

Javed Masood Khan

List of Publications by Year in descending order

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101
papers

3,117
citations

136885

32
h-index

182361

51
g-index

102
all docs

102
docs citations

102
times ranked

3038
citing authors

#	ARTICLE	IF	CITATIONS
1	Elucidating the interaction of limonene with bovine serum albumin: a multi-technique approach. <i>Molecular BioSystems</i> , 2015, 11, 307-316.	2.9	220
2	Biogenic synthesis of Zinc oxide nanostructures from <i>Nigella sativa</i> seed: Prospective role as food packaging material inhibiting broad-spectrum quorum sensing and biofilm. <i>Scientific Reports</i> , 2016, 6, 36761.	1.6	128
3	SDS Can Be Utilized as an Amyloid Inducer: A Case Study on Diverse Proteins. <i>PLoS ONE</i> , 2012, 7, e29694.	1.1	113
4	Molecular insight into binding behavior of polyphenol (rutin) with beta lactoglobulin: Spectroscopic, molecular docking and MD simulation studies. <i>Journal of Molecular Liquids</i> , 2018, 269, 511-520.	2.3	107
5	Rutin inhibits mono and multi-species biofilm formation by foodborne drug resistant <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> . <i>Food Control</i> , 2017, 79, 325-332.	2.8	100
6	Protonation favors aggregation of lysozyme with SDS. <i>Soft Matter</i> , 2014, 10, 2591.	1.2	96
7	Strategies in the design of endosomolytic agents for facilitating endosomal escape in nanoparticles. <i>Biochimie</i> , 2019, 160, 61-75.	1.3	96
8	Biophysical insight into the anti-amyloidogenic behavior of taurine. <i>International Journal of Biological Macromolecules</i> , 2015, 80, 375-384.	3.6	78
9	Molten Globule of Hemoglobin Proceeds into Aggregates and Advanced Glycated End Products. <i>PLoS ONE</i> , 2013, 8, e72075.	1.1	76
10	Unraveling Comparative Anti-Amyloidogenic Behavior of Pyrazinamide and D-Cycloserine: A Mechanistic Biophysical Insight. <i>PLoS ONE</i> , 2015, 10, e0136528.	1.1	71
11	Interaction of amphiphilic drugs with human and bovine serum albumins. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 97, 119-124.	2.0	70
12	Comparative insight into surfactants mediated amyloidogenesis of lysozyme. <i>International Journal of Biological Macromolecules</i> , 2016, 83, 315-325.	3.6	68
13	FL-PMI: Federated Learning-Based Person Movement Identification through Wearable Devices in Smart Healthcare Systems. <i>Sensors</i> , 2022, 22, 1377.	2.1	64
14	Molecular interaction of tea catechin with bovine β -lactoglobulin: A spectroscopic and in silico studies. <i>Saudi Pharmaceutical Journal</i> , 2020, 28, 238-245.	1.2	59
15	Influence of antidepressant clomipramine hydrochloride drug on human serum albumin: Spectroscopic study. <i>Journal of Molecular Liquids</i> , 2017, 241, 91-98.	2.3	57
16	Study on the interaction between amphiphilic drug and bovine serum albumin: A thermodynamic and spectroscopic description. <i>Journal of Luminescence</i> , 2014, 155, 39-46.	1.5	55
17	Phyto-Mediated Synthesis of Porous Titanium Dioxide Nanoparticles From <i>Withania somnifera</i> Root Extract: Broad-Spectrum Attenuation of Biofilm and Cytotoxic Properties Against HepG2 Cell Lines. <i>Frontiers in Microbiology</i> , 2020, 11, 1680.	1.5	51
18	Unraveling the mechanism of arbidol binding and inhibition of SARS-CoV-2: Insights from atomistic simulations. <i>European Journal of Pharmacology</i> , 2021, 894, 173836.	1.7	51

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19	Low Temperature Synthesis of Superparamagnetic Iron Oxide (Fe ₃ O ₄) Nanoparticles and Their ROS Mediated Inhibition of Biofilm Formed by Food-Associated Bacteria. <i>Frontiers in Microbiology</i> , 2018, 9, 2567.	1.5	47
20	Elucidating the mode of action of urea on mammalian serum albumins and protective effect of sodium dodecyl sulfate. <i>Biochemical and Biophysical Research Communications</i> , 2013, 441, 681-688.	1.0	46
21	Hydrophobicity alone can not trigger aggregation in protonated mammalian serum albumins. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 5150.	1.3	46
22	Interaction of gelatin with promethazine hydrochloride: Conductimetry, tensiometry and circular dichroism studies. <i>Journal of Molecular Structure</i> , 2013, 1050, 35-42.	1.8	44
23	Study on food safety concerns, knowledge and practices among university students in Saudi Arabia. <i>Food Control</i> , 2017, 73, 202-208.	2.8	41
24	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.	1.1	39
25	Spectroscopic approach of the interaction study of amphiphilic drugs with the serum albumins. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 87, 447-453.	2.5	38
26	Monomeric Banana Lectin at Acidic pH Overrules Conformational Stability of Its Native Dimeric Form. <i>PLoS ONE</i> , 2013, 8, e62428.	1.1	38
27	Biofabrication of Zinc Oxide Nanoparticle from <i>Ochradenus baccatus</i> Leaves: Broad-Spectrum Antibiofilm Activity, Protein Binding Studies, and <i>In Vivo</i> Toxicity and Stress Studies. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-14.	1.5	38
28	Interaction of Cetyltrimethylammonium Bromide and Its Gemini Homologue Bis(cetyldimethylammonium)butane Dibromide with Xanthine Oxidase. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5711-5718.	1.2	37
29	Conductivity, cloud point and molecular dynamics investigations of the interaction of surfactants with ciprofloxacin hydrochloride drug: Effect of electrolytes. <i>Journal of Molecular Liquids</i> , 2021, 322, 114683.	2.3	36
30	Concentration-dependent antagonistic persuasion of SDS and naphthalene derivatives on the fibrillation of stem bromelain. <i>Archives of Biochemistry and Biophysics</i> , 2013, 540, 101-116.	1.4	35
31	A study of interaction between antidepressant drug nortriptyline hydrochloride with gelatin. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 2068-2074.	2.7	35
32	Exploring the mode of binding between food additive <i>n</i> -butylated hydroxytoluene (BHT) and human serum albumin: Spectroscopic as well as molecular docking study. <i>Journal of Molecular Liquids</i> , 2017, 230, 557-564.	2.3	34
33	Unveiling the stimulatory effects of tartrazine on human and bovine serum albumin fibrillogenesis: Spectroscopic and microscopic study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 191, 116-124.	2.0	33
34	Refolding of bovine serum albumin via artificial chaperone protocol using gemini surfactants. <i>Journal of Colloid and Interface Science</i> , 2011, 364, 157-162.	5.0	31
35	Different conformational states of hen egg white lysozyme formed by exposure to the surfactant of sodium dodecyl benzenesulfonate. <i>International Journal of Biological Macromolecules</i> , 2019, 128, 54-60.	3.6	31
36	Unfolding of rabbit serum albumin by cationic surfactants: Surface tensiometry, small-angle neutron scattering, intrinsic fluorescence, resonance Rayleigh scattering and circular dichroism studies. <i>Journal of Colloid and Interface Science</i> , 2010, 352, 436-443.	5.0	30

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37	Negatively charged food additive dye α -Allura Red rapidly induces SDS-soluble amyloid fibril in beta-lactoglobulin protein. <i>International Journal of Biological Macromolecules</i> , 2018, 107, 1706-1716.	3.6	30
38	Effect of cetyltrimethylammonium bromide (CTAB) on the conformation of a hen egg white lysozyme: A spectroscopic and molecular docking study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 219, 313-318.	2.0	30
39	The Achilles Heel of Ultrastable Hyperthermophile Proteins: Submillimolar Concentrations of SDS Stimulate Rapid Conformational Change, Aggregation, and Amyloid Formation in Proteins Carrying Overall Positive Charge. <i>Biochemistry</i> , 2016, 55, 3920-3936.	1.2	29
40	Cetyltrimethylammonium bromide (CTAB) promote amyloid fibril formation in carbohydrate binding protein (concanavalin A) at physiological pH. <i>RSC Advances</i> , 2016, 6, 38100-38111.	1.7	28
41	Synthetic food additive dye α -Tartrazine triggers amorphous aggregation in cationic myoglobin. <i>International Journal of Biological Macromolecules</i> , 2017, 98, 277-286.	3.6	28
42	Unraveling the molecular mechanism of the effects of sodium dodecyl sulfate, salts, and sugars on amyloid fibril formation in camel IgG. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 170, 430-437.	2.5	28
43	Influence of NaCl and temperature on the interaction between cephradine monohydrate and surfactants: Conductivity and UV-visible measurements. <i>Journal of Molecular Liquids</i> , 2021, 328, 115418.	2.3	27
44	Allura red rapidly induces amyloid-like fibril formation in hen egg white lysozyme at physiological pH. <i>International Journal of Biological Macromolecules</i> , 2019, 127, 297-305.	3.6	25
45	Influence of electrolytes on the cloud point phenomenon of tween-80+lomefloxacin hydrochloride mixtures and their thermodynamic parameters. <i>Journal of Molecular Liquids</i> , 2020, 318, 113999.	2.3	25
46	Complexation behavior of gelatin with amphiphilic drug imipramine hydrochloride as studied by conductimetry, surface tensiometry and circular dichroism studies. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 82, 258-262.	2.5	24
47	Honeybee nutrition and pollen substitutes: A review. <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 1167-1176.	1.8	24
48	Molecular interactions of food additive dye quinoline yellow (Qy) with alpha-lactalbumin: Spectroscopic and computational studies. <i>Journal of Molecular Liquids</i> , 2020, 311, 113215.	2.3	23
49	Interaction of tetradecyltrimethylammonium bromide with bovine serum albumin in different compositions: Effect of temperatures and electrolytes/urea. <i>Chinese Journal of Chemical Engineering</i> , 2021, 29, 279-287.	1.7	23
50	Biosynthesized Zinc Oxide Nanoparticles Disrupt Established Biofilms of Pathogenic Bacteria. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 710.	1.3	23
51	An intermittent amyloid phase found in gemini (G5 and G6) surfactant induced β -sheet to α -helix transition in concanavalin A protein. <i>Journal of Molecular Liquids</i> , 2018, 269, 796-804.	2.3	22
52	A quercetin-based flavanoid (rutin) reverses amyloid fibrillation in β -lactoglobulin at pH 2.0 and 358 K. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 214, 40-48.	2.0	22
53	Cationic gemini surfactant (16-4-16) interact electrostatically with anionic plant lectin and facilitates amyloid fibril formation at neutral pH. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 522, 494-502.	2.3	21
54	Spectroscopic studies on the gemini surfactant mediated refolding of human serum albumin. <i>International Journal of Biological Macromolecules</i> , 2017, 102, 331-335.	3.6	21

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55	Millimolar concentration of sodium dodecyl sulfate inhibit thermal aggregation in hen egg white lysozyme via increased α -helicity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 572, 167-173.	2.3	20
56	Secondary structural changes in guanidinium hydrochloride denatured mammalian serum albumins and protective effect of small amounts of cationic gemini surfactant pentanediy-1,5-bis(cetyldimethylammonium bromide) and methyl- β -cyclodextrin: A spectroscopic study. <i>Journal of Colloid and Interface Science</i> , 2015, 439, 170-176.	5.0	19
57	The role of the multifunctional antimicrobial peptide melittin in gene delivery. <i>Drug Discovery Today</i> , 2021, 26, 1053-1059.	3.2	19
58	How methyl cyanide induces aggregation in all-alpha proteins: A case study in four albumins. <i>International Journal of Biological Macromolecules</i> , 2009, 44, 163-169.	3.6	18
59	Investigation of the effect of temperature and electrolytes on the physicochemical parameters for the self-assembly of dodecyltrimethylammonium bromide. <i>Chemical Papers</i> , 2022, 76, 1501-1511.	1.0	18
60	Facile Synthesis of Tin Oxide Hollow Nanoflowers Interfering with Quorum Sensing-Regulated Functions and Bacterial Biofilms. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-11.	1.5	16
61	Interaction of metformin hydrochloride with ionic surfactants in aqueous and NaCl solution: Effect of temperatures and compositions. <i>Journal of Physical Organic Chemistry</i> , 2021, 34, e4166.	0.9	16
62	Sodium lauryl sarcosinate (sarkosyl) modulate amyloid fibril formation in hen egg white lysozyme (HEWL) at alkaline pH: a molecular insight study. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 1550-1565.	2.0	15
63	Interference of phosphane copper (I) complexes of β -carboline with quorum sensing regulated virulence functions and biofilm in foodborne pathogenic bacteria: A first report. <i>Saudi Journal of Biological Sciences</i> , 2019, 26, 308-316.	1.8	14
64	Deciphering the role of premicellar and micellar concentrations of sodium dodecyl benzenesulfonate surfactant in insulin fibrillation at pH 2.0. <i>International Journal of Biological Macromolecules</i> , 2020, 148, 880-886.	3.6	14
65	Investigating the effect of food additive dye β -carotene on BLG fibrillation under in-vitro condition. A biophysical and molecular docking study. <i>Journal of King Saud University - Science</i> , 2020, 32, 2034-2040.	1.6	14
66	Clouding phenomena and thermodynamics of TX-100 + polyethylene glycol mixture: influence of several electrolytes. <i>Chemical Papers</i> , 2021, 75, 1363-1375.	1.0	14
67	Molecular interaction of Sunset Yellow with whey protein: Multi-spectroscopic techniques and computational study. <i>Journal of Molecular Liquids</i> , 2022, 345, 117838.	2.3	13
68	<i>Phytolacca americana</i> lectin (Pa-2; pokeweed mitogen): an intrinsically unordered protein and its conversion into partial order at low pH. <i>Bioscience Reports</i> , 2010, 30, 125-134.	1.1	12
69	Exosomes: A Paradigm in Drug Development against Cancer and Infectious Diseases. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-17.	1.5	12
70	Alpha-cyclodextrin turns SDS-induced amyloid fibril into native-like structure. <i>Journal of Molecular Liquids</i> , 2019, 289, 111090.	2.3	12
71	SDS induces cross beta-sheet amyloid as well as alpha-helical structure in concanavalin A. <i>Journal of Molecular Liquids</i> , 2020, 319, 114154.	2.3	12
72	Bio-inspired facile fabrication of silver nanoparticles from <i>in vitro</i> grown shoots of <i>Tamarix nilotica</i> : explication of its potential in impeding growth and biofilms of <i>Listeria monocytogenes</i> and assessment of wound healing ability. <i>RSC Advances</i> , 2020, 10, 30139-30149.	1.7	12

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73	Food color Azorubine™ interferes with quorum sensing regulated functions and obliterates biofilm formed by food associated bacteria: An in vitro and in silico approach. Saudi Journal of Biological Sciences, 2020, 27, 1080-1090.	1.8	11
74	Multi-technique approach on the effect of surfactant concentrations on the thermal unfolding of rabbit serum albumin: Formation and solubilization of the protein aggregates. Colloids and Surfaces B: Biointerfaces, 2010, 80, 169-175.	2.5	10
75	Assembly behaviour and thermodynamics of the mixture of cetyltrimethylammonium bromide and bovine serum albumin in aqueous and aqua-ethylene glycol mixed solvents media at several temperatures. Molecular Physics, 2022, 120, .	0.8	9
76	Detergent induces the formation of IgG aggregates: A multi-methodological approach. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 120, 151-160.	2.0	8
77	Monomeric Camelus dromedarius GSTM1 at low pH is structurally more thermostable than its native dimeric form. PLoS ONE, 2018, 13, e0205274.	1.1	8
78	Quinoline yellow dye stimulates whey protein fibrillation via electrostatic and hydrophobic interaction: A biophysical study. Journal of Dairy Science, 2021, 104, 5141-5151.	1.4	8
79	Conductivity and cloud point studies of the interaction of lomefloxacin hydrochloride with anionic and nonionic surfactants in electrolytes solution. Journal of Molecular Liquids, 2021, 342, 116953.	2.3	8
80	Protection of Î±-crystallin by Î±-crystallin under thermal stress. International Journal of Biological Macromolecules, 2021, 167, 289-298.	3.6	8
81	pH induced single step shift of hydrophobic patches followed by formation of an MG state and an amyloidogenic intermediate in Lima Bean Trypsin Inhibitor (LBTI). International Journal of Biological Macromolecules, 2017, 103, 111-119.	3.6	7
82	A simple solvent extraction and ultra-performance liquid chromatography-tandem mass spectrometric method for the identification and quantification of rhodamine B in commercial lip balm samples. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 206, 72-77.	2.0	7
83	Perturbation of anionic surfactant induced amyloid fibrillation by chemical chaperone: A biophysical study. Journal of Molecular Liquids, 2020, 315, 113717.	2.3	7
84	Janerin Induces Cell Cycle Arrest at the G2/M Phase and Promotes Apoptosis Involving the MAPK Pathway in THP-1, Leukemic Cell Line. Molecules, 2021, 26, 7555.	1.7	7
85	Industrially important enzyme bovine liver catalase forms amyloid in the presence of 14-4-14 Gemini surfactant at physiological pH. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 610, 125909.	2.3	6
86	Impact of metal nanoparticles on the structure and function of metabolic enzymes. International Journal of Biological Macromolecules, 2021, 188, 576-585.	3.6	6
87	Interaction of ferritin iron responsive element (IRE) mRNA with translation initiation factor eIF4F. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 243, 118776.	2.0	5
88	Investigation of aggregation behavior of ionic surfactant mixture in crystal violet dye solution at different temperatures and solvent compositions: Conductivity and theoretical approach. Journal of Molecular Liquids, 2021, 338, 116402.	2.3	5
89	SDS modulates amyloid fibril formation and conformational change in succinyl-ConA at low pH. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 267, 120494.	2.0	5
90	Pre-micellar concentrations of sodium dodecylbenzene sulphonate induce amyloid-like fibril formation in myoglobin at pH 4.5. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 586, 124240.	2.3	4

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91	Cationic gemini surfactant stimulates amyloid fibril formation in bovine liver catalase at physiological pH. A biophysical study. <i>RSC Advances</i> , 2020, 10, 43751-43761.	1.7	4
92	Sunset Yellow Dye Induces Amorphous Aggregation in β^2 -Lactoglobulin at Acidic pH: A Multi-Techniques Approach. <i>Polymers</i> , 2022, 14, 395.	2.0	4
93	Structural stability and solubility of glycated camel lens β -crystallin. <i>International Journal of Biological Macromolecules</i> , 2020, 158, 384-393.	3.6	3
94	Influences of alcohol/polyols on interaction of moxifloxacin hydrochloride through cetyltrimethylammonium bromide at numerous temperatures and compositions. <i>Molecular Physics</i> , 2021, 119, .	0.8	3
95	Modulation of the Structure and Stability of Novel Camel Lens Alpha-Crystallin by pH and Thermal Stress. <i>Gels</i> , 2022, 8, 273.	2.1	3
96	Stability constants and thermodynamic behaviour of the complex formation of two crown ethers with zinc (II) and copper (II) ions in water + acetonitrile mixed solvent: a conductivity measurement study. <i>Physics and Chemistry of Liquids</i> , 0, , 1-15.	0.4	2
97	Bimolecular interaction of zwitterionic surfactant with hen egg white lysozyme (HEWL): A biophysical study. <i>Journal of King Saud University - Science</i> , 2022, 34, 101674.	1.6	1
98	Expression, purification, and biophysical characterization of recombinant MERS-CoV main (Mpro) protease. <i>International Journal of Biological Macromolecules</i> , 2022, 209, 984-990.	3.6	1
99	Impact of ethanol and NaCl on the acid yellow dye mediated self-aggregation of sodium dodecyl sulfate: A combined investigation by conductivity and molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , 2022, 345, 117819.	2.3	0
100	Taxon-specific zeta-crystallin of camel eye lens: A comparative in silico studies. <i>Journal of King Saud University - Science</i> , 2022, 34, 101973.	1.6	0
101	Non-enzymatic glycation enhances anionic surfactant induced aggregation and amyloidogenesis. <i>Journal of Molecular Liquids</i> , 2022, 359, 119249.	2.3	0