

J J LÃ³pez-Cascales

List of Publications by Year in descending order

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33
papers

838
citations

430442

18
h-index

476904

29
g-index

33
all docs

33
docs citations

33
times ranked

1059
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular dynamics simulation of a charged biological membrane. <i>Journal of Chemical Physics</i> , 1996, 104, 2713-2720.	1.2	118
2	Binding of glutamate to the umami receptor. <i>Biophysical Chemistry</i> , 2010, 152, 139-144.	1.5	55
3	Molecular dynamic simulation of the hydration and diffusion of chloride ions from bulk water to polypyrrole matrix. <i>Journal of Chemical Physics</i> , 2004, 120, 1951-1957.	1.2	53
4	Model of an Asymmetric DPPC/DPPS Membrane: Effect of Asymmetry on the Lipid Properties. A Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry B</i> , 2006, 110, 2358-2363.	1.2	51
5	Study of the Benzocaine Transfer from Aqueous Solution to the Interior of a Biological Membrane. <i>Journal of Physical Chemistry B</i> , 2009, 113, 9988-9994.	1.2	51
6	Small Cationic Peptides: Influence of Charge on Their Antimicrobial Activity. <i>ACS Omega</i> , 2018, 3, 5390-5398.	1.6	51
7	Molecular Dynamics Simulation of Water between Two Charged Layers of Dipalmitoylphosphatidylserine. <i>The Journal of Physical Chemistry</i> , 1996, 100, 8621-8627.	2.9	46
8	Study of the effect of Na ⁺ and Ca ²⁺ ion concentration on the structure of an asymmetric DPPC/DPPC+DPPS lipid bilayer by molecular dynamics simulation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 73, 42-50.	2.5	42
9	The dynamic action mechanism of small cationic antimicrobial peptides. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 21694-21705.	1.3	32
10	Anaesthetic Mechanism on a Model Biological Membrane: A Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry B</i> , 1998, 102, 625-631.	1.2	30
11	Effect of Na ⁺ and Ca ²⁺ Ions on a Lipid Langmuir Monolayer: An Atomistic Description by Molecular Dynamics Simulations. <i>ChemPhysChem</i> , 2008, 9, 2538-2543.	1.0	29
12	Antibacterial Effect of Chitosan-Gold Nanoparticles and Computational Modeling of the Interaction between Chitosan and a Lipid Bilayer Model. <i>Nanomaterials</i> , 2020, 10, 2340.	1.9	29
13	Effect of lithium and sodium ions on a charged membrane of dipalmitoylphosphatidylserine: A study by molecular dynamics simulation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1997, 1330, 145-156.	1.4	28
14	Molecular dynamics simulation of a dye molecule in the interior of a bilayer: 1,6-diphenyl-1,3,5-hexatriene in dipalmitoylphosphatidylcholine. <i>Biophysical Chemistry</i> , 1997, 69, 1-8.	1.5	26
15	Thermodynamic study of benzocaine insertion into different lipid bilayers. <i>Journal of Chemical Physics</i> , 2011, 135, 135103.	1.2	23
16	Phase Transition of a DPPC Bilayer Induced by an External Surface Pressure: From Bilayer to Monolayer Behavior. A Molecular Dynamics Simulation Study. <i>Langmuir</i> , 2006, 22, 5818-5824.	1.6	21
17	A DMPA Langmuir Monolayer Study: From Gas to Solid Phase. An Atomistic Description by Molecular Dynamics Simulation. <i>Langmuir</i> , 2008, 24, 1823-1828.	1.6	20
18	Mechanical properties of binary DPPC/DPPS bilayers. <i>RSC Advances</i> , 2012, 2, 11743.	1.7	20

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19	Molecular Dynamics Simulations of the Orientation and Reorientational Dynamics of Water and Polypyrrole Rings as a Function of the Oxidation State of the Polymer. <i>Macromolecular Theory and Simulations</i> , 2005, 14, 40-48.	0.6	13
20	Influence of the gas diffusion layer on the performance of an open cathode polymer electrolyte membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 7990-7999.	3.8	13
21	Thermodynamics and ² H NMR Study on the Insertion of Small Quinones into a Discotic Nematic Lyotropic Liquid Crystal. <i>ChemPhysChem</i> , 2014, 15, 1422-1431.	1.0	11
22	Molecular dynamics simulations of glyphosate in a DPPC lipid bilayer. <i>Chemistry and Physics of Lipids</i> , 2018, 213, 111-117.	1.5	11
23	Bead-model calculation of scattering diagrams: Brownian dynamics study of flexibility in immunoglobulin IgG1. <i>Journal of Proteomics</i> , 1993, 26, 261-271.	2.4	10
24	Methylene Blue Adsorption on a DMPA Lipid Langmuir Monolayer. <i>ChemPhysChem</i> , 2010, 11, 2241-2247.	1.0	10
25	Effect of lithium on the properties of a liquid crystal formed by sodium dodecylsulphate and decanol in aqueous solution. <i>Journal of Chemical Physics</i> , 2013, 139, 014703.	1.2	10
26	Mechanical properties of bilayers containing sperm sphingomyelins and ceramides with very long-chain polyunsaturated fatty acids. <i>Chemistry and Physics of Lipids</i> , 2019, 218, 178-186.	1.5	9
27	Production of gas diffusion layers with cotton fibers for their use in fuel cells. <i>Scientific Reports</i> , 2022, 12, 4219.	1.6	8
28	Molecular dynamics simulation of polypyrrole film in an acetonitrile solution. <i>Journal of Electroanalytical Chemistry</i> , 2010, 644, 13-19.	1.9	7
29	Effect of the interfacial tension and ionic strength on the thermodynamic barrier associated to the benzocaine insertion into a cell membrane. <i>Biophysical Chemistry</i> , 2013, 172, 1-7.	1.5	7
30	Influence of Lipid Composition on the Insertion Process of Glyphosate into Membranes: A Thermodynamic Study. <i>Journal of Physical Chemistry B</i> , 2021, 125, 184-192.	1.2	2
31	Electrodes based on nafion and epoxy-graphene composites for improving the performance and durability of open cathode fuel cells, prepared by electrospray deposition. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 13980-13989.	3.8	2
32	Physicochemical study of the acetonitrile insertion into polypyrrole films. <i>Journal of Chemical Physics</i> , 2010, 132, 144702.	1.2	0
33	Study of the insertion of a small symmetric star polymer into different phospholipid bilayers. <i>Journal of Molecular Structure</i> , 2020, 1222, 128888.	1.8	0