

Josh V Vermaas

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,765
citations

236612

25
h-index

329751

37
g-index

49
all docs

49
docs citations

49
times ranked

2481
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism of lignin inhibition of enzymatic biomass deconstruction. <i>Biotechnology for Biofuels</i> , 2015, 8, 217.	6.2	195
2	Supercomputer-Based Ensemble Docking Drug Discovery Pipeline with Application to Covid-19. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 5832-5852.	2.5	134
3	ChAdOx1 interacts with CAR and PF4 with implications for thrombosis with thrombocytopenia syndrome. <i>Science Advances</i> , 2021, 7, eabl8213.	4.7	112
4	Passive membrane transport of lignin-related compounds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 23117-23123.	3.3	94
5	CHARMM-GUI HMMM Builder for Membrane Simulations with the Highly Mobile Membrane-Mimetic Model. <i>Biophysical Journal</i> , 2015, 109, 2012-2022.	0.2	89
6	Effects of Lytic Polysaccharide Monooxygenase Oxidation on Cellulose Structure and Binding of Oxidized Cellulose Oligomers to Cellulases. <i>Journal of Physical Chemistry B</i> , 2015, 119, 6129-6143.	1.2	87
7	Advances in Multiscale Modeling of Lignocellulosic Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 3512-3531.	3.2	79
8	TopoGromacs: Automated Topology Conversion from CHARMM to GROMACS within VMD. <i>Journal of Chemical Information and Modeling</i> , 2016, 56, 1112-1116.	2.5	63
9	Systematic parameterization of lignin for the CHARMM force field. <i>Green Chemistry</i> , 2019, 21, 109-122.	4.6	51
10	Partitioning of Amino Acids into a Model Membrane: Capturing the Interface. <i>Journal of Physical Chemistry B</i> , 2014, 118, 1481-1492.	1.2	48
11	Molecular Lignin Solubility and Structure in Organic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17839-17850.	3.2	48
12	Conformational heterogeneity of α -synuclein in membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 3107-3117.	1.4	47
13	Automated Transformation of Lignin Topologies into Atomic Structures with LigninBuilder. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3443-3453.	3.2	47
14	Inhibitor binding influences the protonation states of histidines in SARS-CoV-2 main protease. <i>Chemical Science</i> , 2021, 12, 1513-1527.	3.7	47
15	Atomic-level description of protein-lipid interactions using an accelerated membrane model. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 1573-1583.	1.4	40
16	The dissociation mechanism of processive cellulases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 23061-23067.	3.3	40
17	Differential Membrane Binding Mechanics of Synaptotagmin Isoforms Observed in Atomic Detail. <i>Biochemistry</i> , 2017, 56, 281-293.	1.2	39
18	The cellular membrane as a mediator for small molecule interaction with membrane proteins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 2290-2304.	1.4	37

#	ARTICLE	IF	CITATIONS
19	A Microscopic View of Phospholipid Insertion into Biological Membranes. <i>Journal of Physical Chemistry B</i> , 2014, 118, 1754-1764.	1.2	36
20	A Quantitative Molecular Atlas for Interactions Between Lignin and Cellulose. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 19570-19583.	3.2	36
21	GPU-Accelerated Drug Discovery with Docking on the Summit Supercomputer. , 2020, , .		36
22	Mesoscale Reactionâ€“Diffusion Phenomena Governing Ligninâ€™s First Biomass Fractionation. <i>ChemSusChem</i> , 2020, 13, 4495-4509.	3.6	35
23	Efficient Exploration of Membrane-Associated Phenomena at Atomic Resolution. <i>Journal of Membrane Biology</i> , 2015, 248, 563-582.	1.0	33
24	Lignin-KMC: A Toolkit for Simulating Lignin Biosynthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18313-18322.	3.2	33
25	Electrostatic lock in the transport cycle of the multidrug resistance transporter EmrE. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7502-E7511.	3.3	32
26	Activity and Thermostability of GH5 Endoglucanase Chimeras from Mesophilic and Thermophilic Parents. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	28
27	High-throughput virtual laboratory for drug discovery using massive datasets. <i>International Journal of High Performance Computing Applications</i> , 2021, 35, 452-468.	2.4	24
28	Membrane Permeability of Fatty Acyl Compounds Studied via Molecular Simulation. <i>Journal of Physical Chemistry B</i> , 2017, 121, 11311-11324.	1.2	23
29	Membrane Permeability of Terpenoids Explored with Molecular Simulation. <i>Journal of Physical Chemistry B</i> , 2018, 122, 10349-10361.	1.2	21
30	Extension of the Highly Mobile Membrane Mimetic to Transmembrane Systems through Customized <i>in Silico</i> Solvents. <i>Journal of Physical Chemistry B</i> , 2017, 121, 3764-3776.	1.2	19
31	Supercomputing Pipelines Search for Therapeutics Against COVID-19. <i>Computing in Science and Engineering</i> , 2021, 23, 7-16.	1.2	19
32	Beyond the Boltzmann factor for corrections to scaling in ferromagnetic materials and critical fluids. <i>European Physical Journal B</i> , 2009, 71, 1-6.	0.6	17
33	Assembly and Analysis of Cell-Scale Membrane Envelopes. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 602-617.	2.5	17
34	Data-guided Multi-Map variables for ensemble refinement of molecular movies. <i>Journal of Chemical Physics</i> , 2020, 153, 214102.	1.2	12
35	Redox Potential Tuning through Differential Quinone Binding in the Photosynthetic Reaction Center of <i>Rhodobacter sphaeroides</i> . <i>Biochemistry</i> , 2015, 54, 2104-2116.	1.2	11
36	Exploring cryo-electron microscopy with molecular dynamics. <i>Biochemical Society Transactions</i> , 2022, 50, 569-581.	1.6	10

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37	Q-Band Electron-Nuclear Double Resonance Reveals Out-of-Plane Hydrogen Bonds Stabilize an Anionic Ubisemiquinone in Cytochrome bo3 from Escherichia coli. <i>Biochemistry</i> , 2016, 55, 5714-5725.	1.2	9
38	Microscopic Characterization of Membrane Transporter Function by In Silico Modeling and Simulation. <i>Methods in Enzymology</i> , 2016, 578, 373-428.	0.4	8
39	Characterization of 2- and 3-Methoxy in Ubiquinone Binding and Redox Tuning within the Photosynthetic Reaction Center of Rhodobacter Sphaeroides. <i>Biophysical Journal</i> , 2014, 106, 370a.	0.2	0
40	Advances in Atomic-Level Simulations of Large-Scale Functional Motions of Membrane Transporters. <i>Biophysical Journal</i> , 2015, 108, 371a.	0.2	0
41	Chapter 7. Computational Characterization of Molecular Mechanisms of Membrane Transporter Function. <i>RSC Theoretical and Computational Chemistry Series</i> , 2016, , 197-236.	0.7	0
42	Plant terpenoid permeability through biological membranes explored via molecular simulations. <i>Biophysical Journal</i> , 2022, 121, 72a.	0.2	0
43	Lipid specificity of the membrane binding signal protein PLAFP. <i>Biophysical Journal</i> , 2022, 121, 433a-434a.	0.2	0
44	Correlating the transport cycle of small multidrug resistance transporters. <i>Biophysical Journal</i> , 2022, 121, 393a-394a.	0.2	0