Abolfazl Barzegar

List of Publications by Year
in descending order

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58 papers	1,563 citations	304602 22 h-index	315616 38 g-index
58 all docs	58 docs citations	58 times ranked	2616 citing authors

#	Article	IF	Citations
1	Intracellular ROS Protection Efficiency and Free Radical-Scavenging Activity of Curcumin. PLoS ONE, 2011, 6, e26012.	1.1	266
2	Intracellular ROS protection efficiency and free radical-scavenging activity of quercetin and quercetin-encapsulated liposomes. Artificial Cells, Nanomedicine and Biotechnology, 2016, 44, 128-134.	1.9	92
3	Targeted cancer therapy through 17-DMAG as an Hsp90 inhibitor: Overview and current state of the art. Biomedicine and Pharmacotherapy, 2018, 102, 608-617.	2.5	82
4	The role of electron-transfer and H-atom donation on the superb antioxidant activity and free radical reaction of curcumin. Food Chemistry, 2012, 135, 1369-1376.	4.2	72
5	Riboswitches: From living biosensors to novel targets of antibiotics. Gene, 2016, 592, 244-259.	1.0	71
6	Spectroscopic and molecular modeling studies of human serum albumin interaction with propyl gallate. RSC Advances, 2014, 4, 64559-64564.	1.7	60
7	Up Regulation of Liverâ€enriched Transcription Factors <scp>HNF</scp>4a and <scp>HNF</scp>6 and Liverâ€Specific Micro<scp>RNA</scp> (miRâ€122) by Inhibition of Letâ€7b in Mesenchymal Stem Cells. Chemical Biology and Drug Design, 2015, 85, 268-279.	1.5	57
8	Multi-spectroscopic and molecular modeling studies of bovine serum albumin interaction with sodium acetate food additive. Food Chemistry, 2017, 228, 265-269.	4.2	56
9	Spectroscopic Studies of the Effects of Glycation of Human Serum Albumin on L-Trp Binding. Protein and Peptide Letters, 2007, 14, 13-18.	0.4	50
10	17-DMAG-loaded nanofibrous scaffold for effective growth inhibition of lung cancer cells through targeting HSP90 gene expression. Biomedicine and Pharmacotherapy, 2018, 105, 1026-1032.	2.5	49
11	The effect of dimethyl sulfoxide on hepatic differentiation of mesenchymal stem cells. Artificial Cells, Nanomedicine and Biotechnology, 2016, 44, 157-164.	1.9	42
12	Bovine serum albumin binding study to erlotinib using surface plasmon resonance and molecular docking methods. Journal of Photochemistry and Photobiology B: Biology, 2018, 183, 11-15.	1.7	39
13	Molecular dynamics simulation of non-covalent single-walled carbon nanotube functionalization with surfactant peptides. Journal of Molecular Graphics and Modelling, 2016, 64, 75-84.	1.3	35
14	Surface plasmon resonance and molecular docking studies of bovine serum albumin interaction with neomycin: kinetic and thermodynamic analysis. BioImpacts, 2017, 7, 91-97.	0.7	35
15	Chaperone activities of bovine and camel Î²-caseins: Importance of their surface hydrophobicity in protection against alcohol dehydrogenase aggregation. International Journal of Biological Macromolecules, 2008, 42, 392-399.	3.6	34
16	Adhesion of mesenchymal stem cells to biomimetic polymers: A review. Materials Science and Engineering C, 2017, 71, 1192-1200.	3.8	31
17	Harnessing Bioinformatics for Designing a Novel Multiepitope Peptide Vaccine Against Breast Cancer. Current Pharmaceutical Biotechnology, 2016, 17, 1100-1114.	0.9	31
18	Spectroscopic, thermodynamic and molecular docking studies of bovine serum albumin interaction with ascorbyl palmitate food additive. BioImpacts, 2017, 7, 241-246.	0.7	30

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19	Antioxidant activity of polyphenolic myricetin in vitro cell- free and cell-based systems. Molecular Biology Research Communications, 2016, 5, 87-95.	0.2	29
20	Studies of the Relationship between Structure and Antioxidant Activity in Interesting Systems, Including Tyrosol, Hydroxytyrosol Derivatives Indicated by Quantum Chemical Calculations. Soft, 2013, 02, 13-18.	0.7	28
21	The role of phenolic OH groups of flavonoid compounds with H-bond formation ability to suppress amyloid mature fibrils by destabilizing Î²-sheet conformation of monomeric AÎ²17-42. PLoS ONE, 2018, 13, e0199541.	1.1	27
22	Comparative thermostability of mesophilic and thermophilic alcohol dehydrogenases: Stability-determining roles of proline residues and loop conformations. Enzyme and Microbial Technology, 2009, 45, 73-79.	1.6	24
23	Chemometric study of the aggregation of alcohol dehydrogenase and its suppression by Î²-caseins: A mechanistic perspective. Analytica Chimica Acta, 2008, 613, 40-47.	2.6	20
24	2D-QSAR study of fullerene nanostructure derivatives as potent HIV-1 protease inhibitors. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 93, 324-331.	1.3	17
25	Engineering and Kinetic Stabilization of the Therapeutic Enzyme Anabeana variabilis Phenylalanine Ammonia Lyase. Applied Biochemistry and Biotechnology, 2013, 171, 1805-1818.	1.4	16
26	Developing 2D-QSAR models for naphthyridine derivatives against HIV-1 integrase activity. Medicinal Chemistry Research, 2015, 24, 2485-2504.	1.1	16
27	Design and development of high affinity dual anticancer peptide-inhibitors against p53-MDM2/X interaction. Life Sciences, 2020, 245, 117358.	2.0	16
28	A systematic investigation on spectroscopic, conformational, and interactional properties of polypeptide/nanomaterial complex: effects of bio-based synthesized maghemite nanocomposites on human serum albumin. Soft Materials, 2020, 18, 471-486.	0.8	15
29	Proton-Coupled Electron-Transfer Mechanism for the Radical Scavenging Activity of Cardiovascular Drug Dipyridamole. PLoS ONE, 2012, 7, e39660.	1.1	15
30	Chaperone-like activity of Î±-cyclodextrin via hydrophobic nanocavity to protect native structure of ADH. Carbohydrate Research, 2010, 345, 243-249.	1.1	14
31	Cell sheet biofabrication by co-administration of mesenchymal stem cells secretome and vitamin C on thermoresponsive polymer. Journal of Materials Science: Materials in Medicine, 2018, 29, 170.	1.7	14
32	The mechanisms underlying the effect of Î±-cyclodextrin on the aggregation and stability of alcohol dehydrogenase. Biotechnology and Applied Biochemistry, 2008, 49, 203.	1.4	13
33	Optimized condition for enhanced soluble-expression of recombinant mutant anabaena variabilis phenylalanine ammonia lyase. Advanced Pharmaceutical Bulletin, 2014, 4, 261-6.	0.6	13
34	The mechanism of antioxidant activity of IRFI005 as a synthetic hydrophilic analogue of vitamin E. Biochimie, 2011, 93, 1880-1888.	1.3	12
35	Quantitative structureâ€“activity relationships study of potent pyridinone scaffold derivatives as HIV-1 integrase inhibitors with therapeutic applications. Journal of Theoretical and Computational Chemistry, 2017, 16, 1750038.	1.8	12
36	Molecular Dynamics Simulation Study of the HIV-1 Protease Inhibit ion Using Fullerene and New Fullerene Derivatives of Carbon Nanostructures. Mini-Reviews in Medicinal Chemistry, 2017, 17, 633-647.	1.1	12

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37	New Developments in Anti-Angiogenic Therapy of Cancer, Review and Update. Anti-Cancer Agents in Medicinal Chemistry, 2020, 21, 3-19.	0.9	12
38	Structure-based designing efficient peptides based on p53 binding site residues to disrupt p53-MDM2/X interaction. Scientific Reports, 2020, 10, 11449.	1.6	10
39	Protective Immunity Against Homologous and Heterologous Influenza Virus Lethal Challenge by Immunization with New Recombinant Chimeric HA2-M2e Fusion Protein in BALB/C Mice. Viral Immunology, 2016, 29, 228-234.	0.6	9
40	Construction, expression, and activity of a novel immunotoxin comprising a humanized antiepidermal growth factor receptor scFv and modified Pseudomonas aeruginosa exotoxin A. Anti-Cancer Drugs, 2017, 28, 263-270.	0.7	9
41	Amplification of electrocatalytic oxidation of NADH based on cysteine nanolayers. Journal of Applied Electrochemistry, 2009, 39, 1111-1116.	1.5	8
42	ANN QSAR workflow for predicting the inhibition of HIV-1 reverse transcriptase by pyridinone non-nucleoside derivatives. Future Medicinal Chemistry, 2017, 9, 1175-1191.	1.1	8
43	Evolutionary Origin and Conserved Structural Building Blocks of Riboswitches and Ribosomal RNAs: Riboswitches as Probable Target Sites for Aminoglycosides Interaction. Advanced Pharmaceutical Bulletin, 2014, 4, 225-35.	0.6	8
44	Simulations on the dual effects of flavonoids as suppressors of Aî²42 fibrillogenesis and destabilizers of mature fibrils. Scientific Reports, 2020, 10, 16636.	1.6	7
45	Absorption of daunorubicin and etoposide drugs by hydroxylated and carboxylated carbon nanotube for drug delivery: theoretical and experimental studies. Journal of Biomolecular Structure and Dynamics, 2022, 40, 10057-10064.	2.0	7
46	Generation of New M2e-HA2 Fusion Chimeric Peptide to Development of a Recombinant Fusion Protein Vaccine. Advanced Pharmaceutical Bulletin, 2015, 5, 673-681.	0.6	7
47	The role of intramolecular H-bonds predominant effects in myricetin higher antioxidant activity. Computational and Theoretical Chemistry, 2017, 1115, 239-247.	1.1	6
48	New Model for Polymerization of Oligomeric Alcohol Dehydrogenases into Nanoaggregates. Applied Biochemistry and Biotechnology, 2010, 160, 1188-1205.	1.4	5
49	Molecular dynamic simulations of nanomechanic chaperone peptide and effects of in silico His mutations on nanostructured function. Journal of Peptide Science, 2008, 14, 1173-1182.	0.8	4
50	TPP riboswitch characterization in Alishewanella tabrizica and Alishewanella aestuarii and comparison with other TPP riboswitches. Microbiological Research, 2017, 195, 71-80.	2.5	4
51	Development of a new sequential block finding strategy for detection of conserved sequences in riboswitches. BioImpacts, 2018, 8, 13-22.	0.7	4
52	Electrochemical Recognition of Metalloproteins by Bromide-modified Silver Electrode - A New Method. International Journal of Molecular Sciences, 2007, 8, 723-735.	1.8	3
53	Stepwise sequential analysis of stable multiradicals formation in polyphenolic myricetin active OH groups throughout the antioxidant process to scavenge free radicals. Journal of Molecular Structure, 2017, 1146, 635-643.	1.8	3
54	Synthesis, Characterization and Fluorescence Properties of Novel Porous Fe/ZnO Nano-Hybrid Assemblies by Using Berberis thunbergii Extract. Journal of Fluorescence, 2021, 31, 1191-1202.	1.3	2

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55	Classification of Riboswitch Families Using Block Location-Based Feature Extraction (BLBFE) Method. Advanced Pharmaceutical Bulletin, 2020, 10, 97-105.	0.6	2
56	Phylogenetic study of SIVcpz MT145 virus based on proteome and genome analysis. Journal of Biomolecular Structure and Dynamics, 2012, 30, 328-337.	2.0	0
57	Classification of seed members of five riboswitch families as short sequences based on the features extracted by Block Location-Based Feature Extraction (BLBFE) method. BioImpacts, 2020, 11, 101-109.	0.7	0
58	Rational Design of Anti-Angiogenic Peptides to Inhibit VEGF/VEGFR2 Interactions for Cancer Therapeutics. Anti-Cancer Agents in Medicinal Chemistry, 2021, 21, .	0.9	0