Marta Pasenkiewicz-Gierula

List of Publications by Year
in descending order

68 papers	4,344 citations	109137 35 h-index	106150 65 g-index
68 all docs	68 docs citations	68 times ranked	4135 citing authors

#	Article	IF	Citations
1	Role of cholesterol in maintaining the physical properties of the plasma membrane. , 2022, , 41-71.		0
2	Chirality affects cholesterol-oxysterol association in water, a computational study. Computational and Structural Biotechnology Journal, 2021, 19, 4319-4335.	1.9	2
3	Lutein and Zeaxanthin in the Lipid Bilayerâ€“Similarities and Differences Revealed by Computational Studies. Frontiers in Molecular Biosciences, 2021, 8, 768449.	1.6	5
4	Data for molecular dynamic simulations in the OPLSAA force field: Partial charges of cholesterol, C7-hydroxycholesterol and C7-hydroperoxycholesterol, torsional parameters for the hydroperoxy group of C7-hydroperoxycholesterol. Data in Brief, 2021, 39, 107483.	0.5	0
5	Formation of cholesterol Bilayer Domains Precedes Formation of Cholesterol Crystals in Membranes Made of the Major Phospholipids of Human Eye Lens Fiber Cell Plasma Membranes. Current Eye Research, 2020, 45, 162-172.	0.7	24
6	Network of lipid interconnections at the interfaces of galactolipid and phospholipid bilayers. Journal of Molecular Liquids, 2020, 298, 112002.	2.3	6
7	Hypothetical Pathway for Formation of Cholesterol Microcrystals Initiating the Atherosclerotic Process. Cell Biochemistry and Biophysics, 2020, 78, 241-247.	0.9	10
8	Inverse hexagonal phase of poly-unsaturated monogalactolipid: A computer model and analysis. Journal of Molecular Liquids, 2019, 290, 111189.	2.3	3
9	Asymmetric Spontaneous Intercalation of Lutein into a Phospholipid Bilayer, a Computational Study. Computational and Structural Biotechnology Journal, 2019, 17, 516-526.	1.9	11
10	Computer Modelling of the Lipid Matrix of Biomembranes. Springer Series on Bio- and Neurosystems, 2019, , 331-370.	0.2	1
11	Is the tilt of the lipid head group correlated with the number of intermolecular interactions at the bilayer interface?. FEBS Letters, 2018, 592, 1507-1515.	1.3	8
12	Is the cholesterol bilayer domain a barrier to oxygen transport into the eye lens?. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 434-441.	1.4	28
13	High Cholesterol/Low Cholesterol: Effects in Biological Membranes: A Review. Cell Biochemistry and Biophysics, 2017, 75, 369-385.	0.9	204
14	Assessing gastric toxicity of xanthone derivatives of anti-inflammatory activity using simulation and experimental approaches. Biophysical Chemistry, 2017, 220, 20-33.	1.5	5
15	Computer modelling studies of the bilayer/water interface. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 2305-2321.	1.4	53
16	Fitmunk: improving protein structures by accurate, automatic modeling of side-chain conformations. Acta Crystallographica Section D: Structural Biology, 2016, 72, 266-280.	1.1	25
17	Cis and trans unsaturated phosphatidylcholine bilayers: A molecular dynamics simulation study. Chemistry and Physics of Lipids, 2016, 195, 12-20.	1.5	69
18	A computer model of a polyunsaturated monogalactolipid bilayer. Biochimie, 2015, 118, 129-140.	1.3	15

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19	Properties of water hydrating the galactolipid and phospholipid bilayers: a molecular dynamics simulation study. Acta Biochimica Polonica, 2015, 62, 475-481.	0.3	10
20	Structural Properties of the Water/Membrane Interface of a Bilayer Built of the E. coli Lipid A. Journal of Physical Chemistry B, 2015, 119, 5846-5856.	1.2	14
21	Topologies, structures and parameter files for lipid simulations in GROMACS with the OPLS-aa force field: DPPC, POPC, DOPC, PEPC, and cholesterol. Data in Brief, 2015, 5, 333-336.	0.5	65
22	Computer Modelling of the Lipid Matrix of Biomembranes. Springer Series in Bio-/neuroinformatics, 2014, , 317-355.	0.1	0
23	Refined OPLS All-Atom Force Field for Saturated Phosphatidylcholine Bilayers at Full Hydration. Journal of Physical Chemistry B, 2014, 118, 4571-4581.	1.2	139
24	Comparative Computer Simulation Study of Cholesterol in Hydrated Unary and Binary Lipid Bilayers and in an Anhydrous Crystal. Journal of Physical Chemistry B, 2013, 117, 8758-8769.	1.2	23
25	Refined OPLS All-Atom Force Field Parameters for n-Pentadecane, Methyl Acetate, and Dimethyl Phosphate. Journal of Physical Chemistry B, 2013, 117, 16388-16396.	1.2	56
26	Strong preferences of dopamine and <scp>l</scp>â€dopa towards lipid head group: importance of lipid composition and implication for neurotransmitter metabolism. Journal of Neurochemistry, 2012, 122, 681-690.	2.1	51
27	Saturation with cholesterol increases vertical order and smoothes the surface of the phosphatidylcholine bilayer: A molecular simulation study. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 520-529.	1.4	49
28	Orientation of lutein in a lipid bilayer - revisited.. Acta Biochimica Polonica, 2012, 59, .	0.3	11
29	Orientation of lutein in a lipid bilayer - revisited. Acta Biochimica Polonica, 2012, 59, 115-8.	0.3	5
30	Comparative Model Studies of Gastric Toxicity of Nonsteroidal Anti-Inflammatory Drugs. Langmuir, 2011, 27, 6950-6961.	1.6	35
31	Properties of the Membrane Binding Component of Catechol-O-methyltransferase Revealed by Atomistic Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2011, 115, 13541-13550.	1.2	15
32	Study of PEGylated Lipid Layers as a Model for PEGylated Liposome Surfaces: Molecular Dynamics Simulation and Langmuir Monolayer Studies. Langmuir, 2011, 27, 7788-7798.	1.6	95
33	Communication: Consistent picture of lateral subdiffusion in lipid bilayers: Molecular dynamics simulation and exact results. Journal of Chemical Physics, 2011, 135, 141105.	1.2	115
34	Effects of the Lipid Bilayer Phase State on the Water Membrane Interface. Journal of Physical Chemistry B, 2010, 114, 11784-11792.	1.2	58
35	Ordering effects of cholesterol and its analogues. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 97-121.	1.4	506
36	Water Isotope Effect on the Phosphatidylcholine Bilayer Properties: A Molecular Dynamics Simulation Study. Journal of Physical Chemistry B, 2009, 113, 2378-2387.	1.2	51

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37	Nonpolar interactions between transâ€membrane helical EGF peptide and phosphatidylcholines, sphingomyelins and cholesterol. Molecular dynamics simulation studies. Journal of Peptide Science, 2008, 14, 374-382.	0.8	12
38	Interplay of Unsaturated Phospholipids and Cholesterol in Membranes: Effect of the Double-Bond Position. Biophysical Journal, 2008, 95, 3295-3305.	0.2	132
39	Replacing the Cholesterol Hydroxyl Group with the Ketone Group Facilitates Sterol Flip-Flop and Promotes Membrane Fluidity. Journal of Physical Chemistry B, 2008, 112, 1946-1952.	1.2	74
40	Effect of Double Bond Position on Lipid Bilayer Properties:â€‰ Insight through Atomistic Simulations. Journal of Physical Chemistry B, 2007, 111, 11162-11168.	1.2	65
41	What Happens if Cholesterol Is Made Smoother. Biophysical Journal, 2007, 92, 3346-3357.	0.2	99
42	Cholesterol-Sphingomyelin Interactions: A Molecular Dynamics Simulation Study. Biophysical Journal, 2006, 91, 3756-3767.	0.2	88
43	Tilt:Â Major Factor in Sterols' Ordering Capability in Membranes. Journal of Physical Chemistry B, 2006, 110, 25562-25564.	1.2	118
44	The behaviour of Î²-carotene in the phosphatidylcholine bilayer as revealed by a molecular simulation study. Chemistry and Physics of Lipids, 2005, 135, 27-37.	1.5	25
45	Phosphatidylethanolamine-Phosphatidylglycerol Bilayer as a Model of the Inner Bacterial Membrane. Biophysical Journal, 2005, 88, 1091-1103.	0.2	278
46	Effects of phospholipid unsaturation on the bilayer nonpolar region. Journal of Lipid Research, 2004, 45, 326-336.	2.0	60
47	Non-polar interactions between cholesterol and phospholipids: a molecular dynamics simulation study. Biophysical Chemistry, 2004, 107, 151-164.	1.5	52
48	Molecular dynamics study of 4-OH-phenylacetyl- D -Y(Me)FQNRPR-NH 2 selectivity to V1a receptor. Journal of Molecular Modeling, 2003, 9, 372-378.	0.8	7
49	Molecular Dynamics of 1-Palmitoyl-2-oleoylphosphatidylcholine Membranes Containing Transmembrane Î±-Helical Peptides with Alternating Leucine and Alanine Residues. Biochemistry, 2003, 42, 3939-3948.	1.2	45
50	Molecular dynamics simulations of charged and neutral lipid bilayers: treatment of electrostatic interactions.. Acta Biochimica Polonica, 2003, 50, 789-798.	0.3	37
51	Stereochemistry of terpene derivatives. Part 3: Hydrolytic kinetic resolution as a convenient approach to chiral aminohydroxyiminocaranes with local anaesthetic activity. Tetrahedron: Asymmetry, 2002, 13, 873-878.	1.8	17
52	The dynamics of water at the phospholipid bilayer surface: a molecular dynamics simulation study. Chemical Physics Letters, 2002, 352, 323-327.	1.2	68
53	Effects of Phospholipid Unsaturation on the Membrane/Water Interface: A Molecular Simulation Study. Biophysical Journal, 2001, 81, 170-183.	0.2	150
54	Fast Lipid Disorientation at the Onset of Membrane Fusion Revealed by Molecular Dynamics Simulations. Biophysical Journal, 2001, 81, 217-224.	0.2	45

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55	Cholesterol Effects on the Phosphatidylcholine Bilayer Nonpolar Region: A Molecular Simulation Study. Biophysical Journal, 2001, 81, 2190-2202.	0.2	146
56	Cholesterol effects on the phospholipid condensation and packing in the bilayer: a molecular simulation study. FEBS Letters, 2001, 502, 68-71.	1.3	60
57	Cholesterol Effects on the Phosphatidylcholine Bilayer Polar Region: A Molecular Simulation Study. Biophysical Journal, 2000, 78, 1376-1389.	0.2	212
58	Oriented Self-Association of Copper(II) Tetraphenylporphine in Liquid-Crystalline Lipid Bilayer Membranes:Â An EPR Study. Journal of the American Chemical Society, 1999, 121, 4054-4059.	6.6	3
59	G Protein-coupled receptor-bioligand interactions modeled in a phospholipid bilayer. International Journal of Quantum Chemistry, 1999, 73, 61-70.	1.0	5
60	Molecular Dynamics of a Vasopressin V2 Receptor in a Phospholipid Bilayer Membrane. Journal of Receptor and Signal Transduction Research, 1999, 19, 355-367.	1.3	7
61	Charge Pairing of Headgroups in Phosphatidylcholine Membranes: A Molecular Dynamics Simulation Study. Biophysical Journal, 1999, 76, 1228-1240.	0.2	192
62	Hydrogen Bonding of Water to Phosphatidylcholine in the Membrane As Studied by a Molecular Dynamics Simulation:â€‰ Location, Geometry, and Lipidâ^'Lipid Bridging via Hydrogen-Bonded Water. Journal of Physical Chemistry A, 1997, 101, 3677-3691.	1.1	223
63	Rotational diffusion of a steroid molecule in phosphatidylcholine-cholesterol membranes: fluid-phase microimmiscibility in unsaturated phosphatidylcholine-cholesterol membranes. Biochemistry, 1990, 29, 4059-4069.	1.2	75
64	Rotational diffusion of a steroid molecule in phosphatidylcholine membranes: effects of alkyl chain length, unsaturation, and cholesterol as studied by a spin-label method. Biochemistry, 1988, 27, 4407-4415.	1.2	41
65	Multifrequency ESR with Fourier analysis of copper(II)-(histidine)n. 2. Mobile phase. Inorganic Chemistry, 1987, 26, 801-805.	1.9	34
66	Adduct formation between the cupric site of phenylalanine hydroxylase from Chromobacterium violaceum and 6,7-dimethyltetrahydropterin. Biochemistry, 1987, 26, 4477-4483.	1.2	33
67	Spin-label studies on phosphatidylcholine-cholesterol membranes: effects of alkyl chain length and unsaturation in the fluid phase. Biochimica Et Biophysica Acta - Biomembranes, 1986, 854, 307-317.	1.4	141
68	Multifrequency ESR of copper(II)-(His)n (His = histidine). 1. Immobile phase. Inorganic Chemistry, 1986, 25, 3006-3010.	1.9	33