

Waldemar Kulig

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,465
citations

411340

20
h-index

371746

37
g-index

44
all docs

44
docs citations

44
times ranked

2322
citing authors

#	ARTICLE	IF	CITATIONS
1	Dimerization of the pulmonary surfactant protein C in a membrane environment. PLoS ONE, 2022, 17, e0267155.	1.1	5
2	Maturation of the SARS-CoV-2 virus is regulated by dimerization of its main protease. Computational and Structural Biotechnology Journal, 2022, 20, 3336-3346.	1.9	5
3	A cholesterol analog stabilizes the human β_2 -adrenergic receptor nonlinearly with temperature. Science Signaling, 2022, 15, .	1.6	8
4	Mcl-1 and Bok transmembrane domains: Unexpected players in the modulation of apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27980-27988.	3.3	19
5	Tail-Oxidized Cholesterol Enhances Membrane Permeability for Small Solutes. Langmuir, 2020, 36, 10438-10447.	1.6	24
6	Rigorous Computational Study Reveals What Docking Overlooks: Double Trouble from Membrane Association in Protein Kinase C Modulators. Journal of Chemical Information and Modeling, 2020, 60, 5624-5633.	2.5	6
7	Functionalization of the Parylene C Surface Enhances the Nucleation of Calcium Phosphate: Combined Experimental and Molecular Dynamics Simulations Approach. ACS Applied Materials & Interfaces, 2020, 12, 12426-12435.	4.0	12
8	Reduced level of docosahexaenoic acid shifts GPCR neuroreceptors to less ordered membrane regions. PLoS Computational Biology, 2019, 15, e1007033.	1.5	25
9	Multiscale Simulations of Biological Membranes: The Challenge To Understand Biological Phenomena in a Living Substance. Chemical Reviews, 2019, 119, 5607-5774.	23.0	209
10	Complex Behavior of Phosphatidylcholine-Phosphatidic Acid Bilayers and Monolayers: Effect of Acyl Chain Unsaturation. Langmuir, 2019, 35, 5944-5956.	1.6	27
11	Physiologically-relevant levels of sphingomyelin, but not GM1, induces a β -sheet-rich structure in the amyloid- β (1-42) monomer. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1709-1720.	1.4	22
12	Bobbing of Oxysterols: Molecular Mechanism for Translocation of Tail-Oxidized Sterols through Biological Membranes. Journal of Physical Chemistry Letters, 2018, 9, 1118-1123.	2.1	24
13	Cholesterol Protects the Oxidized Lipid Bilayer from Water Injury: An All-Atom Molecular Dynamics Study. Journal of Membrane Biology, 2018, 251, 521-534.	1.0	12
14	How to minimize dye-induced perturbations while studying biomembrane structure and dynamics: PEG linkers as a rational alternative. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 2436-2445.	1.4	31
15	Molecular Dynamics Insights into Water-Parylene C Interface: Relevance of Oxygen Plasma Treatment for Biocompatibility. ACS Applied Materials & Interfaces, 2017, 9, 16685-16693.	4.0	10
16	The Effect of Membrane Polyunsaturated Fatty Acids on Receptor Partitioning to Ordered Domains. Biophysical Journal, 2017, 112, 230a-231a.	0.2	0
17	Oxysterols Versus Cholesterol in Model Neuronal Membrane. I. The Case of 7-Ketocholesterol. The Langmuir Monolayer Study. Journal of Membrane Biology, 2017, 250, 553-564.	1.0	23
18	The role of hydrophobic matching on transmembrane helix packing in cells. Cell Stress, 2017, 1, 90-106.	1.4	37

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19	Cholesterol oxidation products and their biological importance. <i>Chemistry and Physics of Lipids</i> , 2016, 199, 144-160.	1.5	130
20	Cis and trans unsaturated phosphatidylcholine bilayers: A molecular dynamics simulation study. <i>Chemistry and Physics of Lipids</i> , 2016, 195, 12-20.	1.5	69
21	Mechanism of allosteric regulation of β_2 -adrenergic receptor by cholesterol. <i>ELife</i> , 2016, 5, .	2.8	115
22	Cholesterol under oxidative stress—How lipid membranes sense oxidation as cholesterol is being replaced by oxysterols. <i>Free Radical Biology and Medicine</i> , 2015, 84, 30-41.	1.3	57
23	Effect of Phosphatidic Acid on Biomembrane: Experimental and Molecular Dynamics Simulations Study. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10042-10051.	1.2	20
24	How To Minimize Artifacts in Atomistic Simulations of Membrane Proteins, Whose Crystal Structure Is Heavily Engineered: β_2 -Adrenergic Receptor in the Spotlight. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 3432-3445.	2.3	16
25	Toward Atomistic Resolution Structure of Phosphatidylcholine Headgroup and Glycerol Backbone at Different Ambient Conditions. <i>Journal of Physical Chemistry B</i> , 2015, 119, 15075-15088.	1.2	109
26	Topologies, structures and parameter files for lipid simulations in GROMACS with the OPLS-aa force field: DPPC, POPC, DOPC, PEPC, and cholesterol. <i>Data in Brief</i> , 2015, 5, 333-336.	0.5	65
27	Experimental determination and computational interpretation of biophysical properties of lipid bilayers enriched by cholesteryl hemisuccinate. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 422-432.	1.4	45
28	How well does cholesteryl hemisuccinate mimic cholesterol in saturated phospholipid bilayers?. <i>Journal of Molecular Modeling</i> , 2014, 20, 2121.	0.8	44
29	Both Zundel and Eigen Isomers Contribute to the IR Spectrum of the Gas-Phase H_9O_4^+ Cluster. <i>Journal of Physical Chemistry B</i> , 2014, 118, 278-286.	1.2	56
30	Deciphering the infrared spectrum of the protonated water pentamer and the hybrid Eigen—Zundel cation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 4933.	1.3	29
31	A “clusters-in-liquid” method for calculating infrared spectra identifies the proton-transfer mode in acidic aqueous solutions. <i>Nature Chemistry</i> , 2013, 5, 29-35.	6.6	109
32	Excited-state polarizability in crystalline sexithiophene: Charge-transfer and vibronic effects. <i>Chemical Physics Letters</i> , 2012, 529, 27-30.	1.2	4
33	Steric and Electronic Effects in the Host—Guest Hydrogen Bonding in Clathrate Hydrates. <i>Journal of Physical Chemistry A</i> , 2011, 115, 6149-6154.	1.1	20
34	Intermediate vibronic coupling in charge transfer states: Comprehensive calculation of electronic excitations in sexithiophene crystal. <i>Journal of Chemical Physics</i> , 2011, 134, 224505.	1.2	14
35	Vibronic coupling in Frenkel and charge-transfer states of oligothiophene crystals. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 408-411.	0.7	2
36	Absorption profile and femtosecond intraband relaxation of the intense upper Davydov component in oligothiophenes. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 412-415.	0.7	0

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37	Spectral shape of intense exciton absorption in oligothiophene crystals. <i>Physical Review B</i> , 2009, 79, .	1.1	12
38	Intraband relaxation of Frenkel excitons in sexithiophene crystals. <i>Physical Review B</i> , 2009, 80, .	1.1	6
39	Unusual features of the quaterthiophene electroabsorption spectrum. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 85-88.	0.8	2
40	Unbound exciton-phonon states in oligothiophene crystals – A model approach for spectroscopic purposes. <i>Chemical Physics</i> , 2008, 343, 100-106.	0.9	10
41	Reactivity of a sodium atom in vibrationally excited water clusters: An ab initio molecular dynamics study. <i>Chemical Physics Letters</i> , 2008, 460, 112-115.	1.2	6
42	A sodium atom in a large water cluster: Electron delocalization and infrared spectra. <i>Journal of Chemical Physics</i> , 2008, 128, 154306.	1.2	24