

Abolfazl Barzegar

List of Publications by Citations

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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.

57
papers

1,168
citations

20
h-index

32
g-index

58
ext. papers

1,350
ext. citations

4
avg, IF

4.91
L-index

#	Paper	IF	Citations
57	Intracellular ROS protection efficiency and free radical-scavenging activity of curcumin. <i>PLoS ONE</i> , 2011 , 6, e26012	3.7	202
56	Intracellular ROS protection efficiency and free radical-scavenging activity of quercetin and quercetin-encapsulated liposomes. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2016 , 44, 128-34	6.1	68
55	Targeted cancer therapy through 17-DMAG as an Hsp90 inhibitor: Overview and current state of the art. <i>Biomedicine and Pharmacotherapy</i> , 2018 , 102, 608-617	7.5	57
54	The role of electron-transfer and H-atom donation on the superb antioxidant activity and free radical reaction of curcumin. <i>Food Chemistry</i> , 2012 , 135, 1369-76	8.5	54
53	Riboswitches: From living biosensors to novel targets of antibiotics. <i>Gene</i> , 2016 , 592, 244-59	3.8	51
52	Spectroscopic and molecular modeling studies of human serum albumin interaction with propyl gallate. <i>RSC Advances</i> , 2014 , 4, 64559-64564	3.7	50
51	Up regulation of liver-enriched transcription factors HNF4a and HNF6 and liver-specific microRNA (miR-122) by inhibition of let-7b in mesenchymal stem cells. <i>Chemical Biology and Drug Design</i> , 2015 , 85, 268-79	2.9	45
50	Multi-spectroscopic and molecular modeling studies of bovine serum albumin interaction with sodium acetate food additive. <i>Food Chemistry</i> , 2017 , 228, 265-269	8.5	44
49	Spectroscopic studies of the effects of glycation of human serum albumin on L-Trp binding. <i>Protein and Peptide Letters</i> , 2007 , 14, 13-8	1.9	42
48	The effect of dimethyl sulfoxide on hepatic differentiation of mesenchymal stem cells. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2016 , 44, 157-64	6.1	31
47	Chaperone activities of bovine and camel beta-caseins: Importance of their surface hydrophobicity in protection against alcohol dehydrogenase aggregation. <i>International Journal of Biological Macromolecules</i> , 2008 , 42, 392-9	7.9	31
46	17-DMAG-loaded nanofibrous scaffold for effective growth inhibition of lung cancer cells through targeting HSP90 gene expression. <i>Biomedicine and Pharmacotherapy</i> , 2018 , 105, 1026-1032	7.5	28
45	Adhesion of mesenchymal stem cells to biomimetic polymers: A review. <i>Materials Science and Engineering C</i> , 2017 , 71, 1192-1200	8.3	28
44	Surface plasmon resonance and molecular docking studies of bovine serum albumin interaction with neomycin: kinetic and thermodynamic analysis. <i>BiolImpacts</i> , 2017 , 7, 91-97	3.5	27
43	Bovine serum albumin binding study to erlotinib using surface plasmon resonance and molecular docking methods. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018 , 183, 11-15	6.7	27
42	Molecular dynamics simulation of non-covalent single-walled carbon nanotube functionalization with surfactant peptides. <i>Journal of Molecular Graphics and Modelling</i> , 2016 , 64, 75-84	2.8	26
41	Studies of the Relationship between Structure and Antioxidant Activity in Interesting Systems, Including Tyrosol, Hydroxytyrosol Derivatives Indicated by Quantum Chemical Calculations. <i>Soft</i> , 2013 , 02, 13-18		26

40	Harnessing Bioinformatics for Designing a Novel Multiepitope Peptide Vaccine Against Breast Cancer. <i>Current Pharmaceutical Biotechnology</i> , 2016 , 17, 1100-1114	2.6	25
39	Spectroscopic, thermodynamic and molecular docking studies of bovine serum albumin interaction with ascorbyl palmitate food additive. <i>BiolImpacts</i> , 2017 , 7, 241-246	3.5	21
38	Comparative thermostability of mesophilic and thermophilic alcohol dehydrogenases: Stability-determining roles of proline residues and loop conformations. <i>Enzyme and Microbial Technology</i> , 2009 , 45, 73-79	3.8	20
37	Chemometric study of the aggregation of alcohol dehydrogenase and its suppression by beta-caseins: a mechanistic perspective. <i>Analytica Chimica Acta</i> , 2008 , 613, 40-7	6.6	20
36	Antioxidant activity of polyphenolic myricetin in vitro cell- free and cell-based systems. <i>Molecular Biology Research Communications</i> , 2016 , 5, 87-95	1.6	20
35	The role of phenolic OH groups of flavonoid compounds with H-bond formation ability to suppress amyloid mature fibrils by destabilizing β sheet conformation of monomeric A β 17-42. <i>PLoS ONE</i> , 2018 , 13, e0199541	3.7	15
34	Engineering and kinetic stabilization of the therapeutic enzyme Anabeana variabilis phenylalanine ammonia lyase. <i>Applied Biochemistry and Biotechnology</i> , 2013 , 171, 1805-18	3.2	14
33	2D-QSAR study of fullerene nanostructure derivatives as potent HIV-1 protease inhibitors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 93, 324-331	3	14
32	Proton-coupled electron-transfer mechanism for the radical scavenging activity of cardiovascular drug dipyridamole. <i>PLoS ONE</i> , 2012 , 7, e39660	3.7	13
31	The mechanism of antioxidant activity of IRFI005 as a synthetic hydrophilic analogue of vitamin E. <i>Biochimie</i> , 2011 , 93, 1880-8	4.6	12
30	The mechanisms underlying the effect of alpha-cyclodextrin on the aggregation and stability of alcohol dehydrogenase. <i>Biotechnology and Applied Biochemistry</i> , 2008 , 49, 203-11	2.8	12
29	Optimized condition for enhanced soluble-expression of recombinant mutant anabaena variabilis phenylalanine ammonia lyase. <i>Advanced Pharmaceutical Bulletin</i> , 2014 , 4, 261-6	4.5	12
28	Chaperone-like activity of alpha-cyclodextrin via hydrophobic nanocavity to protect native structure of ADH. <i>Carbohydrate Research</i> , 2010 , 345, 243-9	2.9	11
27	Cell sheet biofabrication by co-administration of mesenchymal stem cells secretome and vitamin C on thermoresponsive polymer. <i>Journal of Materials Science: Materials in Medicine</i> , 2018 , 29, 170	4.5	11
26	A systematic investigation on spectroscopic, conformational, and interactional properties of polypeptide/nanomaterial complex: effects of bio-based synthesized maghemite nanocomposites on human serum albumin. <i>Soft Materials</i> , 2020 , 18, 471-486	1.7	10
25	Molecular Dynamics Simulation Study of the HIV-1 Protease Inhibit ion Using Fullerene and New Fullerene Derivatives of Carbon Nanostructures. <i>Mini-Reviews in Medicinal Chemistry</i> , 2017 , 17, 633-647	3.2	10
24	Developing 2D-QSAR models for naphthyridine derivatives against HIV-1 integrase activity. <i>Medicinal Chemistry Research</i> , 2015 , 24, 2485-2504	2.2	9
23	Protective Immunity Against Homologous and Heterologous Influenza Virus Lethal Challenge by Immunization with New Recombinant Chimeric HA2-M2e Fusion Protein in BALB/C Mice. <i>Viral Immunology</i> , 2016 , 29, 228-34	1.7	9

22	Amplification of electrocatalytic oxidation of NADH based on cysteine nanolayers. <i>Journal of Applied Electrochemistry</i> , 2009 , 39, 1111-1116	2.6	8
21	Construction, expression, and activity of a novel immunotoxin comprising a humanized antiepidermal growth factor receptor scFv and modified <i>Pseudomonas aeruginosa</i> exotoxin A. <i>Anti-Cancer Drugs</i> , 2017 , 28, 263-270	2.4	7
20	Quantitative structure-activity relationships study of potent pyridinone scaffold derivatives as HIV-1 integrase inhibitors with therapeutic applications. <i>Journal of Theoretical and Computational Chemistry</i> , 2017 , 16, 1750038	1.8	7
19	Design and development of high affinity dual anticancer peptide-inhibitors against p53-MDM2/X interaction. <i>Life Sciences</i> , 2020 , 245, 117358	6.8	7
18	Generation of New M2e-HA2 Fusion Chimeric Peptide to Development of a Recombinant Fusion Protein Vaccine. <i>Advanced Pharmaceutical Bulletin</i> , 2015 , 5, 673-81	4.5	6
17	ANN QSAR workflow for predicting the inhibition of HIV-1 reverse transcriptase by pyridinone non-nucleoside derivatives. <i>Future Medicinal Chemistry</i> , 2017 , 9, 1175-1191	4.1	4
16	The role of intramolecular H-bonds predominant effects in myricetin higher antioxidant activity. <i>Computational and Theoretical Chemistry</i> , 2017 , 1115, 239-247	2	4
15	New model for polymerization of oligomeric alcohol dehydrogenases into nanoaggregates. <i>Applied Biochemistry and Biotechnology</i> , 2010 , 160, 1188-205	3.2	4
14	Molecular dynamic simulations of nanomechanic chaperone peptide and effects of in silico His mutations on nanostructured function. <i>Journal of Peptide Science</i> , 2008 , 14, 1173-82	2.1	4
13	Evolutionary Origin and Conserved Structural Building Blocks of Riboswitches and Ribosomal RNAs: Riboswitches as Probable Target Sites for Aminoglycosides Interaction. <i>Advanced Pharmaceutical Bulletin</i> , 2014 , 4, 225-35	4.5	4
12	Stepwise sequential analysis of stable multiradicals formation in polyphenolic myricetin active OH groups throughout the antioxidant process to scavenge free radicals. <i>Journal of Molecular Structure</i> , 2017 , 1146, 635-643	3.4	3
11	TPP riboswitch characterization in <i>Alishewanella tabrizica</i> and <i>Alishewanella aestuarii</i> and comparison with other TPP riboswitches. <i>Microbiological Research</i> , 2017 , 195, 71-80	5.3	3
10	Electrochemical Recognition of Metalloproteins by Bromide-modified Silver Electrode - A New Method. <i>International Journal of Molecular Sciences</i> , 2007 , 8, 723-735	6.3	3
9	Development of a new sequential block finding strategy for detection of conserved sequences in riboswitches. <i>BioImpacts</i> , 2018 , 8, 13-22	3.5	3
8	New Developments in Anti-Angiogenic Therapy of Cancer, Review and Update. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2021 , 21, 3-19	2.2	2
7	Structure-based designing efficient peptides based on p53 binding site residues to disrupt p53-MDM2/X interaction. <i>Scientific Reports</i> , 2020 , 10, 11449	4.9	2
6	Classification of Riboswitch Families Using Block Location-Based Feature Extraction (BLBFE) Method. <i>Advanced Pharmaceutical Bulletin</i> , 2020 , 10, 97-105	4.5	1
5	Simulations on the dual effects of flavonoids as suppressors of A β 2 fibrillogenesis and destabilizers of mature fibrils. <i>Scientific Reports</i> , 2020 , 10, 16636	4.9	1

4	Synthesis, Characterization and Fluorescence Properties of Novel Porous Fe/ZnO Nano-Hybrid Assemblies by Using <i>Berberis thunbergii</i> Extract. <i>Journal of Fluorescence</i> , 2021 , 31, 1191-1202	2.4	o
3	Absorption of daunorubicin and etoposide drugs by hydroxylated and carboxylated carbon nanotube for drug delivery: theoretical and experimental studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 1-8	3.6	o
2	Phylogenetic study of SIVcpz MT145 virus based on proteome and genome analysis. <i>Journal of Biomolecular Structure and Dynamics</i> , 2012 , 30, 328-37	3.6	
1	Classification of seed members of five riboswitch families as short sequences based on the features extracted by Block Location-Based Feature Extraction (BLBFE) method. <i>BioImpacts</i> , 2021 , 11, 101-109	3.5	