Philip E Mason

List of Publications by Year in Descending Order

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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	Sweet taste of heavy water. *Communications Biology*, **2021**, 4, 440	6.7	8
65	Resolving the Equal Number Density Puzzle: Molecular Picture from Simulations of LiCl(aq) and NaCl(aq). *Journal of Physical Chemistry B*, **2021**, 125, 3153-3162	3.4	2
64	Spectroscopic evidence for a gold-coloured metallic water solution. *Nature*, **2021**, 595, 673-676	50.4	2
63	Photoelectron spectra of alkali metal-ammonia microjets: From blue electrolyte to bronze metal. *Science*, **2020**, 368, 1086-1091	33.3	26
62	Deeply cooled and temperature controlled microjets: Liquid ammonia solutions released into vacuum for analysis by photoelectron spectroscopy. *Review of Scientific Instruments*, **2020**, 91, 043101	1.7	6
61	Valence and Core-Level X-ray Photoelectron Spectroscopy of a Liquid Ammonia Microjet. *Journal of the American Chemical Society*, **2019**, 141, 1838-1841	16.4	16
60	Quantifying the Strength of a Salt Bridge by Neutron Scattering and Molecular Dynamics. *Journal of Physical Chemistry Letters*, **2019**, 10, 3254-3259	6.4	11
59	Molecular Dynamics and Neutron Scattering Studies of Potassium Chloride in Aqueous Solution. *Journal of Physical Chemistry B*, **2019**, 123, 10807-10813	3.4	2
58	Calcium ions in aqueous solutions: Accurate force field description aided by ab initio molecular dynamics and neutron scattering. *Journal of Chemical Physics*, **2018**, 148, 222813	3.9	51
57	Anomalous surface behavior of hydrated guanidinium ions due to ion pairing. *Journal of Chemical Physics*, **2018**, 148, 144508	3.9	10
56	Molecular Dynamics and Neutron Scattering Studies of Mixed Solutions of Caffeine and Pyridine in Water. *Journal of Physical Chemistry B*, **2018**, 122, 5308-5315	3.4	5
55	Hydration and Ion Pairing in Aqueous Mg and Zn Solutions: Force-Field Description Aided by Neutron Scattering Experiments and Ab Initio Molecular Dynamics Simulations. *Journal of Physical Chemistry B*, **2018**, 122, 3296-3306	3.4	54
54	Arginine-rich cell-penetrating peptides induce membrane multilamellarity and subsequently enter via formation of a fusion pore. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 11923-11928	11.5	90
53	Arginine "Magic": Guanidinium Like-Charge Ion Pairing from Aqueous Salts to Cell Penetrating Peptides. *Accounts of Chemical Research*, **2018**, 51, 1455-1464	24.3	80
52	Changes in the hydration structure of imidazole upon protonation: Neutron scattering and molecular simulations. *Journal of Chemical Physics*, **2017**, 146, 185102	3.9	11
51	Accounting for Electronic Polarization Effects in Aqueous Sodium Chloride via Molecular Dynamics Aided by Neutron Scattering. *Journal of Physical Chemistry B*, **2016**, 120, 1454-60	3.4	79
50	Arginine side chain interactions and the role of arginine as a gating charge carrier in voltage sensitive ion channels. *Scientific Reports*, **2016**, 6, 21759	4.9	76

49	Innentitelbild: A Non-Exploding Alkali Metal Drop on Water: From Blue Solvated Electrons to Bursting Molten Hydroxide (Angew. Chem. 42/2016). *Angewandte Chemie*, **2016**, 128, 13108-13108	3.6	
48	A Non-Exploding Alkali Metal Drop on Water: From Blue Solvated Electrons to Bursting Molten Hydroxide. *Angewandte Chemie - International Edition*, **2016**, 55, 13019-13022	16.4	4
47	A Non-Exploding Alkali Metal Drop on Water: From Blue Solvated Electrons to Bursting Molten Hydroxide. *Angewandte Chemie*, **2016**, 128, 13213-13216	3.6	
46	Hydration of hydroxyl and amino groups examined by molecular dynamics and neutron scattering. *Journal of Physical Chemistry B*, **2015**, 119, 6357-65	3.4	10
45	Exploring Ion-Ion Interactions in Aqueous Solutions by a Combination of Molecular Dynamics and Neutron Scattering. *Journal of Physical Chemistry Letters*, **2015**, 6, 1563-7	6.4	44
44	Coulomb explosion during the early stages of the reaction of alkali metals with water. *Nature Chemistry*, **2015**, 7, 250-4	17.6	67
43	Hydration of the chloride ion in concentrated aqueous solutions using neutron scattering and molecular dynamics. *Molecular Physics*, **2014**, 112, 1230-1240	1.7	34
42	Accurate description of calcium solvation in concentrated aqueous solutions. *Journal of Physical Chemistry B*, **2014**, 118, 7902-9	3.4	104
41	The conformation of a ribose derivative in aqueous solution: a neutron-scattering and molecular dynamics study. *Biopolymers*, **2013**, 99, 739-45	2.2	3
40	A new structural technique for examining ion-neutral association in aqueous solution. *Faraday Discussions*, **2013**, 160, 161-70; discussion 207-24	3.6	2
39	Ion pairing in aqueous lithium salt solutions with monovalent and divalent counter-anions. *Journal of Physical Chemistry A*, **2013**, 117, 11766-73	2.8	95
38	Aqueous guanidinium-carbonate interactions by molecular dynamics and neutron scattering: relevance to ion-protein interactions. *Journal of Physical Chemistry B*, **2013**, 117, 1844-8	3.4	30
37	Accurate description of aqueous carbonate ions: an effective polarization model verified by neutron scattering. *Journal of Physical Chemistry B*, **2012**, 116, 8145-53	3.4	46
36	Molecular dynamics simulation studies of caffeine aggregation in aqueous solution. *Journal of Physical Chemistry B*, **2011**, 115, 10957-66	3.4	58
35	Water Confined in Cylindrical Pores: A Molecular Dynamics Study. *Food Biophysics*, **2011**, 6, 233-240	3.2	27
34	Simulation and Neutron Diffraction Studies of Small Biomolecules in Water. *Food Biophysics*, **2011**, 6, 210-216	3.2	7
33	Glucose interactions with a model peptide. *Proteins: Structure, Function and Bioinformatics*, **2011**, 79, 2224-32	4.2	21
32	Complex ion effects on polypeptide conformational stability: chloride and sulfate salts of guanidinium and tetrapropylammonium. *Journal of the American Chemical Society*, **2011**, 133, 7300-3	16.4	31

31	Orientational dependence of the affinity of guanidinium ions to the water surface. *Journal of Physical Chemistry B*, **2011**, 115, 12521-6	3.4	38
30	Molecular dynamics and neutron scattering study of glucose solutions confined in MCM-41. *Journal of Physical Chemistry B*, **2011**, 115, 910-8	3.4	36
29	Sugar-binding sites on the surface of the carbohydrate-binding module of CBH I from Trichoderma reesei. *Carbohydrate Research*, **2011**, 346, 839-46	2.9	24
28	Structure of liquid and glassy ZnCl2. *Physical Review B*, **2010**, 82,	3.3	58
27	Observation of pyridine aggregation in aqueous solution using neutron scattering experiments and MD simulations. *Journal of Physical Chemistry B*, **2010**, 114, 5412-9	3.4	21
26	Attractive interactions between side chains of histidine-histidine and histidine-arginine-based cationic dipeptides in water. *Journal of Physical Chemistry B*, **2010**, 114, 8744-9	3.4	59
25	Specific interactions of ammonium functionalities in amino acids with aqueous fluoride and iodide. *Journal of Physical Chemistry B*, **2010**, 114, 13853-60	3.4	18
24	Molecular dynamics studies of the conformation of sorbitol. *Carbohydrate Research*, **2009**, 344, 2229-35	2.9	38
23	The Determination of Specific Ion Structure by Neutron Scattering and Computer Simulation **2009**, 171-189		1
22	Specificity of ion-protein interactions: complementary and competitive effects of tetrapropylammonium, guanidinium, sulfate, and chloride ions. *Journal of Physical Chemistry B*, **2009**, 113, 3227-34	3.4	60
21	Preferential interactions of guanidinum ions with aromatic groups over aliphatic groups. *Journal of the American Chemical Society*, **2009**, 131, 16689-96	16.4	66
20	The molecular origin of like-charge arginine-arginine pairing in water. *Journal of Physical Chemistry B*, **2009**, 113, 9041-5	3.4	123
19	Be2+ hydration in concentrated aqueous solutions of BeCl2. *Journal of Physical Chemistry B*, **2008**, 112, 1935-9	3.4	13
18	The reversal by sulfate of the denaturant activity of guanidinium. *Journal of the American Chemical Society*, **2007**, 129, 15895-902	16.4	30
17	The interaction of guanidinium ions with a model peptide. *Biophysical Journal*, **2007**, 93, L04-6	2.9	77
16	Computer simulation studies of microcrystalline cellulose Ibeta. *Carbohydrate Research*, **2006**, 341, 138-52	2.9	311
15	Neutron diffraction and simulation studies of CsNO3 and Cs2CO3 solutions. *Journal of the American Chemical Society*, **2006**, 128, 15136-44	16.4	25
14	Neutron diffraction and simulation studies of the exocyclic hydroxymethyl conformation of glucose. *Journal of Chemical Physics*, **2006**, 125, 224505	3.9	34

13	Determination of a hydroxyl conformation in aqueous xylose using neutron scattering and molecular dynamics. *Journal of Physical Chemistry B*, **2006**, 110, 2981-3	3.4	13
12	Insight into indole interactions from alkali metal chloride effects on a tryptophan zipper beta-hairpin peptide. *Journal of the American Chemical Society*, **2006**, 128, 2762-3	16.4	11
11	Dissecting contributions to the denaturant sensitivities of proteins. *Biochemistry*, **2005**, 44, 775-81	3.2	55
10	Structure of aqueous glucose solutions as determined by neutron diffraction with isotopic substitution experiments and molecular dynamics calculations. *Journal of Physical Chemistry B*, **2005**, 109, 13104-11	3.4	65
9	Neutron diffraction and computer simulation studies of D-xylose. *Journal of the American Chemical Society*, **2005**, 127, 10991-8	16.4	14
8	Bis(m-phenylene)-32-crown-10-based cryptands, powerful hosts for paraquat derivatives. *Journal of Organic Chemistry*, **2005**, 70, 3231-41	4.2	131
7	Topological versus chemical ordering in network glasses at intermediate and extended length scales. *Nature*, **2005**, 435, 75-8	50.4	206
6	The structure of aqueous guanidinium chloride solutions. *Journal of the American Chemical Society*, **2004**, 126, 11462-70	16.4	214
5	Neutron diffraction studies on aqueous solutions of glucose. *Journal of Chemical Physics*, **2003**, 119, 3347-3353	3.3	27
4	Threading/Dethreading Exchange Rates as Structural Probes in Polypseudorotaxanes. *Macromolecules*, **1999**, 32, 1559-1569	5.5	51
3	A new cryptand: synthesis and complexation with paraquat. *Organic Letters*, **1999**, 1, 1001-4	6.2	108
2	Dynamic behaviour of a pseudo[n]polyrotaxane containing a bipyridyl-based cyclophane: spectroscopic observations. *Polymer*, **1998**, 39, 3981-3991	3.9	12
1	The First Demonstration of Molecular Queuing in Pseudo[n]polyrotaxanes: A Novel Variant of Supramolecular Motion. *Angewandte Chemie International Edition in English*, **1996**, 35, 2238-2241		52