

Sylvia E Mclain

List of Publications by Year in descending order

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60
papers

1,620
citations

257357

24
h-index

315616

38
g-index

63
all docs

63
docs citations

63
times ranked

1696
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic behaviour of layered Ag(II) fluorides. <i>Nature Materials</i> , 2006, 5, 561-565.	13.3	82
2	Water and Trehalose: How Much Do They Interact with Each Other?. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4904-4908.	1.2	80
3	On the hydration of the phosphocholine headgroup in aqueous solution. <i>Journal of Chemical Physics</i> , 2010, 133, 145103.	1.2	76
4	Structure of 2 molar NaOH in aqueous solution from neutron diffraction and empirical potential structure refinement. <i>Physical Review B</i> , 2006, 74, .	1.1	75
5	On the Structure of Liquid Hydrogen Fluoride. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1952-1955.	7.2	71
6	Structure and Hydration of l-Proline in Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4568-4580.	1.2	70
7	Orientational correlations in liquid acetone and dimethyl sulfoxide: A comparative study. <i>Journal of Chemical Physics</i> , 2006, 124, 074502.	1.2	68
8	Investigations on the structure of dimethyl sulfoxide and acetone in aqueous solution. <i>Journal of Chemical Physics</i> , 2007, 127, 174515.	1.2	62
9	Water structure around trehalose. <i>Chemical Physics</i> , 2008, 345, 159-163.	0.9	54
10	Structural Studies on the Hydration of l-Glutamic Acid in Solution. <i>Journal of Physical Chemistry B</i> , 2006, 110, 21251-21258.	1.2	49
11	The Hydration of the Neurotransmitter Acetylcholine in Aqueous Solution. <i>Biophysical Journal</i> , 2006, 91, 2371-2380.	0.2	42
12	Observation of Fractional Stokes-Einstein Behavior in the Simplest Hydrogen-Bonded Liquid. <i>Physical Review Letters</i> , 2007, 98, 077801.	2.9	40
13	Water-Peptide Site-Specific Interactions: A Structural Study on the Hydration of Glutathione. <i>Biophysical Journal</i> , 2014, 106, 1701-1709.	0.2	40
14	Charge-Based Interactions between Peptides Observed as the Dominant Force for Association in Aqueous Solution. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9059-9062.	7.2	39
15	Structural Evidence for Inter-Residue Hydrogen Bonding Observed for Cellobiose in Aqueous Solution. <i>PLoS ONE</i> , 2012, 7, e45311.	1.1	35
16	Amphipathic Solvation of Indole: Implications for the Role of Tryptophan in Membrane Proteins. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5979-5987.	1.2	34
17	Short-Range Interactions of Concentrated Proline in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2014, 118, 14267-14277.	1.2	31
18	Water structure around dipeptides in aqueous solutions. <i>European Biophysics Journal</i> , 2008, 37, 647-655.	1.2	30

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19	On the solvation structure of dimethylsulfoxide/water around the phosphatidylcholine head group in solution. <i>Journal of Chemical Physics</i> , 2011, 135, 225105.	1.2	29
20	Water Mediation Is Essential to Nucleation of β -Turn Formation in Peptide Folding Motifs. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13091-13095.	7.2	29
21	Modulation of Dipalmitoylphosphatidylcholine Monolayers by Dimethyl Sulfoxide. <i>Langmuir</i> , 2014, 30, 8803-8811.	1.6	29
22	Atomic pair distribution function analysis of materials containing crystalline and amorphous phases. <i>Zeitschrift für Kristallographie</i> , 2005, 220, .	1.1	27
23	Trehalose in Water Revisited. <i>Journal of Physical Chemistry B</i> , 2018, 122, 7365-7374.	1.2	26
24	Hydrogen Bond Length as a Key To Understanding Sweetness. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3667-3672.	2.1	25
25	Structure of Aqueous Proline via Parallel Tempering Molecular Dynamics and Neutron Diffraction. <i>Journal of Physical Chemistry B</i> , 2007, 111, 8210-8222.	1.2	23
26	Solvation and Hydration of the Ceramide Headgroup in a Non-Polar Solution. <i>Journal of Physical Chemistry B</i> , 2015, 119, 128-139.	1.2	23
27	Atomic scale insights into urea-peptide interactions in solution. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3862-3870.	1.3	23
28	On the atomic structure of cocaine in solution. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 991-999.	1.3	23
29	Intrinsic magnetic order in Cs ₂ AgF ₄ detected by muon-spin relaxation. <i>Physical Review B</i> , 2007, 75, .	1.1	22
30	On the structure of an aqueous propylene glycol solution. <i>Journal of Chemical Physics</i> , 2016, 145, 224504.	1.2	22
31	Structure-activity relationships in carbohydrates revealed by their hydration. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 1486-1493.	1.1	22
32	Role of Water in Sucrose, Lactose, and Sucralose Taste: The Sweeter, The Wetter?. <i>ACS Omega</i> , 2019, 4, 22392-22398.	1.6	22
33	On the structure of water and chloride ion interactions with a peptide backbone in solution. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 21023.	1.3	21
34	Glucose and Mannose: A Link between Hydration and Sweetness. <i>Journal of Physical Chemistry B</i> , 2017, 121, 7771-7776.	1.2	21
35	A structural comparison of supercooled water and intermediate density amorphous ices. <i>Molecular Physics</i> , 2004, 102, 2007-2014.	0.8	18
36	Local atomic structure of Fontainebleau sandstone: Evidence for an amorphous phase?. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	18

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37	On the positional and orientational order of water and methanol around indole: a study on the microscopic origin of solubility. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 23006-23016.	1.3	18
38	On the nature of hydrogen bonding between the phosphatidylcholine head group and water and dimethylsulfoxide. <i>Chemical Physics</i> , 2013, 410, 31-36.	0.9	17
39	Conformation and interactions of dopamine hydrochloride in solution. <i>Journal of Chemical Physics</i> , 2015, 142, 014502.	1.2	16
40	Effects of lipid heterogeneity on model human brain lipid membranes. <i>Soft Matter</i> , 2021, 17, 126-135.	1.2	14
41	Sample containment for neutron and high-energy x-ray scattering studies of hydrogen fluoride and related molecular species. <i>Review of Scientific Instruments</i> , 2003, 74, 4410-4417.	0.6	12
42	On the variation of the structure of liquid deuterium fluoride with temperature. <i>Journal of Chemical Physics</i> , 2004, 121, 6448-6455.	1.2	12
43	Salt Interactions in Solution Prevent Direct Association of Urea with a Peptide Backbone. <i>Journal of Physical Chemistry B</i> , 2017, 121, 1866-1876.	1.2	12
44	The structure of liquid fluorosulfuric acid investigated by neutron diffraction. <i>Journal of Chemical Physics</i> , 2002, 117, 3816-3821.	1.2	11
45	Evidence of the Presence of Opticlike Collective Modes in a Liquid from Neutron Scattering Experiments. <i>Physical Review Letters</i> , 2006, 96, 235501.	2.9	11
46	On the hydration of DOPE in solution. <i>Journal of Chemical Physics</i> , 2019, 150, 115104.	1.2	10
47	Correlated atomic motions in liquid deuterium fluoride studied by coherent quasielastic neutron scattering. <i>Journal of Chemical Physics</i> , 2007, 126, 234509.	1.2	9
48	Comparative atomic-scale hydration of the ceramide and phosphocholine headgroup in solution and bilayer environments. <i>Journal of Chemical Physics</i> , 2016, 144, 225101.	1.2	9
49	Proline and Water Stabilization of a Universal Two-Step Folding Mechanism for $\hat{1}^2$ -Turn Formation in Solution. <i>Journal of the American Chemical Society</i> , 2018, 140, 7301-7312.	6.6	9
50	Tuning molecular dynamics by hydration and confinement: antiplasticizing effect of water in hydrated prilocaine nanoclusters. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 15576-15583.	1.3	9
51	The solvation structure of alprazolam. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 22416-22425.	1.3	7
52	On the solvation of the phosphocholine headgroup in an aqueous propylene glycol solution. <i>Journal of Chemical Physics</i> , 2018, 148, 135102.	1.2	7
53	On the microscopic origin of the cryoprotective effect in lysine solutions. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6919-6927.	1.3	7
54	Alteration of Water Structure by Peptide Clusters Revealed by Neutron Scattering in the Small-Angle Region (below 1 \AA^{-1}). <i>Biophysical Journal</i> , 2012, 103, 1518-1524.	0.2	5

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55	On the structure of prilocaine in aqueous and amphiphilic solutions. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 12665-12673.	1.3	4
56	On the hydration and conformation of cocaine in solution. <i>Chemical Physics Letters</i> , 2017, 676, 58-64.	1.2	4
57	On the structure of boron trifluoride in liquid and supercritical phase investigated with neutron diffraction. <i>Journal of Chemical Physics</i> , 2003, 119, 6671-6679.	1.2	2
58	On the hydration structure of the pro-drug GPG-NH2 and its derivatives. <i>Chemical Physics Letters</i> , 2018, 706, 228-236.	1.2	1
59	On the Structure of Liquid Hydrogen Fluoride.. <i>ChemInform</i> , 2004, 35, no.	0.1	0
60	Reply to the "Comment on "On the positional and orientational order of water and methanol around indole: a study on the microscopic origin of solubility" <i>Phys. Chem. Chem. Phys.</i> , 2018, 20, DOI: 10.1039/C7CP03698A". <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 2116-2119.	1.3	0