

Philip E Mason

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66
papers

3,105
citations

32
h-index

55
g-index

69
ext. papers

3,436
ext. citations

7.7
avg, IF

5.13
L-index

#	Paper	IF	Citations
66	Computer simulation studies of microcrystalline cellulose Ibeta. <i>Carbohydrate Research</i> , 2006 , 341, 138-529	52.9	311
65	The structure of aqueous guanidinium chloride solutions. <i>Journal of the American Chemical Society</i> , 2004 , 126, 11462-70	16.4	214
64	Topological versus chemical ordering in network glasses at intermediate and extended length scales. <i>Nature</i> , 2005 , 435, 75-8	50.4	206
63	Bis(m-phenylene)-32-crown-10-based cryptands, powerful hosts for paraquat derivatives. <i>Journal of Organic Chemistry</i> , 2005 , 70, 3231-41	4.2	131
62	The molecular origin of like-charge arginine-arginine pairing in water. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 9041-5	3.4	123
61	A new cryptand: synthesis and complexation with paraquat. <i>Organic Letters</i> , 1999 , 1, 1001-4	6.2	108
60	Accurate description of calcium solvation in concentrated aqueous solutions. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 7902-9	3.4	104
59	Ion pairing in aqueous lithium salt solutions with monovalent and divalent counter-anions. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 11766-73	2.8	95
58	Arginine-rich cell-penetrating peptides induce membrane multilamellarity and subsequently enter via formation of a fusion pore. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 11923-11928	11.5	90
57	Arginine "Magic": Guanidinium Like-Charge Ion Pairing from Aqueous Salts to Cell Penetrating Peptides. <i>Accounts of Chemical Research</i> , 2018 , 51, 1455-1464	24.3	80
56	Accounting for Electronic Polarization Effects in Aqueous Sodium Chloride via Molecular Dynamics Aided by Neutron Scattering. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 1454-60	3.4	79
55	The interaction of guanidinium ions with a model peptide. <i>Biophysical Journal</i> , 2007 , 93, L04-6	2.9	77
54	Arginine side chain interactions and the role of arginine as a gating charge carrier in voltage sensitive ion channels. <i>Scientific Reports</i> , 2016 , 6, 21759	4.9	76
53	Coulomb explosion during the early stages of the reaction of alkali metals with water. <i>Nature Chemistry</i> , 2015 , 7, 250-4	17.6	67
52	Preferential interactions of guanidinium ions with aromatic groups over aliphatic groups. <i>Journal of the American Chemical Society</i> , 2009 , 131, 16689-96	16.4	66
51	Structure of aqueous glucose solutions as determined by neutron diffraction with isotopic substitution experiments and molecular dynamics calculations. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 13104-11	3.4	65
50	Specificity of ion-protein interactions: complementary and competitive effects of tetrapropylammonium, guanidinium, sulfate, and chloride ions. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 3227-34	3.4	60

49	Attractive interactions between side chains of histidine-histidine and histidine-arginine-based cationic dipeptides in water. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 8744-9	3.4	59
48	Molecular dynamics simulation studies of caffeine aggregation in aqueous solution. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 10957-66	3.4	58
47	Structure of liquid and glassy ZnCl ₂ . <i>Physical Review B</i> , 2010 , 82,	3.3	58
46	Dissecting contributions to the denaturant sensitivities of proteins. <i>Biochemistry</i> , 2005 , 44, 775-81	3.2	55
45	Hydration and Ion Pairing in Aqueous Mg and Zn Solutions: Force-Field Description Aided by Neutron Scattering Experiments and Ab Initio Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 3296-3306	3.4	54
44	The First Demonstration of Molecular Queuing in Pseudo[n]polyrotaxanes: A Novel Variant of Supramolecular Motion. <i>Angewandte Chemie International Edition in English</i> , 1996 , 35, 2238-2241		52
43	Calcium ions in aqueous solutions: Accurate force field description aided by ab initio molecular dynamics and neutron scattering. <i>Journal of Chemical Physics</i> , 2018 , 148, 222813	3.9	51
42	Threading/Dethreading Exchange Rates as Structural Probes in Polypseudorotaxanes. <i>Macromolecules</i> , 1999 , 32, 1559-1569	5.5	51
41	Accurate description of aqueous carbonate ions: an effective polarization model verified by neutron scattering. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 8145-53	3.4	46
40	Exploring Ion-Ion Interactions in Aqueous Solutions by a Combination of Molecular Dynamics and Neutron Scattering. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1563-7	6.4	44
39	Orientational dependence of the affinity of guanidinium ions to the water surface. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 12521-6	3.4	38
38	Molecular dynamics studies of the conformation of sorbitol. <i>Carbohydrate Research</i> , 2009 , 344, 2229-35	2.9	38
37	Molecular dynamics and neutron scattering study of glucose solutions confined in MCM-41. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 910-8	3.4	36
36	Hydration of the chloride ion in concentrated aqueous solutions using neutron scattering and molecular dynamics. <i>Molecular Physics</i> , 2014 , 112, 1230-1240	1.7	34
35	Neutron diffraction and simulation studies of the exocyclic hydroxymethyl conformation of glucose. <i>Journal of Chemical Physics</i> , 2006 , 125, 224505	3.9	34
34	Complex ion effects on polypeptide conformational stability: chloride and sulfate salts of guanidinium and tetrapropylammonium. <i>Journal of the American Chemical Society</i> , 2011 , 133, 7300-3	16.4	31
33	Aqueous guanidinium-carbonate interactions by molecular dynamics and neutron scattering: relevance to ion-protein interactions. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 1844-8	3.4	30
32	The reversal by sulfate of the denaturant activity of guanidinium. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15895-902	16.4	30

31	Water Confined in Cylindrical Pores: A Molecular Dynamics Study. <i>Food Biophysics</i> , 2011 , 6, 233-240	3.2	27
30	Neutron diffraction studies on aqueous solutions of glucose. <i>Journal of Chemical Physics</i> , 2003 , 119, 3347-3353	3.3	27
29	Photoelectron spectra of alkali metal-ammonia microjets: From blue electrolyte to bronze metal. <i>Science</i> , 2020 , 368, 1086-1091	33.3	26
28	Neutron diffraction and simulation studies of CsNO ₃ and Cs ₂ CO ₃ solutions. <i>Journal of the American Chemical Society</i> , 2006 , 128, 15136-44	16.4	25
27	Sugar-binding sites on the surface of the carbohydrate-binding module of CBH I from <i>Trichoderma reesei</i> . <i>Carbohydrate Research</i> , 2011 , 346, 839-46	2.9	24
26	Glucose interactions with a model peptide. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011 , 79, 2224-32	4.2	21
25	Observation of pyridine aggregation in aqueous solution using neutron scattering experiments and MD simulations. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 5412-9	3.4	21
24	Specific interactions of ammonium functionalities in amino acids with aqueous fluoride and iodide. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 13853-60	3.4	18
23	Valence and Core-Level X-ray Photoelectron Spectroscopy of a Liquid Ammonia Microjet. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1838-1841	16.4	16
22	Neutron diffraction and computer simulation studies of D-xylose. <i>Journal of the American Chemical Society</i> , 2005 , 127, 10991-8	16.4	14
21	Be ²⁺ hydration in concentrated aqueous solutions of BeCl ₂ . <i>Journal of Physical Chemistry B</i> , 2008 , 112, 1935-9	3.4	13
20	Determination of a hydroxyl conformation in aqueous xylose using neutron scattering and molecular dynamics. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 2981-3	3.4	13
19	Dynamic behaviour of a pseudo[n]polyrotaxane containing a bipyridyl-based cyclophane: spectroscopic observations. <i>Polymer</i> , 1998 , 39, 3981-3991	3.9	12
18	Quantifying the Strength of a Salt Bridge by Neutron Scattering and Molecular Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3254-3259	6.4	11
17	Changes in the hydration structure of imidazole upon protonation: Neutron scattering and molecular simulations. <i>Journal of Chemical Physics</i> , 2017 , 146, 185102	3.9	11
16	Insight into indole interactions from alkali metal chloride effects on a tryptophan zipper beta-hairpin peptide. <i>Journal of the American Chemical Society</i> , 2006 , 128, 2762-3	16.4	11
15	Hydration of hydroxyl and amino groups examined by molecular dynamics and neutron scattering. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 6357-65	3.4	10
14	Anomalous surface behavior of hydrated guanidinium ions due to ion pairing. <i>Journal of Chemical Physics</i> , 2018 , 148, 144508	3.9	10

13	Sweet taste of heavy water. <i>Communications Biology</i> , 2021 , 4, 440	6.7	8
12	Simulation and Neutron Diffraction Studies of Small Biomolecules in Water. <i>Food Biophysics</i> , 2011 , 6, 210-216	3.2	7
11	Deeply cooled and temperature controlled microjets: Liquid ammonia solutions released into vacuum for analysis by photoelectron spectroscopy. <i>Review of Scientific Instruments</i> , 2020 , 91, 043101	1.7	6
10	Molecular Dynamics and Neutron Scattering Studies of Mixed Solutions of Caffeine and Pyridine in Water. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 5308-5315	3.4	5
9	A Non-Exploding Alkali Metal Drop on Water: From Blue Solvated Electrons to Bursting Molten Hydroxide. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13019-13022	16.4	4
8	The conformation of a ribose derivative in aqueous solution: a neutron-scattering and molecular dynamics study. <i>Biopolymers</i> , 2013 , 99, 739-45	2.2	3
7	A new structural technique for examining ion-neutral association in aqueous solution. <i>Faraday Discussions</i> , 2013 , 160, 161-70; discussion 207-24	3.6	2
6	Molecular Dynamics and Neutron Scattering Studies of Potassium Chloride in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 10807-10813	3.4	2
5	Resolving the Equal Number Density Puzzle: Molecular Picture from Simulations of LiCl(aq) and NaCl(aq). <i>Journal of Physical Chemistry B</i> , 2021 , 125, 3153-3162	3.4	2
4	Spectroscopic evidence for a gold-coloured metallic water solution. <i>Nature</i> , 2021 , 595, 673-676	50.4	2
3	The Determination of Specific Ion Structure by Neutron Scattering and Computer Simulation 2009 , 171-189		1
2	Innentitelbild: A Non-Exploding Alkali Metal Drop on Water: From Blue Solvated Electrons to Bursting Molten Hydroxide (Angew. Chem. 42/2016). <i>Angewandte Chemie</i> , 2016 , 128, 13108-13108	3.6	
1	A Non-Exploding Alkali Metal Drop on Water: From Blue Solvated Electrons to Bursting Molten Hydroxide. <i>Angewandte Chemie</i> , 2016 , 128, 13213-13216	3.6	