

Mohammad Reza Ejtehadi

List of Publications by Year in descending order

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77
papers

3,038
citations

279778

23
h-index

161844

54
g-index

80
all docs

80
docs citations

80
times ranked

5524
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein~Nanoparticle Interactions: Opportunities and Challenges. <i>Chemical Reviews</i> , 2011, 111, 5610-5637.	47.7	1,242
2	Temperature: The "Ignored" Factor at the NanoBio Interface. <i>ACS Nano</i> , 2013, 7, 6555-6562.	14.6	299
3	Understanding the nanoparticle~protein corona complexes using computational and experimental methods. <i>International Journal of Biochemistry and Cell Biology</i> , 2016, 75, 162-174.	2.8	96
4	Three-body interactions improve the prediction of rate and mechanism in protein folding models. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 15088-15093.	7.1	91
5	Cell-Imprinted Substrates Act as an Artificial Niche for Skin Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 13280-13292.	8.0	70
6	Nanoscale characterization of the biomolecular corona by cryo-electron microscopy, cryo-electron tomography, and image simulation. <i>Nature Communications</i> , 2021, 12, 573.	12.8	61
7	Physiological Temperature Has a Crucial Role in Amyloid Beta in the Absence and Presence of Hydrophobic and Hydrophilic Nanoparticles. <i>ACS Chemical Neuroscience</i> , 2013, 4, 375-378.	3.5	59
8	Mechanistic Understanding of the Interactions between Nano-Objects with Different Surface Properties and β -Synuclein. <i>ACS Nano</i> , 2019, 13, 3243-3256.	14.6	51
9	Interdisciplinary challenges and promising theranostic effects of nanoscience in Alzheimer's disease. <i>RSC Advances</i> , 2012, 2, 5008.	3.6	48
10	Engineering of Mature Human Induced Pluripotent Stem Cell~Derived Cardiomyocytes Using Substrates with Multiscale Topography. <i>Advanced Functional Materials</i> , 2018, 28, 1707378.	14.9	43
11	Bare surface of gold nanoparticle induces inflammation through unfolding of plasma fibrinogen. <i>Scientific Reports</i> , 2018, 8, 12557.	3.3	43
12	Chain deformation in translocation phenomena. <i>Soft Matter</i> , 2013, 9, 2750.	2.7	42
13	Diffusion and self-assembly of C60 molecules on monolayer graphyne sheets. <i>Scientific Reports</i> , 2016, 6, 21910.	3.3	42
14	Coarse-grained interaction potentials for anisotropic molecules. <i>Journal of Chemical Physics</i> , 2006, 124, 174708.	3.0	39
15	Sequence dependence of the binding energy in chaperone-driven polymer translocation through a nanopore. <i>Physical Review E</i> , 2011, 83, 011902.	2.1	36
16	Ruddlesden~Popper Phases of Methylammonium-Based Two-Dimensional Perovskites with 5-Ammonium Valeric Acid $\text{AVA}_2\text{MA}_x\text{Pb}_3\text{I}_{x+1}$ with $x = 1, 2, \text{ and } 3$. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3543-3549.	4.6	35
17	Active Brownian particles and run-and-tumble particles separate inside a maze. <i>Scientific Reports</i> , 2016, 6, 37670.	3.3	34
18	Development of a Virtual Cell Model to Predict Cell Response to Substrate Topography. <i>ACS Nano</i> , 2017, 11, 9084-9092.	14.6	33

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19	Micro helical polymeric structures produced by variable voltage direct electrospinning. <i>Soft Matter</i> , 2011, 7, 10548.	2.7	32
20	Interaction of spherical colloidal particles in nematic media with degenerate planar anchoring. <i>Soft Matter</i> , 2011, 7, 1107-1113.	2.7	29
21	Rigid-body molecular dynamics of DNA inside a nucleosome. <i>European Physical Journal E</i> , 2013, 36, 21.	1.6	29
22	A liquid film motor. <i>Microfluidics and Nanofluidics</i> , 2009, 6, 711-715.	2.2	28
23	Effects of topological constraints on linked ring polymers in solvents of varying quality. <i>Soft Matter</i> , 2020, 16, 3029-3038.	2.7	27
24	Geometrically Reduced Number of Protein Ground State Candidates. <i>Physical Review Letters</i> , 1999, 82, 4723-4726.	7.8	22
25	Molecular Dynamics Simulation of Supercoiled DNA Rings. <i>Macromolecules</i> , 2015, 48, 164-172.	4.8	21
26	Molecular interaction of fibrinogen with zeolite nanoparticles. <i>Scientific Reports</i> , 2019, 9, 1558.	3.3	21
27	Role of Graphene Surface Ripples and Thermal Vibrations in Molecular Dynamics of C ₆₀ . <i>Journal of Physical Chemistry C</i> , 2019, 123, 20026-20036.	3.1	19
28	S494 O-glycosylation site on the SARS-CoV-2 RBD affects the virus affinity to ACE2 and its infectivity; a molecular dynamics study. <i>Scientific Reports</i> , 2021, 11, 15162.	3.3	19
29	Stability of preferable structures for a hydrophobic-polar model of protein folding. <i>Physical Review E</i> , 1998, 57, 3298-3301.	2.1	18
30	Geometry selects highly designable structures. <i>Journal of Chemical Physics</i> , 2000, 113, 6437-6442.	3.0	18
31	Electrically rotating suspended films of polar liquids. <i>Experiments in Fluids</i> , 2011, 50, 419-428.	2.4	18
32	Particle selection through topographic templates in nematic colloids. <i>Soft Matter</i> , 2014, 10, 9681-9687.	2.7	17
33	Equilibrium state of a cylindrical particle with flat ends in nematic liquid crystals. <i>Physical Review E</i> , 2015, 91, 012503.	2.1	17
34	Protein Folding Rates Correlate with Heterogeneity of Folding Mechanism. <i>Physical Review Letters</i> , 2004, 93, 208105.	7.8	16
35	First passage time distribution of chaperone driven polymer translocation through a nanopore: Homopolymer and heteropolymer cases. <i>Journal of Chemical Physics</i> , 2011, 135, 245102.	3.0	16
36	Confined nematic liquid crystal between two spherical boundaries with planar anchoring. <i>Physical Review E</i> , 2013, 88, 012508.	2.1	16

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37	Topology of polymer chains under nanoscale confinement. <i>Nanoscale</i> , 2017, 9, 12170-12177.	5.6	16
38	Energy-landscape networks of spin glasses. <i>Physical Review E</i> , 2008, 77, 031105.	2.1	15
39	Analytical first derivatives of the RE-squared interaction potential. <i>Journal of Computational Physics</i> , 2006, 219, 770-779.	3.8	14
40	Extreme bendability of DNA double helix due to bending asymmetry. <i>Journal of Chemical Physics</i> , 2015, 143, 104904.	3.0	14
41	Topology of internally constrained polymer chains. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 18389-18393.	2.8	14
42	Molecular Dynamics Simulations of Orai Reveal How the Third Transmembrane Segment Contributes to Hydration and Ca ²⁺ Selectivity in Calcium Release-Activated Calcium Channels. <i>Journal of Physical Chemistry B</i> , 2018, 122, 4407-4417.	2.6	14
43	Protein ground state candidates in a simple model: An enumeration study. <i>Physical Review E</i> , 1999, 60, 4629-4636.	2.1	13
44	Locomotion of the C60-based nanomachines on graphene surfaces. <i>Scientific Reports</i> , 2021, 11, 2576.	3.3	13
45	Simulation of droplet trains in microfluidic networks. <i>Physical Review E</i> , 2010, 82, 037303.	2.1	12
46	Rotational regimes of freely suspended liquid crystal films under electric current in presence of an external electric field. <i>Microfluidics and Nanofluidics</i> , 2012, 13, 83-89.	2.2	12
47	Electrical bending instability in electrospinning viscoelastic solutions. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 1036-1042.	2.1	11
48	The hot sites of I \pm -synuclein in amyloid fibril formation. <i>Scientific Reports</i> , 2020, 10, 12175.	3.3	10
49	Structural and dynamical fingerprints of the anomalous dielectric properties of water under confinement. <i>Physical Review Materials</i> , 2021, 5, .	2.4	10
50	Effect of Cysteine Oxidation in SARS-CoV-2 Receptor-Binding Domain on Its Interaction with Two Cell Receptors: Insights from Atomistic Simulations. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 129-141.	5.4	9
51	Nanomechanical properties of lipid bilayer: Asymmetric modulation of lateral pressure and surface tension due to protein insertion in one leaflet of a bilayer. <i>Journal of Chemical Physics</i> , 2013, 138, 065101.	3.0	8
52	Cooperation within von Willebrand factors enhances adsorption mechanism. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150334.	3.4	8
53	Calcium chloride adsorption at liquid-liquid interfaces: A molecular dynamics simulation study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 527, 70-80.	4.7	8
54	GAG positioning on IL-1RI; A mechanism regulated by dual effect of glycosylation. <i>Glycobiology</i> , 2019, 29, 803-812.	2.5	8

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55	Monte Carlo simulation of a lattice model for the dynamics of randomly branching double-folded ring polymers. <i>Physical Review E</i> , 2021, 104, 014501.	2.1	8
56	Collective movement and thermal stability of fullerene clusters on the graphene layer. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 11770-11781.	2.8	7
57	An exact treatment of ellipsoid-substrate interactions. <i>Europhysics Letters</i> , 2007, 77, 23002.	2.0	6
58	Low-Reynolds-number predator. <i>Physical Review E</i> , 2015, 92, 063035.	2.1	6
59	Glycan-mediated functional assembly of IL-1RI: structural insights into completion of the current description for immune response. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 2575-2585.	3.5	6
60	Molecular Machinery Responsible for Graphene Oxide's Distinct Inhibitory Effects toward <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus aureus</i> Pathogens. <i>ACS Applied Bio Materials</i> , 2021, 4, 660-668.	4.6	6
61	Field theory of Skyrme lattices in quantum Hall ferromagnets. <i>Physical Review B</i> , 1998, 58, 10665-10673.	3.2	5
62	Different buckling regimes in direct electrospinning: A comparative approach to rope buckling. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 451-456.	2.1	5
63	Vortex with fourfold defect lines in a simple model of self-propelled particles. <i>Physical Review E</i> , 2016, 93, 032113.	2.1	4
64	Mechanism of water permeation through modified carbon nanotubes as a model for peptide nanotube channels. <i>International Journal of Nanotechnology</i> , 2009, 6, 926.	0.2	3
65	Gaussian theory for spatially distributed self-propelled particles. <i>Physical Review E</i> , 2016, 94, 062603.	2.1	3
66	Thermal conductivity of the cell membrane in the presence of cholesterol and amyloid precursor protein. <i>Physical Review E</i> , 2020, 102, 042401.	2.1	3
67	Impact of temporal correlations on high risk outbreaks of independent and cooperative SIR dynamics. <i>PLoS ONE</i> , 2021, 16, e0253563.	2.5	3
68	A Molecular Dynamics Simulation Study of Nanomechanical Properties of Asymmetric Lipid Bilayer. <i>Journal of Membrane Biology</i> , 2013, 246, 67-73.	2.1	2
69	Gating and conduction of nano-channel forming proteins: a computational approach. <i>Journal of Biomolecular Structure and Dynamics</i> , 2013, 31, 818-828.	3.5	2
70	Polyelectrolytes polarization in nonuniform electric fields. <i>International Journal of Modern Physics C</i> , 2014, 25, 1441010.	1.7	2
71	OmpF, a nucleotide-sensing nanoprobe, computational evaluation of single channel activities. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 457, 215-224.	2.6	2
72	Chaotic dynamics of active topological defects. <i>Soft Materials</i> , 0, , 1-7.	1.7	2

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73	Conformation- and phosphorylation-dependent electron tunnelling across self-assembled monolayers of tau peptides. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 2038-2050.	9.4	2
74	Rigid-body formalism for simulating macromolecules. <i>Computer Physics Communications</i> , 2002, 147, 339-341.	7.5	1
75	Biomedical Applications: Engineering of Mature Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes Using Substrates with Multiscale Topography (<i>Adv. Funct. Mater.</i> 19/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870128.	14.9	1
76	Electronic polarization effects on membrane translocation of anti-cancer drugs. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 12281-12292.	2.8	1
77	A modified Jarzynski free-energy estimator to eliminate non-conservative forces and its application in nanoparticle-membrane interactions. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 3647-3654.	2.8	0