

# Dor Ben-Amotz

## List of Publications by Citations

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161  
papers

5,424  
citations

43  
h-index

66  
g-index

170  
ext. papers

5,978  
ext. citations

5.7  
avg, IF

6.12  
L-index

#	Paper	IF	Citations
161	Water structural transformation at molecular hydrophobic interfaces. <i>Nature</i> , <b>2012</b> , 491, 582-5	50.4	378
160	Estimation of effective diameters for molecular fluids. <i>The Journal of Physical Chemistry</i> , <b>1990</b> , 94, 1038-1047		231
159	Quantitative vibrational imaging by hyperspectral stimulated Raman scattering microscopy and multivariate curve resolution analysis. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 98-106	7.8	159
158	Raman detection of proteomic analytes. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 5703-9	7.8	159
157	Oxygen and methylene adducts of C60 and C70. <i>Journal of the American Chemical Society</i> , <b>1991</b> , 113, 5907-5908	16.4	147
156	Observation of water dangling OH bonds around dissolved nonpolar groups. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 12230-4	11.5	130
155	Water-Mediated Hydrophobic Interactions. <i>Annual Review of Physical Chemistry</i> , <b>2016</b> , 67, 617-38	15.7	118
154	On the cooperative formation of non-hydrogen-bonded water at molecular hydrophobic interfaces. <i>Nature Chemistry</i> , <b>2013</b> , 5, 796-802	17.6	114
153	H-Hydrogen Bonding in Liquid Water. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 2930-2933	6.4	113
152	Unraveling water's entropic mysteries: a unified view of nonpolar, polar, and ionic hydration. <i>Accounts of Chemical Research</i> , <b>2008</b> , 41, 957-67	24.3	106
151	Solvation thermodynamics: theory and applications. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 6866-78	3.4	94
150	Isotope edited internal standard method for quantitative surface-enhanced Raman spectroscopy. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 3563-9	7.8	88
149	Micelle Structure and Hydrophobic Hydration. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 10809-15	16.5	83
148	Rapid Micro-Raman Imaging Using Fiber-Bundle Image Compression. <i>Applied Spectroscopy</i> , <b>1997</b> , 51, 1845-1848	3.1	75
147	Perturbations of water by alkali halide ions measured using multivariate Raman curve resolution. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 1805-9	3.4	74
146	Specific ion effects in amphiphile hydration and interface stabilization. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 2040-7	16.4	73
145	Contacts Between Alcohols in Water Are Random Rather than Hydrophobic. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 688-92	6.4	72

144	Optical imaging of metastatic tumors using a folate-targeted fluorescent probe. <i>Journal of Biomedical Optics</i> , <b>2003</b> , 8, 636-41	3.5	72
143	Charge asymmetry at aqueous hydrophobic interfaces and hydration shells. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 9560-3	16.4	71
142	Validation of the drop coating deposition Raman method for protein analysis. <i>Analytical Biochemistry</i> , <b>2006</b> , 353, 157-66	3.1	70
141	Molecular reorientation dynamics and microscopic friction in liquids. <i>Chemical Physics</i> , <b>1994</b> , 180, 119-122	3.3	67
140	Enhanced Chemical Classification of Raman Images in the Presence of Strong Fluorescence Interference. <i>Applied Spectroscopy</i> , <b>2000</b> , 54, 1379-1383	3.1	65
139	Reformulation of Weeks-Chandler-Andersen Perturbation Theory Directly in Terms of a Hard-Sphere Reference System. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 6877-6882	3.4	62
138	Identification of insulin variants using Raman spectroscopy. <i>Analytical Biochemistry</i> , <b>2004</b> , 332, 245-52	3.1	60
137	Multivariate hyperspectral Raman imaging using compressive detection. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 5086-92	7.8	59
136	Solute-induced perturbations of solvent-shell molecules observed using multivariate Raman curve resolution. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 4576-7	16.4	59
135	The Interplay of Structure and Dynamics in the Raman Spectrum of Liquid Water over the Full Frequency and Temperature Range. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 851-857	6.4	56
134	Decomposition of the Experimental Raman and Infrared Spectra of Acidic Water into Proton, Special Pair, and Counterion Contributions. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 5246-5252	6.4	55
133	Chemical mapping of elemental sulfur on pyrite and arsenopyrite surfaces using near-infrared Raman imaging microscopy. <i>Applied Surface Science</i> , <b>2001</b> , 178, 105-115	6.7	54
132	Adaptive silver films for detection of antibody-antigen binding. <i>Langmuir</i> , <b>2005</b> , 21, 8368-73	4	52
131	Detection of amino acid and peptide phosphate protonation using Raman spectroscopy. <i>Analytical Biochemistry</i> , <b>2005</b> , 343, 223-30	3.1	52
130	Adaptive silver films for surface-enhanced Raman spectroscopy of biomolecules. <i>Journal of Raman Spectroscopy</i> , <b>2005</b> , 36, 648-656	2.3	52
129	Structure and dynamics of water dangling OH bonds in hydrophobic hydration shells. Comparison of simulation and experiment. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 6177-83	2.8	51
128	Distinguishing aggregation from random mixing in aqueous t-butyl alcohol solutions. <i>Faraday Discussions</i> , <b>2013</b> , 167, 177-90	3.6	50
127	Stripping of Cosmic Spike Spectral Artifacts Using a New Upper-Bound Spectrum Algorithm. <i>Applied Spectroscopy</i> , <b>2001</b> , 55, 1523-1531	3.1	50

126	Unveiling Electron Promiscuity. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 1216-22	6.4	48
125	The Raman detection of peptide tyrosine phosphorylation. <i>Analytical Biochemistry</i> , <b>2004</b> , 332, 116-21	3.1	47
124	Chemical segregation and reduction of Raman background interference using drop coating deposition. <i>Applied Spectroscopy</i> , <b>2004</b> , 58, 929-33	3.1	47
123	Optimized perturbed hard sphere expressions for the structure and thermodynamics of Lennard-Jones fluids. <i>Molecular Physics</i> , <b>1993</b> , 78, 137-149	1.7	47
122	Hydrophobic Ambivalence: Teetering on the Edge of Randomness. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 1696-701	6.4	46
121	Global thermodynamics of hydrophobic cavitation, dewetting, and hydration. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 184504	3.9	46
120	Application of Raman multivariate curve resolution to solvation-shell spectroscopy. <i>Applied Spectroscopy</i> , <b>2012</b> , 66, 282-8	3.1	44
119	Analysis of insulin amyloid fibrils by Raman spectroscopy. <i>Biophysical Chemistry</i> , <b>2007</b> , 128, 150-5	3.5	44
118	Expulsion of ions from hydrophobic hydration shells. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 8818-21	16.4	43
117	Interactions between halide anions and a molecular hydrophobic interface. <i>Faraday Discussions</i> , <b>2013</b> , 160, 255-70; discussion 311-27	3.6	42
116	Evaluation of folate conjugate uptake and transport by the choroid plexus of mice. <i>Pharmaceutical Research</i> , <b>2003</b> , 20, 714-9	4.5	40
115	Occurrence and fragmentation of high-mass fullerenes. <i>Chemical Physics Letters</i> , <b>1991</b> , 183, 149-152	2.5	40
114	Influence of Cononsolvency on the Aggregation of Tertiary Butyl Alcohol in Methanol-Water Mixtures. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 9045-8	16.4	39
113	Analytical implementation and critical tests of fluid thermodynamic perturbation theory. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 10777-10788	3.9	37
112	Near-infrared Raman imaging microscope based on fiber-bundle image compression. <i>Journal of Raman Spectroscopy</i> , <b>1999</b> , 30, 757-765	2.3	37
111	Temperature-Dependent Hydrophobic Crossover Length Scale and Water Tetrahedral Order. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 1012-1017	6.4	35
110	Photon level chemical classification using digital compressive detection. <i>Analytica Chimica Acta</i> , <b>2012</b> , 755, 17-27	6.6	35
109	Anomalous fluorescence in near-infrared Raman spectroscopy of cementitious materials. <i>Cement and Concrete Research</i> , <b>2005</b> , 35, 1620-1628	10.3	35

108	Hydration-Shell Vibrational Spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 10569-10580	5.6	34
107	Molecular Fluorescence Thermometry. <i>Analytical Chemistry</i> , <b>1994</b> , 66, 2788-2790	7.8	34
106	Theoretical and Experimental Uncertainty in Temperature Measurement of Materials by Raman Spectroscopy. <i>Applied Spectroscopy</i> , <b>1996</b> , 50, 1034-1038	3.1	33
105	Gas-phase reactivity of fullerene anions. <i>Journal of the American Chemical Society</i> , <b>1991</b> , 113, 5489-5490	16.4	33
104	Interfacial solvation thermodynamics. <i>Journal of Physics Condensed Matter</i> , <b>2016</b> , 28, 414013	1.8	30
103	Aromatic hydrocarbon derivatives of fullerenes. <i>Rapid Communications in Mass Spectrometry</i> , <b>1991</b> , 5, 472-474	2.2	30
102	Digital compressive chemical quantitation and hyperspectral imaging. <i>Analyst, The</i> , <b>2013</b> , 138, 4982-90	5	29
101	Educational Applications of Infrared and Raman Spectroscopy: A Comparison of Experiment and Theory. <i>Journal of Chemical Education</i> , <b>2000</b> , 77, 654	2.4	29
100	Pressure Dependent Vibrational Fermi Resonance in Liquid CH <sub>3</sub> OH and CH <sub>2</sub> Cl <sub>2</sub> . <i>Journal of Physical Chemistry A</i> , <b>1998</b> , 102, 10614-10619	2.8	29
99	Methane Hydration-Shell Structure and Fragility. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 15133-15137	16.4	29
98	Are long-chain alkanes hydrophilic?. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 8646-51	3.4	28
97	Oligosaccharide identification and mixture quantification using Raman spectroscopy and chemometric analysis. <i>Carbohydrate Research</i> , <b>2004</b> , 339, 141-5	2.9	28
96	Detection and relative quantification of proteins by surface enhanced Raman using isotopic labels. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 9624-5	16.4	27
95	External Raman standard for absolute intensity and concentration measurements. <i>Review of Scientific Instruments</i> , <b>2005</b> , 76, 033108	1.7	27
94	Hydration-Shell Transformation of Thermosensitive Aqueous Polymers. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 1360-1364	6.4	26
93	Influence of a Neighboring Charged Group on Hydrophobic Hydration Shell Structure. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 9417-22	3.4	26
92	Raman chemical imaging of tribological nitride coated (TiN, TiAlN) surfaces. <i>Wear</i> , <b>2002</b> , 252, 956-969	3.5	26
91	Hard sphere perturbation theory for fluids with soft-repulsive-core potentials. <i>Journal of Chemical Physics</i> , <b>2004</b> , 120, 4844-51	3.9	25

90	Removal of Cosmic Spikes from Hyper-Spectral Images Using a Hybrid Upper-Bound Spectrum Method. <i>Applied Spectroscopy</i> , <b>2002</b> , 56, 91-98	3.1	25
89	Rapid classification of pharmaceutical ingredients with Raman spectroscopy using compressive detection strategy with PLS-DA multivariate filters. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2013</b> , 80, 63-8	3.5	24
88	Generalized solvation heat capacities. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 19839-49	3.4	24
87	Spontaneous drying of non-polar deep-cavity cavitand pockets in aqueous solution. <i>Nature Chemistry</i> , <b>2020</b> , 12, 589-594	17.6	22
86	. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 7858-7866	3.4	22
85	Cavity Formation and Dipolar Contribution to the Gauche $\rightleftharpoons$ trans Isomerization of 1-Chloropropane and 1,2-Dichloroethane. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 520-526	3.4	22
84	Translational and rotational dynamics in liquids. comparison of experiment, kinetic theory and hydrodynamics. <i>Chemical Physics</i> , <b>1994</b> , 183, 385-392	2.3	22
83	Recent Trends in Compressive Raman Spectroscopy Using DMD-Based Binary Detection. <i>Journal of Imaging</i> , <b>2018</b> , 5,	3.1	22
82	Chemical mapping of thaumasite formed in sulfate-attacked cement mortar using near-infrared Raman imaging microscopy. <i>Cement and Concrete Research</i> , <b>2001</b> , 31, 953-958	10.3	20
81	Optical Absorption and Fluorescence Spectral Imaging Using Fiber Bundle Image Compression. <i>Applied Spectroscopy</i> , <b>1999</b> , 53, 1118-1122	3.1	20
80	Average entropy dissipation in irreversible mesoscopic processes. <i>Physical Review Letters</i> , <b>2006</b> , 96, 020602	6.2	19
79	Second-derivative variance minimization method for automated spectral subtraction. <i>Applied Spectroscopy</i> , <b>2004</b> , 58, 272-8	3.1	19
78	Raman Studies of Molecular Potential Energy Surface Changes in Supercritical Fluids. <i>ACS Symposium Series</i> , <b>1992</b> , 18-30	0.4	19
77	Binary Complementary Filters for Compressive Raman Spectroscopy. <i>Applied Spectroscopy</i> , <b>2018</b> , 72, 69-78	3.1	18
76	Molecular Force Measurement in Liquids and Solids Using Vibrational Spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 3354-3362	3.4	18
75	Influence of Laser Illumination Geometry on the Power Distribution Advantage. <i>Applied Spectroscopy</i> , <b>2001</b> , 55, 61-65	3.1	17
74	Communication: Length scale dependent oil-water energy fluctuations. <i>Journal of Chemical Physics</i> , <b>2011</b> , 135, 201102	3.9	16
73	Single scan cosmic spike removal using the upper bound spectrum method. <i>Applied Spectroscopy</i> , <b>2003</b> , 57, 1303-5	3.1	16

72	Description and Theory of a Fiber-Optic Confocal and Super-Focal Raman Microspectrometer. <i>Applied Spectroscopy</i> , <b>1996</b> , 50, 1150-1155	3.1	16
71	Molecular-optical viscometer based on fluorescence depolarization. <i>Analytical Chemistry</i> , <b>1992</b> , 64, 700-703		16
70	Binding of divalent cations to acetate: molecular simulations guided by Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 24014-24027	3.6	16
69	New mean-energy formulae for free energy differences. <i>Molecular Physics</i> , <b>2005</b> , 103, 3209-3221	1.7	15
68	Temperature and polarization dependent Raman spectra of liquid H <sub>2</sub> O and D <sub>2</sub> O. <i>Journal of Raman Spectroscopy</i> , <b>2018</b> , 49, 1860-1866	2.3	15
67	Hiding in the Crowd: Spectral Signatures of Overcoordinated Hydrogen-Bond Environments. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 6067-6073	6.4	14
66	Chemical potentials of hard polyatomic solutes in hard sphere fluids. <i>Journal of Chemical Physics</i> , <b>1997</b> , 106, 1181-1186	3.9	14
65	Cavity formation free energies for rigid chains in hard sphere fluids. <i>Journal of Chemical Physics</i> , <b>1998</b> , 108, 7294-7300	3.9	14
64	Updated Principle of Corresponding States. <i>Journal of Chemical Education</i> , <b>2004</b> , 81, 142	2.4	14
63	Global Quantitation of Solvent Effects on the Isomerization Thermodynamics of 1,2-Dichloroethane and trans-1,2-Dichlorocyclohexane. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 7882-7888	3.4	14
62	CO Hydration Shell Structure and Transformation. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 2971-2975	3.4	13
61	Water-mediated aggregation of 2-butoxyethanol. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 24937-24946	3.6	13
60	Pharmaceutical Application of Fast Raman Hyperspectral Imaging with Compressive Detection Strategy. <i>Journal of Pharmaceutical Innovation</i> , <b>2014</b> , 9, 1-4	1.8	12
59	Accurate concentration measurements using surface-enhanced Raman and deuterium exchanged dye pairs. <i>Applied Spectroscopy</i> , <b>2008</b> , 62, 1001-7	3.1	12
58	Improved corresponding states scaling of the equations of state of simple fluids. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 4632-4634	3.9	12
57	Hydrophobic but Water-Friendly: Favorable Water-Perfluoromethyl Interactions Promote Hydration Shell Defects. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 15856-15868	16.4	11
56	Protein-ligand binding detected using ultrafiltration Raman difference spectroscopy. <i>Analytical Biochemistry</i> , <b>2008</b> , 373, 154-60	3.1	11
55	Nonideal gas solvation thermodynamics. <i>Journal of Chemical Physics</i> , <b>2007</b> , 126, 104502	3.9	11

54	Rectification of thermodynamic inequalities. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 5932-5936	3.9	11
53	Cavity formation energies for diatomic and spherical solutes in a diatomic hard body fluid. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 4349-4358	3.9	11
52	Influence of Intermolecular Coupling on the Vibrational Spectrum of Water. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 5375-5380	3.4	10
51	Three-body distribution functions in hard sphere fluids. Comparison of excluded-volume-anisotropy model predictions and Monte Carlo simulation. <i>Journal of Chemical Physics</i> , <b>1997</b> , 107, 6831-6838	3.9	10
50	Excluded volume anisotropy and two-cavity distribution functions in hard sphere fluids. <i>Journal of Chemical Physics</i> , <b>1997</b> , 106, 5631-5637	3.9	10
49	The influence of molecular shape on chemical reaction thermodynamics. <i>Journal of Chemical Physics</i> , <b>2001</b> , 115, 9401-9409	3.9	10
48	Interfacial Adsorption of Neutral and Ionic Solutes in a Water Droplet. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 3447-3453	3.4	9
47	Joule Heating and Thermal Denaturation of Proteins in Nano-ESI Theta Tips. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2017</b> , 28, 2001-2010	3.5	9
46	Multiplexed concentration quantification using isotopic surface-enhanced resonance Raman scattering. <i>Journal of Raman Spectroscopy</i> , <b>2010</b> , 41, 752-757	2.3	9
45	Characterization of select members of the Taxane family using Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , <b>2005</b> , 36, 1052-1058	2.3	9
44	Raman spectroscopic studies of diamond in Intralipid. <i>Optics Letters</i> , <b>1995</b> , 20, 1195-7	3	9
43	Fluorescence modeling for optimized-binary compressive detection Raman spectroscopy. <i>Optics Express</i> , <b>2015</b> , 23, 23935-51	3.3	8
42	Influence of crowding on hydrophobic hydration-shell structure. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 11724-11730	3.6	8
41	Molecular aggregation equilibria. Comparison of finite lattice and weighted random mixing predictions. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 7878-85	3.4	8
40	Pressure Stabilization and Solvation Thermodynamics of a Hemiketal Reaction Intermediate. <i>Journal of Physical Chemistry A</i> , <b>2000</b> , 104, 11459-11462	2.8	8
39	Quantitation of Poly(Ethylene Glycol) Concentration Using Raman Spectroscopy. <i>Applied Spectroscopy</i> , <b>1997</b> , 51, 1176-1178	3.1	7
38	Quantification of isotope encoded proteins in 2-D gels using surface enhanced resonance Raman. <i>Bioconjugate Chemistry</i> , <b>2008</b> , 19, 2212-20	6.3	7
37	Note on the energy density in the solvent induced by a solute. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 18887-90	11.5	7



36	Progress in thermodynamic perturbation theory and self-consistent Ornstein-Zernike approach relevant to structural-arrest problems. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, S4887-S4900	1.8	7
35	Measurement of Fluid Film Thickness on Curved Surfaces by Raman Spectroscopy. <i>Applied Spectroscopy</i> , <b>1995</b> , 49, 1275-1278	3.1	7
34	Spectroscopic and Structural Characterization of Water-Shared Ion-Pairs in Aqueous Sodium and Lithium Hydroxide. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 1439-1446	3.4	7
33	Specific ion interactions with aromatic rings in aqueous solutions: Comparison of molecular dynamics simulations with a thermodynamic solute partitioning model and Raman spectroscopy. <i>Chemical Physics Letters</i> , <b>2015</b> , 638, 1-8	2.5	6
32	The rectified second law of thermodynamics. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 19966-72	3.4	6
31	Pressure and temperature-dependent gauche-trans isomerization of 1-bromopropane: Raman measurement and statistical thermodynamic analysis. <i>Journal of Chemical Physics</i> , <b>1999</b> , 110, 2498-2507	3.9	6
30	Complementarity of FT-IR and Raman spectroscopies for the species discrimination of meat and bone meals related to lipid molecular profiles. <i>Food Chemistry</i> , <b>2021</b> , 345, 128754	8.5	6
29	Cavity Hydration and Competitive Binding in Methylated $\beta$ -Cyclodextrin. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 2802-2805	6.4	5
28	Finite lattice model for molecular aggregation equilibria. Boolean statistics, analytical approximations, and the macroscopic limit. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 21960-7	3.6	5
27	The Analysis of Spontaneous Processes Using Equilibrium Thermodynamics. <i>Journal of Chemical Education</i> , <b>2006</b> , 83, 132	2.4	5
26	Self-consistent corrections to the equation of state and chemical potentials of hard chain fluid mixtures. <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 5735-5744	3.9	5
25	Analysis of molecular aggregation equilibria using random mixing statistics. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 15667-74	3.4	4
24	Optimally pooled viral testing. <i>Epidemics</i> , <b>2020</b> , 33, 100413	5.1	4
23	Towards the DRED of Resin-Supported Combinatorial Libraries: A Non-Invasive Methodology Based on Bead Self-Encoding and Multispectral Imaging This work was supported by Purdue University, the TRASK fund, and the National Science Foundation (CHE-9875390 to HF, DMR-9704162 to DB). HF is a Cottrell Scholar of Research Corporation. DRED—dual recursive deconvolution. <i>Angewandte Chemie International Edition</i> , <b>2000</b> , 39, 4483-4485	16.4	4
22	Electric buzz in a glass of pure water.. <i>Science</i> , <b>2022</b> , 376, 800-801	33.3	4
21	Protein quantitation in 2-D gels using fluorescence with water Raman as an internal standard. <i>Journal of Proteome Research</i> , <b>2008</b> , 7, 1341-5	5.6	3
20	Spectroscopically Quantifying the Influence of Salts on Nonionic Surfactant Chemical Potentials and Micelle Formation. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 355-360	6.4	3
19	Virial theorem and energy partitioning in systems with mixed power-law potentials. <i>Molecular Physics</i> , <b>2008</b> , 106, 547-555	1.7	2

18	Raman Chemical Imaging of Tribological Surfaces. <i>Tribology Transactions</i> , <b>2002</b> , 45, 239-245	1.8	2
17	Perturbed hard-body fluid analysis of the global effects of solvation on conformational thermodynamics. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 6590-6598	3.9	2
16	Comparison and chemical structure-related basis of species discrimination of animal fats by Raman spectroscopy using near-infrared and visible excitation lasers. <i>LWT - Food Science and Technology</i> , <b>2020</b> , 134, 110105	5.4	2
15	Hydration and Seamless Integration of Hydrogen Peroxide in Water. <i>Journal of Physical Chemistry B</i> , <b>2021</b> ,	3.4	2
14	The freezing behavior of aqueous -alcohol nanodroplets. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 9991-10005	3.6	2
13	Solvent scaling scheme for studying solvent restructuring thermodynamics in solvation processes. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 270, 114-127	6	1
12	Revisiting Bohr's semiclassical quantum theory. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 19861-6	3.4	1
11	Perturbed hard fluid theoretical analysis of the effects of solvation on the thermodynamics of a hemiketal formation reaction. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 6427-6436	3.9	1
10	Quantifying how step-wise fluorination tunes local solute hydrophobicity, hydration shell thermodynamics and the quantum mechanical contributions of solute-water interactions. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 22997-23008	3.6	1
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