Faramarz Mehrnejad

List of Publications by Year
in descending order

62	895	393982	525886
papers	citations	19 h-index	27 g-index

64	64	64	1373
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The process of L-asparaginase encapsulation by poly (lactic-co-glycolic acid) and methoxy poly (ethylene glycol): A molecular dynamics simulation study. Materials Today Communications, 2022, 31, 103435.	0.9	1
2	Human serum albumin adsorption on cellulose nanocrystal: A spectroscopy and molecular dynamics simulation research. Applied Surface Science, 2022, 597, 153749.	3.1	2
3	Molecular insights into the crystalline nanocellulose and human lysozyme interactions: An experimental and theoretical research. International Journal of Biological Macromolecules, 2022, 213, 83-95.	3.6	2
4	Atomistic insight into the luminal allosteric regulation of vesicular glutamate transporter 2 by chloride and protons: An <scp>allâ€atom</scp> molecular dynamics simulation study. Proteins: Structure, Function and Bioinformatics, 2022, 90, 2045-2057.	1.5	2
5	Effect of the Met148Leu mutation on the structure and dynamics of the rusticyanin protein from Acidithiobacillus sp. FJ2. Journal of Biomolecular Structure and Dynamics, 2021, 39, 4122-4132.	2.0	3
6	Refinement of coding SNPs in the human aryl hydrocarbon receptor gene using ISNPranker: An integrative-SNP ranking web-tool. Computational Biology and Chemistry, 2021, 90, 107416.	1.1	2
7	Insight into the Microcosm of the Human Growth Hormone and Its Interactions with Polymers and Copolymers: A Molecular Dynamics Perspective. Langmuir, 2021, 37, 90-104.	1.6	1
8	Effect of the lipid composition and cholesterol on the membrane selectivity of low generations PAMAM dendrimers: A molecular dynamics simulation study. Applied Surface Science, 2021, 540, 148274.	3.1	7
9	Molecular Insights into Pore Formation Mechanism, Membrane Perturbation, and Water Permeation by the Antimicrobial Peptide Pleurocidin: A Combined All-Atom and Coarse-Grained Molecular Dynamics Simulation Study. Journal of Physical Chemistry B, 2021, 125, 7163-7176.	1.2	14
10	Molecular modeling prediction of albumin-based nanoparticles and experimental preparation, characterization, and in-vitro release kinetics of prednisolone from the nanoparticles. Journal of Drug Delivery Science and Technology, 2021, 64, 102588.	1.4	6
11	Design and synthesis of polyacrylic acid/deoxycholic acid-modified chitosan copolymer and a close inspection of human growth hormone-copolymer interactions: An experimental and computational study. Colloids and Surfaces B: Biointerfaces, 2021, 206, 111956.	2.5	4
12	Insights into the Molecular-Level details of betaine interactions with Laccase under various thermal conditions. Journal of Molecular Liquids, 2021, 339, 116832.	2.3	6
13	Encapsulation of an endostatin peptide in liposomes: Stability, release, and cytotoxicity study. Colloids and Surfaces B: Biointerfaces, 2020, 185, 110552.	2.5	33
14	Compatibilization of clays and hydrophobic polymers: the case of montmorillonite and polyetheretherketone. Polymer Bulletin, 2020, 77, 5505-5527.	1.7	5
15	Molecular level insight into stability, activity, and structure of Laccase in aqueous ionic liquid and organic solvents: An experimental and computational research. Journal of Molecular Liquids, 2020, 317, 113925.	2.3	13
16	Molecular Insight into the Interaction between Camptothecin and Acyclic Cucurbit[4]urils as Efficient Nanocontainers in Comparison with Cucurbit[7]uril: Molecular Docking and Molecular Dynamics Simulation. Journal of Chemical Information and Modeling, 2020, 60, 1791-1803.	2.5	10
17	Structural Studies on an Anti-Angiogenic Peptide Using Molecular Modeling. Iranian Journal of Biotechnology, 2020, 18, e2553.	0.3	0
18	Effects of single-walled carbon nanotube on the conformation of human hepcidin: molecular dynamics simulation and binding free energy calculations. Journal of Biomolecular Structure and Dynamics, 2019, 37, 2125-2132.	2.0	3

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19	Molecular Basis for Membrane Selectivity of Antimicrobial Peptide Pleurocidin in the Presence of Different Eukaryotic and Prokaryotic Model Membranes. Journal of Chemical Information and Modeling, 2019, 59, 3262-3276.	2.5	22
20	A cyclic peptide reproducing the Î±1 helix of VEGF-B binds to VEGFR-1 and VEGFR-2 and inhibits angiogenesis and tumor growth. Biochemical Journal, 2019, 476, 645-663.	1.7	26
21	Paclitaxel interaction with cucurbit [7]uril and acyclic Cucurbit[4]uril nanocontainers: A computational approach. Journal of Molecular Graphics and Modelling, 2019, 90, 210-218.	1.3	3
22	The role of intermolecular interactions on the encapsulation of human insulin into the chitosan and cholesterol-grafted chitosan polymers. Carbohydrate Polymers, 2019, 208, 345-355.	5.1	17
23	Molecular Self-Assembly Strategy for Encapsulation of an Amphipathic Î±-Helical Antimicrobial Peptide into the Different Polymeric and Copolymeric Nanoparticles. Journal of Chemical Information and Modeling, 2019, 59, 550-563.	2.5	26
24	Computational insights into pHâ€dependence of structure and dynamics of pyrazinamidase: A comparison of wild type and mutants. Journal of Cellular Biochemistry, 2019, 120, 2502-2514.	1.2	3
25	The Molecular Basis of the Sodium Dodecyl Sulfate Effect on Human Ubiquitin Structure: A Molecular Dynamics Simulation Study. Scientific Reports, 2018, 8, 2150.	1.6	37
26	Protein adsorption onto polysaccharides: Comparison of chitosan and chitin polymers. Carbohydrate Polymers, 2018, 191, 191-197.	5.1	36
27	Understanding the interactions of human follicle stimulating hormone with single-walled carbon nanotubes by molecular dynamics simulation and free energy analysis. European Biophysics Journal, 2018, 47, 49-57.	1.2	6
28	The combinatorial effects of osmolytes and alcohols on the stability of pyrazinamidase: Methanol affects the enzyme stability through hydrophobic interactions and hydrogen bonds. International Journal of Biological Macromolecules, 2018, 108, 1339-1347.	3.6	19
29	Ig-like Domain in Endoglucanase Cel9A from Alicyclobacillus acidocaldarius Makes Dependent the Enzyme Stability on Calcium. Molecular Biotechnology, 2018, 60, 698-711.	1.3	6
30	The potential impact of carboxylic-functionalized multi-walled carbon nanotubes on trypsin: A Comprehensive spectroscopic and molecular dynamics simulation study. PLoS ONE, 2018, 13, e0198519.	1.1	19
31	Molecular insights into the interactions of GFâ€17 with the gramâ€negative and gramâ€positive bacterial lipid bilayers. Journal of Cellular Biochemistry, 2018, 119, 9205-9216.	1.2	11
32	Insight to the molecular mechanisms of the osmolyte effects on Mycobacterium tuberculosis pyrazinamidase stability using experimental studies, molecular dynamics simulations, and free energy calculation. International Journal of Mycobacteriology, 2018, 7, 268.	0.3	8
33	Effects of metal-ion replacement on pyrazinamidase activity: A quantum mechanical study. Journal of Molecular Graphics and Modelling, 2017, 73, 24-29.	1.3	5
34	Chitosan nanoparticles-trypsin interactions: Bio-physicochemical and molecular dynamics simulation studies. International Journal of Biological Macromolecules, 2017, 103, 902-909.	3.6	22
35	Efficient megalin targeted delivery to renal proximal tubular cells mediated by modified-polymyxin B-polyethylenimine based nano-gene-carriers. Materials Science and Engineering C, 2017, 79, 770-782.	3.8	42
36	Identification of the Crucial Residues in the Early Insertion of Pardaxin into Different Phospholipid Bilayers. Journal of Chemical Information and Modeling, 2017, 57, 929-941.	2.5	13

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37	Aryl hydrocarbon receptor gene transitions (c.-742C>T; c.1661G>A) and idiopathic male infertility: a case-control study with in silico and meta-analysis. Environmental Science and Pollution Research, 2017, 24, 20599-20615.	2.7	6
38	Follicle-stimulating hormone encapsulation in the cholesterol-modified chitosan nanoparticles via molecular dynamics simulations and binding free energy calculations. European Journal of Pharmaceutical Sciences, 2017, 107, 126-137.	1.9	25
39	A computational study of the electronic structure and the chemical activity of curcumin and some novel curcuminoids by density functional theory. Journal of the Iranian Chemical Society, 2017, 14, 357-364.	1.2	4
40	Insight into the interactions, residue snorkeling, and membrane disordering potency of a single antimicrobial peptide into different lipid bilayers. PLoS ONE, 2017, 12, e0187216.	1.1	27
41	The antiangiogenic and antitumor activities of the N-terminal fragment of endostatin augmented by Ile/Arg substitution: The overall structure implicated the biological activity. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 1765-1774.	1.1	9
42	Effects of sorbitol and glycerol on the structure, dynamics, and stability of Mycobacterium tuberculosis pyrazinamidase. International Journal of Mycobacteriology, 2016, 5, S138-S139.	0.3	3
43	Effect of sorbitol and glycerol on the stability of trypsin and difference between their stabilization effects in the various solvents. Biotechnology and Applied Biochemistry, 2016, 63, 206-213.	1.4	33
44	An in silico approach to investigate the source of the controversial interpretations about the phenotypic results of the human AhR-gene G1661A polymorphism. Journal of Theoretical Biology, 2016, 393, 1-15.	0.8	29
45	HYNIC a bifunctional prosthetic group for the labelling of peptides with 99mTc and 18FDG. Journal of Radioanalytical and Nuclear Chemistry, 2016, 307, 1125-1134.	0.7	12
46	Molecular Insight into Human Lysozyme and Its Ability to Form Amyloid Fibrils in High Concentrations of Sodium Dodecyl Sulfate: A View from Molecular Dynamics Simulations. PLoS ONE, 2016, 11, e0165213.	1.1	35
47	Synthesis, Radiolabeling, and Biological Evaluation of Peptide LIKKPF Functionalized with HYNIC as Apoptosis Imaging Agent. Iranian Journal of Pharmaceutical Research, 2016, 15, 415-24.	0.3	4
48	Structural and Dynamical Study of Bovine Carbonic Anhydrase II in the Presence of Substrate: An Essential Dynamics and Molecular Dynamics Simulation Study. Biophysical Journal, 2015, 108, 316a.	0.2	0
49	Biochemical Characterization and Computational Identification of Mycobacterium tuberculosis Pyrazinamidase in Some Pyrazinamide-Resistant Isolates of Iran. Protein Journal, 2015, 34, 181-192.	0.7	6
50	Molecular Interactions in the Systems Composed of Curcumin, Water and Single-Walled Carbon Nanotube: A Molecular Dynamics Simulation Study. Journal of Computational and Theoretical Nanoscience, 2015, 12, 2077-2083.	0.4	6
51	Study of Orientation and Penetration of LAH4 into Lipid Bilayer Membranes: pH and Composition Dependence. Chemical Biology and Drug Design, 2014, 84, 242-252.	1.5	10
52	Salinity Tolerance Ranking Of Various Wheat Landraces From The West Of The Urmia Saline Lake In Iran By Using Physiological Parameters. Journal of Plant Nutrition, 2014, 37, 1025-1039.	0.9	3
53	Interaction of Piscidin-1 with zwitterionic versus anionic membranes: a comparative molecular dynamics study. Journal of Biomolecular Structure and Dynamics, 2013, 31, 1393-1403.	2.0	13
54	A New Efficient Protocol for Directed Differentiation of Retinal Pigmented Epithelial Cells from Normal and Retinal Disease Induced Pluripotent Stem Cells. Stem Cells and Development, 2012, 21, 2262-2272.	1.1	64

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55	Role of Hydrophobic Forces and Backbone Hydrogen Bonding on Helical Stability of Peptide Encapsulated Into Single Wall Carbon Nanotubes. Journal of Computational and Theoretical Nanoscience, 2012, 9, 783-788.	0.4	2
56	Effects of osmolytes on the helical conformation of model peptide: Molecular dynamics simulation. Journal of Chemical Physics, 2011, 134, 035104.	1.2	27
57	Mechanisms of amphipathic helical peptide denaturation by guanidinium chloride and urea: a molecular dynamics simulation study. Journal of Computer-Aided Molecular Design, 2010, 24, 829-841.	1.3	23
58	Structural studies of SNARE complex and its interaction with complexin by molecular dynamics simulation. Biopolymers, 2010, 93, NA-NA.	1.2	6
59	Molecular Dynamics Simulation Study of the Interaction of Piscidin 1 with DPPC Bilayers: Structure-Activity Relationship. Journal of Biomolecular Structure and Dynamics, 2010, 27, 551-559.	2.0	35
60	PCR-based Gene Synthesis, Molecular Cloning, High Level Expression, Purification, and Characterization of Novel Antimicrobial Peptide, Brevinin-2R, in Escherichia Coli. Applied Biochemistry and Biotechnology, 2008, 149, 109-118.	1.4	27
61	Structural and Dynamical Studies of Humanin in Water and TFE/Water Mixture: A Molecular Dynamics Simulation. Journal of Biomolecular Structure and Dynamics, 2008, 26, 255-262.	2.0	26
62	The structural properties of magainin in water, TFE/water, and aqueous urea solutions: Molecular dynamics simulations. Proteins: Structure, Function and Bioinformatics, 2007, 67, 931-940.	1.5	24