

Cesar A LÃ³pez

List of Publications by Year in descending order

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39
papers

3,881
citations

257101

24
h-index

301761

39
g-index

43
all docs

43
docs citations

43
times ranked

6200
citing authors

#	ARTICLE	IF	CITATIONS
1	Lipid Organization of the Plasma Membrane. Journal of the American Chemical Society, 2014, 136, 14554-14559.	6.6	734
2	Permeability Barrier of Gram-Negative Cell Envelopes and Approaches To Bypass It. ACS Infectious Diseases, 2015, 1, 512-522.	1.8	442
3	The power of coarse graining in biomolecular simulations. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2014, 4, 225-248.	6.2	423
4	Martini Coarse-Grained Force Field: Extension to Carbohydrates. Journal of Chemical Theory and Computation, 2009, 5, 3195-3210.	2.3	363
5	Broadly targeted CD8 ⁺ T cell responses restricted by major histocompatibility complex E. Science, 2016, 351, 714-720.	6.0	260
6	Martini Force Field Parameters for Glycolipids. Journal of Chemical Theory and Computation, 2013, 9, 1694-1708.	2.3	166
7	Molecular Mechanism of Cyclodextrin Mediated Cholesterol Extraction. PLoS Computational Biology, 2011, 7, e1002020.	1.5	165
8	Lack of Durable Cross-Neutralizing Antibodies Against Zika Virus from Dengue Virus Infection. Emerging Infectious Diseases, 2017, 23, 773-781.	2.0	141
9	Crystal structure of a 117 kDa glucanucrase fragment provides insight into evolution and product specificity of GH70 enzymes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21406-21411.	3.3	140
10	Computational microscopy of cyclodextrin mediated cholesterol extraction from lipid model membranes. Scientific Reports, 2013, 3, 2071.	1.6	101
11	Molecular view on protein sorting into liquid-ordered membrane domains mediated by gangliosides and lipid anchors. Faraday Discussions, 2013, 161, 347-363.	1.6	76
12	Amylose folding under the influence of lipids. Carbohydrate Research, 2012, 364, 1-7.	1.1	72
13	Molecular recognition of RAS/RAF complex at the membrane: Role of RAF cysteine-rich domain. Scientific Reports, 2018, 8, 8461.	1.6	71
14	Capturing Phase Behavior of Ternary Lipid Mixtures with a Refined Martini Coarse-Grained Force Field. Journal of Chemical Theory and Computation, 2018, 14, 6050-6062.	2.3	63
15	Visualization of the HIV-1 Env glycan shield across scales. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28014-28025.	3.3	57
16	Disaccharides Impact the Lateral Organization of Lipid Membranes. Journal of the American Chemical Society, 2014, 136, 16167-16175.	6.6	55
17	MARTINI Coarse-Grained Model for Crystalline Cellulose Microfibers. Journal of Physical Chemistry B, 2015, 119, 465-473.	1.2	54
18	Development of Envelope Protein Antigens To Serologically Differentiate Zika Virus Infection from Dengue Virus Infection. Journal of Clinical Microbiology, 2018, 56, .	1.8	53

#	ARTICLE	IF	CITATIONS
19	Machine learning-driven multiscale modeling reveals lipid-dependent dynamics of RAS signaling proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	44
20	Uncovering a membrane-distal conformation of KRAS available to recruit RAF to the plasma membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24258-24268.	3.3	34
21	Residue Leu940 Has a Crucial Role in the Linkage and Reaction Specificity of the Glucanucrase GTF180 of the Probiotic Bacterium <i>Lactobacillus reuteri</i> 180. <i>Journal of Biological Chemistry</i> , 2014, 289, 32773-32782.	1.6	33
22	Dynamics of Intact MexAB-OprM Efflux Pump: Focusing on the MexA-OprM Interface. <i>Scientific Reports</i> , 2017, 7, 16521.	1.6	30
23	Molecular characterization of the outer membrane of <i>Pseudomonas aeruginosa</i> . <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183151.	1.4	28
24	Predictive Rules of Efflux Inhibition and Avoidance in <i>Pseudomonas aeruginosa</i> . <i>MBio</i> , 2021, 12, .	1.8	28
25	Membrane perturbing properties of toxin mycolactone from <i>Mycobacterium ulcerans</i> . <i>PLoS Computational Biology</i> , 2018, 14, e1005972.	1.5	28
26	Oligomeric state of the ZIKV E protein defines protective immune responses. <i>Nature Communications</i> , 2019, 10, 4606.	5.8	22
27	Efficient transplacental IgG transfer in women infected with Zika virus during pregnancy. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007648.	1.3	22
28	Membrane-Mediated Regulation of the Intrinsically Disordered CD3 μ Cytoplasmic Tail of the TCR. <i>Biophysical Journal</i> , 2015, 108, 2481-2491.	0.2	21
29	Machine Learning Algorithm Identifies an Antibiotic Vocabulary for Permeating Gram-Negative Bacteria. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 2838-2847.	2.5	21
30	Molecular origins of reduced activity and binding commitment of processive cellulases and associated carbohydrate-binding proteins to cellulose III. <i>Journal of Biological Chemistry</i> , 2021, 296, 100431.	1.6	20
31	Biophysical Characterization of a Nanodisc with and without BAX: An Integrative Study Using Molecular Dynamics Simulations and Cryo-EM. <i>Structure</i> , 2019, 27, 988-999.e4.	1.6	19
32	Unsupervised Machine Learning for Analysis of Phase Separation in Ternary Lipid Mixture. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 6343-6357.	2.3	18
33	Effect of Glycosylation on an Immunodominant Region in the V1V2 Variable Domain of the HIV-1 Envelope gp120 Protein. <i>PLoS Computational Biology</i> , 2016, 12, e1005094.	1.5	17
34	Two distinct anionic phospholipid-dependent events involved in SecA-mediated protein translocation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 183035.	1.4	16
35	Anionic Lipids Impact RAS-Binding Site Accessibility and Membrane Binding Affinity of CRAF RBD-CRD. <i>Biophysical Journal</i> , 2020, 119, 525-538.	0.2	13
36	Exploring CRD mobility during RAS/RAF engagement at the membrane. <i>Biophysical Journal</i> , 2022, 121, 3630-3650.	0.2	9

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37	Development of Martini 2.2 parameters for<i>N</i>-glycans: a case study of the HIV-1 Env glycoprotein dynamics. Glycobiology, 2021, 31, 787-799.	1.3	7
38	Sequence- and structure-based computational analyses of Gram-negative tripartite efflux pumps in the context of bacterial membranes. Research in Microbiology, 2018, 169, 414-424.	1.0	6
39	Unveiling the Dynamics of KRAS4b on Lipid Model Membranes. Journal of Membrane Biology, 2021, 254, 201-216.	1.0	6