

Dor Ben-Amotz

List of Publications by Year in descending order

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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	Expulsion of Hydroxide Ions from Methyl Hydration Shells. <i>Journal of Physical Chemistry B</i> , 2022, 126, 869-877.	1.2	0
2	Scientific Autobiography of Dor Ben-Amotz. <i>Journal of Physical Chemistry B</i> , 2022, 126, 2946-2951.	1.2	0
3	Electric buzz in a glass of pure water. <i>Science</i> , 2022, 376, 800-801.	6.0	32
4	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> , 2021, 345, 128754.	4.2	15
5	Spectroscopic and Structural Characterization of Water-Shared Ion-Pairs in Aqueous Sodium and Lithium Hydroxide. <i>Journal of Physical Chemistry B</i> , 2021, 125, 1439-1446.	1.2	15
6	The freezing behavior of aqueous n-alcohol nanodroplets. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 9991-10005.	1.3	2
7	Hydration and Seamless Integration of Hydrogen Peroxide in Water. <i>Journal of Physical Chemistry B</i> , 2021, 125, 6986-6993.	1.2	7
8	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
9	Surfactant aggregate size distributions above and below the critical micelle concentration. <i>Journal of Chemical Physics</i> , 2021, 155, 224902.	1.2	4
10	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
11	Binding of divalent cations to acetate: molecular simulations guided by Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 24014-24027.	1.3	28
12	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
13	Binding-Induced Unfolding of 1-Bromopropane in β -Cyclodextrin. <i>Journal of Physical Chemistry B</i> , 2020, 124, 11015-11021.	1.2	1
14	Optimally pooled viral testing. <i>Epidemics</i> , 2020, 33, 100413.	1.5	11
15	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
16	Spontaneous drying of non-polar deep-cavity cavitation pockets in aqueous solution. <i>Nature Chemistry</i> , 2020, 12, 589-594.	6.6	45
17	Influence of crowding on hydrophobic hydration-shell structure. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 11724-11730.	1.3	13
18	Hydrophobic but Water-Friendly: Favorable Water-Perfluoromethyl Interactions Promote Hydration Shell Defects. <i>Journal of the American Chemical Society</i> , 2019, 141, 15856-15868.	6.6	24

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19	Hiding in the Crowd: Spectral Signatures of Overcoordinated Hydrogen-Bond Environments. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6067-6073.	2.1	22
20	Hydration-Shell Vibrational Spectroscopy. <i>Journal of the American Chemical Society</i> , 2019, 141, 10569-10580.	6.6	60
21	Cavity Hydration and Competitive Binding in Methylated β -Cyclodextrin. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2802-2805.	2.1	5
22	Recent Trends in Compressive Raman Spectroscopy Using DMD-Based Binary Detection. <i>Journal of Imaging</i> , 2019, 5, 1.	1.7	33
23	Temperature-Dependent Hydrophobic Crossover Length Scale and Water Tetrahedral Order. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1012-1017.	2.1	51
24	Tribute to Benjamin Widom. <i>Journal of Physical Chemistry B</i> , 2018, 122, 3203-3205.	1.2	0
25	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
26	Interfacial Adsorption of Neutral and Ionic Solutes in a Water Droplet. <i>Journal of Physical Chemistry B</i> , 2018, 122, 3447-3453.	1.2	17
27	Influence of Intermolecular Coupling on the Vibrational Spectrum of Water. <i>Journal of Physical Chemistry B</i> , 2018, 122, 5375-5380.	1.2	18
28	Binary Complementary Filters for Compressive Raman Spectroscopy. <i>Applied Spectroscopy</i> , 2018, 72, 69-78.	1.2	21
29	Solvent scaling scheme for studying solvent restructuring thermodynamics in solvation processes. <i>Journal of Molecular Liquids</i> , 2018, 270, 114-127.	2.3	2
30	Methane Hydration Shell Structure and Fragility. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15133-15137.	7.2	41
31	Methane Hydration Shell Structure and Fragility. <i>Angewandte Chemie</i> , 2018, 130, 15353-15357.	1.6	0
32	Temperature and polarization dependent Raman spectra of liquid H_2O and D_2O . <i>Journal of Raman Spectroscopy</i> , 2018, 49, 1860-1866.	1.2	25
33	Linking photons and ultra-light particles. <i>Chemical Physics</i> , 2018, 514, 113-119.	0.9	0
34	Hydration-Shell Transformation of Thermosensitive Aqueous Polymers. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1360-1364.	2.1	33
35	CO_2 Hydration Shell Structure and Transformation. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2971-2975.	2.1	19
36	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

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37	Joule Heating and Thermal Denaturation of Proteins in Nano-ESI Theta Tips. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 2001-2010.	1.2	16
38	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
39	Water-Mediated Hydrophobic Interactions. <i>Annual Review of Physical Chemistry</i> , 2016, 67, 617-638.	4.8	155
40	Interfacial solvation thermodynamics. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 414013.	0.7	34
41	Water-mediated aggregation of 2-butoxyethanol. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 24937-24943.	1.3	15
42	Contacts Between Alcohols in Water Are Random Rather than Hydrophobic. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 688-692.	2.1	85
43	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
44	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
45	Hydrophobic Ambivalence: Teetering on the Edge of Randomness. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1696-1701.	2.1	57
46	Fluorescence modeling for optimized-binary compressive detection Raman spectroscopy. <i>Optics Express</i> , 2015, 23, 23935.	1.7	13
47	Micelle Structure and Hydrophobic Hydration. <i>Journal of the American Chemical Society</i> , 2015, 137, 10809-10815.	6.6	107
48	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
49	Pharmaceutical Application of Fast Raman Hyperspectral Imaging with Compressive Detection Strategy. <i>Journal of Pharmaceutical Innovation</i> , 2014, 9, 1-4.	1.1	15
50	Specific Ion Effects in Amphiphile Hydration and Interface Stabilization. <i>Journal of the American Chemical Society</i> , 2014, 136, 2040-2047.	6.6	85
51	Charge Asymmetry at Aqueous Hydrophobic Interfaces and Hydration Shells. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9560-9563.	7.2	79
52	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
53	On the cooperative formation of non-hydrogen-bonded water at molecular hydrophobic interfaces. <i>Nature Chemistry</i> , 2013, 5, 796-802.	6.6	136
54	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> , 2013, 80, 63-68.	1.4	29

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55	Distinguishing aggregation from random mixing in aqueous t-butyl alcohol solutions. <i>Faraday Discussions</i> , 2013, 167, 177.	1.6	58
56	Analysis of Molecular Aggregation Equilibria Using Random Mixing Statistics. <i>Journal of Physical Chemistry B</i> , 2013, 117, 15667-15674.	1.2	5
57	Digital compressive chemical quantitation and hyperspectral imaging. <i>Analyst, The</i> , 2013, 138, 4982.	1.7	33
58	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
59	Expulsion of Ions from Hydrophobic Hydration Shells. <i>Journal of the American Chemical Society</i> , 2013, 135, 8818-8821.	6.6	53
60	Interactions between halide anions and a molecular hydrophobic interface. <i>Faraday Discussions</i> , 2013, 160, 255-270.	1.6	47
61	Application of Raman Multivariate Curve Resolution to Solvation-Shell Spectroscopy. <i>Applied Spectroscopy</i> , 2012, 66, 282-288.	1.2	56
62	Water structural transformation at molecular hydrophobic interfaces. <i>Nature</i> , 2012, 491, 582-585.	13.7	466
63	Photon level chemical classification using digital compressive detection. <i>Analytica Chimica Acta</i> , 2012, 755, 17-27.	2.6	43
64	Multivariate Hyperspectral Raman Imaging Using Compressive Detection. <i>Analytical Chemistry</i> , 2011, 83, 5086-5092.	3.2	77
65	Unveiling Electron Promiscuity. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1216-1222.	2.1	54
66	δ -Hydrogen Bonding in Liquid Water. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2930-2933.	2.1	130
67	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
68	Communication: Length scale dependent oil-water energy fluctuations. <i>Journal of Chemical Physics</i> , 2011, 135, 201102.	1.2	17
69	Multiplexed concentration quantification using isotopic surface-enhanced resonance Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 752-757.	1.2	10
70	Are Long-Chain Alkanes Hydrophilic?. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8646-8651.	1.2	32
71	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
72	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

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73	Protein-ligand binding detected using ultrafiltration Raman difference spectroscopy. <i>Analytical Biochemistry</i> , 2008, 373, 154-160.	1.1	13
74	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
75	Virial theorem and energy partitioning in systems with mixed power-law potentials. <i>Molecular Physics</i> , 2008, 106, 547-555.	0.8	2
76	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
77	Accurate Concentration Measurements Using Surface-Enhanced Raman and Deuterium Exchanged Dye Pairs. <i>Applied Spectroscopy</i> , 2008, 62, 1001-1007.	1.2	12
78	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
79	Detection and Relative Quantification of Proteins by Surface Enhanced Raman Using Isotopic Labels. <i>Journal of the American Chemical Society</i> , 2008, 130, 9624-9625.	6.6	28
80	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
81	Nonideal gas solvation thermodynamics. <i>Journal of Chemical Physics</i> , 2007, 126, 104502.	1.2	12
82	Proteomic Applications of Drop Coating Deposition Raman Spectroscopy. <i>ACS Symposium Series</i> , 2007, , 52-63.	0.5	0
83	Analysis of insulin amyloid fibrils by Raman spectroscopy. <i>Biophysical Chemistry</i> , 2007, 128, 150-155.	1.5	53
84	The Analysis of Spontaneous Processes Using Equilibrium Thermodynamics. <i>Journal of Chemical Education</i> , 2006, 83, 132.	1.1	7
85	The Rectified Second Law of Thermodynamics. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19966-19972.	1.2	8
86	Average Entropy Dissipation in Irreversible Mesoscopic Processes. <i>Physical Review Letters</i> , 2006, 96, 020602.	2.9	26
87	Preface to the Charles B. Harris Festschrift. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19745-19746.	1.2	0
88	Generalized Solvation Heat Capacities. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19839-19849.	1.2	28
89	Revisiting Bohr's Semiclassical Quantum Theory. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19861-19866.	1.2	1
90	Validation of the drop coating deposition Raman method for protein analysis. <i>Analytical Biochemistry</i> , 2006, 353, 157-166.	1.1	81

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91	Note on the energy density in the solvent induced by a solute. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18887-18890.	3.3	10
92	Detection of amino acid and peptide phosphate protonation using Raman spectroscopy. Analytical Biochemistry, 2005, 343, 223-230.	1.1	68
93	Anomalous fluorescence in near-infrared Raman spectroscopy of cementitious materials. Cement and Concrete Research, 2005, 35, 1620-1628.	4.6	49
94	Adaptive silver films for surface-enhanced Raman spectroscopy of biomolecules. Journal of Raman Spectroscopy, 2005, 36, 648-656.	1.2	60
95	Characterization of select members of the Taxane family using Raman spectroscopy. Journal of Raman Spectroscopy, 2005, 36, 1052-1058.	1.2	11
96	External Raman standard for absolute intensity and concentration measurements. Review of Scientific Instruments, 2005, 76, 033108.	0.6	29
97	New mean-energy formulae for free energy differences. Molecular Physics, 2005, 103, 3209-3221.	0.8	15
98	Solvation Thermodynamics: A Theory and Applications. Journal of Physical Chemistry B, 2005, 109, 6866-6878.	1.2	101
99	Adaptive Silver Films for Detection of Antibody-Antigen Binding. Langmuir, 2005, 21, 8368-8373.	1.6	55
100	Isotope Edited Internal Standard Method for Quantitative Surface-Enhanced Raman Spectroscopy. Analytical Chemistry, 2005, 77, 3563-3569.	3.2	99
101	Global thermodynamics of hydrophobic cavitation, dewetting, and hydration. Journal of Chemical Physics, 2005, 123, 184504.	1.2	51
102	Progress in thermodynamic perturbation theory and self-consistent Ornstein-Zernike approach relevant to structural-arrest problems. Journal of Physics Condensed Matter, 2004, 16, S4887-S4900.	0.7	10
103	Hard sphere perturbation theory for fluids with soft-repulsive-core potentials. Journal of Chemical Physics, 2004, 120, 4844-4851.	1.2	34
104	Identification of insulin variants using Raman spectroscopy. Analytical Biochemistry, 2004, 332, 245-252.	1.1	66
105	The Raman detection of peptide tyrosine phosphorylation. Analytical Biochemistry, 2004, 332, 116-121.	1.1	50
106	Oligosaccharide identification and mixture quantification using Raman spectroscopy and chemometric analysis. Carbohydrate Research, 2004, 339, 141-145.	1.1	31
107	Reformulation of Weeks-Chandler-Andersen Perturbation Theory Directly in Terms of a Hard-Sphere Reference System. Journal of Physical Chemistry B, 2004, 108, 6877-6882.	1.2	71
108	Updated Principle of Corresponding States. Journal of Chemical Education, 2004, 81, 142.	1.1	19

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109	Second-Derivative Variance Minimization Method for Automated Spectral Subtraction. Applied Spectroscopy, 2004, 58, 272-278.	1.2	20
110	Chemical Segregation and Reduction of Raman Background Interference Using Drop Coating Deposition. Applied Spectroscopy, 2004, 58, 929-933.	1.2	56
111	Evaluation of folate conjugate uptake and transport by the choroid plexus of mice. Pharmaceutical Research, 2003, 20, 714-719.	1.7	47
112	Analytical implementation and critical tests of fluid thermodynamic perturbation theory. Journal of Chemical Physics, 2003, 119, 10777-10788.	1.2	38
113	Raman Detection of Proteomic Analytes. Analytical Chemistry, 2003, 75, 5703-5709.	3.2	182
114	Rectification of thermodynamic inequalities. Journal of Chemical Physics, 2003, 118, 5932-5936.	1.2	15
115	Single Scan Cosmic Spike Removal Using the Upper Bound Spectrum Method. Applied Spectroscopy, 2003, 57, 1303-1305.	1.2	19
116	Optical imaging of metastatic tumors using a folate-targeted fluorescent probe. Journal of Biomedical Optics, 2003, 8, 636.	1.4	79
117	Perturbed hard fluid theoretical analysis of the effects of solvation on the thermodynamics of a hemiketal formation reaction. Journal of Chemical Physics, 2003, 118, 6427-6436.	1.2	1
118	Raman Chemical Imaging of Tribological Surfaces. Tribology Transactions, 2002, 45, 239-245.	1.1	2
119	Perturbed hard-body fluid analysis of the global effects of solvation on conformational thermodynamics. Journal of Chemical Physics, 2002, 117, 6590-6598.	1.2	2
120	Improved corresponding states scaling of the equations of state of simple fluids. Journal of Chemical Physics, 2002, 117, 4632-4634.	1.2	15
121	Removal of Cosmic Spikes from Hyper-Spectral Images Using a Hybrid Upper-Bound Spectrum Method. Applied Spectroscopy, 2002, 56, 91-98.	1.2	26
122	Global Quantitation of Solvent Effects on the Isomerization Thermodynamics of 1,2-Dichloroethane and trans-1,2-Dichlorocyclohexane. Journal of Physical Chemistry B, 2002, 106, 7882-7888.	1.2	14
123	Raman chemical imaging of tribological nitride coated (TiN, TiAlN) surfaces. Wear, 2002, 252, 956-969.	1.5	29
124	Influence of Laser Illumination Geometry on the Power Distribution Advantage. Applied Spectroscopy, 2001, 55, 61-65.	1.2	19
125	Stripping of Cosmic Spike Spectral Artifacts Using a New Upper-Bound Spectrum Algorithm. Applied Spectroscopy, 2001, 55, 1523-1531.	1.2	56
126	Cavity Formation and Dipolar Contribution to the Gauche \rightleftharpoons Trans Isomerization of 1-Chloropropane and 1,2-Dichloroethane. Journal of Physical Chemistry B, 2001, 105, 520-526.	1.2	24

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127	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
128	Chemical mapping of thaumasite formed in sulfate-attacked cement mortar using near-infrared Raman imaging microscopy. <i>Cement and Concrete Research</i> , 2001, 31, 953-958.	4.6	23
129	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
130	The influence of molecular shape on chemical reaction thermodynamics. <i>Journal of Chemical Physics</i> , 2001, 115, 9401-9409.	1.2	11
131	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
132	Enhanced Chemical Classification of Raman Images in the Presence of Strong Fluorescence Interference. <i>Applied Spectroscopy</i> , 2000, 54, 1379-1383.	1.2	68
133	Pressure Stabilization and Solvation Thermodynamics of a Hemiketal Reaction Intermediate. <i>Journal of Physical Chemistry A</i> , 2000, 104, 11459-11462.	1.1	8
134	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
135	Intermolecular Forces and Bond Length Changes in High-Pressure Fluids. <i>Vibrational Spectroscopic Measurement and Generalized Perturbed Hard Fluid Analysis. Journal of Physical Chemistry B</i> , 2000, 104, 7858-7866.	1.2	24
136	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
137	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
138	Near-infrared Raman imaging microscope based on fiber-bundle image compression. <i>Journal of Raman Spectroscopy</i> , 1999, 30, 757-765.	1.2	41
139	Optical Absorption and Fluorescence Spectral Imaging Using Fiber Bundle Image Compression. <i>Applied Spectroscopy</i> , 1999, 53, 1118-1122.	1.2	20
140	Modeling tribochemical processes using a combined molecular and hydrodynamic approach. <i>Tribology Series</i> , 1999, 36, 451-456.	0.1	0
141	Cavity formation free energies for rigid chains in hard sphere fluids. <i>Journal of Chemical Physics</i> , 1998, 108, 7294-7300.	1.2	14
142	Molecular Force Measurement in Liquids and Solids Using Vibrational Spectroscopy. <i>Journal of Physical Chemistry B</i> , 1998, 102, 3354-3362.	1.2	19
143	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
144	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

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145	Chemical potentials of hard polyatomic solutes in hard sphere fluids. <i>Journal of Chemical Physics</i> , 1997, 106, 1181-1186.	1.2	14
146	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
147	Quantitation of Poly(Ethylene Glycol) Concentration Using Raman Spectroscopy. <i>Applied Spectroscopy</i> , 1997, 51, 1176-1178.	1.2	7
148	Rapid Micro-Raman Imaging Using Fiber-Bundle Image Compression. <i>Applied Spectroscopy</i> , 1997, 51, 1845-1848.	1.2	82
149	Theoretical and Experimental Uncertainty in Temperature Measurement of Materials by Raman Spectroscopy. <i>Applied Spectroscopy</i> , 1996, 50, 1034-1038.	1.2	35
150	Description and Theory of a Fiber-Optic Confocal and Super-Focal Raman Microspectrometer. <i>Applied Spectroscopy</i> , 1996, 50, 1150-1155.	1.2	19
151	Raman spectroscopic studies of diamond in Intralipid. <i>Optics Letters</i> , 1995, 20, 1195.	1.7	10
152	Measurement of Fluid Film Thickness on Curved Surfaces by Raman Spectroscopy. <i>Applied Spectroscopy</i> , 1995, 49, 1275-1278.	1.2	7
153	Molecular reorientation dynamics and microscopic friction in liquids. <i>Chemical Physics</i> , 1994, 180, 119-129.	0.9	72
154	Translational and rotational dynamics in liquids. comparison of experiment, kinetic theory and hydrodynamics. <i>Chemical Physics</i> , 1994, 183, 385-392.	0.9	24
155	Molecular Fluorescence Thermometry. <i>Analytical Chemistry</i> , 1994, 66, 2788-2790.	3.2	39
156	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
157	Molecular-optical viscometer based on fluorescence depolarization. <i>Analytical Chemistry</i> , 1992, 64, 700-703.	3.2	17
158	Raman Studies of Molecular Potential Energy Surface Changes in Supercritical Fluids. <i>ACS Symposium Series</i> , 1992, , 18-30.	0.5	22
159	Oxygen and methylene adducts of C60 and C70. <i>Journal of the American Chemical Society</i> , 1991, 113, 5907-5908.	6.6	167
160	Gas-phase reactivity of fullerene anions. <i>Journal of the American Chemical Society</i> , 1991, 113, 5489-5490.	6.6	39
161	Occurrence and fragmentation of high-mass fullerenes. <i>Chemical Physics Letters</i> , 1991, 183, 149-152.	1.2	45
162	Aromatic hydrocarbon derivatives of fullerenes. <i>Rapid Communications in Mass Spectrometry</i> , 1991, 5, 472-474.	0.7	36

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163	Estimation of effective diameters for molecular fluids. The Journal of Physical Chemistry, 1990, 94, 1038-1047.	2.9	263