

Ali Akbar Moosavi-Movahedi

List of Publications by Year in descending order

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339
papers

7,740
citations

57758

44
h-index

102487

66
g-index

340
all docs

340
docs citations

340
times ranked

8816
citing authors

#	ARTICLE	IF	CITATIONS
1	How a protein can remain stable in a solvent with high content of urea: insights from molecular dynamics simulation of <i>Candida antarctica</i> lipase B in urea-choline chloride deep eutectic solvent. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 14882.	2.8	191
2	Enhancing the aqueous solubility of curcumin at acidic condition through the complexation with whey protein nanofibrils. <i>Food Hydrocolloids</i> , 2019, 87, 902-914.	10.7	183
3	Catalase and its mysteries. <i>Progress in Biophysics and Molecular Biology</i> , 2018, 140, 5-12.	2.9	175
4	The comparative assessment of ACE-inhibitory and antioxidant activities of peptide fractions obtained from fermented camel and bovine milk by <i>Lactobacillus rhamnosus</i> PTCC 1637. <i>International Dairy Journal</i> , 2013, 29, 82-87.	3.0	154
5	Alpha-lactalbumin: A new carrier for vitamin D3 food enrichment. <i>Food Hydrocolloids</i> , 2015, 45, 124-131.	10.7	124
6	Cold gelation of curcumin loaded whey protein aggregates mixed with κ -carrageenan: Impact of gel microstructure on the gastrointestinal fate of curcumin. <i>Food Hydrocolloids</i> , 2018, 85, 267-280.	10.7	124
7	Improvement of the Antimicrobial and Antioxidant Activities of Camel and Bovine Whey Proteins by Limited Proteolysis.. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 3297-3302.	5.2	122
8	Biological activity of camel milk casein following enzymatic digestion. <i>Journal of Dairy Research</i> , 2011, 78, 471-478.	1.4	120
9	Glycated albumin: an overview of the In Vitro models of an In Vivo potential disease marker. <i>Journal of Diabetes and Metabolic Disorders</i> , 2014, 13, 49.	1.9	106
10	Antioxidant and Anticancer Activities of Walnut (<i>Juglans regia</i> L.) Protein Hydrolysates Using Different Proteases. <i>Plant Foods for Human Nutrition</i> , 2016, 71, 402-409.	3.2	105
11	Effect of polyol osmolytes on ΔG , the Gibbs energy of stabilisation of proteins at different pH values. <i>Biophysical Chemistry</i> , 2005, 117, 1-12.	2.8	101
12	Biomolecular content of camel milk: A traditional superfood towards future healthcare industry. <i>Trends in Food Science and Technology</i> , 2017, 62, 49-58.	15.1	100
13	Antioxidant activity of low molecular weight alginate produced by thermal treatment. <i>Food Chemistry</i> , 2016, 196, 897-902.	8.2	93
14	β -Lactoglobulin-sodium alginate interaction as affected by polysaccharide depolymerization using high intensity ultrasound. <i>Food Hydrocolloids</i> , 2013, 32, 235-244.	10.7	88
15	Enzymatic digestion and antioxidant activity of the native and molten globule states of camel β -lactalbumin: Possible significance for use in infant formula. <i>International Dairy Journal</i> , 2009, 19, 518-523.	3.0	83
16	Molecular interaction of human serum albumin with paracetamol: Spectroscopic and molecular modeling studies. <i>International Journal of Biological Macromolecules</i> , 2009, 45, 129-134.	7.5	80
17	Kinetic characterization of hydrolysis of camel and bovine milk proteins by pancreatic enzymes. <i>International Dairy Journal</i> , 2008, 18, 1097-1102.	3.0	79
18	Structural changes in β -lactoglobulin by conjugation with three different kinds of carboxymethyl cyclodextrins. <i>Thermochimica Acta</i> , 2005, 432, 106-111.	2.7	78

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19	Complex coacervation of β^2 -lactoglobulin and β^1 -Carrageenan aqueous mixtures as affected by polysaccharide sonication. <i>Food Chemistry</i> , 2013, 141, 215-222.	8.2	75
20	Investigating the interaction of juglone (5-hydroxy-1, 4-naphthoquinone) with serum albumins using spectroscopic and in silico methods. <i>Journal of the Iranian Chemical Society</i> , 2017, 14, 1527-1540.	2.2	70
21	Nanostructured food proteins as efficient systems for the encapsulation of bioactive compounds. <i>Food Science and Human Wellness</i> , 2020, 9, 199-213.	4.9	70
22	Electrochemical evidence for the molten globule states of cytochrome c induced by N-alkyl sulfates at low concentrations. <i>The Protein Journal</i> , 2003, 22, 23-30.	1.1	68
23	Direct electron transfer of horseradish peroxidase on Nafion-cysteine modified gold electrode. <i>Electrochimica Acta</i> , 2007, 52, 6261-6267.	5.2	67
24	Derivation of the thermodynamic parameters involved in the elucidation of protein thermal profiles. <i>Biochemical Education</i> , 1995, 23, 164-167.	0.1	64
25	Microcalorimetry, energetics and binding studies of DNA-dimethyltin dichloride complexes. <i>Thermochimica Acta</i> , 2004, 414, 233-241.	2.7	64
26	Effect of free radical-induced aggregation on physicochemical and interface-related functionality of egg white protein. <i>Food Hydrocolloids</i> , 2019, 87, 734-746.	10.7	63
27	Direct electrochemistry of glucose oxidase and glucose biosensing on a hydroxyl fullerenes modified glassy carbon electrode. <i>Biosensors and Bioelectronics</i> , 2014, 60, 30-34.	10.1	62
28	Oligomeric Forms of Insulin Amyloid Aggregation Disrupt Outgrowth and Complexity of Neuron-Like PC12 Cells. <i>PLoS ONE</i> , 2012, 7, e41344.	2.5	61
29	Effect of polyamines on the structure, thermal stability and 2,2,2-trifluoroethanol-induced aggregation of β -chymotrypsin. <i>International Journal of Biological Macromolecules</i> , 2007, 41, 597-604.	7.5	59
30	Physicochemical characterization of a monorhamnolipid secreted by <i>Pseudomonas aeruginosa</i> MAO1 in aqueous media. An experimental and molecular dynamics study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 101, 256-265.	5.0	58
31	Purification and autolysis of the ficin isoforms from fig (<i>Ficus carica</i> cv. Sabz) latex. <i>Phytochemistry</i> , 2013, 87, 16-22.	2.9	55
32	Novel blue-emitting gold nanoclusters confined in human hemoglobin, and their use as fluorescent probes for copper(II) and histidine. <i>Mikrochimica Acta</i> , 2015, 182, 1131-1141.	5.0	54
33	Role of electrostatic interactions in 2,2,2-trifluoroethanol-induced structural changes and aggregation of β -chymotrypsin. <i>Archives of Biochemistry and Biophysics</i> , 2007, 457, 160-169.	3.0	52
34	A Fresh Look at the Male-specific Region of the Human Y Chromosome. <i>Journal of Proteome Research</i> , 2013, 12, 6-22.	3.7	52
35	Direct electron transfer of redox proteins on a Nafion-cysteine modified gold electrode. <i>Electrochemistry Communications</i> , 2006, 8, 1572-1576.	4.7	50
36	Cobalt nanoflowers: Synthesis, characterization and derivatization to cobalt hexacyanoferrate-Electrocatalytic oxidation and determination of sulfite and nitrite. <i>Electrochimica Acta</i> , 2012, 77, 294-301.	5.2	50

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37	Physicochemical and bio-functional properties of walnut proteins as affected by trypsin-mediated hydrolysis. <i>Food Bioscience</i> , 2020, 36, 100611.	4.4	49
38	Chemical modification of lysine residues in lysozyme may dramatically influence its amyloid fibrillation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 714-722.	2.3	48
39	Anticancer activity and DNA-binding properties of novel cationic Pt(II) complexes. <i>International Journal of Biological Macromolecules</i> , 2014, 66, 86-96.	7.5	48
40	Identification and characterization of a novel thermostable xylanase from camel rumen metagenome. <i>International Journal of Biological Macromolecules</i> , 2019, 126, 1295-1302.	7.5	48
41	The shapes of Scatchard plots for systems with two sets of binding sites. <i>Biochemical Education</i> , 1996, 24, 172-175.	0.1	47
42	Band Assignment in Hemoglobin Porphyrin Ring Spectrum: Using Four-Orbital Model of Gouterman. <i>Protein and Peptide Letters</i> , 2010, 17, 473-479.	0.9	47
43	A novel impedimetric nanobiosensor for low level determination of hydrogen peroxide based on biocatalysis of catalase. <i>Bioelectrochemistry</i> , 2012, 83, 31-37.	4.6	46
44	Hydrogen peroxide sensitive hemoglobin-capped gold nanoclusters as a fluorescence enhancing sensor for the label-free detection of glucose. <i>RSC Advances</i> , 2015, 5, 33123-33135.	3.6	46
45	IAMPE: NMR-Assisted Computational Prediction of Antimicrobial Peptides. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 4691-4701.	5.4	46
46	Fabrication of carbon nanotube and dysprosium nanowire modified electrodes as a sensor for determination of curcumin. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 1983-1992.	2.9	45
47	Effects of mobile phone radiofrequency on the structure and function of the normal human hemoglobin. <i>International Journal of Biological Macromolecules</i> , 2009, 44, 278-285.	7.5	45
48	Direct Electrochemistry of Hemoglobin Immobilized on a Functionalized Multi-Walled Carbon Nanotubes and Gold Nanoparticles Nanocomplex-Modified Glassy Carbon Electrode. <i>Sensors</i> , 2013, 13, 8595-8611.	3.8	45
49	Physico-chemical and foaming properties of nanofibrillated egg white protein and its functionality in meringue batter. <i>Food Hydrocolloids</i> , 2020, 101, 105554.	10.7	45
50	The status of glycation in protein aggregation. <i>International Journal of Biological Macromolecules</i> , 2017, 100, 67-74.	7.5	44
51	Stability of proteins in the presence of polyols estimated from their guanidinium chloride-induced transition curves at different pH values and 25 Â°C. <i>Biophysical Chemistry</i> , 2006, 119, 224-233.	2.8	43
52	Inhibition study on insulin fibrillation and cytotoxicity by paclitaxel. <i>Journal of Biochemistry</i> , 2014, 155, 361-373.	1.7	42
53	Radical cross-linked whey protein aggregates as building blocks of non-heated cold-set gels. <i>Food Hydrocolloids</i> , 2018, 81, 429-441.	10.7	42
54	Electrochemical behavior of caffeic acid at single-walled carbon nanotube:graphite-based electrode. <i>Biophysical Chemistry</i> , 2007, 128, 30-37.	2.8	41

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55	Thermal aggregation of α -chymotrypsin: Role of hydrophobic and electrostatic interactions. Biophysical Chemistry, 2008, 132, 23-32.	2.8	41
56	A Theoretical Elucidation of Glucose Interaction with HSA's Domains. Journal of Biomolecular Structure and Dynamics, 2010, 28, 211-226.	3.5	41
57	The proteolytic activity of selected lactic acid bacteria in fermenting cow's and camel's milk and the resultant sensory characteristics of the products. International Journal of Dairy Technology, 2013, 66, 279-285.	2.8	41
58	Thermodynamics of protein denaturation by sodium dodecyl sulfate. Journal of the Iranian Chemical Society, 2005, 2, 189-196.	2.2	40
59	Determination of Diclofenac on a Dysprosium Nanowire- Modified Carbon Paste Electrode Accomplished in a Flow Injection System by Advanced Filtering. Sensors, 2009, 9, 7903-7918.	3.8	40
60	Gelation of oil-in-water emulsions stabilized by heat-denatured and nanofibrillated whey proteins through ion bridging or citric acid-mediated cross-linking. International Journal of Biological Macromolecules, 2018, 120, 2247-2258.	7.5	39
61	Testing polyols TM compatibility with Gibbs energy of stabilization of proteins under conditions in which they behave as compatible osmolytes. FEBS Letters, 2005, 579, 3891-3898.	2.8	38
62	Comparative study on heat stability of camel and bovine apo and holo α -lactalbumin. Journal of Dairy Research, 2010, 77, 43-49.	1.4	37
63	Activation of catalase by pioglitazone: Multiple spectroscopic methods combined with molecular docking studies. Journal of Molecular Recognition, 2017, 30, e2648.	2.1	37
64	Resolution Method of Two Sets of Binding Sites for the Cationic Surfactant ^U Urease Interaction. Bulletin of the Chemical Society of Japan, 1996, 69, 3031-3035.	3.2	36
65	ACE- inhibitory and radical scavenging activities of bioactive peptides obtained from camel milk casein hydrolysis with proteinase K. Dairy Science and Technology, 2016, 96, 489-499.	2.2	36
66	Studies to reveal the nature of interactions between catalase and curcumin using computational methods and optical techniques. International Journal of Biological Macromolecules, 2017, 95, 550-556.	7.5	35
67	Chaperone activities of bovine and camel β -caseins: Importance of their surface hydrophobicity in protection against alcohol dehydrogenase aggregation. International Journal of Biological Macromolecules, 2008, 42, 392-399.	7.5	34
68	The influence of the flavonoid quercetin on the interaction of propranolol with human serum albumin: Experimental and theoretical approaches. Journal of Luminescence, 2014, 154, 229-240.	3.1	34
69	Catalase immobilized on a functionalized multi-walled carbon nanotubes ^U gold nanocomposite as a highly sensitive bio-sensing system for detection of hydrogen peroxide. Electrochimica Acta, 2013, 89, 317-325.	5.2	33
70	Machine Learning and Network Analysis of Molecular Dynamics Trajectories Reveal Two Chains of Red/Ox-specific Residue Interactions in Human ^U Protein Disulfide Isomerase. Scientific Reports, 2017, 7, 3666.	3.3	33
71	Walnut protein ^U curcumin complexes: fabrication, structural characterization, antioxidant properties, and in vitro anticancer activity. Journal of Food Measurement and Characterization, 2020, 14, 876-885.	3.2	33
72	Study of the interaction between two newly synthesized cyclometallated platinum (II) complexes and human serum albumin: Spectroscopic characterization and docking simulation. Journal of Luminescence, 2015, 159, 139-146.	3.1	32

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73	The inhibitory effect of farnesiferol C against catalase; Kinetics, interaction mechanism and molecular docking simulation. <i>International Journal of Biological Macromolecules</i> , 2018, 113, 1258-1265.	7.5	32
74	Binding Data Analysis of the Interaction of Bovine Hemoglobin with Dodecyltrimethylammonium Bromide. <i>Bulletin of the Chemical Society of Japan</i> , 1996, 69, 2231-2234.	3.2	31
75	Fast Fourier transformation with continuous cyclic voltammetry at an Au microelectrode for the determination of morphine in a flow injection system. <i>Talanta</i> , 2007, 73, 54-61.	5.5	31
76	A protein fold classifier formed by fusing different modes of pseudo amino acid composition via PSSM. <i>Computational Biology and Chemistry</i> , 2011, 35, 1-9.	2.3	31
77	Structural Analysis and Aggregation Propensity of Reduced and Nonreduced Glycated Insulin Adducts. <i>Applied Biochemistry and Biotechnology</i> , 2013, 170, 623-638.	2.9	31
78	Hemoglobin fructation promotes heme degradation through the generation of endogenous reactive oxygen species. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 130, 561-567.	3.9	31
79	A highly sensitive choline biosensor based on bamboo-like multiwall carbon nanotubes/ionic liquid/Prussian blue nanocomposite. <i>Sensors and Actuators B: Chemical</i> , 2014, 204, 694-703.	7.8	31
80	Fabrication and Characterization of Curcumin-Loaded Complex Coacervates Made of Gum Arabic and Whey Protein Nanofibrils. <i>Food Biophysics</i> , 2019, 14, 425-436.	3.0	31
81	Fabrication and characterization of acid-induced gels from thermally-aggregated egg white protein formed at alkaline condition. <i>Food Hydrocolloids</i> , 2020, 99, 105337.	10.7	30
82	A Product Inhibition Study on Adenosine Deaminase by Spectroscopy and Calorimetry. <i>BMB Reports</i> , 2002, 35, 302-305.	2.4	30
83	Effects of 940 MHz EMF on bioluminescence and oxidative response of stable luciferase producing HEK cells. <i>Photochemical and Photobiological Sciences</i> , 2014, 13, 1082-1092.	2.9	29
84	Biocompatible nanotubes as potential carrier for curcumin as a model bioactive compound. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	27
85	Evidence of non-coincidence of normalized sigmoidal curves of two different structural properties for two-state protein folding/unfolding. <i>Journal of Chemical Thermodynamics</i> , 2013, 58, 351-358.	2.0	27
86	Destructive effect of non-enzymatic glycation on catalase and remediation via curcumin. <i>Archives of Biochemistry and Biophysics</i> , 2017, 630, 81-90.	3.0	27
87	<i>In vitro</i> antioxidant activities of hydrolysates obtained from Iranian wild almond (<i>Mygdalus scoparia</i>) protein by several enzymes. <i>International Journal of Food Science and Technology</i> , 2016, 51, 609-616.	2.7	26
88	Shape-Controlled Synthesis of Luminescent Hemoglobin Capped Hollow Porous Platinum Nanoclusters and their Application to Catalytic Oxygen Reduction and Cancer Imaging. <i>Scientific Reports</i> , 2018, 8, 14507.	3.3	26
89	The techno-functional properties of camel whey protein compared to bovine whey protein for fabrication a model high protein emulsion. <i>LWT - Food Science and Technology</i> , 2019, 101, 543-550.	5.2	26
90	Electrodeposition of nickel oxide nanoparticles on glassy carbon surfaces: application to the direct electron transfer of tyrosinase. <i>Journal of Applied Electrochemistry</i> , 2008, 38, 1233-1239.	2.9	25

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91	Cytochrome c in sodium dodecyl sulfate reverse micelle nanocage: From a classic electron carrier protein to an artificial peroxidase enzyme. <i>Biochemical Engineering Journal</i> , 2010, 49, 89-94.	3.6	25
92	Spectroscopic and Electrochemical Studies on the Interaction of Carmoisine Food Additive with Native Calf Thymus DNA. <i>Spectroscopy Letters</i> , 2013, 46, 250-256.	1.0	25
93	Anticancer and DNA Binding Activities of Platinum (IV) Complexes; Importance of Leaving Group Departure Rate. <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 2604-2617.	2.9	25
94	The impact of Hydrogen peroxide on structure, stability and functional properties of Human R12C mutant α -crystallin: The imperative insights into pathomechanism of the associated congenital cataract incidence. <i>Free Radical Biology and Medicine</i> , 2015, 89, 819-830.	2.9	25
95	The impact of different mutations at Arg54 on structure, chaperone-like activity and oligomerization state of human α -crystallin: The pathomechanism underlying congenital cataract-causing mutations R54L, R54P and R54C. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 604-618.	2.3	25
96	Beneficial Protective Role of Endogenous Lactic Acid Bacteria Against Mycotic Contamination of Honeybee Beebread. <i>Probiotics and Antimicrobial Proteins</i> , 2018, 10, 638-646.	3.9	25
97	Modulating Insulin Fibrillation Using Engineered B-Chains with Mutated C-Termini. <i>Biophysical Journal</i> , 2019, 117, 1626-1641.	0.5	25
98	Experimental investigation and molecular dynamics simulation of the binding of ellagic acid to bovine liver catalase: Activation study and interaction mechanism. <i>International Journal of Biological Macromolecules</i> , 2020, 143, 850-861.	7.5	25
99	Sensitive determination of herbicide trifluralin on the surface of copper nanowire electrochemical sensor. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 1953-1961.	2.5	24
100	Investigation of thermal reversibility and stability of glycated human serum albumin. <i>International Journal of Biological Macromolecules</i> , 2013, 62, 358-364.	7.5	24
101	H ₂ O ₂ /air plasma-functionalized carbon nanotubes decorated with MnO ₂ for glucose sensing. <i>RSC Advances</i> , 2016, 6, 31807-31815.	3.6	24
102	Appraisal of role of the polyanionic inducer length on amyloid formation by 412-residue 1N4R Tau protein: A comparative study. <i>Archives of Biochemistry and Biophysics</i> , 2016, 609, 1-19.	3.0	24
103	Upgrading the enzymatic hydrolysis of lignocellulosic biomass by immobilization of metagenome-derived novel halotolerant cellulase on the carboxymethyl cellulose-based hydrogel. <i>Cellulose</i> , 2021, 28, 3485-3503.	4.9	24
104	A distinct intermediate of RNase A is induced by sodium dodecyl sulfate at its pKa. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005, 43, 150-157.	5.0	23
105	Human hemoglobin structural and functional alterations and heme degradation upon interaction with benzene: A spectroscopic study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 157, 41-49.	3.9	23
106	Structural and functional characterization of D109H and R69C mutant versions of human β -crystallin: The biochemical pathomechanism underlying cataract and myopathy development. <i>International Journal of Biological Macromolecules</i> , 2020, 146, 1142-1160.	7.5	23
107	The Stabilizing Mechanism of Immobilized Metagenomic Xylanases on Bio-Based Hydrogels to Improve Utilization Performance: Computational and Functional Perspectives. <i>Bioconjugate Chemistry</i> , 2020, 31, 2158-2171.	3.6	23
108	Aquamethemoglobin reduction by sodium n-dodecyl sulfate via coordinated water oxidation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2003, 30, 139-146.	5.0	22

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109	Immobilization of endo-inulinase on poly-d-lysine coated CaCO ₃ micro-particles. Food Research International, 2014, 66, 485-492.	6.2	22
110	Protection by beta-Hydroxybutyric acid against insulin glycation, lipid peroxidation and microglial cell apoptosis. DARU, Journal of Pharmaceutical Sciences, 2015, 23, 42.	2.0	22
111	Atorvastatin treatment softens human red blood cells: an optical tweezers study. Biomedical Optics Express, 2018, 9, 1256.	2.9	22
112	Comparative thermodynamic stability of bovine and pigeon haemoglobins by interaction with sodium n-Dodecyl sulphate. Thermochimica Acta, 1996, 287, 343-349.	2.7	21
113	Differential Scanning Calorimetry Study on Thermal Denaturation of Human Carbonic Anhydrase II. Journal of Chemical & Engineering Data, 2011, 56, 1158-1162.	1.9	21
114	Guanidinium chloride and urea denaturations of β -Lactoglobulin A at pH 2.0 and 25 $^{\circ}$ C: The equilibrium intermediate contains non-native structures (helix, tryptophan and hydrophobic patches). Biophysical Chemistry, 2007, 127, 140-148.	2.8	20
115	Chemometric study of the aggregation of alcohol dehydrogenase and its suppression by β -caseins: A mechanistic perspective. Analytica Chimica Acta, 2008, 613, 40-47.	5.4	20
116	Formulation, <i>in vitro</i> evaluation and kinetic analysis of chitosan-gelatin bilayer muco-adhesive buccal patches of insulin nanoparticles. Journal of Microencapsulation, 2016, 33, 613-624.	2.8	20
117	Kinetics Study of Protein Hydrolysis and Inhibition of Angiotensin Converting Enzyme by Peptides Hydrolysate Extracted from Walnut. International Journal of Peptide Research and Therapeutics, 2018, 24, 77-85.	1.9	20
118	Whey protein aggregates formed by non-toxic chemical cross-linking as novel carriers for curcumin delivery: Fabrication and characterization. Journal of Drug Delivery Science and Technology, 2020, 56, 101531.	3.0	20
119	Review on oxidative stress relation on COVID-19: Biomolecular and bioanalytical approach. International Journal of Biological Macromolecules, 2021, 189, 802-818.	7.5	20
120	Clarification of calorimetric and van 't hoff enthalpies for evaluation of protein transition states. Biochemical Education, 1994, 22, 210-211.	0.1	19
121	Use of silver nanoparticles as an electron transfer facilitator in electrochemical ligand-binding of haemoglobin. Journal of Applied Electrochemistry, 2007, 37, 1021-1026.	2.9	19
122	Cross-Linking Mechanisms of Arginine and Lysine with α,β -Dicarbonyl Compounds in Aqueous Solution. Journal of Physical Chemistry A, 2011, 115, 13542-13555.	2.5	19
123	Altered tubulin assembly dynamics with N-homocysteinylation of human 4R/1N tau in vitro. FEBS Letters, 2012, 586, 3914-3919.	2.8	19
124	Energetic domains and conformational analysis of human serum albumin upon co-incubation with sodium benzoate and glucose. Journal of Biomolecular Structure and Dynamics, 2014, 32, 438-447.	3.5	19
125	Sodium dodecyl sulphate modulates the fibrillation of human serum albumin in a dose-dependent manner and impacts the PC12 cells retraction. Colloids and Surfaces B: Biointerfaces, 2014, 122, 341-349.	5.0	19
126	Mechanistic investigation of sulfonamide ligands as human carbonic anhydrase II inhibitors. International Journal of Biological Macromolecules, 2018, 120, 1198-1207.	7.5	19

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127	Heme degradation upon production of endogenous hydrogen peroxide via interaction of hemoglobin with sodium dodecyl sulfate. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 133, 11-17.	3.8	18
128	The Potential Role of Curcumin in Modulating the Master Antioxidant Pathway in Diabetic Hypoxia-Induced Complications. <i>Molecules</i> , 2021, 26, 7658.	3.8	18
129	Sequence and stability of the goat cytochrome c. <i>Biophysical Chemistry</i> , 2008, 138, 23-28.	2.8	17
130	Microglial Cell Death Induced by Glycated Bovine Serum Albumin: Nitric Oxide Involvement. <i>Journal of Biochemistry</i> , 2008, 144, 197-206.	1.7	17
131	Synthesis, cytotoxicity and spectroscopy studies of a new copper (II) complex: calf thymus DNA and T47D as targets. <i>Journal of the Iranian Chemical Society</i> , 2012, 9, 737-746.	2.2	17
132	Characterization of paracetamol binding with normal and glycated human serum albumin assayed by a new electrochemical method. <i>Journal of the Brazilian Chemical Society</i> , 2012, 23, 315-321.	0.6	17
133	Potassium sorbate as an AGE activator for human serum albumin in the presence and absence of glucose. <i>International Journal of Biological Macromolecules</i> , 2013, 62, 146-154.	7.5	17
134	Thermodynamics of a molten globule state of human serum albumin by 3- β -hydroxybutyrate as a ketone body. <i>International Journal of Biological Macromolecules</i> , 2013, 54, 258-263.	7.5	17
135	Effect of compatible and noncompatible osmolytes on the enzymatic activity and thermal stability of bovine liver catalase. <i>Journal of Biomolecular Structure and Dynamics</i> , 2013, 31, 1440-1454.	3.5	17
136	Inhibition of fluorescent advanced glycation end products (AGEs) of human serum albumin upon incubation with 3- β -hydroxybutyrate. <i>Molecular Biology Reports</i> , 2014, 41, 3705-3713.	2.3	17
137	Interaction of insulin with methyl tert -butyl ether promotes molten globule-like state and production of reactive oxygen species. <i>International Journal of Biological Macromolecules</i> , 2015, 80, 610-614.	7.5	17
138	Antioxidant activity and ACE-inhibitory of Class II hydrophobin from wild strain <i>Trichoderma reesei</i> . <i>International Journal of Biological Macromolecules</i> , 2016, 91, 174-179.	7.5	17
139	Unfolding of insulin at the surface of ZnO quantum dots. <i>International Journal of Biological Macromolecules</i> , 2016, 86, 169-176.	7.5	17
140	Assessment of structure, stability and aggregation of soluble lens proteins and alpha-crystallin upon non-enzymatic glycation: The pathomechanisms underlying cataract development in diabetic patients. <i>International Journal of Biological Macromolecules</i> , 2016, 82, 328-338.	7.5	17
141	A biophysical study on the mechanism of interactions of DOX or PTX with α -lactalbumin as a delivery carrier. <i>Scientific Reports</i> , 2018, 8, 17345.	3.3	17
142	Effect of dry heating on physico-chemical, functional properties and digestibility of camel whey protein. <i>International Dairy Journal</i> , 2018, 86, 9-20.	3.0	17
143	Carbapenem-based prodrugs. Design, synthesis, and biological evaluation of carbapenems. <i>European Journal of Medicinal Chemistry</i> , 2005, 40, 339-349.	5.5	16
144	Molten Globule-Like State of Bovine Carbonic Anhydrase in the Presence of Acetonitrile. <i>Journal of Biochemistry</i> , 2006, 139, 1025-1033.	1.7	16

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145	Evidence theoretic protein fold classification based on the concept of hyperfold. <i>Mathematical Biosciences</i> , 2012, 240, 148-160.	1.9	16
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