetic characterization and partial sequence analysis of a thiol proteinase inhibitor from Bubalus bubalis kidney: An attempt targeting kidney disorders. *International Journal of Biological Macromolecules*, **2017**, 94, 819-826	7.9	6
47	Isolation and purification of phytocystatin from almond: Biochemical, biophysical, and immunological characterization. *Cogent Biology*, **2016**, 2, 1262489	1.6	6
46	Biochemical, immunological and kinetic characterisation of thiol protease inhibitor (cystatin) from liver. *Applied Biochemistry and Biotechnology*, **2013**, 171, 667-75	3.2	6
45	Unfolding during urea denaturation of a low molecular weight phytocystatin (thiol protease inhibitor) purified from Phaseolus mungo (Urd). *Protein and Peptide Letters*, **2006**, 13, 323-9	1.9	6
44	Mammalian cystatin and protagonists in brain diseases. *Journal of Biomolecular Structure and Dynamics*, **2020**, 38, 2171-2196	3.6	6
43	Probing the binding effects of zinc and cadmium with garlic phytocystatin: Implication of the abiotic stress on garlic phytocystatin. *International Journal of Biological Macromolecules*, **2019**, 133, 945-956	7.9	5
42	Modification of chickpea cystatin by reactive dicarbonyl species: Glycation, oxidation and aggregation. *Archives of Biochemistry and Biophysics*, **2018**, 650, 103-115	4.1	5
41	Purification, characterization and kinetics of thiol protease inhibitor from goat (Capra hircus) lung. *Biochemistry (Moscow)*, **2009**, 74, 781-8	2.9	5
40	Preventive effect of curcumin and quercetin against nitric oxide mediated modification of goat lung cystatin. *Journal of Agricultural and Food Chemistry*, **2009**, 57, 6055-9	5.7	5

39	Methotrexate binding causes structural and functional changes in lung cystatin.. *Acta Biochimica Polonica*, **2010**, 57,	2	5
38	Oxadiargyl induced conformational transition of cystatin isolated from yellow mustard seeds: Biophysical and biochemical approach. *International Journal of Biological Macromolecules*, **2017**, 98, 802-809	7.9	4
37	Anti-fibrillogenic and fibril destabilizing effects of metal ions on cystatin fibrils. *Process Biochemistry*, **2017**, 57, 105-116	4.8	4
36	Exposure of carbendazim induces structural and functional alteration in garlic phytocystatin: An in vitro multi-spectroscopic approach. *Pesticide Biochemistry and Physiology*, **2018**, 145, 66-75	4.9	4
35	Glycation induced conformational alterations in caprine brain cystatin (CBC) leads to aggregation via passage through a partially folded state. *International Journal of Biological Macromolecules*, **2018**, 106, 917-929	7.9	4
34	Spectroscopic studies on free radical coalescing antioxidants and brain protein cystatin. *Journal of Biomolecular Structure and Dynamics*, **2019**, 37, 2949-2959	3.6	4
33	In-sights into the effect of heavy metal stress on the endogenous mustard cystatin. *International Journal of Biological Macromolecules*, **2017**, 105, 1138-1147	7.9	4
32	Physicochemical properties of thiol proteinase inhibitor isolated from goat pancreas. *Biopolymers*, **2010**, 93, 708-17	2.2	4
31	Molten globule state of human placental cystatin (HPC) at low pH conditions and the effects of trifluoroethanol (TFE) and methanol. *Biochemistry and Cell Biology*, **2006**, 84, 126-34	3.6	4
30	In vitro disintegration of goat brain cystatin fibrils using conventional and gemini surfactants: Putative therapeutic intervention in amyloidoses. *International Journal of Biological Macromolecules* , **2016**, 93, 493-500	7.9	4
29	Oxidation of cystatin imparted by riboflavin generated free radicals: Spectral analysis. *International Journal of Biological Macromolecules*, **2019**, 124, 1281-1291	7.9	4
28	Structural transition of kidney cystatin in dimethylnitrosamine-induced renal cancer in rats: identification as a novel biomarker for kidney cancer and prognosis. *Journal of Biomolecular Structure and Dynamics*, **2017**, 35, 1020-1029	3.6	3
27	Temsirolimus induced structural transition of cancerous renal cystatin to normal form in rats: In vitro mechanistic approach underlying renal cancer prevention. *International Journal of Biological Macromolecules*, **2017**, 96, 19-25	7.9	3
26	Differential effects of anti-cancer and anti-hepatitis drugs on liver cystatin. *Saudi Journal of Biological Sciences*, **2015**, 22, 69-74	4	3
25	Glycation of Liver Cystatin: Implication on its Structure and Function. *Journal of Fluorescence*, **2016**, 26, 1743-53	2.4	3
24	Synthesisand Characterization of Benzothiophene-3-carbonitrile Derivative and Its Interactions with Human Serum Albumin (HSA). *ChemistrySelect*, **2019**, 4, 11979-11986	1.8	3
23	Bilirubin binding with liver cystatin induced structural and functional changes. *Journal of Fluorescence*, **2014**, 24, 967-74	2.4	3
22	Mechanism of Unfolding of Goat Lung Cystatin During Urea and Guanidine Hydrochloride Induced Denaturation. *International Journal of Peptide Research and Therapeutics*, **2009**, 15, 81-86	2.1	3

21	Role of phytocystatin in combating metal ion induced conformational alterations in glutathione reductase. *International Journal of Biological Macromolecules*, **2019**, 127, 271-277	7.9	3
20	Interaction of almond cystatin with pesticides: Structural and functional analysis. *Journal of Molecular Recognition*, **2017**, 30, e2586	2.6	2
19	Nitric Oxide Induced Damage and Preventive Effect of Curcumin and Quercetin on Buffalo Brain Cystatin. *Current Proteomics*, **2012**, 9, 9-17	0.7	2
18	Spectral Methods of Characterizing the Conformational Changes of Glycated Goat Liver Cystatin. *Current Proteomics*, **2012**, 9, 255-261	0.7	2
17	Purification and characterization of a cystatin like thiol protease inhibitor from Brassica nigra. *International Journal of Biological Macromolecules*, **2019**, 125, 1128-1139	7.9	2
16	Global transition of human serum albumin to prefibrillar aggregates induced by temsirolimus: Insight into implications of anti-renal cancer drug. *Journal of Molecular Recognition*, **2018**, 31, e2688	2.6	2
15	Glycation induced conformational transitions in cystatin proceed to form biotoxic aggregates: A multidimensional analysis. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2018**, 1866, 989-1000	4	1
14	A biophysical insight into the formation of aggregates upon trifluoroethanol induced structural and conformational changes in garlic cystatin. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2018**, 204, 7-17	4.4	1
13	Studies on the chemical modification of goat liver cystatin and the effect on its anti-papain inhibitory activity. *Journal of Fluorescence*, **2012**, 22, 1627-32	2.4	1
12	Studies on interaction of buffalo brain cystatin with donepezil: an Alzheimer's drug. *International Journal of Alzheimers Disease*, **2013**, 2013, 842689	3.7	1
11	Oxidative stress induced functional and structural modifications of high molecular mass goat brain cystatin. *Protein and Peptide Letters*, **2008**, 15, 20-6	1.9	1
10	Deciphering the Nature of Caffeic Acid to Inhibit the HSA Aggregation Induced by Glyoxal. *Protein and Peptide Letters*, **2020**, 27, 725-735	1.9	1
9	In-vitro assessment of the binding mechanism of oxyfluorfen (herbicide) with garlic phytocystatin: multi-spectroscopic and isothermal titration calorimetric study. *Journal of Biomolecular Structure and Dynamics*, **2019**, 37, 4120-4131	3.6	1
8	Amyloid aggregation and secondary structure changes of liver cystatin: Acidic denaturation and TFE induced studies. *Journal of Biomolecular Structure and Dynamics*, **2021**, 1-10	3.6	1
7	Protein aggregation as a consequence of non-enzymatic glycation: Therapeutic intervention using aspartic acid and arginine. *International Journal of Biological Macromolecules*, **2020**, 163, 1844-1858	7.9	0
6	Probing the structural interactions between methotrexate and dexamethasone with muscle cystatin: a biophysical study. *Journal of Biomolecular Structure and Dynamics*, **2020**, 38, 2955-2964	3.6	0
5	Bioactive Phytoconstituents as Potent Inhibitors of Tyrosine-Protein Kinase Yes (YES1): Implications in Anticancer Therapeutics. *Molecules*, **2022**, 27, 3060	4.8	0
4	Aggregation and inactivation of pancreatic cystatin by riboflavin-derived singlet oxygen and flavin triplet state: polyphenols as preventive agents. *Journal of Biochemical and Molecular Toxicology*, **2012**, 26, 187-92	3.4	

List of Publications

3	Benzo(a)pyrene induced structural and functional modifications in lung cystatin. *Environmental Monitoring and Assessment*, **2013**, 185, 8005-10	3.1
2	Comparative effects of alcohols (methanol, glycerol) and polyethylene glycol (PEG-300) on acid denatured state of goat liver cystatin. *Journal of Fluorescence*, **2011**, 21, 1401-7	2.4
1	Alzheimer's: A Progressive Brain Disease: Causes, Symptoms, and Prevention **2019**, 31-51	