

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.

45 papers	2,659 citations	27 h-index	47 g-index
47 ext. papers	2,987 ext. citations	4.2 avg, IF	4.88 L-index

#	Paper	IF	Citations
45	Characterization and in vitro cytotoxic assessment of zinc oxide nano-particles in human epidermoid carcinoma cells. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105636	6.8	1
44	Anti-quorum Sensing and Anti-biofilm Activity of Zinc Oxide Nanospikes. <i>ACS Omega</i> , 2020 , 5, 32203-32215	3.5	8
43	MAD1: Kinetochore Receptors and Catalytic Mechanisms. <i>Frontiers in Cell and Developmental Biology</i> , 2018 , 6, 51	5.7	11
42	C-terminal domain of Mad1 interacts with Mad2 to catalyze O-C Mad2 conversion in coordination with mitotic checkpoints. <i>FASEB Journal</i> , 2018 , 32, 533.106	0.9	
41	Biophysical insight into the interaction mechanism of plant derived polyphenolic compound tannic acid with homologous mammalian serum albumins. <i>International Journal of Biological Macromolecules</i> , 2018 , 107, 2450-2464	7.9	30
40	Direct interactions of mitotic arrest deficient 1 (MAD1) domains with each other and MAD2 conformers are required for mitotic checkpoint signaling. <i>Journal of Biological Chemistry</i> , 2018 , 293, 48449-48456	5.4	12
39	Sol-gel synthesis of thorn-like ZnO nanoparticles endorsing mechanical stirring effect and their antimicrobial activities: Potential role as nano-antibiotics. <i>Scientific Reports</i> , 2016 , 6, 27689	4.9	190
38	Biogenic terbium oxide nanoparticles as the vanguard against osteosarcoma. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016 , 168, 123-131	4.4	20
37	Impact of structural stability of cold adapted <i>Candida antarctica</i> lipase B (CaLB): in relation to pH, chemical and thermal denaturation. <i>RSC Advances</i> , 2015 , 5, 20115-20131	3.7	110
36	Elucidating the interaction of limonene with bovine serum albumin: a multi-technique approach. <i>Molecular BioSystems</i> , 2015 , 11, 307-16		190
35	<i>Cissus quadrangularis</i> Linn exerts dose-dependent biphasic effects: osteogenic and anti-proliferative, through modulating ROS, cell cycle and Runx2 gene expression in primary rat osteoblasts. <i>Cell Proliferation</i> , 2015 , 48, 443-54	7.9	25
34	Sub-MICs of <i>Mentha piperita</i> essential oil and menthol inhibits AHL mediated quorum sensing and biofilm of Gram-negative bacteria. <i>Frontiers in Microbiology</i> , 2015 , 6, 420	5.7	95
33	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
32	Fluoroalcohols-induced modulation and amyloid formation in conalbumin. <i>International Journal of Biological Macromolecules</i> , 2014 , 70, 606-14	7.9	35
31	Analysis of binding interaction between antibacterial ciprofloxacin and human serum albumin by spectroscopic techniques. <i>Cell Biochemistry and Biophysics</i> , 2014 , 70, 93-101	3.2	42
30	Protonation favors aggregation of lysozyme with SDS. <i>Soft Matter</i> , 2014 , 10, 2591-9	3.6	81
29	Nanoparticles in relation to peptide and protein aggregation. <i>International Journal of Nanomedicine</i> , 2014 , 9, 899-912	7.3	89

28	Flower-shaped ZnO nanoparticles synthesized by a novel approach at near-room temperatures with antibacterial and antifungal properties. <i>International Journal of Nanomedicine</i> , 2014 , 9, 853-64	7.3	70
27	Non-native states of bovine beta-lactoglobulin induced by acetonitrile: pH-dependent unfolding of the two genetic variants A and B. <i>Cell Biochemistry and Biophysics</i> , 2013 , 66, 175-85	3.2	9
26	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
25	At very low concentrations known chaotropes act as kosmotropes for the N and B isoforms of human serum albumin. <i>Biochemistry and Cell Biology</i> , 2013 , 91, 72-8	3.6	5
24	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
23	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
22	Antibacterial and cytotoxic efficacy of extracellular silver nanoparticles biofabricated from chromium reducing novel OS4 strain of <i>Stenotrophomonas maltophilia</i> . <i>PLoS ONE</i> , 2013 , 8, e59140	3.7	108
21	Monomeric banana lectin at acidic pH overrules conformational stability of its native dimeric form. <i>PLoS ONE</i> , 2013 , 8, e62428	3.7	36
20	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
19	Flexibility of EF-hand motifs: structural and thermodynamic studies of Calcium Binding Protein-1 from <i>Entamoeba histolytica</i> with Pb ²⁺ , Ba ²⁺ , and Sr ²⁺ . <i>BMC Biophysics</i> , 2012 , 5, 15	0	11
18	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
17	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
16	Identification and design of antimicrobial peptides for therapeutic applications. <i>Current Protein and Peptide Science</i> , 2012 , 13, 211-23	2.8	39
15	SDS can be utilized as an amyloid inducer: a case study on diverse proteins. <i>PLoS ONE</i> , 2012 , 7, e29694	3.7	103
14	In silico prediction and analysis of <i>Caenorhabditis</i> EF-hand containing proteins. <i>PLoS ONE</i> , 2012 , 7, e36770	3.7	9
13	Pollutant-induced modulation in conformation and Elastase activity of human serum albumin. <i>PLoS ONE</i> , 2012 , 7, e38372	3.7	65
12	A mechanistic approach for islet amyloid polypeptide aggregation to develop anti-amyloidogenic agents for type-2 diabetes. <i>Biochimie</i> , 2011 , 93, 793-805	4.6	61
11	Structural stability as a probe for molecular evolution of homologous albumins studied by spectroscopy and bioinformatics. <i>Cell Biochemistry and Biophysics</i> , 2011 , 61, 313-25	3.2	31

10	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
9	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
8	Crystal structure and trimer-monomer transition of N-terminal domain of EhCaBP1 from <i>Entamoeba histolytica</i> . <i>Biophysical Journal</i> , 2010 , 98, 2933-42	2.9	7
7	More stable structure of wheat germ lipase at low pH than its native state. <i>Biochimie</i> , 2010 , 92, 885-93	4.6	31
6	Protease inhibitors: a panacea?. <i>Journal of Biochemical and Molecular Toxicology</i> , 2010 , 24, 270-7	3.4	26
5	Ligand binding strategies of human serum albumin: how can the cargo be utilized?. <i>Chirality</i> , 2010 , 22, 77-87	2.1	257
4	Phytolacca americana lectin (Pa-2; pokeweed mitogen): an intrinsically unordered protein and its conversion into partial order at low pH. <i>Bioscience Reports</i> , 2009 , 30, 125-34	4.1	11
3	The minimal structural requirement of concanavalin A that retains its functional aspects. <i>Journal of Biochemistry</i> , 2007 , 142, 307-15	3.1	13
2	Purification and characterization of mannose/glucose-specific lectin from seeds of <i>Trigonella foenumgraecum</i> . <i>Biochemistry (Moscow)</i> , 2007 , 72, 44-8	2.9	7
1	An alternate high yielding purification method for <i>Clitoria ternatea</i> lectin. <i>International Journal of Biological Macromolecules</i> , 2007 , 41, 481-6	7.9	8