Abdol-Khalegh Bordbar

List of Publications by Year
in descending order

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89 papers	2,617 citations	159585 30 h-index	214800 47 g-index
89 all docs	89 docs citations	89 times ranked	3692 citing authors

#	Article	IF	Citations
1	Immobilization of cellulase enzyme on superparamagnetic nanoparticles and determination of its activity and stability. Chemical Engineering Journal, 2011, 171, 669-673.	12.7	200
2	Green synthesis of anisotropic silver nanoparticles with potent anticancer activity using Taxus baccata extract. RSC Advances, 2014, 4, 61394-61403.	3.6	114
3	Analysis of Binding Interaction of Curcumin and Diacetylcurcumin with Human and Bovine Serum Albumin Using Fluorescence and Circular Dichroism Spectroscopy. Protein Journal, 2009, 28, 189-196.	1.6	105
4	Gold nanoparticles as potent anticancer agent: green synthesis, characterization, and in vitro study. RSC Advances, 2016, 6, 63973-63983.	3.6	90
5	Characterization of Modified Magnetite Nanoparticles for Albumin Immobilization. Biotechnology Research International, 2014, 2014, 1-6.	1.4	87
6	A combined spectroscopic, molecular docking and molecular dynamic simulation study on the interaction of quercetin with Î²-casein nanoparticles. Journal of Photochemistry and Photobiology B: Biology, 2013, 127, 100-107.	3.8	82
7	Green synthesis of silver nanoparticles using Mentha pulegium and investigation of their antibacterial, antifungal and anticancer activity. IET Nanobiotechnology, 2017, 11, 370-376.	3.8	82
8	Exploring the interaction of naringenin with bovine beta-casein nanoparticles using spectroscopy. Food Hydrocolloids, 2015, 51, 1-6.	10.7	78
9	Electrochemiluminescence detection of human breast cancer cells using aptamer modified bipolar electrode mounted into ï»¿3D printed microchannel. Biosensors and Bioelectronics, 2018, 118, 217-223.	10.1	78
10	Interaction of Curcumin and Diacetylcurcumin with the Lipocalin Member Î²-Lactoglobulin. Protein Journal, 2009, 28, 117-123.	1.6	67
11	Spectroscopic study on the interaction of ct-DNA with manganese Salen complex containing triphenyl phosphonium groups. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 90, 50-54.	3.9	67
12	Xylanase immobilization on modified superparamagnetic graphene oxide nanocomposite: Effect of PEGylation on activity and stability. International Journal of Biological Macromolecules, 2018, 107, 418-425.	7.5	58
13	New generation of drug delivery systems based on ginsenoside Rh2-, Lysine- and Arginine-treated highly porous graphene for improving anticancer activity. Scientific Reports, 2018, 8, 586.	3.3	57
14	Binding and fluorescence study on interaction of human serum albumin (HSA) with cetylpyridinium chloride (CPC). Colloids and Surfaces B: Biointerfaces, 2007, 55, 84-89.	5.0	55
15	Anticancer effects of silver nanoparticles encapsulated by Taxus baccata extracts. Journal of Molecular Liquids, 2016, 223, 549-556.	4.9	53
16	Structureâ€“function relationship of Î²-lactoglobulin in the presence of dodecyltrimethyl ammonium bromide. Colloids and Surfaces B: Biointerfaces, 2010, 75, 268-274.	5.0	50
17	Covalent immobilization of Candida rugosa lipase on a novel functionalized Fe 3 O 4 @SiO 2 dip-coated nanocomposite membrane. Food and Bioproducts Processing, 2016, 100, 351-360.	3.6	46
18	Exploring binding properties of naringenin with bovine Î²-lactoglobulin: A fluorescence, molecular docking and molecular dynamics simulation study. Biophysical Chemistry, 2014, 187-188, 33-42.	2.8	45

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19	Study on interaction of Î±-amylase from Bacillus subtilis with cetyl trimethylammonium bromide. Colloids and Surfaces B: Biointerfaces, 2005, 40, 67-71.	5.0	44
20	Calorimetric studies of the interaction between the insulin-enhancing drug candidate bis(maltolato)oxovanadium(IV) (BMOV) and human serum apo-transferrin. Journal of Inorganic Biochemistry, 2009, 103, 643-647.	3.5	44
21	The immobilization of Candida rugosa lipase on the modified polyethersulfone with MOF nanoparticles as an excellent performance bioreactor membrane. Journal of Biotechnology, 2019, 289, 55-63.	3.8	38
22	Biogenic magnetite nanoparticles: A potent and environmentally benign agent for efficient removal of azo dyes and phenolic contaminants from water. Journal of Hazardous Materials, 2019, 366, 268-274.	12.4	38
23	Novel folic acid-conjugated doxorubicin loaded Î²-lactoglobulin nanoparticles induce apoptosis in breast cancer cells. Biomedicine and Pharmacotherapy, 2018, 107, 945-956.	5.6	37
24	Green synthesis of silver nanoparticles using flower extract of Malva sylvestris and investigation of their antibacterial activity. IET Nanobiotechnology, 2018, 12, 412-416.	3.8	36
25	Doughnut-shaped bovine serum albumin nanoparticles loaded with doxorubicin for overcoming multidrug-resistant in cancer cells. International Journal of Biological Macromolecules, 2018, 107, 1835-1843.	7.5	35
26	Energetics of the interactions of human serum albumin with cationic surfactant. Archives of Biochemistry and Biophysics, 2008, 470, 103-110.	3.0	34
27	Interactions of gemini surfactants with two model proteins: NMR, CD, and fluorescence spectroscopies. Journal of Colloid and Interface Science, 2012, 369, 245-255.	9.4	33
28	Î²-Lactoglobulin Structure and Retinol Binding Changes in Presence of Anionic and Neutral Detergents. Journal of Agricultural and Food Chemistry, 2008, 56, 7528-7534.	5.2	32
29	Interactions of Î²â€lactoglobulin with serotonin and arachidonyl serotonin. Biopolymers, 2011, 95, 871-880.	2.4	31
30	Candida rugosa lipase immobilization on various chemically modified Chromium terephthalate MIL-101. Journal of Molecular Liquids, 2018, 254, 137-144.	4.9	31
31	The performance of immobilized Candida rugosa lipase on various surface modified graphene oxide nanosheets. International Journal of Biological Macromolecules, 2018, 111, 1166-1174.	7.5	30
32	Enzymatic biodiesel production from crude Eruca sativa oil using Candida rugosa lipase in a solvent-free system using response surface methodology. Biofuels, 2020, 11, 93-99.	2.4	30
33	Molecular dynamics simulation study of curcumin interaction with nano-micelle of PNIPAAm-b-PEG co-polymer as a smart efficient drug delivery system. Journal of Molecular Liquids, 2021, 332, 115862.	4.9	30
34	ctDNA binding affinity and in vitro antitumor activity of three Keggin type polyoxotungestates. Journal of Photochemistry and Photobiology B: Biology, 2013, 124, 27-33.	3.8	29
35	The Interactions of a Homologous Series of Cationic Surfactants with Bovine Serum Albumin (BSA) Studied Using Surfactant Membrane Selective Electrodes. Bulletin of the Chemical Society of Japan, 2004, 77, 1111-1116.	3.2	28
36	A combined spectroscopic, docking and molecular dynamics simulation approach to probing binding of a Schiff base complex to human serum albumin. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 103, 11-17.	3.9	28

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37	Interaction of some water-soluble metalloporphyrazines with human serum albumin. Journal of Molecular Structure, 2004, 705, 41-47.	3.6	25
38	Circular dichroism and fluorescence spectroscopic study on the interaction of bisdemethoxycurcumin and diacetylbisdemethoxycurcumin with human serum albumin. Canadian Journal of Chemistry, 2010, 88, 155-163.	1.1	25
39	In vitro antitumor activity of parent and nano-encapsulated mono cobalt-substituted Keggin polyoxotungstate and its ctDNA binding properties. Chemico-Biological Interactions, 2014, 215, 25-32.	4.0	25
40	In vitro antitumor activity of free and nano-encapsulated Na5[PMo10V2O40]Â·nH2O and its binding properties with ctDNA by using combined spectroscopic methods. Journal of Inorganic Biochemistry, 2015, 152, 74-81.	3.5	25
41	Synthesis, characterization, and binding assessment with human serum albumin of three bipyridine lanthanide(III) complexes. Journal of Biomolecular Structure and Dynamics, 2019, 37, 1438-1450.	3.5	25
42	Two phase enzymatic membrane reactor for the production of biodiesel from crude Eruca sativa oil. Renewable Energy, 2019, 140, 104-110.	8.9	22
43	New transition metal complexes of 9,10â€phenanthrenequinone pâ€toluyl hydrazone Schiff base: Synthesis, spectroscopy, DNA and HSA interactions, antimicrobial, DFT and docking studies. Applied Organometallic Chemistry, 2019, 33, e4893.	3.5	21
44	Binding analysis for interaction of diacetylcurcumin with Î²-casein nanoparticles by using fluorescence spectroscopy and molecular docking calculations. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 115, 629-635.	3.9	20
45	Novel approaches to immobilize Candida rugosa lipase on nanocomposite membranes prepared by covalent attachment of magnetic nanoparticles on poly acrylonitrile membrane. RSC Advances, 2018, 8, 4561-4570.	3.6	20
46	The fabrication of a high performance enzymatic hybrid membrane reactor (EHMR) containing immobilized Candida rugosa lipase (CRL) onto graphene oxide nanosheets-blended polyethersulfone membrane. Journal of Membrane Science, 2020, 613, 118435.	8.2	20
47	ctDNA interaction of Co-containing Keggin polyoxomolybdate and in vitro antitumor activity of free and its nano-encapsulated derivatives. Journal of the Iranian Chemical Society, 2016, 13, 1895-1904.	2.2	19
48	Energitics of micellizaion of sodium n-dodecyl sulfate at physiological conditions using isothermal titration calorimetry. Journal of Thermal Analysis and Calorimetry, 2009, 98, 567-575.	3.6	18
49	Gold/silver decorated magnetic nanostructures as theranostic agents: Synthesis, characterization and in-vitro study. Journal of Molecular Liquids, 2017, 247, 238-245.	4.9	18
50	The estimation of the hydrophobic and electrostatic contributions to the free energy change upon cationic surfactants binding to Jack bean urease. Colloids and Surfaces B: Biointerfaces, 2004, 39, 171-175.	5.0	17
51	Binding of cetylpyridinum chloride to glucose oxidase. Colloids and Surfaces B: Biointerfaces, 2006, 53, 288-295.	5.0	16
52	Interaction of a homologous series of n-alkyl trimethyl ammonium bromides with eggwhite lysozyme. Journal of Thermal Analysis and Calorimetry, 2007, 87, 453-456.	3.6	16
53	Interaction of cellulase with cationic surfactants: Using surfactant membrane selective electrodes and fluorescence spectroscopy. Colloids and Surfaces B: Biointerfaces, 2009, 73, 132-139.	5.0	15
54	Piperine derivatives as potential inhibitors of Survivin: An in silico molecular docking. Computers in Biology and Medicine, 2015, 63, 219-227.	7.0	15

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55	Computational and experimental study on the interaction of three novel rare earth complexes containing 2,9-dimethyl-1,10-phenanthroline with human serum albumin. Journal of the Iranian Chemical Society, 2018, 15, 1581-1591.	2.2	15
56	Covalent immobilization of xylanase from Thermomyces lanuginosus on aminated superparamagnetic graphene oxide nanocomposite. Journal of the Iranian Chemical Society, 2019, 16, 21-31.	2.2	15
57	Thermal stability and enzymatic activity of RNase A in the presence of cationic gemini surfactants. International Journal of Biological Macromolecules, 2012, 50, 1151-1157.	7.5	14
58	Detailed chemical characterization and molecular modeling of serotonin inclusion complex with unmodified Î²-cyclodextrin. Heliyon, 2019, 5, e01405.	3.2	14
59	Spectrofluoremetric and molecular docking study on the interaction of bisdemethoxycurcumin with bovine Î²-casein nanoparticles. Journal of Luminescence, 2013, 143, 687-692.	3.1	13
60	Green and Facile Synthesis of Highly Photoluminescent Multicolor Carbon Nanocrystals for Cancer Therapy and Imaging. ACS Applied Bio Materials, 2018, 1, 1458-1467.	4.6	12
61	A Simple Method for Safe Determination of the Activity of Palladium on Activated Carbon Catalysts in the Hydrogenation of Cinnamic Acid to Hydrocinnamic Acid. Industrial & Engineering Chemistry Research, 2020, 59, 1862-1874.	3.7	12
62	Potentiometric Study on Interaction of Dodecyltrimethylammonium Bromide with Î±-Amylase. Bulletin of the Chemical Society of Japan, 2004, 77, 2027-2032.	3.2	10
63	Micellization of Pentanediyl-1,5-bis(hydroxyethylmethyl hexadecylammonium Bromide) as a Cationic Gemini Surfactant in Aqueous Solutions: Investigation Using Conductometry and Fluorescence Techniques. Journal of Solution Chemistry, 2011, 40, 921-928.	1.2	10
64	Multicomponent Synthesis of Diversified Chromeno[3,2-d]oxazoles. ACS Combinatorial Science, 2019, 21, 557-561.	3.8	10
65	Stability of Î²-Lactoglobulin A in the Presence of Sugar Osmolytes Estimated from Their Guanidinium Chloride-Induced Transition Curves. Protein Journal, 2008, 27, 455-460.	1.6	9
66	Gemini Surfactants Affect the Structure, Stability, and Activity of Ribonuclease Sa. Journal of Physical Chemistry B, 2014, 118, 10633-10642.	2.6	9
67	Virtual screening of Piperine analogs as Survivin inhibitors and their molecular interaction analysis by using consensus docking, MD simulation, MMPB/GBSA and alanine scanning techniques. Journal of Biomolecular Structure and Dynamics, 2017, 35, 1824-1832.	3.5	9
68	Comprehensive Physico-Chemical Characterization of a Serotonin Inclusion Complex with 2-Hydroxypropyl-Î²-Cyclodextrin. Journal of Solution Chemistry, 2020, 49, 915-944.	1.2	8
69	Computational design of Tryprostatin-A derivatives as novel Î±Î²-tubulin inhibitors. Journal of Biomolecular Structure and Dynamics, 2015, 33, 471-486.	3.5	7
70	Comparative chemical examination of inclusion complexes formed with Î²-cyclodextrin derivatives and basic amino acids. Carbohydrate Polymers, 2021, 262, 117868.	10.2	7
71	Identification of new 2,5-diketopiperazine derivatives as simultaneous effective inhibitors of Î±Î²-tubulin and BCRP proteins: Molecular docking, Structureâ€'Activity Relationships and virtual consensus docking studies. Journal of Molecular Structure, 2017, 1137, 362-372.	3.6	6
72	Conformational changes and sequence analysis in cellulase from Aspergillus niger with cationic surfactant. Cellulose, 2010, 17, 1213-1225.	4.9	5

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73	Micellar properties of Î²-caseinâ€“cationic surfactant solutions. Monatshefte FÃ¼r Chemie, 2013, 144, 1291-1297.	1.8	5
74	Probing inclusion complexes of 2-hydroxypropyl-Î²-cyclodextrin with mono-amino mono-carboxylic acids: physicochemical specification, characterization and molecular modeling. Heliyon, 2020, 6, e03360.	3.2	5
75	Fabrication of Highâ€Performance Palladium Supported on Activated Charcoal Nanocatalyst for Synthesis of Morphine Opioid Analgesics. ChemistrySelect, 2020, 5, 4278-4284.	1.5	5
76	Probing the physico-chemical, antioxidant and anticancer influence of Î²-lactoglobulin on dietary flavonoid daidzein. Informatics in Medicine Unlocked, 2021, 25, 100643.	3.4	5
77	Inclusion of Levodopa into Î²-Cyclodextrin: A Comprehensive Computational Study. ACS Omega, 2021, 6, 23814-23825.	3.5	4
78	Towards the Safe and Simple Production of Hydrocinnamic Acid by Highâ€Performance Palladium on Charcoal Nanocatalyst and Modeling the Nanocatalyst Fabrication Method. ChemistrySelect, 2020, 5, 2354-2364.	1.5	4
79	Thermal denaturation of pepsin at acidic media: Using DSC, MALDI-TOF MS and PAGE techniques. Thermochimica Acta, 2013, 568, 165-170.	2.7	3
80	Isothermal titration calorimetric study on the interaction of apo-human transferrin with sodium n-dodecyl sulfate. Journal of Thermal Analysis and Calorimetry, 2014, 115, 2123-2127.	3.6	3
81	Binding assessment of two arachidonic-based synthetic derivatives of adrenalin with Î²-lactoglobulin: Molecular modeling and chemometrics approach. Biophysical Chemistry, 2015, 207, 97-106.	2.8	3
82	Spectroscopic and molecular modeling probing of biophysical influence of Î²-casein nano-protein on adrenaline and arachidonoyl adrenaline. Monatshefte FÃ¼r Chemie, 2018, 149, 185-196.	1.8	3
83	Spectroscopic and dynamic properties of arachidonoyl serotonin- Î²-lactoglobulin complex: A molecular modeling and chemometric study. Journal of Photochemistry and Photobiology B: Biology, 2016, 162, 519-528.	3.8	2
84	Thermal stability of pepsin: A predictive thermodynamic model of a multi-domain protein. Biochemistry and Biophysics Reports, 2017, 9, 295-301.	1.3	2
85	An enzymatic performance for a new swift magnetically detachable bio-conjugate of Candida rugosa lipase with modified Fe3O4â€“graphene oxide nanocomposite. Journal of the Iranian Chemical Society, 2020, 17, 367-382.	2.2	2
86	The influences of cholesterol and AC0107 inhibitor molecules on the amyloid-beta fibrils aggregation in cell membranes: molecular modeling approach. European Physical Journal Plus, 2022, 137, 1.	2.6	2
87	Analysis of ligand binding curves on basis of mean intrinsic thermodynamic quantities. International Journal of Biological Macromolecules, 2007, 40, 367-373.	7.5	0
88	Isolation of HLA-G⁺ cells using MEM-G/9 antibody-conjugated magnetic nanoparticles for prenatal screening: a reliable, fast and efficient method. RSC Advances, 2021, 11, 30990-31001.	3.6	0
89	Analysis of oxygen binding by hemoglobin on the basis of mean intrinsic thermodynamic quantities. Acta Biochimica Polonica, 2006, 53, 563-8.	0.5	0