

# Faramarz Mehrnejad

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	The process of L-asparaginase encapsulation by poly (lactic-co-glycolic acid) and methoxy poly (ethylene glycol): A molecular dynamics simulation study. <i>Materials Today Communications</i> , <b>2022</b> , 31, 103435	2.5	
59	Human serum albumin adsorption on cellulose nanocrystal: A spectroscopy and molecular dynamics simulation research. <i>Applied Surface Science</i> , <b>2022</b> , 597, 153749	6.7	0
58	Molecular insights into the crystalline nanocellulose and human lysozyme interactions: An experimental and theoretical research. <i>International Journal of Biological Macromolecules</i> , <b>2022</b> , 213, 83-95	7.9	
57	Effect of the Met148Leu mutation on the structure and dynamics of the rusticyanin protein from sp. FJ2. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2021</b> , 39, 4122-4132	3.6	2
56	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. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 7163-7176	3.4	2
55	Refinement of coding SNPs in the human aryl hydrocarbon receptor gene using ISNPranker: An integrative-SNP ranking web-tool. <i>Computational Biology and Chemistry</i> , <b>2021</b> , 90, 107416	3.6	1
54	Insight into the Microcosm of the Human Growth Hormone and Its Interactions with Polymers and Copolymers: A Molecular Dynamics Perspective. <i>Langmuir</i> , <b>2021</b> , 37, 90-104	4	0
53	Effect of the lipid composition and cholesterol on the membrane selectivity of low generations PAMAM dendrimers: A molecular dynamics simulation study. <i>Applied Surface Science</i> , <b>2021</b> , 540, 148274	6.7	4
52	Molecular modeling prediction of albumin-based nanoparticles and experimental preparation, characterization, and in-vitro release kinetics of prednisolone from the nanoparticles. <i>Journal of Drug Delivery Science and Technology</i> , <b>2021</b> , 64, 102588	4.5	0
51	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. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2021</b> , 206, 111956	6	0
50	Insights into the Molecular-Level details of betaine interactions with Laccase under various thermal conditions. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 339, 116832	6	1
49	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. <i>Journal of Chemical Information and Modeling</i> , <b>2020</b> , 60, 1791-1803	6.1	6
48	Structural Studies on an Anti-Angiogenic Peptide Using Molecular Modeling. <i>Iranian Journal of Biotechnology</i> , <b>2020</b> , 18, e2553	1	
47	Compatibilization of clays and hydrophobic polymers: the case of montmorillonite and polyetheretherketone. <i>Polymer Bulletin</i> , <b>2020</b> , 77, 5505-5527	2.4	4
46	Molecular level insight into stability, activity, and structure of Laccase in aqueous ionic liquid and organic solvents: An experimental and computational research. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 317, 113925	6	3
45	Encapsulation of an endostatin peptide in liposomes: Stability, release, and cytotoxicity study. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 185, 110552	6	19
44	A cyclic peptide reproducing the $\alpha$ helix of VEGF-B binds to VEGFR-1 and VEGFR-2 and inhibits angiogenesis and tumor growth. <i>Biochemical Journal</i> , <b>2019</b> , 476, 645-663	3.8	15

43	Paclitaxel interaction with cucurbit [7]uril and acyclic Cucurbit[4]uril nanocontainers: A computational approach. <i>Journal of Molecular Graphics and Modelling</i> , <b>2019</b> , 90, 210-218	2.8	2
42	Effects of single-walled carbon nanotube on the conformation of human hepcidin: molecular dynamics simulation and binding free energy calculations. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2019</b> , 37, 2125-2132	3.6	3
41	Molecular Basis for Membrane Selectivity of Antimicrobial Peptide Pleurocidin in the Presence of Different Eukaryotic and Prokaryotic Model Membranes. <i>Journal of Chemical Information and Modeling</i> , <b>2019</b> , 59, 3262-3276	6.1	11
40	The role of intermolecular interactions on the encapsulation of human insulin into the chitosan and cholesterol-grafted chitosan polymers. <i>Carbohydrate Polymers</i> , <b>2019</b> , 208, 345-355	10.3	10
39	Molecular Self-Assembly Strategy for Encapsulation of an Amphipathic $\beta$ -Helical Antimicrobial Peptide into the Different Polymeric and Copolymeric Nanoparticles. <i>Journal of Chemical Information and Modeling</i> , <b>2019</b> , 59, 550-563	6.1	15
38	The Molecular Basis of the Sodium Dodecyl Sulfate Effect on Human Ubiquitin Structure: A Molecular Dynamics Simulation Study. <i>Scientific Reports</i> , <b>2018</b> , 8, 2150	4.9	19
37	Protein adsorption onto polysaccharides: Comparison of chitosan and chitin polymers. <i>Carbohydrate Polymers</i> , <b>2018</b> , 191, 191-197	10.3	23
36	Understanding the interactions of human follicle stimulating hormone with single-walled carbon nanotubes by molecular dynamics simulation and free energy analysis. <i>European Biophysics Journal</i> , <b>2018</b> , 47, 49-57	1.9	4
35	Ig-like Domain in Endoglucanase Cel9A from <i>Alicyclobacillus acidocaldarius</i> Makes Dependent the Enzyme Stability on Calcium. <i>Molecular Biotechnology</i> , <b>2018</b> , 60, 698-711	3	4
34	The potential impact of carboxylic-functionalized multi-walled carbon nanotubes on trypsin: A Comprehensive spectroscopic and molecular dynamics simulation study. <i>PLoS ONE</i> , <b>2018</b> , 13, e0198519	3.7	10
33	Molecular insights into the interactions of GF-17 with the gram-negative and gram-positive bacterial lipid bilayers. <i>Journal of Cellular Biochemistry</i> , <b>2018</b> , 119, 9205-9216	4.7	7
32	Insight to the molecular mechanisms of the osmolyte effects on pyrazinamidase stability using experimental studies, molecular dynamics simulations, and free energy calculation. <i>International Journal of Mycobacteriology</i> , <b>2018</b> , 7, 268-274	0.9	8
31	Computational insights into pH-dependence of structure and dynamics of pyrazinamidase: A comparison of wild type and mutants. <i>Journal of Cellular Biochemistry</i> , <b>2018</b> , 120, 2502	4.7	1
30	The combinatorial effects of osmolytes and alcohols on the stability of pyrazinamidase: Methanol affects the enzyme stability through hydrophobic interactions and hydrogen bonds. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 108, 1339-1347	7.9	11
29	Effects of metal-ion replacement on pyrazinamidase activity: A quantum mechanical study. <i>Journal of Molecular Graphics and Modelling</i> , <b>2017</b> , 73, 24-29	2.8	5
28	Chitosan nanoparticles-trypsin interactions: Bio-physicochemical and molecular dynamics simulation studies. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 103, 902-909	7.9	16
27	Efficient megalin targeted delivery to renal proximal tubular cells mediated by modified-polymyxin B-polyethylenimine based nano-gene-carriers. <i>Materials Science and Engineering C</i> , <b>2017</b> , 79, 770-782	8.3	27
26	Identification of the Crucial Residues in the Early Insertion of Pardaxin into Different Phospholipid Bilayers. <i>Journal of Chemical Information and Modeling</i> , <b>2017</b> , 57, 929-941	6.1	9

25	Insight into the interactions, residue snorkeling, and membrane disordering potency of a single antimicrobial peptide into different lipid bilayers. <i>PLoS ONE</i> , <b>2017</b> , 12, e0187216	3.7	15
24	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. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 20599-20615	5.1	6
23	Follicle-stimulating hormone encapsulation in the cholesterol-modified chitosan nanoparticles via molecular dynamics simulations and binding free energy calculations. <i>European Journal of Pharmaceutical Sciences</i> , <b>2017</b> , 107, 126-137	5.1	20
22	A computational study of the electronic structure and the chemical activity of curcumin and some novel curcuminoids by density functional theory. <i>Journal of the Iranian Chemical Society</i> , <b>2017</b> , 14, 357-364	2.4	4
21	HYNIC a bifunctional prosthetic group for the labelling of peptides with 99mTc and 18FDG. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2016</b> , 307, 1125-1134	1.5	10
20	Effects of sorbitol and glycerol on the structure, dynamics, and stability of Mycobacterium tuberculosis pyrazinamidase. <i>International Journal of Mycobacteriology</i> , <b>2016</b> , 5 Suppl 1, S138-S139	0.9	3
19	Effect of sorbitol and glycerol on the stability of trypsin and difference between their stabilization effects in the various solvents. <i>Biotechnology and Applied Biochemistry</i> , <b>2016</b> , 63, 206-13	2.8	26
18	An in silico approach to investigate the source of the controversial interpretations about the phenotypic results of the human AhR-gene G1661A polymorphism. <i>Journal of Theoretical Biology</i> , <b>2016</b> , 393, 1-15	2.3	23
17	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. <i>PLoS ONE</i> , <b>2016</b> , 11, e0165213	3.7	21
16	Synthesis, Radiolabeling, and Biological Evaluation of Peptide LIKKPF Functionalized with HYNIC as Apoptosis Imaging Agent. <i>Iranian Journal of Pharmaceutical Research</i> , <b>2016</b> , 15, 415-24	1.1	3
15	The antiangiogenic and antitumor activities of the N-terminal fragment of endostatin augmented by Ile/Arg substitution: The overall structure implicated the biological activity. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2016</b> , 1864, 1765-1774	4	8
14	Biochemical Characterization and Computational Identification of Mycobacterium tuberculosis Pyrazinamidase in Some Pyrazinamide-Resistant Isolates of Iran. <i>Protein Journal</i> , <b>2015</b> , 34, 181-92	3.9	6
13	Molecular Interactions in the Systems Composed of Curcumin, Water and Single-Walled Carbon Nanotube: A Molecular Dynamics Simulation Study. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2015</b> , 12, 2077-2083	0.3	5
12	Study of orientation and penetration of LAH4 into lipid bilayer membranes: pH and composition dependence. <i>Chemical Biology and Drug Design</i> , <b>2014</b> , 84, 242-52	2.9	9
11	Salinity Tolerance Ranking Of Various Wheat Landraces From The West Of The Urmia Saline Lake In Iran By Using Physiological Parameters. <i>Journal of Plant Nutrition</i> , <b>2014</b> , 37, 1025-1039	2.3	2
10	Interaction of Piscidin-1 with zwitterionic versus anionic membranes: a comparative molecular dynamics study. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2013</b> , 31, 1393-403	3.6	11
9	A new efficient protocol for directed differentiation of retinal pigmented epithelial cells from normal and retinal disease induced pluripotent stem cells. <i>Stem Cells and Development</i> , <b>2012</b> , 21, 2262-74	4	57
8	Role of Hydrophobic Forces and Backbone Hydrogen Bonding on Helical Stability of Peptide Encapsulated Into Single Wall Carbon Nanotubes. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2012</b> , 9, 783-788	0.3	2

7	Effects of osmolytes on the helical conformation of model peptide: molecular dynamics simulation. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 035104	3.9	23
6	Molecular dynamics simulation study of the interaction of Piscidin 1 with DPPC bilayers: structure-activity relationship. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2010</b> , 27, 551-60	3.6	34
5	Mechanisms of amphipathic helical peptide denaturation by guanidinium chloride and urea: a molecular dynamics simulation study. <i>Journal of Computer-Aided Molecular Design</i> , <b>2010</b> , 24, 829-41	4.2	21
4	Structural studies of SNARE complex and its interaction with complexin by molecular dynamics simulation. <i>Biopolymers</i> , <b>2010</b> , 93, 560-70	2.2	6
3	Structural and dynamical studies of Humanin in water and TFE/water mixture: a molecular dynamics simulation. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2008</b> , 26, 255-62	3.6	24
2	PCR-based gene synthesis, molecular cloning, high level expression, purification, and characterization of novel antimicrobial peptide, brevinin-2R, in <i>Escherichia coli</i> . <i>Applied Biochemistry and Biotechnology</i> , <b>2008</b> , 149, 109-18	3.2	26
1	The structural properties of magainin in water, TFE/water, and aqueous urea solutions: molecular dynamics simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2007</b> , 67, 931-40	4.2	21