

Jeremy T O brien

List of Publications by Citations

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34
papers

1,604
citations

22
h-index

34
g-index

34
ext. papers

1,705
ext. citations

9.4
avg, IF

4.6
L-index

#	Paper	IF	Citations
34	Infrared spectroscopy of cationized arginine in the gas phase: direct evidence for the transition from nonzwitterionic to zwitterionic structure. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1612-22	16.4	181
33	Sulfate ion patterns water at long distance. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8248-9	16.4	121
32	Absolute standard hydrogen electrode potential measured by reduction of aqueous nanodrops in the gas phase. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3371-81	16.4	108
31	Interactions of mono- and divalent metal ions with aspartic and glutamic acid investigated with IR photodissociation spectroscopy and theory. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 10823-30	2.8	88
30	Effects of ions on hydrogen-bonding water networks in large aqueous nanodrops. <i>Journal of the American Chemical Society</i> , 2012 , 134, 10228-36	16.4	84
29	Structures of protonated dipeptides: the role of arginine in stabilizing salt bridges. <i>Journal of the American Chemical Society</i> , 2009 , 131, 11442-9	16.4	74
28	Hydration of alkaline earth metal dications: effects of metal ion size determined using infrared action spectroscopy. <i>Journal of the American Chemical Society</i> , 2009 , 131, 13270-7	16.4	69
27	IRPD spectroscopy and ensemble measurements: effects of different data acquisition and analysis methods. <i>Journal of the American Society for Mass Spectrometry</i> , 2010 , 21, 800-9	3.5	69
26	Structural and electric field effects of ions in aqueous nanodrops. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4810-8	16.4	61
25	Directly relating reduction energies of gaseous $\text{Eu}(\text{H}_2\text{O})_n(3+)$, $n = 55-140$, to aqueous solution: the absolute SHE potential and real proton solvation energy. <i>Journal of the American Chemical Society</i> , 2009 , 131, 13328-37	16.4	61
24	Hydration of gaseous copper dications probed by IR action spectroscopy. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 5893-901	2.8	58
23	Zn^{2+} has a primary hydration sphere of five: IR action spectroscopy and theoretical studies of hydrated Zn^{2+} complexes in the gas phase. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 12646-55	2.8	56
22	Internal energy deposition in electron capture dissociation measured using hydrated divalent metal ions as nanocalorimeters. <i>Journal of the American Chemical Society</i> , 2007 , 129, 4894-5	16.4	54
21	Coordination numbers of hydrated divalent transition metal ions investigated with IRPD spectroscopy. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 14612-9	2.8	53
20	Hydration isomers of protonated phenylalanine and derivatives: relative stabilities from infrared photodissociation. <i>Journal of the American Chemical Society</i> , 2010 , 132, 7811-9	16.4	48
19	Structures of lithiated lysine and structural analogues in the gas phase: effects of water and proton affinity on zwitterionic stability. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 8433-42	2.8	48
18	Directly relating gas-phase cluster measurements to solution-phase hydrolysis, the absolute standard hydrogen electrode potential, and the absolute proton solvation energy. <i>Chemistry - A European Journal</i> , 2009 , 15, 5926-34	4.8	45

17	Nanocalorimetry in mass spectrometry: a route to understanding ion and electron solvation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 18102-7	11.5	40
16	Electron capture by a hydrated gaseous peptide: effects of water on fragmentation and molecular survival. <i>Journal of the American Chemical Society</i> , 2008 , 130, 12680-9	16.4	39
15	Nonergodicity in electron capture dissociation investigated using hydrated ion nanocalorimetry. <i>Journal of the American Society for Mass Spectrometry</i> , 2007 , 18, 1217-31	3.5	39
14	Reduction energy of 1 M aqueous ruthenium(III) hexaammine in the gas phase: a route toward establishing an absolute electrochemical scale. <i>Journal of the American Chemical Society</i> , 2007 , 129, 7716-7	16.4	26
13	Optimization of Hierarchical Structures for Beta Zeolites by Post-Synthetic Base Leaching. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 8567-8575	3.9	23
12	Tunable sour gas separations: Simultaneous H ₂ S and CO ₂ removal from natural gas via crosslinked telechelic poly(ethylene glycol) membranes. <i>Journal of Membrane Science</i> , 2020 , 602, 117947	9.6	21
11	Ambient infrared laser ablation mass spectrometry (AIRLAB-MS) of live plant tissue with plume capture by continuous flow solvent probe. <i>Analytical Chemistry</i> , 2015 , 87, 2631-8	7.8	20
10	Water-induced folding of 1,7-diammoniumheptane. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11216-24	16.4	20
9	Changes in binding motif of protonated heterodimers containing valine and amines investigated using IRMPD spectroscopy between 800 and 3700 cm ⁻¹ and theory. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3905-12	16.4	19
8	Sour gas transport in poly(ether-b-amide) membranes for natural gas separations. <i>Journal of Membrane Science</i> , 2020 , 595, 117497	9.6	19
7	Addition-type alkoxysilyl-substituted polynorbornenes for post-combustion carbon dioxide separations. <i>Journal of Membrane Science</i> , 2020 , 595, 117532	9.6	15
6	Organotemplate-free synthesis of hierarchical beta zeolites. <i>Catalysis Today</i> , 2018 , 316, 26-30	5.3	13
5	Effects of electron kinetic energy and ion-electron inelastic collisions in electron capture dissociation measured using ion nanocalorimetry. <i>Journal of the American Society for Mass Spectrometry</i> , 2008 , 19, 772-9	3.5	12
4	Structural elucidation of hydrated CuOH ⁺ complexes using IR action spectroscopy and theoretical modeling. <i>International Journal of Mass Spectrometry</i> , 2015 , 378, 270-280	1.9	11
3	Structural and electrostatic effects at the surfaces of size- and charge-selected aqueous nanodrops. <i>Chemical Science</i> , 2017 , 8, 5201-5213	9.4	7
2	Towards Integrating Synchrotron FTIR Microscopy with Mass Spectrometry at the Berkeley Synchrotron Infrared Structural Biology (BSISB) Program. <i>Synchrotron Radiation News</i> , 2017 , 30, 17-23	0.6	1
1	Steel Corrosion Mechanisms during Pipeline Operation: In Situ Characterization. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1564-1565	0.5	1