

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	The influences of cholesterol and AC0107 inhibitor molecules on the amyloid-beta fibrils aggregation in cell membranes: molecular modeling approach. <i>European Physical Journal Plus</i> , 2022, 137, 1.	2.6	2
2	Isolation of HLA-G ⁺ cells using MEM-G/9 antibody-conjugated magnetic nanoparticles for prenatal screening: a reliable, fast and efficient method. <i>RSC Advances</i> , 2021, 11, 30990-31001.	3.6	0
3	Comparative chemical examination of inclusion complexes formed with β -cyclodextrin derivatives and basic amino acids. <i>Carbohydrate Polymers</i> , 2021, 262, 117868.	10.2	7
4	Molecular dynamics simulation study of curcumin interaction with nano-micelle of PNIPAAm-b-PEG co-polymer as a smart efficient drug delivery system. <i>Journal of Molecular Liquids</i> , 2021, 332, 115862.	4.9	30
5	Inclusion of Levodopa into β -Cyclodextrin: A Comprehensive Computational Study. <i>ACS Omega</i> , 2021, 6, 23814-23825.	3.5	4
6	Probing the physico-chemical, antioxidant and anticancer influence of β -lactoglobulin on dietary flavonoid daidzein. <i>Informatics in Medicine Unlocked</i> , 2021, 25, 100643.	3.4	5
7	Enzymatic biodiesel production from crude <i>Eruca sativa</i> oil using <i>Candida rugosa</i> lipase in a solvent-free system using response surface methodology. <i>Biofuels</i> , 2020, 11, 93-99.	2.4	30
8	An enzymatic performance for a new swift magnetically detachable bio-conjugate of <i>Candida rugosa</i> lipase with modified Fe ₃ O ₄ @graphene oxide nanocomposite. <i>Journal of the Iranian Chemical Society</i> , 2020, 17, 367-382.	2.2	2
9	A Simple Method for Safe Determination of the Activity of Palladium on Activated Carbon Catalysts in the Hydrogenation of Cinnamic Acid to Hydrocinnamic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 1862-1874.	3.7	12
10	Comprehensive Physico-Chemical Characterization of a Serotonin Inclusion Complex with 2-Hydroxypropyl- β -Cyclodextrin. <i>Journal of Solution Chemistry</i> , 2020, 49, 915-944.	1.2	8
11	Probing inclusion complexes of 2-hydroxypropyl- β -cyclodextrin with mono-amino mono-carboxylic acids: physicochemical specification, characterization and molecular modeling. <i>Heliyon</i> , 2020, 6, e03360.	3.2	5
12	Fabrication of High-Performance Palladium Supported on Activated Charcoal Nanocatalyst for Synthesis of Morphine Opioid Analgesics. <i>ChemistrySelect</i> , 2020, 5, 4278-4284.	1.5	5
13	Towards the Safe and Simple Production of Hydrocinnamic Acid by High-Performance Palladium on Charcoal Nanocatalyst and Modeling the Nanocatalyst Fabrication Method. <i>ChemistrySelect</i> , 2020, 5, 2354-2364.	1.5	4
14	The fabrication of a high performance enzymatic hybrid membrane reactor (EHMR) containing immobilized <i>Candida rugosa</i> lipase (CRL) onto graphene oxide nanosheets-blended polyethersulfone membrane. <i>Journal of Membrane Science</i> , 2020, 613, 118435.	8.2	20
15	Synthesis, characterization, and binding assessment with human serum albumin of three bipyridine lanthanide(III) complexes. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 1438-1450.	3.5	25
16	Multicomponent Synthesis of Diversified Chromeno[3,2- <i>d</i>]oxazoles. <i>ACS Combinatorial Science</i> , 2019, 21, 557-561.	3.8	10
17	New transition metal complexes of 9,10-phenanthrenequinone β -toluyl hydrazone Schiff base: Synthesis, spectroscopy, DNA and HSA interactions, antimicrobial, DFT and docking studies. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4893.	3.5	21
18	Detailed chemical characterization and molecular modeling of serotonin inclusion complex with unmodified β -cyclodextrin. <i>Heliyon</i> , 2019, 5, e01405.	3.2	14

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19	Two phase enzymatic membrane reactor for the production of biodiesel from crude <i>Eruca sativa</i> oil. <i>Renewable Energy</i> , 2019, 140, 104-110.	8.9	22
20	Covalent immobilization of xylanase from <i>Thermomyces lanuginosus</i> on aminated superparamagnetic graphene oxide nanocomposite. <i>Journal of the Iranian Chemical Society</i> , 2019, 16, 21-31.	2.2	15
21	The immobilization of <i>Candida rugosa</i> lipase on the modified polyethersulfone with MOF nanoparticles as an excellent performance bioreactor membrane. <i>Journal of Biotechnology</i> , 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. <i>Journal of Hazardous Materials</i> , 2019, 366, 268-274.	12.4	38
23	The performance of immobilized <i>Candida rugosa</i> lipase on various surface modified graphene oxide nanosheets. <i>International Journal of Biological Macromolecules</i> , 2018, 111, 1166-1174.	7.5	30
24	Computational and experimental study on the interaction of three novel rare earth complexes containing 2,9-dimethyl-1,10-phenanthroline with human serum albumin. <i>Journal of the Iranian Chemical Society</i> , 2018, 15, 1581-1591.	2.2	15
25	<i>Candida rugosa</i> lipase immobilization on various chemically modified Chromium terephthalate MIL-101. <i>Journal of Molecular Liquids</i> , 2018, 254, 137-144.	4.9	31
26	Novel approaches to immobilize <i>Candida rugosa</i> lipase on nanocomposite membranes prepared by covalent attachment of magnetic nanoparticles on poly acrylonitrile membrane. <i>RSC Advances</i> , 2018, 8, 4561-4570.	3.6	20
27	New generation of drug delivery systems based on ginsenoside Rh2-, Lysine- and Arginine-treated highly porous graphene for improving anticancer activity. <i>Scientific Reports</i> , 2018, 8, 586.	3.3	57
28	Doughnut-shaped bovine serum albumin nanoparticles loaded with doxorubicin for overcoming multidrug-resistant in cancer cells. <i>International Journal of Biological Macromolecules</i> , 2018, 107, 1835-1843.	7.5	35
29	Xylanase immobilization on modified superparamagnetic graphene oxide nanocomposite: Effect of PEGylation on activity and stability. <i>International Journal of Biological Macromolecules</i> , 2018, 107, 418-425.	7.5	58
30	Spectroscopic and molecular modeling probing of biophysical influence of β -casein nano-protein on adrenaline and arachidonoyl adrenaline. <i>Monatshefte für Chemie</i> , 2018, 149, 185-196.	1.8	3
31	Green and Facile Synthesis of Highly Photoluminescent Multicolor Carbon Nanocrystals for Cancer Therapy and Imaging. <i>ACS Applied Bio Materials</i> , 2018, 1, 1458-1467.	4.6	12
32	Novel folic acid-conjugated doxorubicin loaded β -lactoglobulin nanoparticles induce apoptosis in breast cancer cells. <i>Biomedicine and Pharmacotherapy</i> , 2018, 107, 945-956.	5.6	37
33	Electrochemiluminescence detection of human breast cancer cells using aptamer modified bipolar electrode mounted into 3D printed microchannel. <i>Biosensors and Bioelectronics</i> , 2018, 118, 217-223.	10.1	78
34	Green synthesis of silver nanoparticles using flower extract of <i>Malva sylvestris</i> and investigation of their antibacterial activity. <i>IET Nanobiotechnology</i> , 2018, 12, 412-416.	3.8	36
35	Identification of new 2,5-diketopiperazine derivatives as simultaneous effective inhibitors of β -tubulin and BCRP proteins: Molecular docking, Structure-Activity Relationships and virtual consensus docking studies. <i>Journal of Molecular Structure</i> , 2017, 1137, 362-372.	3.6	6
36	Thermal stability of pepsin: A predictive thermodynamic model of a multi-domain protein. <i>Biochemistry and Biophysics Reports</i> , 2017, 9, 295-301.	1.3	2

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37	Gold/silver decorated magnetic nanostructures as theranostic agents: Synthesis, characterization and in-vitro study. <i>Journal of Molecular Liquids</i> , 2017, 247, 238-245.	4.9	18
38	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. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 1824-1832.	3.5	9
39	Green synthesis of silver nanoparticles using <i>Mentha pulegium</i> and investigation of their antibacterial, antifungal and anticancer activity. <i>IET Nanobiotechnology</i> , 2017, 11, 370-376.	3.8	82
40	Covalent immobilization of <i>Candida rugosa</i> lipase on a novel functionalized Fe ₃ O ₄ @SiO ₂ dip-coated nanocomposite membrane. <i>Food and Bioproducts Processing</i> , 2016, 100, 351-360.	3.6	46
41	Anticancer effects of silver nanoparticles encapsulated by <i>Taxus baccata</i> extracts. <i>Journal of Molecular Liquids</i> , 2016, 223, 549-556.	4.9	53
42	Spectroscopic and dynamic properties of arachidonoyl serotonin- β -lactoglobulin complex: A molecular modeling and chemometric study. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 162, 519-528.	3.8	2
43	ctDNA interaction of Co-containing Keggin polyoxomolybdate and in vitro antitumor activity of free and its nano-encapsulated derivatives. <i>Journal of the Iranian Chemical Society</i> , 2016, 13, 1895-1904.	2.2	19
44	Gold nanoparticles as potent anticancer agent: green synthesis, characterization, and in vitro study. <i>RSC Advances</i> , 2016, 6, 63973-63983.	3.6	90
45	Piperine derivatives as potential inhibitors of Survivin: An in silico molecular docking. <i>Computers in Biology and Medicine</i> , 2015, 63, 219-227.	7.0	15
46	Exploring the interaction of naringenin with bovine beta-casein nanoparticles using spectroscopy. <i>Food Hydrocolloids</i> , 2015, 51, 1-6.	10.7	78
47	In vitro antitumor activity of free and nano-encapsulated Na ₅ [PMo ₁₀ V ₂ O ₄₀]·nH ₂ O and its binding properties with ctDNA by using combined spectroscopic methods. <i>Journal of Inorganic Biochemistry</i> , 2015, 152, 74-81.	3.5	25
48	Binding assessment of two arachidonic-based synthetic derivatives of adrenalin with β -lactoglobulin: Molecular modeling and chemometrics approach. <i>Biophysical Chemistry</i> , 2015, 207, 97-106.	2.8	3
49	Computational design of Tryprostatin-A derivatives as novel β -tubulin inhibitors. <i>Journal of Biomolecular Structure and Dynamics</i> , 2015, 33, 471-486.	3.5	7
50	Characterization of Modified Magnetite Nanoparticles for Albumin Immobilization. <i>Biotechnology Research International</i> , 2014, 2014, 1-6.	1.4	87
51	Isothermal titration calorimetric study on the interaction of apo-human transferrin with sodium n-dodecyl sulfate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 115, 2123-2127.	3.6	3
52	Exploring binding properties of naringenin with bovine β -lactoglobulin: A fluorescence, molecular docking and molecular dynamics simulation study. <i>Biophysical Chemistry</i> , 2014, 187-188, 33-42.	2.8	45
53	Green synthesis of anisotropic silver nanoparticles with potent anticancer activity using <i>Taxus baccata</i> extract. <i>RSC Advances</i> , 2014, 4, 61394-61403.	3.6	114
54	Gemini Surfactants Affect the Structure, Stability, and Activity of Ribonuclease Sa. <i>Journal of Physical Chemistry B</i> , 2014, 118, 10633-10642.	2.6	9

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55	In vitro antitumor activity of parent and nano-encapsulated mono cobalt-substituted Keggin polyoxotungstate and its ctDNA binding properties. <i>Chemico-Biological Interactions</i> , 2014, 215, 25-32.	4.0	25
56	Micellar properties of β -casein cationic surfactant solutions. <i>Monatshefte für Chemie</i> , 2013, 144, 1291-1297.	1.8	5
57	A combined spectroscopic, molecular docking and molecular dynamic simulation study on the interaction of quercetin with β -casein nanoparticles. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013, 127, 100-107.	3.8	82
58	Binding analysis for interaction of diacetylcurcumin with β -casein nanoparticles by using fluorescence spectroscopy and molecular docking calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 115, 629-635.	3.9	20
59	A combined spectroscopic, docking and molecular dynamics simulation approach to probing binding of a Schiff base complex to human serum albumin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 103, 11-17.	3.9	28
60	Thermal denaturation of pepsin at acidic media: Using DSC, MALDI-TOF MS and PAGE techniques. <i>Thermochimica Acta</i> , 2013, 568, 165-170.	2.7	3
61	Spectrofluoremetric and molecular docking study on the interaction of bisdemethoxycurcumin with bovine β -casein nanoparticles. <i>Journal of Luminescence</i> , 2013, 143, 687-692.	3.1	13
62	ctDNA binding affinity and in vitro antitumor activity of three Keggin type polyoxotungstates. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013, 124, 27-33.	3.8	29
63	Thermal stability and enzymatic activity of RNase A in the presence of cationic gemini surfactants. <i>International Journal of Biological Macromolecules</i> , 2012, 50, 1151-1157.	7.5	14
64	Interactions of gemini surfactants with two model proteins: NMR, CD, and fluorescence spectroscopies. <i>Journal of Colloid and Interface Science</i> , 2012, 369, 245-255.	9.4	33
65	Spectroscopic study on the interaction of ct-DNA with manganese Salen complex containing triphenyl phosphonium groups. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 90, 50-54.	3.9	67
66	Micellization of Pentanediyl-1,5-bis(hydroxyethylmethyl hexadecylammonium Bromide) as a Cationic Gemini Surfactant in Aqueous Solutions: Investigation Using Conductometry and Fluorescence Techniques. <i>Journal of Solution Chemistry</i> , 2011, 40, 921-928.	1.2	10
67	Interactions of β -lactoglobulin with serotonin and arachidonyl serotonin. <i>Biopolymers</i> , 2011, 95, 871-880.	2.4	31
68	Immobilization of cellulase enzyme on superparamagnetic nanoparticles and determination of its activity and stability. <i>Chemical Engineering Journal</i> , 2011, 171, 669-673.	12.7	200
69	Conformational changes and sequence analysis in cellulase from <i>Aspergillus niger</i> with cationic surfactant. <i>Cellulose</i> , 2010, 17, 1213-1225.	4.9	5
70	Structure-function relationship of β -lactoglobulin in the presence of dodecyltrimethyl ammonium bromide. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 75, 268-274.	5.0	50
71	Circular dichroism and fluorescence spectroscopic study on the interaction of bisdemethoxycurcumin and diacetyl-bisdemethoxycurcumin with human serum albumin. <i>Canadian Journal of Chemistry</i> , 2010, 88, 155-163.	1.1	25
72	Energetics of micellization of sodium n-dodecyl sulfate at physiological conditions using isothermal titration calorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 98, 567-575.	3.6	18

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73	Interaction of Curcumin and Diacetylcurcumin with the Lipocalin Member β_2 -Lactoglobulin. Protein Journal, 2009, 28, 117-123.	1.6	67
74	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
75	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
76	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
77	Stability of β_2 -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
78	β_2 -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
79	Energetics of the interactions of human serum albumin with cationic surfactant. Archives of Biochemistry and Biophysics, 2008, 470, 103-110.	3.0	34
80	Analysis of ligand binding curves on basis of mean intrinsic thermodynamic quantities. International Journal of Biological Macromolecules, 2007, 40, 367-373.	7.5	0
81	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
82	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
83	Binding of cetylpyridinium chloride to glucose oxidase. Colloids and Surfaces B: Biointerfaces, 2006, 53, 288-295.	5.0	16
84	Analysis of oxygen binding by hemoglobin on the basis of mean intrinsic thermodynamic quantities. Acta Biochimica Polonica, 2006, 53, 563-8.	0.5	0
85	Study on interaction of β -amylase from Bacillus subtilis with cetyl trimethylammonium bromide. Colloids and Surfaces B: Biointerfaces, 2005, 40, 67-71.	5.0	44
86	Interaction of some water-soluble metalloporphyrazines with human serum albumin. Journal of Molecular Structure, 2004, 705, 41-47.	3.6	25
87	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
88	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
89	Potentiometric Study on Interaction of Dodecyltrimethylammonium Bromide with β -Amylase. Bulletin of the Chemical Society of Japan, 2004, 77, 2027-2032.	3.2	10