

# Richard W Pastor

## List of Publications by Year in descending order

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120  
papers

20,252  
citations

23567

58  
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18647

119  
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121  
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121  
docs citations

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times ranked

17239  
citing authors

#	ARTICLE	IF	CITATIONS
1	Constant pressure molecular dynamics simulation: The Langevin piston method. <i>Journal of Chemical Physics</i> , 1995, 103, 4613-4621.	3.0	3,818
2	Update of the CHARMM All-Atom Additive Force Field for Lipids: Validation on Six Lipid Types. <i>Journal of Physical Chemistry B</i> , 2010, 114, 7830-7843.	2.6	3,676
3	Langevin dynamics of peptides: The frictional dependence of isomerization rates of N-acetylalanine-N'-methylamide. <i>Biopolymers</i> , 1992, 32, 523-535.	2.4	922
4	An analysis of the accuracy of Langevin and molecular dynamics algorithms. <i>Molecular Physics</i> , 1988, 65, 1409-1419.	1.7	865
5	CHARMM Additive All-Atom Force Field for Glycosidic Linkages between Hexopyranoses. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 2353-2370.	5.3	578
6	Additive empirical force field for hexopyranose monosaccharides. <i>Journal of Computational Chemistry</i> , 2008, 29, 2543-2564.	3.3	483
7	Molecular Dynamics Studies of Polyethylene Oxide and Polyethylene Glycol: Hydrodynamic Radius and Shape Anisotropy. <i>Biophysical Journal</i> , 2008, 95, 1590-1599.	0.5	415
8	Effect of Electrostatic Force Truncation on Interfacial and Transport Properties of Water. <i>The Journal of Physical Chemistry</i> , 1996, 100, 17011-17020.	2.9	369
9	Computer simulation of liquid/liquid interfaces. I. Theory and application to octane/water. <i>Journal of Chemical Physics</i> , 1995, 103, 10252-10266.	3.0	341
10	A Coarse-Grained Model for Polyethylene Oxide and Polyethylene Glycol: Conformation and Hydrodynamics. <i>Journal of Physical Chemistry B</i> , 2009, 113, 13186-13194.	2.6	338
11	Importance of the CMAP Correction to the CHARMM22 Protein Force Field: Dynamics of Hen Lysozyme. <i>Biophysical Journal</i> , 2006, 90, L36-L38.	0.5	321
12	An ab Initio Study on the Torsional Surface of Alkanes and Its Effect on Molecular Simulations of Alkanes and a DPPC Bilayer. <i>Journal of Physical Chemistry B</i> , 2005, 109, 5300-5311.	2.6	303
13	Constant surface tension simulations of lipid bilayers: The sensitivity of surface areas and compressibilities. <i>Journal of Chemical Physics</i> , 1999, 111, 1281-1287.	3.0	277
14	Mechanical properties of lipid bilayers from molecular dynamics simulation. <i>Chemistry and Physics of Lipids</i> , 2015, 192, 60-74.	3.2	250
15	Additive and Classical Drude Polarizable Force Fields for Linear and Cyclic Ethers. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 1120-1133.	5.3	233
16	Simulation-Based Methods for Interpreting X-Ray Data from Lipid Bilayers. <i>Biophysical Journal</i> , 2006, 90, 2796-2807.	0.5	219
17	The Molecular Structure of the Liquid-Ordered Phase of Lipid Bilayers. <i>Journal of the American Chemical Society</i> , 2014, 136, 725-732.	13.7	217
18	Molecular Dynamics Simulations of Membrane Permeability. <i>Chemical Reviews</i> , 2019, 119, 5954-5997.	47.7	214

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19	CHARMM All-Atom Additive Force Field for Sphingomyelin: Elucidation of Hydrogen Bonding and of Positive Curvature. <i>Biophysical Journal</i> , 2014, 107, 134-145.	0.5	192
20	Computer Simulation of a DPPC Phospholipid Bilayer: Structural Changes as a Function of Molecular Surface Area. <i>Langmuir</i> , 1997, 13, 6555-6561.	3.5	189
21	Computer simulation of liquid/liquid interfaces. II. Surface tension area dependence of a bilayer and monolayer. <i>Journal of Chemical Physics</i> , 1995, 103, 10267-10276.	3.0	184
22	Simulations of Anionic Lipid Membranes: Development of Interaction-Specific Ion Parameters and Validation Using NMR Data. <i>Journal of Physical Chemistry B</i> , 2013, 117, 10183-10192.	2.6	181
23	Molecular dynamics and Monte Carlo simulations of lipid bilayers. <i>Current Opinion in Structural Biology</i> , 1994, 4, 486-492.	5.7	179
24	Single Molecule Diffusion of Membrane-Bound Proteins: Window into Lipid Contacts and Bilayer Dynamics. <i>Biophysical Journal</i> , 2010, 99, 2879-2887.	0.5	161
25	Solution structure and dynamics of linked cell attachment modules of mouse fibronectin containing the RGD and synergy regions: comparison with the human fibronectin crystal structure 1 Edited by P. E. Wright. <i>Journal of Molecular Biology</i> , 1998, 277, 663-682.	4.2	146
26	Diffusion limited first contact of the ends of a polymer: Comparison of theory with simulation. <i>Journal of Chemical Physics</i> , 1996, 105, 3878-3882.	3.0	143
27	Molecular Dynamics Simulations of Octyl Glucoside Micelles: Structural Properties. <i>Journal of Physical Chemistry B</i> , 2000, 104, 5462-5470.	2.6	135
28	Brownian dynamics simulation of a lipid chain in a membrane bilayer. <i>Journal of Chemical Physics</i> , 1988, 89, 1112-1127.	3.0	129
29	Lipid Bilayers, NMR Relaxation, and Computer Simulations. <i>Accounts of Chemical Research</i> , 2002, 35, 438-446.	15.6	129
30	Frictional models for stochastic simulations of proteins. <i>Biopolymers</i> , 1988, 27, 1001-1014.	2.4	123
31	Hexagonal Substructure and Hydrogen Bonding in Liquid-Ordered Phases Containing Palmitoyl Sphingomyelin. <i>Biophysical Journal</i> , 2015, 109, 948-955.	0.5	121
32	Dynamical motions of lipids and a finite size effect in simulations of bilayers. <i>Journal of Chemical Physics</i> , 2006, 125, 144710.	3.0	117
33	Theoretically Determined Three-Dimensional Structures for Amphipathic Segments of the HIV-1 gp41 Envelope Protein. <i>AIDS Research and Human Retroviruses</i> , 1989, 5, 7-22.	1.1	113
34	A simulation based model of NMRT1 relaxation in lipid bilayer vesicles. <i>Journal of Chemical Physics</i> , 1988, 89, 1128-1140.	3.0	112
35	Positional time correlation function for one-dimensional systems with barrier crossing: Memory function corrections to the optimized Rouse Zimm approximation. <i>Journal of Chemical Physics</i> , 1993, 98, 564-573.	3.0	112
36	Coarse-Grained Model for PEGylated Lipids: Effect of PEGylation on the Size and Shape of Self-Assembled Structures. <i>Journal of Physical Chemistry B</i> , 2011, 115, 7830-7837.	2.6	104

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37	Mean field stochastic boundary molecular dynamics simulation of a phospholipid in a membrane. <i>Biochemistry</i> , 1991, 30, 2099-2113.	2.5	102
38	Parametrization of the friction constant for stochastic simulations of polymers. <i>The Journal of Physical Chemistry</i> , 1988, 92, 2636-2641.	2.9	101
39	Molecular dynamics simulations of gel ( $L^2I$ ) phase lipid bilayers in constant pressure and constant surface area ensembles. <i>Journal of Chemical Physics</i> , 2000, 112, 4822-4832.	3.0	98
40	Pressure-Based Long-Range Correction for Lennard-Jones Interactions in Molecular Dynamics Simulations: Application to Alkanes and Interfaces. <i>Journal of Physical Chemistry B</i> , 2004, 108, 363-368.	2.6	96
41	A Molecular Dynamics Study of the Response of Lipid Bilayers and Monolayers to Trehalose. <i>Biophysical Journal</i> , 2005, 89, 4111-4121.	0.5	94
42	Rotation of Lipids in Membranes: Molecular Dynamics Simulation, $31P$ Spin-Lattice Relaxation, and Rigid-Body Dynamics. <i>Biophysical Journal</i> , 2008, 94, 3074-3083.	0.5	94
43	Depth of $\beta$ -Synuclein in a Bilayer Determined by Fluorescence, Neutron Reflectometry, and Computation. <i>Biophysical Journal</i> , 2012, 102, 613-621.	0.5	94
44	Influence of Hydrophobic Mismatch on Structures and Dynamics of Gramicidin A and Lipid Bilayers. <i>Biophysical Journal</i> , 2012, 102, 1551-1560.	0.5	92
45	Determination of Biomembrane Bending Moduli in Fully Atomistic Simulations. <i>Journal of the American Chemical Society</i> , 2014, 136, 13582-13585.	13.7	92
46	Lipid and Peptide Diffusion in Bilayers: The Saffman-Delbrück Model and Periodic Boundary Conditions. <i>Journal of Physical Chemistry B</i> , 2017, 121, 3443-3457.	2.6	91
47	Molecular Dynamics Simulations of the Influenza Hemagglutinin Fusion Peptide in Micelles and Bilayers: Conformational Analysis of Peptide and Lipids. <i>Journal of Molecular Biology</i> , 2005, 354, 1129-1141.	4.2	83
48	Molecular Dynamics Simulations of Octyl Glucoside Micelles: Dynamic Properties. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8312-8321.	2.6	79
49	Long-Range Lennard-Jones and Electrostatic Interactions in Interfaces: Application of the Isotropic Periodic Sum Method. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4393-4400.	2.6	78
50	Molecular Dynamics Studies of Ion Permeation in VDAC. <i>Biophysical Journal</i> , 2011, 100, 602-610.	0.5	78
51	High-Resolution Structures and Orientations of Antimicrobial Peptides Piscidin 1 and Piscidin 3 in Fluid Bilayers Reveal Tilting, Kinking, and Bilayer Immersion. <i>Journal of the American Chemical Society</i> , 2014, 136, 3491-3504.	13.7	78
52	Permeability of membranes in the liquid ordered and liquid disordered phases. <i>Nature Communications</i> , 2019, 10, 5616.	12.8	78
53	Evidence for a fence that impedes the diffusion of phosphatidylinositol 4,5-bisphosphate out of the forming phagosomes of macrophages. <i>Molecular Biology of the Cell</i> , 2011, 22, 3498-3507.	2.1	71
54	Strong influence of periodic boundary conditions on lateral diffusion in lipid bilayer membranes. <i>Journal of Chemical Physics</i> , 2015, 143, 243113.	3.0	70

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55	Bending Free Energy from Simulation: Correspondence of Planar and Inverse Hexagonal Lipid Phases. <i>Biophysical Journal</i> , 2013, 104, 2202-2211.	0.5	69
56	Simulations of Membranes and Other Interfacial Systems Using P21 and Pc Periodic Boundary Conditions. <i>Biophysical Journal</i> , 2002, 82, 2317-2325.	0.5	66
57	Molecular Dynamics Simulations of PIP2 and PIP3 in Lipid Bilayers: Determination of Ring Orientation, and the Effects of Surface Roughness on a Poisson-Boltzmann Description. <i>Biophysical Journal</i> , 2009, 97, 155-163.	0.5	66
58	Theory of Polymer-Nanopore Interactions Refined Using Molecular Dynamics Simulations. <i>Journal of the American Chemical Society</i> , 2013, 135, 7064-7072.	13.7	65
59	Molecular Modeling of Lipid Membrane Curvature Induction by a Peptide: More than Simply Shape. <i>Biophysical Journal</i> , 2014, 106, 1958-1969.	0.5	64
60	Structure and Elasticity of Lipid Membranes with Genistein and Daidzein Bioflavonoids Using X-ray Scattering and MD Simulations. <i>Journal of Physical Chemistry B</i> , 2012, 116, 3918-3927.	2.6	61
61	Structure and Function in Antimicrobial Piscidins: Histidine Position, Directionality of Membrane Insertion, and pH-Dependent Permeabilization. <i>Journal of the American Chemical Society</i> , 2019, 141, 9837-9853.	13.7	60
62	Brownian Dynamics Simulations of Ion Transport through the VDAC. <i>Biophysical Journal</i> , 2011, 100, 611-619.	0.5	56
63	Simulations of Membrane-Disrupting Peptides II: AMP Piscidin 1 Favors Surface Defects over Pores. <i>Biophysical Journal</i> , 2016, 111, 1258-1266.	0.5	56
64	A dual apolipoprotein C-II mimetic-apolipoprotein C-III antagonist peptide lowers plasma triglycerides. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	56
65	Chapter 1 Considerations for Lipid Force Field Development. <i>Current Topics in Membranes</i> , 2008, , 1-48.	0.9	54
66	Adjacent Gauche Stabilization in Linear Alkanes: Implications for Polymer Models and Conformational Analysis. <i>Journal of Physical Chemistry B</i> , 2005, 109, 15684-15686.	2.6	53
67	Collective and Noncollective Models of NMR Relaxation in Lipid Vesicles and Multilayers. <i>Journal of Physical Chemistry B</i> , 2008, 112, 5924-5929.	2.6	53
68	Position-Dependent Diffusion Tensors in Anisotropic Media from Simulation: Oxygen Transport in and through Membranes. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 2962-2976.	5.3	52
69	Distinguishing Anisotropy and Flexibility of the Pentasaccharide LNF-1 in Solution by Carbon-13 NMR Relaxation and Hydrodynamic Modeling. <i>Journal of the American Chemical Society</i> , 1999, 121, 11847-11854.	13.7	51
70	Comparison of Additive and Polarizable Models with Explicit Treatment of Long-Range Lennard-Jones Interactions Using Alkane Simulations. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 948-958.	5.3	50
71	Synexin: Molecular Mechanism of Calcium-Dependent Membrane Fusion and Voltage-Dependent Calcium-Channel Activity.. <i>Annals of the New York Academy of Sciences</i> , 1991, 635, 328-351.	3.8	49
72	Comparing Simulated and Experimental Translation and Rotation Constants: Range of Validity for Viscosity Scaling. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12501-12507.	2.6	49

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73	Comparison of Langevin and molecular dynamics simulations. Equilibrium and dynamics of ethylene glycol in water. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992, 88, 1747.	1.7	48
74	Molecular Dynamics Simulations of Neat Alkanes: The Viscosity Dependence of Rotational Relaxation. <i>The Journal of Physical Chemistry</i> , 1996, 100, 2652-2660.	2.9	48
75	Ab Initio Modeling of Glycosyl Torsions and Anomeric Effects in a Model Carbohydrate: 2-Ethoxy Tetrahydropyran. <i>Biophysical Journal</i> , 2007, 93, 1-10.	0.5	48
76	Gramicidin A Channel Formation Induces Local Lipid Redistribution I: Experiment and Simulation. <i>Biophysical Journal</i> , 2017, 112, 1185-1197.	0.5	48
77	Structure and Dynamics of Helix-0 of the N-BAR Domain in Lipid Micelles and Bilayers. <i>Biophysical Journal</i> , 2008, 95, 4315-4323.	0.5	47
78	Comparison of the Extended Isotropic Periodic Sum and Particle Mesh Ewald Methods for Simulations of Lipid Bilayers and Monolayers. <i>Journal of Physical Chemistry B</i> , 2009, 113, 5855-5862.	2.6	47
79	Theoretic Analysis of Monomethyl Phosphate Clustering in Ionic Solutions. <i>Journal of Physical Chemistry B</i> , 2018, 122, 1484-1494.	2.6	46
80	CHARMM36 Lipid Force Field with Explicit Treatment of Long-Range Dispersion: Parametrization and Validation for Phosphatidylethanolamine, Phosphatidylglycerol, and Ether Lipids. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 1581-1595.	5.3	45
81	Simulations of Membrane-Disrupting Peptides I: Alamethicin Pore Stability and Spontaneous Insertion. <i>Biophysical Journal</i> , 2016, 111, 1248-1257.	0.5	44
82	Inertial effects in butane stochastic dynamics. <i>Journal of Chemical Physics</i> , 1989, 91, 211-218.	3.0	43
83	Web interface for brownian dynamics simulation of ion transport and its applications to beta-barrel pores. <i>Journal of Computational Chemistry</i> , 2012, 33, 331-339.	3.3	43
84	Membrane permeability of small molecules from unbiased molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2020, 153, 124107.	3.0	42
85	Resonance Raman studies of macrocyclic complexes. 2. Antiresonance and selective intensity enhancement in synthetic metal(II) porphyrin analogs. <i>Journal of the American Chemical Society</i> , 1976, 98, 8007-8014.	13.7	41
86	The Curvature Induction of Surface-Bound Antimicrobial Peptides Piscidin 1 and Piscidin 3 Varies with Lipid Chain Length. <i>Journal of Membrane Biology</i> , 2015, 248, 455-467.	2.1	40
87	Semi-automated Optimization of the CHARMM36 Lipid Force Field to Include Explicit Treatment of Long-Range Dispersion. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 1562-1580.	5.3	39
88	Resonance Raman studies of macrocyclic complexes. 1. Structural and electronic effects in synthetic metal(II) porphyrin analogs. <i>Journal of the American Chemical Society</i> , 1976, 98, 7999-8006.	13.7	36
89	Tertiary structure of apolipoprotein A-I in nascent high-density lipoproteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5163-5168.	7.1	35
90	Parameterization of the CHARMM All-Atom Force Field for Ether Lipids and Model Linear Ethers. <i>Journal of Physical Chemistry B</i> , 2018, 122, 6744-6754.	2.6	28

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91	Structural properties of apolipoprotein A-I mimetic peptides that promote ABCA1-dependent cholesterol efflux. <i>Scientific Reports</i> , 2018, 8, 2956.	3.3	27
92	Surface Shear Viscosity and Interleaflet Friction from Nonequilibrium Simulations of Lipid Bilayers. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 6471-6481.	5.3	27
93	Conformational sampling of hydrocarbon and lipid chains in an orienting potential. <i>Journal of Computational Chemistry</i> , 1994, 15, 208-226.	3.3	25
94	Discriminating the Helical Forms of Peptides by NMR and Molecular Dynamics Simulation. <i>Journal of the American Chemical Society</i> , 2004, 126, 10478-10484.	13.7	25
95	Membrane Permeability: Characteristic Times and Lengths for Oxygen and a Simulation-Based Test of the Inhomogeneous Solubility-Diffusion Model. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 3811-3824.	5.3	25
96	Interactions of Water and Alkanes: Modifying Additive Force Fields to Account for Polarization Effects. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 3854-3867.	5.3	25
97	Molecular dynamics simulations of lipid nanodiscs. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 2094-2107.	2.6	24
98	Molecular Structure of Sphingomyelin in Fluid Phase Bilayers Determined by the Joint Analysis of Small-Angle Neutron and X-ray Scattering Data. <i>Journal of Physical Chemistry B</i> , 2020, 124, 5186-5200.	2.6	24
99	Molecular dynamics simulations of water wires in a lipid bilayer and water/octane model systems. <i>Journal of Chemical Physics</i> , 2002, 116, 2663-2664.	3.0	22
100	Gramicidin A Channel Formation Induces Local Lipid Redistribution II: A 3D Continuum Elastic Model. <i>Biophysical Journal</i> , 2017, 112, 1198-1213.	0.5	22
101	Revisiting Volumes of Lipid Components in Bilayers. <i>Journal of Physical Chemistry B</i> , 2019, 123, 2697-2709.	2.6	21
102	Assessing smectic liquid-crystal continuum models for elastic bilayer deformations. <i>Chemistry and Physics of Lipids</i> , 2013, 169, 19-26.	3.2	20
103	The tension of a curved surface from simulation. <i>Journal of Chemical Physics</i> , 2012, 137, 234101.	3.0	18
104	Characterization of Specific Ion Effects on PI(4,5)P <sub>2</sub> Clustering: Molecular Dynamics Simulations and Graph-Theoretic Analysis. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1183-1196.	2.6	18
105	Anisotropic bead models for molecular hydrodynamics. <i>Journal of Chemical Physics</i> , 1989, 90, 5729-5734.	3.0	15
106	Langevin dynamics of a linear rotor in a Maier-Saupe potential: Kramers turnover of the flipping rate. <i>Journal of Chemical Physics</i> , 1992, 97, 5098-5100.	3.0	15
107	A Comparison of Methods for Computing Transition Rates from Molecular Dynamics Simulation. <i>Molecular Simulation</i> , 1994, 13, 25-38.	2.0	15
108	Characterizing Residue-Bilayer Interactions Using Gramicidin A as a Scaffold and Tryptophan Substitutions as Probes. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 5054-5064.	5.3	14



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109	Developing initial conditions for simulations of asymmetric membranes: a practical recommendation. <i>Biophysical Journal</i> , 2021, 120, 5041-5059.	0.5	14
110	Identification of a novel lipid binding motif in apolipoprotein B by the analysis of hydrophobic cluster domains. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 135-145.	2.6	13
111	Langevin dynamics simulations of charged model phosphatidylinositol lipids in the presence of diffusion barriers: toward an atomic level understanding of corralling of PIP2 by protein fences in biological membranes. <i>BMC Biophysics</i> , 2014, 7, 13.	4.4	10
112	Location and Conformational Ensemble of Menaquinone and Menaquinol, and Protein-Lipid Modulations in Archaeal Membranes. <i>Journal of Physical Chemistry B</i> , 2021, 125, 4714-4725.	2.6	10
113	Molecular dynamics simulation of methyl group relaxation in water. <i>Journal of Chemical Physics</i> , 1991, 94, 4097-4098.	3.0	9
114	Mannobiose-Grafting Shifts PEI Charge and Biphasic Dependence on pH. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1800423.	2.2	9
115	Quantitative Characterization of Protein-Lipid Interactions by Free Energy Simulation between Binary Bilayers. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 6491-6503.	5.3	7
116	Functional Group Distributions, Partition Coefficients, and Resistance Factors in Lipid Bilayers Using Site Identification by Ligand Competitive Saturation. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 3188-3202.	5.3	6
117	Design principles of PI(4,5)P <sub>2</sub> clustering under protein-free conditions: Specific cation effects and calcium-potassium synergy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	6
118	PLD2-PI(4,5)P <sub>2</sub> interactions in fluid phase membranes: Structural modeling and molecular dynamics simulations. <i>PLoS ONE</i> , 2020, 15, e0236201.	2.5	5
119	Incorporation of Î±-methylated amino acids into Apolipoprotein A-I mimetic peptides improves their helicity and cholesterol efflux potential. <i>Biochemical and Biophysical Research Communications</i> , 2020, 526, 349-354.	2.1	5
120	Development of CHARMM Additive Potential Energy Parameters for Î±-Methyl Amino Acids. <i>Journal of Physical Chemistry B</i> , 2021, 125, 11687-11696.	2.6	0