

Hashem Rafii-Tabar

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

873
citations

567281

15
h-index

501196

28
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61
all docs

61
docs citations

61
times ranked

1064
citing authors

#	ARTICLE	IF	CITATIONS
1	Contribution of the dipole-dipole interaction to targeting efficiency of magnetite nanoparticles inside the blood vessel: A computational modeling analysis with different magnet geometries. <i>Physics of Fluids</i> , 2022, 34, .	4.0	4
2	The investigation into the effect of the length of RGD peptides and temperature on the interaction with the $\alpha_5\beta_1\beta_2$ integrin: a molecular dynamic study. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, , 1-12.	3.5	0
3	A proposed implantable voltammetric carbon fiber-based microsensor for corticosteroid monitoring by cochlear implants. <i>Mikrochimica Acta</i> , 2021, 188, 357.	5.0	5
4	Population Kinetics and Mechanistic Aspects of <i>Saccharomyces cerevisiae</i> Growth in Relation to Selenium Sulfide Nanoparticle Synthesis. <i>Frontiers in Microbiology</i> , 2020, 11, 1019.	3.5	7
5	Computational modeling to determine key regulators of hypoxia effects on the lactate production in the glycolysis pathway. <i>Scientific Reports</i> , 2020, 10, 9163.	3.3	10
6	Enhancement of the biological autoluminescence by mito-liposomal gold nanoparticle nanocarriers. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 204, 111812.	3.8	7
7	Phototherapy alters the oncogenic metabolic activity of breast cancer cells. <i>Photodiagnosis and Photodynamic Therapy</i> , 2020, 30, 101695.	2.6	8
8	Electrochemical Determination of Dexamethasone by Graphene Modified Electrode: Experimental and Theoretical Investigations. <i>Scientific Reports</i> , 2019, 9, 11775.	3.3	18
9	Physicochemical properties, antifungal activity and cytotoxicity of selenium sulfide nanoparticles green synthesized by <i>Saccharomyces cerevisiae</i> . <i>Biochemical and Biophysical Research Communications</i> , 2019, 516, 1078-1084.	2.1	41
10	New insights on nonlocal spherical shell model and its application to free vibration of spherical fullerene molecules. <i>International Journal of Mechanical Sciences</i> , 2019, 161-162, 105046.	6.7	4
11	Amperometric lactate nanobiosensor based on reduced graphene oxide, carbon nanotube and gold nanoparticle nanocomposite. <i>Mikrochimica Acta</i> , 2019, 186, 680.	5.0	38
12	Computational Modelling of the Vibrational Characteristics of Zero-Dimensional Nanoscopic Structures. <i>Springer Tracts in Mechanical Engineering</i> , 2019, , 143-159.	0.3	0
13	Modelling the Mechanical Characteristics of Carbon Nanotubes: A Nonlocal Differential Approach. <i>Springer Tracts in Mechanical Engineering</i> , 2019, , 187-217.	0.3	0
14	Mueller matrix imaging of prostate bulk tissues; Polarization parameters as a discriminating benchmark. <i>Photodiagnosis and Photodynamic Therapy</i> , 2019, 26, 90-96.	2.6	20
15	Computational Continuum Mechanics of Nanoscopic Structures. <i>Springer Tracts in Mechanical Engineering</i> , 2019, , .	0.3	21
16	Fundamental Tenets of Nanomechanics. <i>Springer Tracts in Mechanical Engineering</i> , 2019, , 11-39.	0.3	0
17	Synergistic effect of phototherapy and chemotherapy on bladder cancer cells. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 193, 148-154.	3.8	5
18	An investigation into non-covalent functionalization of a single-walled carbon nanotube and a graphene sheet with protein G:A combined experimental and molecular dynamics study. <i>Scientific Reports</i> , 2019, 9, 1273.	3.3	22

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19	Application of Nonlocal Elasticity Theory to Modelling of Two-Dimensional Structures. Springer Tracts in Mechanical Engineering, 2019, , 219-239.	0.3	0
20	Recent Developments and Future Challenges in the Application of Nonlocal Elasticity Theory. Springer Tracts in Mechanical Engineering, 2019, , 261-275.	0.3	0
21	Elastic Properties of Carbon-Based Nanoscopic Structures. Springer Tracts in Mechanical Engineering, 2019, , 115-139.	0.3	0
22	Protein G selects two binding sites for carbon nanotube with dissimilar behavior; a molecular dynamics study. Journal of Molecular Graphics and Modelling, 2019, 87, 257-267.	2.4	2
23	Electrophysiological effects of low frequency electrical radiation on the neural compartment: a theoretical investigation. Biomedical Physics and Engineering Express, 2018, 4, 025040.	1.2	1
24	Investigation of the role of ion channels in human pancreatic \hat{I}^2 -cell hubs: A mathematical modeling study. Computers in Biology and Medicine, 2018, 97, 50-62.	7.0	3
25	Simulation of the effect of an external GHz electric field on the potential energy profile of Ca^{2+} ions in the selectivity filter of the Ca_v1 channel. Proteins: Structure, Function and Bioinformatics, 2018, 86, 414-422.	2.6	5
26	Molecular dynamics simulation of the thermosensitivity of the human connexin 26 hemichannel. Chemical Physics, 2018, 500, 7-14.	1.9	7
27	Interaction of low frequency external electric fields and pancreatic \hat{I}^2 -cell: a mathematical modeling approach to identify the influence of excitation parameters. International Journal of Radiation Biology, 2018, 94, 1038-1048.	1.8	4
28	Computational modeling of the effect of temperature variations on human pancreatic \hat{I}^2 -cell activity. Journal of Thermal Biology, 2018, 75, 69-80.	2.5	2
29	Detection and Discrimination of Bacterial Colonies with Mueller Matrix Imaging. Scientific Reports, 2018, 8, 10815.	3.3	31
30	The role of the transient receptor potential melastatin5 (TRPM5) channels in the pancreatic \hat{I}^2 -cell electrical activity: A computational modeling study. Computational Biology and Chemistry, 2018, 76, 101-108.	2.3	4
31	A computational modeling of Raman radial breathing-like mode frequencies of fullerene encapsulated inside single-walled carbon nanotubes. Journal of Molecular Modeling, 2017, 23, 48.	1.8	6
32	Deconstruction of the human connexin 26 hemichannel due to an applied electric field; A molecular dynamics simulation study. Journal of Molecular Graphics and Modelling, 2017, 73, 108-114.	2.4	7
33	Modeling ion permeation through a bacterial voltage-gated calcium channel Ca_v1 using molecular dynamics simulations. Molecular BioSystems, 2017, 13, 208-214.	2.9	7
34	Computation of the thermal resistance in graphene sheets with a rectangular hole. Computational Materials Science, 2017, 126, 29-34.	3.0	10
35	Effects of electromagnetic field exposure on conduction and concentration of voltage gated calcium channels: A Brownian dynamics study. Brain Research, 2016, 1646, 560-569.	2.2	13
36	Axon swelling is electrophysiologically disruptive: A theoretically confirmed hypothesis. , 2016, , .		0

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37	Nonlocal continuum-based modeling of mechanical characteristics of nanoscopic structures. <i>Physics Reports</i> , 2016, 638, 1-97.	25.6	140
38	Neurophysiological Effect of External Electromagnetic Field: A Computational Modeling. <i>Nano</i> , 2016, 11, 1650111.	1.0	3
39	Photocount statistics of ultra-weak photon emission from germinating mung bean. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 162, 50-55.	3.8	13
40	In-plane thermal conductivity of graphene nanomesh: A molecular dynamics study. <i>Computational Materials Science</i> , 2016, 111, 247-251.	3.0	38
41	Structural and Functional Effect of an Oscillating Electric Field on the Dopamine-D3 Receptor: A Molecular Dynamics Simulation Study. <i>PLoS ONE</i> , 2016, 11, e0166412.	2.5	6
42	A molecular dynamics investigation of buckling behaviour of hydrogenated graphene. <i>Molecular Simulation</i> , 2015, 41, 1212-1218.	2.0	14
43	Influence of hydrogen functionalization on mechanical properties of graphene and CNT reinforced in chitosan biological polymer: Multi-scale computational modelling. <i>Computational Materials Science</i> , 2015, 101, 189-193.	3.0	20
44	Study of orotidine 5â€²-monophosphate decarboxylase in complex with the top three OMP, BMP, and PMP ligands by molecular dynamics simulation. <i>Journal of Biomolecular Structure and Dynamics</i> , 2015, 33, 404-417.	3.5	2
45	An in-depth view of human serum albumin corona on gold nanoparticles. <i>Molecular BioSystems</i> , 2015, 11, 454-462.	2.9	48
46	The impact of power line electric field on neural activity: A theoretical investigation. , 2014, , .		1
47	Investigation into mechanism of orotidine 5â€²-monophosphate decarboxylase enzyme by MM-PBSA/MM-GBSA and molecular docking. <i>Molecular Simulation</i> , 2014, 40, 469-476.	2.0	5
48	Gold nanoparticle shape effects on human serum albumin corona interface: a molecular dynamic study. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	24
49	Nonlocal continuum-based modeling of breathing mode of nanowires including surface stress and surface inertia effects. <i>Physica B: Condensed Matter</i> , 2014, 440, 43-47.	2.7	14
50	Comparison of continuum-based and atomistic-based modeling of axial buckling of carbon nanotubes subject to hydrostatic pressure. <i>Computational Materials Science</i> , 2013, 79, 619-626.	3.0	13
51	Molecular dynamics study of the interfacial mechanical properties of the grapheneâ€”collagen biological nanocomposite. <i>Computational Materials Science</i> , 2013, 69, 29-39.	3.0	42
52	Molecular dynamics simulation of the adhesive behavior of collagen on smooth and randomly rough TiO2 and Al2O3 surfaces. <i>Computational Materials Science</i> , 2013, 71, 172-178.	3.0	13
53	Molecular dynamics study of a new mechanism for ripple formation on graphene nanoribbons at very low temperatures based on H2 physisorption. <i>Solid State Communications</i> , 2013, 159, 84-87.	1.9	8
54	Multi-scale computational modelling of the mechanical behaviour of the chitosan biological polymer embedded with graphene and carbon nanotube. <i>Computational Materials Science</i> , 2012, 53, 347-353.	3.0	30

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55	Multiscale modeling of graphene- and nanotube-based reinforced polymer nanocomposites. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 4034-4040.	2.1	104
56	Observation of fluid layering and reverse motion in double-walled carbon nanotubes. <i>Current Applied Physics</i> , 2009, 9, 1411-1422.	2.4	5
57	Atomistic modelling of crack propagation in a randomly rough nano-scale metallic surface. <i>Journal of Molecular Graphics and Modelling</i> , 2008, 27, 356-363.	2.4	6
58	Modeling the effect of external electric field and current on the stochastic dynamics of ATPase nano-biomolecular motors. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 5466-5476.	2.6	9