Faramarz Mehrnejad

List of Publications by Citations

60 papers	629 citations	16 h-index	21 g-index
63 ext. papers	760 ext. citations	4 avg, IF	4.35 L-index

#	Paper	IF	Citations
60	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, 2262-72	4.4	57
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, 551-60	3.6	34
58	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	8.3	27
57	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, 206-13	2.8	26
56	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, 109-18	3.2	26
55	Structural and dynamical studies of Humanin in water and TFE/water mixture: a molecular dynamics simulation. *Journal of Biomolecular Structure and Dynamics*, **2008**, 26, 255-62	3.6	24
54	Protein adsorption onto polysaccharides: Comparison of chitosan and chitin polymers. *Carbohydrate Polymers*, **2018**, 191, 191-197	10.3	23
53	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	2.3	23
52	Effects of osmolytes on the helical conformation of model peptide: molecular dynamics simulation. *Journal of Chemical Physics*, **2011**, 134, 035104	3.9	23
51	Mechanisms of amphipathic helical peptide denaturation by guanidinium chloride and urea: a molecular dynamics simulation study. *Journal of Computer-Aided Molecular Design*, **2010**, 24, 829-41	4.2	21
50	The structural properties of magainin in water, TFE/water, and aqueous urea solutions: molecular dynamics simulations. *Proteins: Structure, Function and Bioinformatics*, **2007**, 67, 931-40	4.2	21
49	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	3.7	21
48	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	5.1	20
47	The Molecular Basis of the Sodium Dodecyl Sulfate Effect on Human Ubiquitin Structure: A Molecular Dynamics Simulation Study. *Scientific Reports*, **2018**, 8, 2150	4.9	19
46	Encapsulation of an endostatin peptide in liposomes: Stability, release, and cytotoxicity study. *Colloids and Surfaces B: Biointerfaces*, **2020**, 185, 110552	6	19
45	Chitosan nanoparticles-trypsin interactions: Bio-physicochemical and molecular dynamics simulation studies. *International Journal of Biological Macromolecules*, **2017**, 103, 902-909	7.9	16
44	A cyclic peptide reproducing the α1 helix of VEGF-B binds to VEGFR-1 and VEGFR-2 and inhibits angiogenesis and tumor growth. *Biochemical Journal*, **2019**, 476, 645-663	3.8	15

43	Insight into the interactions, residue snorkeling, and membrane disordering potency of a single antimicrobial peptide into different lipid bilayers. *PLoS ONE*, **2017**, 12, e0187216	3.7	15
42	Molecular Self-Assembly Strategy for Encapsulation of an Amphipathic Helical Antimicrobial Peptide into the Different Polymeric and Copolymeric Nanoparticles. *Journal of Chemical Information and Modeling*, **2019**, 59, 550-563	6.1	15
41	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	6.1	11
40	Interaction of Piscidin-1 with zwitterionic versus anionic membranes: a comparative molecular dynamics study. *Journal of Biomolecular Structure and Dynamics*, **2013**, 31, 1393-403	3.6	11
39	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	7.9	11
38	HYNIC a bifunctional prosthetic group for the labelling of peptides with 99mTc and 18FDG. *Journal of Radioanalytical and Nuclear Chemistry*, **2016**, 307, 1125-1134	1.5	10
37	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	3.7	10
36	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	10.3	10
35	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	6.1	9
34	Study of orientation and penetration of LAH4 into lipid bilayer membranes: pH and composition dependence. *Chemical Biology and Drug Design*, **2014**, 84, 242-52	2.9	9
33	Insight to the molecular mechanisms of the osmolyte effects on pyrazinamidase stability using experimental studies, molecular dynamics simulations, and free energy calculation. *International Journal of Mycobacteriology*, **2018**, 7, 268-274	0.9	8
32	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	4	8
31	Molecular insights into the interactions of GF-17 with the gram-negative and gram-positive bacterial lipid bilayers. *Journal of Cellular Biochemistry*, **2018**, 119, 9205-9216	4.7	7
30	Biochemical Characterization and Computational Identification of Mycobacterium tuberculosis Pyrazinamidase in Some Pyrazinamide-Resistant Isolates of Iran. *Protein Journal*, **2015**, 34, 181-92	3.9	6
29	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	6.1	6
28	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	5.1	6
27	Structural studies of SNARE complex and its interaction with complexin by molecular dynamics simulation. *Biopolymers*, **2010**, 93, 560-70	2.2	6
26	Effects of metal-ion replacement on pyrazinamidase activity: A quantum mechanical study. *Journal of Molecular Graphics and Modelling*, **2017**, 73, 24-29	2.8	5

25	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	0.3	5
24	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	1.9	4
23	Ig-like Domain in Endoglucanase Cel9A from Alicyclobacillus acidocaldarius Makes Dependent the Enzyme Stability on Calcium. *Molecular Biotechnology*, **2018**, 60, 698-711	3	4
22	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	2	4
21	Compatibilization of clays and hydrophobic polymers: the case of montmorillonite and polyetheretherketone. *Polymer Bulletin*, **2020**, 77, 5505-5527	2.4	4
20	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	6.7	4
19	Effects of sorbitol and glycerol on the structure, dynamics, and stability of Mycobacterium tuberculosis pyrazinamidase. *International Journal of Mycobacteriology*, **2016**, 5 Suppl 1, S138-S139	0.9	3
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	3.6	3
17	Synthesis, Radiolabeling, and Biological Evaluation of Peptide LIKKPF Functionalized with HYNIC as Apoptosis Imaging Agent. *Iranian Journal of Pharmaceutical Research*, **2016**, 15, 415-24	1.1	3
16	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	6	3
15	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	2.8	2
14	Effect of the Met148Leu mutation on the structure and dynamics of the rusticyanin protein from sp. FJ2. *Journal of Biomolecular Structure and Dynamics*, **2021**, 39, 4122-4132	3.6	2
13	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	2.3	2
12	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	0.3	2
11	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	3.4	2
10	Computational insights into pH-dependence of structure and dynamics of pyrazinamidase: A comparison of wild type and mutants. *Journal of Cellular Biochemistry*, **2018**, 120, 2502	4.7	1
9	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	3.6	1
8	Insights into the Molecular-Level details of betaine interactions with Laccase under various thermal conditions. *Journal of Molecular Liquids*, **2021**, 339, 116832	6	1

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	4	0
6	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	4.5	0
5	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	6	0
4	Human serum albumin adsorption on cellulose nanocrystal: A spectroscopy and molecular dynamics simulation research. *Applied Surface Science*, **2022**, 597, 153749	6.7	0
3	Structural Studies on an Anti-Angiogenic Peptide Using Molecular Modeling. *Iranian Journal of Biotechnology*, **2020**, 18, e2553	1	
2	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	2.5	
1	Molecular insights into the crystalline nanocellulose and human lysozyme interactions: An experimental and theoretical research. *International Journal of Biological Macromolecules*, **2022**, 213, 83-95	7.9	