

Dor Ben-Amotz

List of Publications by Year in descending order

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Version: 2024-02-01

163
papers

6,545
citations

50170

46
h-index

79541

73
g-index

170
all docs

170
docs citations

170
times ranked

5768
citing authors

#	ARTICLE	IF	CITATIONS
1	Water structural transformation at molecular hydrophobic interfaces. <i>Nature</i> , 2012, 491, 582-585.	13.7	466
2	Estimation of effective diameters for molecular fluids. <i>The Journal of Physical Chemistry</i> , 1990, 94, 1038-1047.	2.9	263
3	Quantitative Vibrational Imaging by Hyperspectral Stimulated Raman Scattering Microscopy and Multivariate Curve Resolution Analysis. <i>Analytical Chemistry</i> , 2013, 85, 98-106.	3.2	198
4	Raman Detection of Proteomic Analytes. <i>Analytical Chemistry</i> , 2003, 75, 5703-5709.	3.2	182
5	Oxygen and methylene adducts of C60 and C70. <i>Journal of the American Chemical Society</i> , 1991, 113, 5907-5908.	6.6	167
6	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> , 2009, 106, 12230-12234.	3.3	156
7	Water-Mediated Hydrophobic Interactions. <i>Annual Review of Physical Chemistry</i> , 2016, 67, 617-638.	4.8	155
8	On the cooperative formation of non-hydrogen-bonded water at molecular hydrophobic interfaces. <i>Nature Chemistry</i> , 2013, 5, 796-802.	6.6	136
9	δ -Hydrogen Bonding in Liquid Water. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2930-2933.	2.1	130
10	Unraveling Water's Entropic Mysteries: A Unified View of Nonpolar, Polar, and Ionic Hydration. <i>Accounts of Chemical Research</i> , 2008, 41, 957-967.	7.6	122
11	Micelle Structure and Hydrophobic Hydration. <i>Journal of the American Chemical Society</i> , 2015, 137, 10809-10815.	6.6	107
12	Solvation Thermodynamics: A Theory and Applications. <i>Journal of Physical Chemistry B</i> , 2005, 109, 6866-6878.	1.2	101
13	Isotope Edited Internal Standard Method for Quantitative Surface-Enhanced Raman Spectroscopy. <i>Analytical Chemistry</i> , 2005, 77, 3563-3569.	3.2	99
14	Perturbations of Water by Alkali Halide Ions Measured using Multivariate Raman Curve Resolution. <i>Journal of Physical Chemistry B</i> , 2009, 113, 1805-1809.	1.2	92
15	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> , 2018, 9, 851-857.	2.1	86
16	Specific Ion Effects in Amphiphile Hydration and Interface Stabilization. <i>Journal of the American Chemical Society</i> , 2014, 136, 2040-2047.	6.6	85
17	Contacts Between Alcohols in Water Are Random Rather than Hydrophobic. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 688-692.	2.1	85
18	Rapid Micro-Raman Imaging Using Fiber-Bundle Image Compression. <i>Applied Spectroscopy</i> , 1997, 51, 1845-1848.	1.2	82

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19	Validation of the drop coating deposition Raman method for protein analysis. <i>Analytical Biochemistry</i> , 2006, 353, 157-166.	1.1	81
20	Optical imaging of metastatic tumors using a folate-targeted fluorescent probe. <i>Journal of Biomedical Optics</i> , 2003, 8, 636.	1.4	79
21	Charge Asymmetry at Aqueous Hydrophobic Interfaces and Hydration Shells. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9560-9563.	7.2	79
22	Multivariate Hyperspectral Raman Imaging Using Compressive Detection. <i>Analytical Chemistry</i> , 2011, 83, 5086-5092.	3.2	77
23	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> , 2017, 8, 5246-5252.	2.1	74
24	Molecular reorientation dynamics and microscopic friction in liquids. <i>Chemical Physics</i> , 1994, 180, 119-129.	0.9	72
25	Reformulation of Weeks's Chandler-Andersen Perturbation Theory Directly in Terms of a Hard-Sphere Reference System. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6877-6882.	1.2	71
26	Enhanced Chemical Classification of Raman Images in the Presence of Strong Fluorescence Interference. <i>Applied Spectroscopy</i> , 2000, 54, 1379-1383.	1.2	68
27	Detection of amino acid and peptide phosphate protonation using Raman spectroscopy. <i>Analytical Biochemistry</i> , 2005, 343, 223-230.	1.1	68
28	Solute-Induced Perturbations of Solvent-Shell Molecules Observed Using Multivariate Raman Curve Resolution. <i>Journal of the American Chemical Society</i> , 2008, 130, 4576-4577.	6.6	68
29	Identification of insulin variants using Raman spectroscopy. <i>Analytical Biochemistry</i> , 2004, 332, 245-252.	1.1	66
30	Structure and Dynamics of Water Dangling OH Bonds in Hydrophobic Hydration Shells. Comparison of Simulation and Experiment. <i>Journal of Physical Chemistry A</i> , 2011, 115, 6177-6183.	1.1	64
31	Chemical mapping of elemental sulfur on pyrite and arsenopyrite surfaces using near-infrared Raman imaging microscopy. <i>Applied Surface Science</i> , 2001, 178, 105-115.	3.1	63
32	Adaptive silver films for surface-enhanced Raman spectroscopy of biomolecules. <i>Journal of Raman Spectroscopy</i> , 2005, 36, 648-656.	1.2	60
33	Hydration-Shell Vibrational Spectroscopy. <i>Journal of the American Chemical Society</i> , 2019, 141, 10569-10580.	6.6	60
34	Distinguishing aggregation from random mixing in aqueous t-butyl alcohol solutions. <i>Faraday Discussions</i> , 2013, 167, 177.	1.6	58
35	Hydrophobic Ambivalence: Teetering on the Edge of Randomness. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1696-1701.	2.1	57
36	Stripping of Cosmic Spike Spectral Artifacts Using a New Upper-Bound Spectrum Algorithm. <i>Applied Spectroscopy</i> , 2001, 55, 1523-1531.	1.2	56

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37	Chemical Segregation and Reduction of Raman Background Interference Using Drop Coating Deposition. <i>Applied Spectroscopy</i> , 2004, 58, 929-933.	1.2	56
38	Application of Raman Multivariate Curve Resolution to Solvation-Shell Spectroscopy. <i>Applied Spectroscopy</i> , 2012, 66, 282-288.	1.2	56
39	Adaptive Silver Films for Detection of Antibody-Antigen Binding. <i>Langmuir</i> , 2005, 21, 8368-8373.	1.6	55
40	Unveiling Electron Promiscuity. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1216-1222.	2.1	54
41	Optimized perturbed hard sphere expressions for the structure and thermodynamics of Lennard-Jones fluids. <i>Molecular Physics</i> , 1993, 78, 137-149.	0.8	53
42	Analysis of insulin amyloid fibrils by Raman spectroscopy. <i>Biophysical Chemistry</i> , 2007, 128, 150-155.	1.5	53
43	Expulsion of Ions from Hydrophobic Hydration Shells. <i>Journal of the American Chemical Society</i> , 2013, 135, 8818-8821.	6.6	53
44	Global thermodynamics of hydrophobic cavitation, dewetting, and hydration. <i>Journal of Chemical Physics</i> , 2005, 123, 184504.	1.2	51
45	Temperature-Dependent Hydrophobic Crossover Length Scale and Water Tetrahedral Order. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1012-1017.	2.1	51
46	The Raman detection of peptide tyrosine phosphorylation. <i>Analytical Biochemistry</i> , 2004, 332, 116-121.	1.1	50
47	Anomalous fluorescence in near-infrared Raman spectroscopy of cementitious materials. <i>Cement and Concrete Research</i> , 2005, 35, 1620-1628.	4.6	49
48	Evaluation of folate conjugate uptake and transport by the choroid plexus of mice. <i>Pharmaceutical Research</i> , 2003, 20, 714-719.	1.7	47
49	Interactions between halide anions and a molecular hydrophobic interface. <i>Faraday Discussions</i> , 2013, 160, 255-270.	1.6	47
50	Influence of Conosolvency on the Aggregation of Tertiary Butyl Alcohol in Methanol-Water Mixtures. <i>Journal of the American Chemical Society</i> , 2016, 138, 9045-9048.	6.6	46
51	Occurrence and fragmentation of high-mass fullerenes. <i>Chemical Physics Letters</i> , 1991, 183, 149-152.	1.2	45
52	Spontaneous drying of non-polar deep-cavity cavitation pockets in aqueous solution. <i>Nature Chemistry</i> , 2020, 12, 589-594.	6.6	45
53	Photon level chemical classification using digital compressive detection. <i>Analytica Chimica Acta</i> , 2012, 755, 17-27.	2.6	43
54	Near-infrared Raman imaging microscope based on fiber-bundle image compression. <i>Journal of Raman Spectroscopy</i> , 1999, 30, 757-765.	1.2	41

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55	Methane Hydration's Shell Structure and Fragility. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15133-15137.	7.2	41
56	Gas-phase reactivity of fullerene anions. <i>Journal of the American Chemical Society</i> , 1991, 113, 5489-5490.	6.6	39
57	Molecular Fluorescence Thermometry. <i>Analytical Chemistry</i> , 1994, 66, 2788-2790.	3.2	39
58	Analytical implementation and critical tests of fluid thermodynamic perturbation theory. <i>Journal of Chemical Physics</i> , 2003, 119, 10777-10788.	1.2	38
59	Aromatic hydrocarbon derivatives of fullerenes. <i>Rapid Communications in Mass Spectrometry</i> , 1991, 5, 472-474.	0.7	36
60	Theoretical and Experimental Uncertainty in Temperature Measurement of Materials by Raman Spectroscopy. <i>Applied Spectroscopy</i> , 1996, 50, 1034-1038.	1.2	35
61	Educational Applications of Infrared and Raman Spectroscopy: A Comparison of Experiment and Theory. <i>Journal of Chemical Education</i> , 2000, 77, 654.	1.1	35
62	Hard sphere perturbation theory for fluids with soft-repulsive-core potentials. <i>Journal of Chemical Physics</i> , 2004, 120, 4844-4851.	1.2	34
63	Interfacial solvation thermodynamics. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 414013.	0.7	34
64	Digital compressive chemical quantitation and hyperspectral imaging. <i>Analyst</i> , The, 2013, 138, 4982.	1.7	33
65	Hydration-Shell Transformation of Thermosensitive Aqueous Polymers. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1360-1364.	2.1	33
66	Recent Trends in Compressive Raman Spectroscopy Using DMD-Based Binary Detection. <i>Journal of Imaging</i> , 2019, 5, 1.	1.7	33
67	Are Long-Chain Alkanes Hydrophilic?. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8646-8651.	1.2	32
68	Electric buzz in a glass of pure water. <i>Science</i> , 2022, 376, 800-801.	6.0	32
69	Oligosaccharide identification and mixture quantification using Raman spectroscopy and chemometric analysis. <i>Carbohydrate Research</i> , 2004, 339, 141-145.	1.1	31
70	Pressure Dependent Vibrational Fermi Resonance in Liquid CH ₃ OH and CH ₂ Cl ₂ . <i>Journal of Physical Chemistry A</i> , 1998, 102, 10614-10619.	1.1	30
71	Influence of a Neighboring Charged Group on Hydrophobic Hydration Shell Structure. <i>Journal of Physical Chemistry B</i> , 2015, 119, 9417-9422.	1.2	30
72	Raman chemical imaging of tribological nitride coated (TiN, TiAlN) surfaces. <i>Wear</i> , 2002, 252, 956-969.	1.5	29

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73	External Raman standard for absolute intensity and concentration measurements. Review of Scientific Instruments, 2005, 76, 033108.	0.6	29
74	Rapid classification of pharmaceutical ingredients with Raman spectroscopy using compressive detection strategy with PLS-DA multivariate filters. Journal of Pharmaceutical and Biomedical Analysis, 2013, 80, 63-68.	1.4	29
75	Generalized Solvation Heat Capacities. Journal of Physical Chemistry B, 2006, 110, 19839-19849.	1.2	28
76	Detection and Relative Quantification of Proteins by Surface Enhanced Raman Using Isotopic Labels. Journal of the American Chemical Society, 2008, 130, 9624-9625.	6.6	28
77	Binding of divalent cations to acetate: molecular simulations guided by Raman spectroscopy. Physical Chemistry Chemical Physics, 2020, 22, 24014-24027.	1.3	28
78	Removal of Cosmic Spikes from Hyper-Spectral Images Using a Hybrid Upper-Bound Spectrum Method. Applied Spectroscopy, 2002, 56, 91-98.	1.2	26
79	Average Entropy Dissipation in Irreversible Mesoscopic Processes. Physical Review Letters, 2006, 96, 020602.	2.9	26
80	Temperature and polarization dependent Raman spectra of liquid H_2O and D_2O . Journal of Raman Spectroscopy, 2018, 49, 1860-1866.	1.2	25
81	Translational and rotational dynamics in liquids. comparison of experiment, kinetic theory and hydrodynamics. Chemical Physics, 1994, 183, 385-392.	0.9	24
82	Intermolecular Forces and Bond Length Changes in High-Pressure Fluids. Vibrational Spectroscopic Measurement and Generalized Perturbed Hard Fluid Analysis. Journal of Physical Chemistry B, 2000, 104, 7858-7866.	1.2	24
83	Cavity Formation and Dipolar Contribution to the Gauche \rightarrow Trans Isomerization of 1-Chloropropane and 1,2-Dichloroethane. Journal of Physical Chemistry B, 2001, 105, 520-526.	1.2	24
84	Hydrophobic but Water-Friendly: Favorable Water \leftrightarrow Perfluoromethyl Interactions Promote Hydration Shell Defects. Journal of the American Chemical Society, 2019, 141, 15856-15868.	6.6	24
85	Chemical mapping of thaumasite formed in sulfate-attacked cement mortar using near-infrared Raman imaging microscopy. Cement and Concrete Research, 2001, 31, 953-958.	4.6	23
86	Raman Studies of Molecular Potential Energy Surface Changes in Supercritical Fluids. ACS Symposium Series, 1992, , 18-30.	0.5	22
87	Hiding in the Crowd: Spectral Signatures of Overcoordinated Hydrogen-Bond Environments. Journal of Physical Chemistry Letters, 2019, 10, 6067-6073.	2.1	22
88	Binary Complementary Filters for Compressive Raman Spectroscopy. Applied Spectroscopy, 2018, 72, 69-78.	1.2	21
89	Optical Absorption and Fluorescence Spectral Imaging Using Fiber Bundle Image Compression. Applied Spectroscopy, 1999, 53, 1118-1122.	1.2	20
90	Second-Derivative Variance Minimization Method for Automated Spectral Subtraction. Applied Spectroscopy, 2004, 58, 272-278.	1.2	20

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91	Description and Theory of a Fiber-Optic Confocal and Super-Focal Raman Microspectrometer. Applied Spectroscopy, 1996, 50, 1150-1155.	1.2	19
92	Molecular Force Measurement in Liquids and Solids Using Vibrational Spectroscopy. Journal of Physical Chemistry B, 1998, 102, 3354-3362.	1.2	19
93	Influence of Laser Illumination Geometry on the Power Distribution Advantage. Applied Spectroscopy, 2001, 55, 61-65.	1.2	19
94	Single Scan Cosmic Spike Removal Using the Upper Bound Spectrum Method. Applied Spectroscopy, 2003, 57, 1303-1305.	1.2	19
95	Updated Principle of Corresponding States. Journal of Chemical Education, 2004, 81, 142.	1.1	19
96	CO ₂ Hydration Shell Structure and Transformation. Journal of Physical Chemistry Letters, 2017, 8, 2971-2975.	2.1	19
97	Influence of Intermolecular Coupling on the Vibrational Spectrum of Water. Journal of Physical Chemistry B, 2018, 122, 5375-5380.	1.2	18
98	Molecular-optical viscometer based on fluorescence depolarization. Analytical Chemistry, 1992, 64, 700-703.	3.2	17
99	Communication: Length scale dependent oil-water energy fluctuations. Journal of Chemical Physics, 2011, 135, 201102.	1.2	17
100	Interfacial Adsorption of Neutral and Ionic Solutes in a Water Droplet. Journal of Physical Chemistry B, 2018, 122, 3447-3453.	1.2	17
101	Joule Heating and Thermal Denaturation of Proteins in Nano-ESI Theta Tips. Journal of the American Society for Mass Spectrometry, 2017, 28, 2001-2010.	1.2	16
102	Improved corresponding states scaling of the equations of state of simple fluids. Journal of Chemical Physics, 2002, 117, 4632-4634.	1.2	15
103	Rectification of thermodynamic inequalities. Journal of Chemical Physics, 2003, 118, 5932-5936.	1.2	15
104	New mean-energy formulae for free energy differences. Molecular Physics, 2005, 103, 3209-3221.	0.8	15
105	Pharmaceutical Application of Fast Raman Hyperspectral Imaging with Compressive Detection Strategy. Journal of Pharmaceutical Innovation, 2014, 9, 1-4.	1.1	15
106	Water-mediated aggregation of 2-butoxyethanol. Physical Chemistry Chemical Physics, 2016, 18, 24937-24943.	1.3	15
107	Complementarity of FT-IR and Raman spectroscopies for the species discrimination of meat and bone meals related to lipid molecular profiles. Food Chemistry, 2021, 345, 128754.	4.2	15
108	Spectroscopic and Structural Characterization of Water-Shared Ion-Pairs in Aqueous Sodium and Lithium Hydroxide. Journal of Physical Chemistry B, 2021, 125, 1439-1446.	1.2	15

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109	Chemical potentials of hard polyatomic solutes in hard sphere fluids. <i>Journal of Chemical Physics</i> , 1997, 106, 1181-1186.	1.2	14
110	Cavity formation free energies for rigid chains in hard sphere fluids. <i>Journal of Chemical Physics</i> , 1998, 108, 7294-7300.	1.2	14
111	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> , 2002, 106, 7882-7888.	1.2	14
112	Cavity formation energies for diatomic and spherical solutes in a diatomic hard body fluid. <i>Journal of Chemical Physics</i> , 2000, 113, 4349-4358.	1.2	13
113	Protein-ligand binding detected using ultrafiltration Raman difference spectroscopy. <i>Analytical Biochemistry</i> , 2008, 373, 154-160.	1.1	13
114	Fluorescence modeling for optimized-binary compressive detection Raman spectroscopy. <i>Optics Express</i> , 2015, 23, 23935.	1.7	13
115	Influence of crowding on hydrophobic hydration-shell structure. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 11724-11730.	1.3	13
116	Nonideal gas solvation thermodynamics. <i>Journal of Chemical Physics</i> , 2007, 126, 104502.	1.2	12
117	Accurate Concentration Measurements Using Surface-Enhanced Raman and Deuterium Exchanged Dye Pairs. <i>Applied Spectroscopy</i> , 2008, 62, 1001-1007.	1.2	12
118	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> , 1997, 107, 6831-6838.	1.2	11
119	Excluded volume anisotropy and two-cavity distribution functions in hard sphere fluids. <i>Journal of Chemical Physics</i> , 1997, 106, 5631-5637.	1.2	11
120	The influence of molecular shape on chemical reaction thermodynamics. <i>Journal of Chemical Physics</i> , 2001, 115, 9401-9409.	1.2	11
121	Characterization of select members of the Taxane family using Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2005, 36, 1052-1058.	1.2	11
122	Optimally pooled viral testing. <i>Epidemics</i> , 2020, 33, 100413.	1.5	11
123	Raman spectroscopic studies of diamond in Intralipid. <i>Optics Letters</i> , 1995, 20, 1195.	1.7	10
124	Progress in thermodynamic perturbation theory and self-consistent Ornstein-Zernike approach relevant to structural-arrest problems. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S4887-S4900.	0.7	10
125	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> , 2006, 103, 18887-18890.	3.3	10
126	Multiplexed concentration quantification using isotopic surface-enhanced resonance Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 752-757.	1.2	10

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127	Molecular Aggregation Equilibria. Comparison of Finite Lattice and Weighted Random Mixing Predictions. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7878-7885.	1.2	9
128	Pressure and temperature-dependent gauche-trans isomerization of 1-bromopropane: Raman measurement and statistical thermodynamic analysis. <i>Journal of Chemical Physics</i> , 1999, 110, 2498-2507.	1.2	8
129	Pressure Stabilization and Solvation Thermodynamics of a Hemiketal Reaction Intermediate. <i>Journal of Physical Chemistry A</i> , 2000, 104, 11459-11462.	1.1	8
130	The Rectified Second Law of Thermodynamics. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19966-19972.	1.2	8
131	Measurement of Fluid Film Thickness on Curved Surfaces by Raman Spectroscopy. <i>Applied Spectroscopy</i> , 1995, 49, 1275-1278.	1.2	7
132	Quantitation of Poly(Ethylene Glycol) Concentration Using Raman Spectroscopy. <i>Applied Spectroscopy</i> , 1997, 51, 1176-1178.	1.2	7
133	Self-consistent corrections to the equation of state and chemical potentials of hard chain fluid mixtures. <i>Journal of Chemical Physics</i> , 2001, 114, 5735-5744.	1.2	7
134	The Analysis of Spontaneous Processes Using Equilibrium Thermodynamics. <i>Journal of Chemical Education</i> , 2006, 83, 132.	1.1	7
135	Quantification of Isotope Encoded Proteins in 2-D Gels Using Surface Enhanced Resonance Raman. <i>Bioconjugate Chemistry</i> , 2008, 19, 2212-2220.	1.8	7
136	Hydration and Seamless Integration of Hydrogen Peroxide in Water. <i>Journal of Physical Chemistry B</i> , 2021, 125, 6986-6993.	1.2	7
137	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> , 2015, 638, 1-8.	1.2	6
138	Finite lattice model for molecular aggregation equilibria. Boolean statistics, analytical approximations, and the macroscopic limit. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21960-21967.	1.3	6
139	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> , 2020, 134, 110105.	2.5	6
140	Analysis of Molecular Aggregation Equilibria Using Random Mixing Statistics. <i>Journal of Physical Chemistry B</i> , 2013, 117, 15667-15674.	1.2	5
141	Cavity Hydration and Competitive Binding in Methylated β -Cyclodextrin. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2802-2805.	2.1	5
142	Spectroscopically Quantifying the Influence of Salts on Nonionic Surfactant Chemical Potentials and Micelle Formation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 355-360.	2.1	5
143	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> , 2020, 22, 22997-23008.	1.3	4
144	Surfactant aggregate size distributions above and below the critical micelle concentration. <i>Journal of Chemical Physics</i> , 2021, 155, 224902.	1.2	4

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145	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> , 2000, 39, 4483-4485.	7.2	4
146	Protein Quantitation in 2-D Gels Using Fluorescence with Water Raman as an Internal Standard. <i>Journal of Proteome Research</i> , 2008, 7, 1341-1345.	1.8	3
147	Raman Chemical Imaging of Tribological Surfaces. <i>Tribology Transactions</i> , 2002, 45, 239-245.	1.1	2
148	Perturbed hard-body fluid analysis of the global effects of solvation on conformational thermodynamics. <i>Journal of Chemical Physics</i> , 2002, 117, 6590-6598.	1.2	2
149	Virial theorem and energy partitioning in systems with mixed power-law potentials. <i>Molecular Physics</i> , 2008, 106, 547-555.	0.8	2
150	Solvent scaling scheme for studying solvent restructuring thermodynamics in solvation processes. <i>Journal of Molecular Liquids</i> , 2018, 270, 114-127.	2.3	2
151	The freezing behavior of aqueous n-alcohol nanodroplets. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 9991-10005.	1.3	2
152	Perturbed hard fluid theoretical analysis of the effects of solvation on the thermodynamics of a hemiketal formation reaction. <i>Journal of Chemical Physics</i> , 2003, 118, 6427-6436.	1.2	1
153	Revisiting Bohr's Semiclassical Quantum Theory. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19861-19866.	1.2	1
154	Binding-Induced Unfolding of 1-Bromopropane in β -Cyclodextrin. <i>Journal of Physical Chemistry B</i> , 2020, 124, 11015-11021.	1.2	1
155	Influence of Methylene Fluorination and Chain Length on the Hydration Shell Structure and Thermodynamics of Linear Diols. <i>Journal of Physical Chemistry B</i> , 2021, 125, 13552-13564.	1.2	1
156	Modeling tribochemical processes using a combined molecular and hydrodynamic approach. <i>Tribology Series</i> , 1999, 36, 451-456.	0.1	0
157	Preface to the Charles B. Harris Festschrift. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19745-19746.	1.2	0
158	Proteomic Applications of Drop Coating Deposition Raman Spectroscopy. <i>ACS Symposium Series</i> , 2007, , 52-63.	0.5	0
159	Tribute to Benjamin Widom. <i>Journal of Physical Chemistry B</i> , 2018, 122, 3203-3205.	1.2	0
160	Methane Hydration's Shell Structure and Fragility. <i>Angewandte Chemie</i> , 2018, 130, 15353-15357.	1.6	0
161	Linking photons and ultra-light particles. <i>Chemical Physics</i> , 2018, 514, 113-119.	0.9	0
162	Expulsion of Hydroxide Ions from Methyl Hydration Shells. <i>Journal of Physical Chemistry B</i> , 2022, 126, 869-877.	1.2	0

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163	Scientific Autobiography of Dor Ben-Amotz. Journal of Physical Chemistry B, 2022, 126, 2946-2951.	1.2	0