

# Patrick F J Fuchs

## List of Publications by Year in descending order

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35  
papers

1,668  
citations

394421

19  
h-index

377865

34  
g-index

36  
all docs

36  
docs citations

36  
times ranked

2302  
citing authors

#	ARTICLE	IF	CITATIONS
1	Amphipathic Lipid Packing Sensor Motifs: Probing Bilayer Defects with Hydrophobic Residues. <i>Biophysical Journal</i> , 2013, 104, 575-584.	0.5	171
2	Conformational Dependence of Collagenase (Matrix Metalloproteinase-1) Up-regulation by Elastin Peptides in Cultured Fibroblasts. <i>Journal of Biological Chemistry</i> , 2001, 276, 5222-5227.	3.4	153
3	Conical Lipids in Flat Bilayers Induce Packing Defects Similar to that Induced by Positive Curvature. <i>Biophysical Journal</i> , 2013, 104, 585-593.	0.5	149
4	A GROMOS-Compatible Force Field for Small Organic Molecules in the Condensed Phase: The 2016H66 Parameter Set. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 3825-3850.	5.3	118
5	New Interaction Parameters for Oxygen Compounds in the GROMOS Force Field: Improved Pure-Liquid and Solvation Properties for Alcohols, Ethers, Aldehydes, Ketones, Carboxylic Acids, and Esters. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 1016-1031.	5.3	112
6	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.	2.6	109
7	Interdigitation between Triglycerides and Lipids Modulates Surface Properties of Lipid Droplets. <i>Biophysical Journal</i> , 2017, 112, 1417-1430.	0.5	102
8	High accuracy prediction of $\beta$ -turns and their types using propensities and multiple alignments. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 59, 828-839.	2.6	101
9	On the Orientation of a Designed Transmembrane Peptide: Toward the Right Tilt Angle?. <i>Journal of the American Chemical Society</i> , 2007, 129, 15174-15181.	13.7	96
10	Coarse-Grained Simulations of the HIV-1 Matrix Protein Anchoring: Revisiting Its Assembly on Membrane Domains. <i>Biophysical Journal</i> , 2014, 106, 577-585.	0.5	71
11	A GROMOS Parameter Set for Vicinal Diether Functions: Properties of Polyethyleneoxide and Polyethyleneglycol. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 3943-3963.	5.3	61
12	Kinetics and Thermodynamics of Type VIII $\beta$ -Turn Formation: A CD, NMR, and Microsecond Explicit Molecular Dynamics Study of the GDNF Tetrapeptide. <i>Biophysical Journal</i> , 2006, 90, 2745-2759.	0.5	44
13	Interpretation of 2H-NMR Experiments on the Orientation of the Transmembrane Helix WALP23 by Computer Simulations. <i>Biophysical Journal</i> , 2010, 99, 1455-1464.	0.5	43
14	The heptad repeat domain 1 of Mitofusin has membrane destabilization function in mitochondrial fusion. <i>EMBO Reports</i> , 2018, 19, .	4.5	39
15	Amphipathic-Lipid-Packing-Sensor interactions with lipids assessed by atomistic molecular dynamics. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 2119-2127.	2.6	35
16	Modeling and Molecular Dynamics of HPA-1a and -1b Polymorphisms: Effects on the Structure of the $\beta$ 3 Subunit of the $\alpha$ IIb $\beta$ 3 Integrin. <i>PLoS ONE</i> , 2012, 7, e47304.	2.5	33
17	Nuclear pore targeting of the yeast Pom33 nucleoporin depends on karyopherin- and lipid-binding. <i>Journal of Cell Science</i> , 2015, 128, 305-16.	2.0	29
18	Influence of the Treatment of Nonbonded Interactions on the Thermodynamic and Transport Properties of Pure Liquids Calculated Using the 2016H66 Force Field. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 1806-1826.	5.3	28

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19	NMR and molecular dynamics studies of an autoimmune myelin basic protein peptide and its antagonist. <i>FEBS Journal</i> , 2004, 271, 3399-3413.	0.2	20
20	Modeling and molecular dynamics simulations of the V33 variant of the integrin subunit $\beta$ 3: Structural comparison with the L33 (HPA-1a) and P33 (HPA-1b) variants. <i>Biochimie</i> , 2014, 105, 84-90.	2.6	20
21	Inverse Conformational Selection in Lipid-Protein Binding. <i>Journal of the American Chemical Society</i> , 2021, 143, 13701-13709.	13.7	16
22	Biophysical Insight on the Membrane Insertion of an Arginine-Rich Cell-Penetrating Peptide. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4441.	4.1	14
23	CX3CL1 homo-oligomerization drives cell-to-cell adherence. <i>Scientific Reports</i> , 2020, 10, 9069.	3.3	13
24	Simulating Bilayers of Nonionic Surfactants with the GROMOS-Compatible 2016H66 Force Field. <i>Langmuir</i> , 2017, 33, 10225-10238.	3.5	12
25	Effect of Dimethyl Sulfoxide on the Binding of 1-Adamantane Carboxylic Acid to $\beta$ 2- and $\beta$ 3-Cyclodextrins. <i>ACS Omega</i> , 2018, 3, 1014-1021.	3.5	12
26	On the Effect of the Various Assumptions and Approximations used in Molecular Simulations on the Properties of Bio-Molecular Systems: Overview and Perspective on Issues. <i>ChemPhysChem</i> , 2021, 22, 264-282.	2.1	12
27	Cooperation of Conical and Polyunsaturated Lipids to Regulate Initiation and Processing of Membrane Fusion. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 763115.	3.5	11
28	Insights on pH-dependent conformational changes of mosquito odorant binding proteins by molecular dynamics simulations. <i>Journal of Biomolecular Structure and Dynamics</i> , 2014, 32, 1742-1751.	3.5	10
29	How to best estimate the viscosity of lipid bilayers. <i>Biophysical Chemistry</i> , 2022, 281, 106732.	2.8	8
30	Molecular Study of Ultrasound-Triggered Release of Fluorescein from Liposomes. <i>Langmuir</i> , 2021, 37, 3868-3881.	3.5	7
31	Structural Bases for the Involvement of Phosphatidylinositol-4,5-bisphosphate in the Internalization of the Cell-Penetrating Peptide Penetratin. <i>ACS Chemical Biology</i> , 2022, 17, 1427-1439.	3.4	6
32	Targeting surface voids to counter membrane disorders in lipointoxication-related diseases. <i>Journal of Cell Science</i> , 2016, 129, 2368-81.	2.0	5
33	Molecular Dynamics of Membrane Peptides and Proteins: Principles and Comparison to Experimental Data. <i>Methods in Molecular Biology</i> , 2010, 654, 403-421.	0.9	4
34	Meet-U: Educating through research immersion. <i>PLoS Computational Biology</i> , 2018, 14, e1005992.	3.2	4
35	buildH: Build hydrogen atoms from united-atom molecular dynamics of lipids and calculate the order parameters. <i>Journal of Open Source Software</i> , 2021, 6, 3521.	4.6	0