# Rozita Laghaei

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10887546/publications.pdf

Version: 2024-02-01

| 23 | 670 | 623734 | 677142 |
|---|---|---|---|
| papers | citations | 14 | 22 |
| | | h-index | g-index |

| 23 | 23 | 23 | 787 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Distinct Dimerization for Various Alloforms of the Amyloid-Beta Protein: AÎ²<sub>1â€“40</sub>, AÎ²<sub>1â€“42</sub>, and AÎ²<sub>1â€“40</sub>(D23N). Journal of Physical Chemistry B, 2012, 116, 4043-4055. | 2.6 | 102 |
| 2 | Replica Exchange Molecular Dynamics Simulations of Coarse-grained Proteins in Implicit Solvent. Journal of Physical Chemistry B, 2009, 113, 267-274. | 2.6 | 70 |
| 3 | Structure and Thermodynamics of Amylin Dimer Studied by Hamiltonian-Temperature Replica Exchange Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2011, 115, 3146-3154. | 2.6 | 67 |
| 4 | Effect of the Disulfide Bond on the Monomeric Structure of Human Amylin Studied by Combined Hamiltonian and Temperature Replica Exchange Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2010, 114, 7071-7077. | 2.6 | 64 |
| 5 | Generic van der Waals Equation of State, Modified Free Volume Theory of Diffusion, and Viscosity of Simple Liquids. Journal of Physical Chemistry B, 2005, 109, 5873-5883. | 2.6 | 47 |
| 6 | Excluded volume in the generic van der Waals equation of state and the self-diffusion coefficient of the Lennard-Jones fluid. Journal of Chemical Physics, 2006, 124, 154502. | 3.0 | 44 |
| 7 | Metal binding sites of human Hâ€chain ferritin and iron transport mechanism to the ferroxidase sites: A molecular dynamics simulation study. Proteins: Structure, Function and Bioinformatics, 2013, 81, 1042-1050. | 2.6 | 38 |
| 8 | Spontaneous formation of polyglutamine nanotubes with molecular dynamics simulations. Journal of Chemical Physics, 2010, 132, 165102. | 3.0 | 28 |
| 9 | Computational studies on thermodynamic properties, effective diameters, and free volume of argon using anab initiopotential. Journal of Chemical Physics, 2006, 125, 084510. | 3.0 | 27 |
| 10 | Molecular theory of thermal conductivity of the Lennard-Jones fluid. Journal of Chemical Physics, 2006, 124, 084506. | 3.0 | 25 |
| 11 | Statistical-mechanical theory of rheology: Lennard-Jones fluids. Journal of Chemical Physics, 2005, 123, 234507. | 3.0 | 24 |
| 12 | Modified Free Volume Theory of Self-Diffusion and Molecular Theory of Shear Viscosity of Liquid Carbon Dioxide. Journal of Physical Chemistry B, 2005, 109, 8171-8179. | 2.6 | 24 |
| 13 | Pair Correlation Functions and the Self-Diffusion Coefficient of Lennard-Jones Liquid in the Modified Free Volume Theory of Diffusion. Journal of Physical Chemistry B, 2005, 109, 21375-21379. | 2.6 | 21 |
| 14 | Transmitter release site organization can predict synaptic function at the neuromuscular junction. Journal of Neurophysiology, 2018, 119, 1340-1355. | 1.8 | 17 |
| 15 | Early oligomerization stages for the non-amyloid component of Î±-synuclein amyloid. Journal of Chemical Physics, 2014, 141, 135103. | 3.0 | 15 |
| 16 | Calculation of Iron Transport through Human H-chain Ferritin. Journal of Physical Chemistry A, 2014, 118, 7442-7453. | 2.5 | 14 |
| 17 | Impact of spatiotemporal calcium dynamics within presynaptic active zones on synaptic delay at the frog neuromuscular junction. Journal of Neurophysiology, 2018, 119, 688-699. | 1.8 | 10 |
| 18 | The Frog Motor Nerve Terminal Has Very Brief Action Potentials and Three Electrical Regions Predicted to Differentially Control Transmitter Release. Journal of Neuroscience, 2020, 40, 3504-3516. | 3.6 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Water and ion permeability of a claudin model: A computational study. Proteins: Structure, Function and Bioinformatics, 2016, 84, 305-315. | 2.6 | 9 |
| 20 | Theoretical and computational investigations on thermodynamic properties, effective site diameters, and molecular free volume of carbon disulfide fluid. Journal of Chemical Physics, 2006, 125, 154505. | 3.0 | 6 |
| 21 | Langevin Dynamics Simulation of 3D Colloidal Crystal Vacancies and Phase Transitions. Journal of Physical Chemistry B, 2013, 117, 5271-5279. | 2.6 | 4 |
| 22 | The Influence of Bond Angle on Thermophysical Properties of Three-Center Lennard-Jones Fluids: Computer Simulation and Theory. Zeitschrift Fur Physikalische Chemie, 2019, 233, 551-576. | 2.8 | 2 |
| 23 | Microphysiological Modeling of the Structure and Function of Neuromuscular Transmitter Release Sites. Frontiers in Synaptic Neuroscience, 0, 14, . | 2.5 | 2 |