

# Bilqees Bano

## List of Publications by Year in descending order

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93  
papers

1,018  
citations

516215

16  
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93  
docs citations

93  
times ranked

1042  
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing the interaction of anticancer drug temsirolimus with human serum albumin: molecular docking and spectroscopic insight. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 1479-1489.	2.0	65
2	Comparison of Guanidine Hydrochloride (GdnHCl) and Urea Denaturation on Inactivation and Unfolding of Human Placental Cystatin (HPC). <i>Protein Journal</i> , 2005, 24, 283-292.	0.7	62
3	Understanding the binding between Rosmarinic acid and serum albumin: In vitro and in silico insight. <i>Journal of Molecular Liquids</i> , 2020, 311, 113348.	2.3	57
4	Methylglyoxal induced glycation and aggregation of human serum albumin: Biochemical and biophysical approach. <i>International Journal of Biological Macromolecules</i> , 2018, 113, 269-276.	3.6	54
5	Investigating the interaction of anticancer drug temsirolimus with human transferrin: Molecular docking and spectroscopic approach. <i>Journal of Molecular Recognition</i> , 2018, 31, e2728.	1.1	39
6	Journey of cystatins from being mere thiol protease inhibitors to at heart of many pathological conditions. <i>International Journal of Biological Macromolecules</i> , 2017, 102, 674-693.	3.6	37
7	Rosmarinic acid restrains protein glycation and aggregation in human serum albumin: Multi spectroscopic and microscopic insight - Possible Therapeutics Targeting Diseases. <i>International Journal of Biological Macromolecules</i> , 2020, 161, 187-193.	3.6	31
8	Cystatins in Health and Diseases. <i>International Journal of Peptide Research and Therapeutics</i> , 2009, 15, 43.	0.9	29
9	Deciphering the binding of carbendazim (fungicide) with human serum albumin: A multi-spectroscopic and molecular modelling studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 2230-2241.	2.0	21
10	Effect of Non-Enzymatic Glycation on Cystatin: A Spectroscopic Study. <i>Journal of Fluorescence</i> , 2014, 24, 1107-1117.	1.3	20
11	Employing in vitro analysis to test the potency of methylglyoxal in inducing the formation of amyloid-like aggregates of caprine brain cystatin. <i>Amino Acids</i> , 2015, 47, 135-146.	1.2	20
12	Deciphering the interaction of bovine heart cystatin with ZnO nanoparticles: Spectroscopic and thermodynamic approach. <i>International Journal of Biological Macromolecules</i> , 2017, 95, 1056-1063.	3.6	20
13	An Update on the Association of Protein Kinases with Cardiovascular Diseases. <i>Current Pharmaceutical Design</i> , 2019, 25, 174-183.	0.9	18
14	Purification and Characterization of High Molecular Mass and Low Molecular Mass Cystatin from Goat Brain. <i>Neurochemical Research</i> , 2006, 31, 1327-1336.	1.6	16
15	Cystatin like thiol proteinase inhibitor from pancreas of <i>Capra hircus</i> : purification and detailed biochemical characterization. <i>Amino Acids</i> , 2010, 38, 1001-1010.	1.2	16
16	Evaluation of polyphenols as possible therapeutics for amyloidoses: Comparative analysis of Kaempferol and Catechin. <i>International Journal of Biological Macromolecules</i> , 2015, 81, 60-68.	3.6	16
17	Purification and biochemical characterization of phytocystatin from <i>Brassica alba</i> . <i>Journal of Molecular Recognition</i> , 2016, 29, 223-231.	1.1	16
18	Characterizing harmful advanced glycation end-products (AGEs) and ribosylated aggregates of yellow mustard seed phytocystatin: Effects of different monosaccharides. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 171, 183-192.	2.0	16

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19	Conformational behaviour and aggregation of chickpea cystatin in trifluoroethanol: Effects of epicatechin and tannic acid. <i>Archives of Biochemistry and Biophysics</i> , 2014, 562, 51-61.	1.4	15
20	Insight into the biochemical, kinetic and spectroscopic characterization of garlic ( <i>Allium sativum</i> ) phycocystatin: Implication for cardiovascular disease. <i>International Journal of Biological Macromolecules</i> , 2017, 95, 734-742.	3.6	15
21	Probing the interaction of human serum albumin with iprodione, a fungicide: spectroscopic and molecular docking insight. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 857-862.	2.0	15
22	Deciphering the toxic effects of iprodione, a fungicide and malathion, an insecticide on thiol protease inhibitor isolated from yellow Indian mustard seeds. <i>Environmental Toxicology and Pharmacology</i> , 2018, 61, 52-60.	2.0	14
23	Non-enzymatic Glycation of Almond Cystatin Leads to Conformational Changes and Altered Activity. <i>Protein and Peptide Letters</i> , 2015, 22, 449-459.	0.4	14
24	Biochemical and Biophysical Changes Induced by Fungicide Sodium Diethyl Dithiocarbamate (SDD), in Phycocystatin Purified from <i>Phaseolus mungo</i> (Urd): A Commonly Used Indian Legume. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 6027-6034.	2.4	13
25	Glyoxal induced structural transition of buffalo kidney cystatin to molten globule and aggregates: Anti-fibrillation potency of quinic acid. <i>IUBMB Life</i> , 2016, 68, 156-166.	1.5	13
26	Spectroscopic studies on the interaction of bilirubin with liver cystatin. <i>European Biophysics Journal</i> , 2011, 40, 175-180.	1.2	12
27	Binding of $\lambda$ -carrageenan (a food additive) to almond cystatin: An insight involving spectroscopic and thermodynamic approach. <i>International Journal of Biological Macromolecules</i> , 2017, 98, 684-690.	3.6	12
28	Structural transition of kidney cystatin induced by silicon dioxide nanoparticles: An implication for renal diseases. <i>International Journal of Biological Macromolecules</i> , 2017, 94, 754-761.	3.6	12
29	Insight into the functional and structural transition of garlic phycocystatin induced by urea and guanidine hydrochloride: A comparative biophysical study. <i>International Journal of Biological Macromolecules</i> , 2018, 106, 20-29.	3.6	12
30	Mammalian cystatin and protagonists in brain diseases. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 2171-2196.	2.0	12
31	Purification and Characterization of Kininogens from Sheep Plasma. <i>Protein Journal</i> , 2005, 24, 95-102.	0.7	11
32	Purification and Characterization of Buffalo Brain Cystatin. <i>Protein and Peptide Letters</i> , 2011, 18, 210-218.	0.4	11
33	Spectroscopic evaluation of the interaction between pesticides and chickpea cystatin: comparative binding and toxicity analyses. <i>Environmental Sciences: Processes and Impacts</i> , 2016, 18, 872-881.	1.7	11
34	Different Conformation of Thiol Protease Inhibitor During Amyloid Formation: Inhibition by Curcumin and Quercetin. <i>Journal of Fluorescence</i> , 2013, 23, 451-457.	1.3	10
35	Damage of cystatin due to ROS-generation and radical-scavenging activity of antioxidants and associated compounds. <i>International Journal of Biological Macromolecules</i> , 2018, 119, 369-379.	3.6	10
36	Bioactive Phytoconstituents as Potent Inhibitors of Tyrosine-Protein Kinase Yes (YES1): Implications in Anticancer Therapeutics. <i>Molecules</i> , 2022, 27, 3060.	1.7	10

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37	Structural requirements for cathepsin B and cathepsin H inhibition by kininogens. <i>The Protein Journal</i> , 1996, 15, 519-525.	1.1	9
38	Preventive Effect of Curcumin and Quercetin against Nitric Oxide Mediated Modification of Goat Lung Cystatin. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 6055-6059.	2.4	9
39	Conformational changes during amyloid fibril formation of pancreatic thiol proteinase inhibitor: effect of copper and zinc. <i>Molecular Biology Reports</i> , 2012, 39, 2945-2955.	1.0	9
40	Conformational transitions induced by <i>in vitro</i> macromolecular crowding lead to the amyloidogenesis of buffalo heart cystatin. <i>Journal of Molecular Recognition</i> , 2015, 28, 699-709.	1.1	9
41	Protein unfolding studies of thiol-proteinase inhibitor from goat ( <i>Capra hircus</i> ) muscle in the presence of urea and GdnHCl as denaturants. <i>European Biophysics Journal</i> , 2011, 40, 611-617.	1.2	8
42	Effect of trifluoroethanol on $\beta$ -crystallin: folding, aggregation, amyloid, and cytotoxicity analysis. <i>Journal of Molecular Recognition</i> , 2016, 29, 33-40.	1.1	8
43	Physico-chemical and in-silico analysis of a phytocystatin purified from <i>Brassica juncea</i> cultivar RoAgro 5444. <i>Biochemistry and Cell Biology</i> , 2016, 94, 584-596.	0.9	8
44	Structural and functional studies on a variant of cystatin purified from brain of <i>Capra hircus</i> . <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 1693-1709.	2.0	8
45	Investigating the preventive effects of baicalin and gallic acid against glyoxal-induced cystatin aggregation. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 3791-3802.	2.0	8
46	Insight into the biochemical characterization of phytocystatin from <i>Glycine max</i> and its interaction with $\text{Cd}^{+2}$ and $\text{Ni}^{+2}$ . <i>Journal of Molecular Recognition</i> , 2019, 32, e2787.	1.1	8
47	Modification of Sheep Plasma Kininogen by Free Radicals. <i>Free Radical Research</i> , 2004, 38, 393-403.	1.5	7
48	Purification, characterization and kinetics of thiol protease inhibitor from goat ( <i>Capra hircus</i> ) lung. <i>Biochemistry (Moscow)</i> , 2009, 74, 781-788.	0.7	7
49	Isolation and purification of phytocystatin from almond: Biochemical, biophysical, and immunological characterization. <i>Cogent Biology</i> , 2016, 2, 1262489.	1.7	7
50	Unfolding During Urea Denaturation of a Low Molecular Weight Phytocystatin (Thiol Protease) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22</i>	0.4	6
51	Physicochemical properties of thiol proteinase inhibitor isolated from goat pancreas. <i>Biopolymers</i> , 2010, 93, NA-NA.	1.2	6
52	Biochemical, Immunological and Kinetic Characterisation of Thiol Protease Inhibitor (Cystatin) from Liver. <i>Applied Biochemistry and Biotechnology</i> , 2013, 171, 667-675.	1.4	6
53	Biochemical, immunological and kinetic characterization and partial sequence analysis of a thiol proteinase inhibitor from <i>Bubalus bubalis</i> kidney: An attempt targeting kidney disorders. <i>International Journal of Biological Macromolecules</i> , 2017, 94, 819-826.	3.6	6
54	Oxadiargyl induced conformational transition of cystatin isolated from yellow mustard seeds: Biophysical and biochemical approach. <i>International Journal of Biological Macromolecules</i> , 2017, 98, 802-809.	3.6	6

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55	In-sights into the effect of heavy metal stress on the endogenous mustard cystatin. International Journal of Biological Macromolecules, 2017, 105, 1138-1147.	3.6	6
56	Modification of chickpea cystatin by reactive dicarbonyl species: Glycation, oxidation and aggregation. Archives of Biochemistry and Biophysics, 2018, 650, 103-115.	1.4	6
57	Spectroscopic studies on free radical coalescing antioxidants and brain protein cystatin. Journal of Biomolecular Structure and Dynamics, 2019, 37, 2949-2959.	2.0	6
58	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.	0.9	5
59	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.	3.6	5
60	Anti-fibrillogenic and fibril destabilizing effects of metal ions on cystatin fibrils. Process Biochemistry, 2017, 57, 105-116.	1.8	5
61	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.	1.6	5
62	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.	3.6	5
63	Oxidation of cystatin imparted by riboflavin generated free radicals: Spectral analysis. International Journal of Biological Macromolecules, 2019, 124, 1281-1291.	3.6	5
64	Methotrexate binding causes structural and functional changes in lung cystatin.. Acta Biochimica Polonica, 2010, 57, .	0.3	5
65	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, 126-134.	0.9	4
66	Bilirubin Binding with Liver Cystatin Induced Structural and Functional Changes. Journal of Fluorescence, 2014, 24, 967-974.	1.3	4
67	Glycation of Liver Cystatin: Implication on its Structure and Function. Journal of Fluorescence, 2016, 26, 1743-1753.	1.3	4
68	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.	2.0	4
69	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.	3.6	4
70	Differential effects of anti-cancer and anti-hepatitis drugs on liver cystatin. Saudi Journal of Biological Sciences, 2015, 22, 69-74.	1.8	3
71	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.	3.6	3
72	Synthesis and Characterization of Benzothiophene-3-carbonitrile Derivative and Its Interactions with Human Serum Albumin (HSA). ChemistrySelect, 2019, 4, 11979-11986.	0.7	3

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73	Purification and characterization of a cystatin like thiol protease inhibitor from Brassica nigra. International Journal of Biological Macromolecules, 2019, 125, 1128-1139.	3.6	3
74	Role of phytocystatin in combating metal ion induced conformational alterations in glutathione reductase. International Journal of Biological Macromolecules, 2019, 127, 271-277.	3.6	3
75	Nitric Oxide Induced Damage and Preventive Effect of Curcumin and Quercetin on Buffalo Brain Cystatin. Current Proteomics, 2012, 9, 9-17.	0.1	2
76	Spectral Methods of Characterizing the Conformational Changes of Glycated Goat Liver Cystatin. Current Proteomics, 2012, 9, 255-261.	0.1	2
77	Interaction of almond cystatin with pesticides: Structural and functional analysis. Journal of Molecular Recognition, 2017, 30, e2586.	1.1	2
78	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.	1.1	2
79	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.	3.6	2
80	Oxidative Stress Induced Functional and Structural Modifications of High Molecular Mass Goat Brain Cystatin. Protein and Peptide Letters, 2008, 15, 20-26.	0.4	1
81	Studies on the Chemical Modification of Goat Liver Cystatin and the Effect on Its Anti-Papain Inhibitory Activity. Journal of Fluorescence, 2012, 22, 1627-1632.	1.3	1
82	Studies on Interaction of Buffalo Brain Cystatin with Donepezil: An Alzheimer's Drug. International Journal of Alzheimer's Disease, 2013, 2013, 1-7.	1.1	1
83	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.	1.1	1
84	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.	2.0	1
85	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.	2.0	1
86	Probing the structural interactions between methotrexate and dexamethasone with muscle cystatin: a biophysical study. Journal of Biomolecular Structure and Dynamics, 2020, 38, 2955-2964.	2.0	1
87	Amyloid aggregation and secondary structure changes of liver cystatin: Acidic denaturation and TFE induced studies. Journal of Biomolecular Structure and Dynamics, 2021, , 1-10.	2.0	1
88	Deciphering the Nature of Caffeic Acid to Inhibit the HSA Aggregation Induced by Glyoxal. Protein and Peptide Letters, 2020, 27, 725-735.	0.4	1
89	Alzheimer's: A Progressive Brain Disease: Causes, Symptoms, and Prevention. , 2019, , 31-51.		1
90	Comparative effects of alcohols (methanol, glycerol) and polyethylene glycol (PEG-300) on acid denatured state of goat liver cystatin. Journal of Fluorescence, 2011, 21, 1401-1407.	1.3	0

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91	Aggregation and inactivation of pancreatic cystatin by riboflavin <sup>α</sup> -derived singlet oxygen and flavin triplet state: Polyphenols as preventive agents. <i>Journal of Biochemical and Molecular Toxicology</i> , 2012, 26, 187-192.	1.4	0
92	Benzo(a)pyrene induced structural and functional modifications in lung cystatin. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 8005-8010.	1.3	0
93	Interaction of Buffalo Brain Cystatin with Serotonin. <i>Current Nanoscience</i> , 2013, 9, 231-234.	0.7	0