S Velasco

List of Publications by Year
in descending order

160 papers	1,949 citations	331670 21 h-index	345221 36 g-index
161 all docs	161 docs citations	161 times ranked	859 citing authors

#	Article	IF	Citations
1	Success versus failure: Efficient heat devices in thermodynamics. Physical Review E, 2022, 105, 014115.	2.1	1
2	Characterizing wet and dry fluids in temperature-entropy diagrams. Energy, 2018, 154, 269-276.	8.8	16
3	On reversible, endoreversible, and irreversible heat device cycles versus the Carnot cycle: a pedagogical approach to account for losses. European Journal of Physics, 2016, 37, 045103.	0.6	12
4	Consistency of Vapor Pressure Equations at the Critical Point. Industrial & Engineering Chemistry Research, 2015, 54, 12993-12998.	3.7	2
5	Extended corresponding states expressions for the changes in enthalpy, compressibility factor and constant-volume heat capacity at vaporization. Journal of Chemical Thermodynamics, 2015, 85, 68-76.	2.0	10
6	The maximum power efficiency $1-\sqrt{\tau}$: Research, education, and bibliometric relevance. European Physical Journal: Special Topics, 2015, 224, 809-823.	2.6	13
7	Numerical Study of the Most Stable Contact Angle of Drops on Tilted Surfaces. Langmuir, 2015, 31, 5326-5332.	3.5	17
8	Some empirical rules concerning the vapor pressure curve revisited. Journal of Chemical Thermodynamics, 2014, 68, 193-198.	2.0	5
9	Relation between the Isentropic Index and the Grüneisen Parameter for Saturated Liquids. Industrial & Engineering Chemistry Research, 2014, 53, 6866-6870.	3.7	1
10	The curvature of the liquid–vapor reduced pressure curve and its relation with the critical region. Journal of Chemical Thermodynamics, 2013, 60, 41-45.	2.0	2
11	The Miller function, a sensitivity test for equations of state and theoretical vapor pressure data. Journal of Chemical Thermodynamics, 2013, 58, 263-268.	2.0	2
12	On isentropic lines and isentropic exponents. Journal of Chemical Thermodynamics, 2013, 56, 144-148.	2.0	3
13	Simulation Analysis of Contact Angles and Retention Forces of Liquid Drops on Inclined Surfaces. Langmuir, 2012, 28, 11819-11826.	3.5	49
14	Waring and Riedel Functions for the Liquid–Vapor Coexistence Curve. Industrial & Engineering Chemistry Research, 2012, 51, 3197-3202.	3.7	8
15	Comment on â€œHistorical Observations on Laws of Thermodynamicsâ€. Journal of Chemical & Engineering Data, 2012, 57, 1347-1347.	1.9	0
16	A corresponding states treatment of the liquid–vapor saturation line. Journal of Chemical Thermodynamics, 2012, 44, 97-101.	2.0	10
17	On the Self-Consistency of Three-Parameter Corresponding-States Equations for Vapor Pressure. Journal of Chemical & Engineering Data, 2011, 56, 1163-1166.	1.9	7
18	Entropic selectivity of binary mixtures in cylindrical pores. Journal of Chemical Physics, 2011, 135, 154704.	3.0	4

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19	General correlation model for some physical properties of saturated pure fluids. Journal of Chemical Thermodynamics, 2010, 42, 938-946.	2.0	8
20	A simple experiment for measuring bar longitudinal and flexural vibration frequencies. American Journal of Physics, 2010, 78, 1429-1432.	0.7	12
21	On Srinivasan's Criterion for the Vapor Pressure Curve. Journal of Chemical & Engineering Data, 2010, 55, 4244-4247.	1.9	4
22	Optimization criteria, bounds, and efficiencies of heat engines. Physical Review E, 2010, 82, 051101.	2.1	73
23	On the Clausius–Clapeyron Vapor Pressure Equation. Journal of Chemical Education, 2009, 86, 106.	2.3	24
24	3He Vapor Pressure near Its Critical Point. Journal of Low Temperature Physics, 2008, 152, 177-185.	1.4	1
25	A predictive vapor-pressure equation. Journal of Chemical Thermodynamics, 2008, 40, 789-797.	2.0	14
26	Periodic boundary conditions and the correct molecular-dynamics ensemble. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 6705-6711.	2.6	6
27	Ensemble Effects in Small Systems. Lecture Notes in Physics, 2008, , 343-381.	0.7	5
28	Vapor pressure critical amplitudes from the normal boiling point. Applied Physics Letters, 2007, 90, 141905.	3.3	6
29	Thermodynamics of a pure substance at the triple point. American Journal of Physics, 2007, 75, 1086-1091.	0.7	4
30	Density functional theory of fluids in nanopores: Analysis of the fundamental measures theory in extreme dimensional-crossover situations. Journal of Chemical Physics, 2006, 125, 064703.	3.0	27
31	Prediction of the enthalpy of vaporization of metals and metalloids. Fluid Phase Equilibria, 2006, 244, 11-15.	2.5	33
32	Finite-size effects in the microscopic structure of a hard-sphere fluid in a narrow cylindrical pore. Journal of Chemical Physics, 2006, 124, 154708.	3.0	8
33	Dynamical characterization of rotationally hindered species in liquids. Journal of Chemical Physics, 2005, 123, 234509.	3.0	6
34	On the universal behavior of some thermodynamic properties along the whole liquid-vapor coexistence curve. Journal of Chemical Physics, 2005, 123, 124512.	3.0	33
35	Entropy maximization in the free expansion process. European Journal of Physics, 2005, 26, N13-N16.	0.6	0
36	Density functional theory of fluids in the isothermal-isobaric ensemble. Journal of Chemical Physics, 2004, 120, 10634-10639.	3.0	8

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37	A computer-assisted experiment for the measurement of the temperature dependence of the speed of sound in air. American Journal of Physics, 2004, 72, 276-279.	0.7	19
38	The Impact of Thymic Antigen Diversity on the Size of the Selected T Cell Repertoire. Journal of Immunology, 2004, 172, 2247-2255.	0.8	15
39	Velocity distributions for a hard-disk fluid in a small circular cavity: effect of the conservation of the total angular momentum. Physica A: Statistical Mechanics and Its Applications, 2004, 334, 312-326.	2.6	4
40	Infrared spectral profiles in liquids and atom-diatom interactions. Journal of Chemical Physics, 2004, 121, 6353-6360.	3.0	12
41	Vibration-rotation spectra of hydrogen halides in rare-gas liquids: Q-branch absorption. Pure and Applied Chemistry, 2004, 76, 241-246.	1.9	2
42	Multipole â€" Induced Dipole Contributions to the Far-Infrared Spectra of Diatomic Molecules in Non-Polar Solvents. , 2004, , 361-385.		0
43	InfraredQ-branch absorption and rotationally-hindered species in liquids. Journal of Chemical Physics, 2003, 119, 5176-5184.	3.0	10
44	Density profiles of a hard disk mixture inside a small circular cavity: Effect of the conservation of the total angular momentum. Journal of Chemical Physics, 2003, 118, 7930-7936.	3.0	9
45	Vibration-rotation spectra of HCl in rare-gas liquid mixtures: Molecular dynamics simulations of Q-branch absorption. Journal of Chemical Physics, 2002, 116, 5058.	3.0	21
46	A simple example illustrating the application of thermodynamic extremum principles. European Journal of Physics, 2002, 23, 501-511.	0.6	3
47	The â€œadiabaticâ€•piston at equilibrium: Spectral analysis and time-correlation function. Europhysics Letters, 2002, 59, 479-485.	2.0	14
48	A simple method for measuring atmospheric pressure. American Journal of Physics, 2002, 70, 1236-1237.	0.7	2
49	Heat capacity of an ideal gas along an elliptical PV cycle. American Journal of Physics, 2002, 70, 1044-1048.	0.7	11
50	The speed of sound in a hard disk gas: A computer simulation. American Journal of Physics, 2002, 70, 847-851.	0.7	1
51	Unified working regime of irreversible Carnot-like heat engines with nonlinear heat transfer laws. Energy Conversion and Management, 2002, 43, 2341-2348.	9.2	16
52	The Ornstein-Zernike equation in the canonical ensemble. Europhysics Letters, 2001, 54, 475-481.	2.0	13
53	A simple experiment for measuring the surface tension of soap solutions. American Journal of Physics, 2001, 69, 920-921.	0.7	19
54	Application of thermodynamic extremum principles. American Journal of Physics, 2001, 69, 1160-1165.	0.7	11

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55	Feynman's ratchet optimization: maximum power and maximum efficiency regimes. Journal Physics D: Applied Physics, 2001, 34, 1000-1006.	2.8	79
56	Unified optimization criterion for energy converters. Physical Review E, 2001, 63, 037102.	2.1	104
57	An experiment for measuring the low temperature vapor line of water. American Journal of Physics, 2000, 68, 1154-1157.	0.7	1
58	Equivalence of two approaches for the inhomogeneous density in the canonical ensemble. Physical Review E, 2000, 62, 4427-4430.	2.1	15
59	Optimization of heat engines including the saving of natural resources and the reduction of thermal pollution. Journal Physics D: Applied Physics, 2000, 33, 355-359.	2.8	51
60	Density-Functional Theory of Inhomogeneous Fluids in the Canonical Ensemble. Physical Review Letters, 2000, 84, 1220-1223.	7.8	56
61	Estimation of the quadrupole and hexadecapole moments of N2 from the far-infrared spectrum of a N2–Xe gaseous mixture. Journal of Chemical Physics, 1999, 110, 5218-5223.	3.0	14
62	Fluctuations in a small hard-disk system: Implicit finite size effects. Journal of Chemical Physics, 1999, 110, 9821-9824.	3.0	16
63	Microcanonical density of states of a hard-particle fluid under gravity. Physica A: Statistical Mechanics and Its Applications, 1999, 267, 375-391.	2.6	0
64	Microcanonical ensemble study of a classical fluid of hard rods under gravity. European Physical Journal B, 1999, 7, 421-427.	1.5	3
65	Fluctuations in the number of particles of the ideal gas: A simple example of explicit finite-size effects. American Journal of Physics, 1999, 67, 1149-1151.	0.7	12
66	Thermodynamic processes with negative and positive compressibilities. American Journal of Physics, 1998, 66, 928-929.	0.7	5
67	Electric multipolar induction in the far-infrared spectra of CO in liquid Ar: Translational/rotational contributions and static cancellation effects. Journal of Chemical Physics, 1998, 108, 9480-9486.	3.0	2
68	Block analysis method in off-lattice fluids. Europhysics Letters, 1998, 42, 371-376.	2.0	14
69	Irreversible Carnot cycle under per-unit-time efficiency optimization. Applied Physics Letters, 1998, 73, 853-855.	3.3	11
70	Velasco, Roco, Medina, and Calvo Hernández Reply:. Physical Review Letters, 1998, 81, 5470-5470.	7.8	1
71	A simple experiment for measuring the adiabatic coefficient of air. American Journal of Physics, 1998, 66, 642-643.	0.7	4
72	Fluctuations in the random sequential adsorption of disks and parallel squares: Finite size effects at low coverages. Journal of Chemical Physics, 1997, 106, 4196-4203.	3.0	11

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73	Many-body components in the integrated far-infrared absorption coefficient of diatomic molecules in spherical solvents. Journal of Chemical Physics, 1997, 107, 4844-4851.	3.0	5
74	New Performance Bounds for a Finite-Time Carnot Refrigerator. Physical Review Letters, 1997, 78, 3241-3244.	7.8	70
75	Irreversible refrigerators under per-unit-time coefficient of performance optimization. Applied Physics Letters, 1997, 71, 1130-1132.	3.3	28
76	Fluctuations in an equilibrium hard-disk fluid: Explicit size effects. Journal of Chemical Physics, 1997, 107, 4635-4641.	3.0	39
77	Optimum performance of a regenerative Brayton thermal cycle. Journal of Applied Physics, 1997, 82, 2735-2741.	2.5	86
78	Density Functional Theory for Small Systems: Hard Spheres in a Closed Spherical Cavity. Physical Review Letters, 1997, 79, 2466-2469.	7.8	88
79	Probability distribution function for the random sequential adsorption of aligned and unaligned hard-squares. Lecture Notes in Physics, 1997, , 297-297.	0.7	0
80	Monte Carlo analysis of the fluctuations in the random sequential adsorption of aligned and unaligned hard-squares. Physica A: Statistical Mechanics and Its Applications, 1997, 243, 262-274.	2.6	0
81	Microcanonical ensemble study of a gas column under gravity. Zeitschrift Für Physik B-Condensed Matter, 1997, 104, 353-361.	1.1	8
82	An approximation for prey-predator models with time delay. Physica D: Nonlinear Phenomena, 1997, 110, 313-322.	2.8	25
83	Further Studies on the Problem of Immune Network Modelling. Journal of Theoretical Biology, 1997, 184, 405-421.	1.7	6
84	Spontaneous magnetization probability distribution of a mean-field finite Ising model exhibiting a tricritical point. Physica A: Statistical Mechanics and Its Applications, 1996, 227, 141-157.	2.6	0
85	Spectroscopic Studies of Diatomics in Dense Non-polar Fluids: an Overview. Journal of Molecular Liquids, 1996, 70, 107-123.	4.9	26
86	Permanent and interaction-induced far-infrared spectra of CO in dense Ar: a molecular dynamics approach. Journal of Molecular Liquids, 1996, 70, 169-183.	4.9	3
87	Probability distribution function for the random sequential adsorption of hard-disks. Physica A: Statistical Mechanics and Its Applications, 1996, 233, 283-292.	2.6	4
88	On the calculation of the single-particle momentum and energy distributions for a hard-core fluid in the microcanonical molecular dynamics ensemble. Physica A: Statistical Mechanics and Its Applications, 1996, 234, 53-75.	2.6	5
89	Probability distribution of hard-disk and hard-sphere gases over finite subvolumes. Physical Review E, 1996, 53, 2360-2365.	2.1	3
90	Theoretical analysis of the far-infrared spectra of HCl in liquid Ar along the Ar liquid-vapour coexistence line. Journal of Molecular Liquids, 1995, 63, 251-264.	4.9	4

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91	Thermal Coefficients and Heat Capacities in Systems with Chemical Reaction: The Le Châtelier-Braun Principle. Journal of Chemical Education, 1995, 72, 199.	2.3	4
92	Far‐infrared permanent and induced dipole absorption of diatomic molecules in rare‐gas fluids. II. Application to the CO–Ar system. Journal of Chemical Physics, 1995, 103, 9175-9186.	3.0	19
93	Single-particle distributions for small hard particle systems in the microcanonical and in the molecular-dynamics ensembles. Physical Review E, 1995, 51, 6271-6274.	2.1	11
94	Far‐infrared permanent and induced dipole absorption of diatomic molecules in rare‐gas fluids. I. Spectral theory. Journal of Chemical Physics, 1995, 103, 9161-9174.	3.0	17
95	Microcanonical single-particle distributions for an ideal gas in a gravitational field. European Journal of Physics, 1995, 16, 83-90.	0.6	10
96	Far‐infrared spectra of HCl in dense Ar and time‐dependent anisotropic potential autocorrelation functions. A molecular dynamics study. Journal of Chemical Physics, 1994, 100, 252-261.	3.0	10
97	Numerical Analysis of a Model of Ligand-induced B-Cell Antigen-Receptor Clustering. Implications for Simple Models of B-Cell Activation in an Immune Network. Journal of Theoretical Biology, 1994, 167, 45-53.	1.7	7
98	The wind-round-tree model and the two-dimensional Lorentz gas. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 190, 434-438.	2.1	1
99	Studies on a Recent Class of Network Models of the Immune System. Journal of Theoretical Biology, 1993, 164, 271-290.	1.7	9
100	Memory and nonadditivity effects on the far-infrared spectra of DCl, HCl and HF in liquid SF6. Chemical Physics Letters, 1993, 202, 364-370.	2.6	1
101	Theoretical far-infrared spectra of CO in Ar gas. Chemical Physics Letters, 1993, 216, 593-598.	2.6	5
102	Study of the contribution from the J = 1 and J = 2 parts of the anisotropic potential to the far-infrared spectra of HCl in Ar, Kr and Xe liquids.. Journal of Molecular Structure, 1993, 294, 99-102.	3.6	3
103	Far-infrared spectra of HCl in dense Ar: analysis of two time correction functions for the interaction. Journal of Molecular Structure, 1993, 294, 95-98.	3.6	2
104	Single-particle energy and velocity distributions for finite simple systems in the microcanonical ensemble. European Journal of Physics, 1993, 14, 166-170.	0.6	9
105	Crosslinking of membrane immunoglobulins and B-cell activation: a simple model based on percolation theory. Proceedings of the Royal Society B: Biological Sciences, 1993, 254, 139-145.	2.6	4
106	Parametric solution of the phase diagram of a mean‐field Ising model exhibiting a tricritical point. American Journal of Physics, 1993, 61, 554-559.	0.7	2
107	Time-dependent transition rates for a multilevel quantum system interacting with a bath lacking a characteristic relaxation time. Physical Review A, 1992, 46, 8015-8017.	2.5	1
108	Line-by-line far-infrared spectra of HCl in dense Ar: Asymmetric profiles. Physical Review A, 1992, 45, 5289-5292.	2.5	7

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109	Quantum fractal noise: Time-autocorrelation functions. Physical Review A, 1992, 46, 1880-1885.	2.5	4
110	Far‑infrared spectra of diatomic polar molecules in simple liquids: Accounting for the anisotropic interaction. Journal of Chemical Physics, 1992, 97, 5323-5334.	3.0	10
111	Quantum time correlation functions for solute-solvent intermolecular potentials : Influence on the far-infrared spectrum. Journal of Molecular Liquids, 1992, 54, 57-62.	4.9	1
112	Analysis of memory and nonadditivity effects on the far infrared spectra of HCl in rare gas liquids. Journal of Molecular Liquids, 1992, 54, 67-72.	4.9	3
113	A probabilistic approach to the site-percolation problem. Physica A: Statistical Mechanics and Its Applications, 1991, 171, 486-503.	2.6	5
114	A probabilistic approach to the site-percolation problem. Physica A: Statistical Mechanics and Its Applications, 1991, 171, 504-516.	2.6	2
115	Quantitative study of memory and nonadditivity effects of the far-infrared spectrum of HCl in dense Ar. Physical Review A, 1991, 44, 3023-3031.	2.5	17
116	The probability distribution for a lattice gas: A simple characterization of the liquid–vapor phase transition. American Journal of Physics, 1991, 59, 335-340.	0.7	2
117	Teaching spontaneous magnetization by using a probability distribution. European Journal of Physics, 1991, 12, 170-174.	0.6	3
118	Comparison of observed and calculated vibration–rotation (0–1) band shapes of HCl in liquid Xe. Chemical Physics Letters, 1990, 171, 87-90.	2.6	2
119	Memory effects on the rotational relaxation of diatomic polar molecules in non-polar liquids. Chemical Physics, 1990, 142, 361-367.	1.9	3
120	Infrared spectra of HCl, HBr and HI dissolved in liquid xenon. Journal of Molecular Liquids, 1990, 45, 71-76.	4.9	6
121	Time dependent rotational relaxation transition rates (T1 processses) for diatomic polar molecules in rare-gas liquids. Journal of Molecular Liquids, 1990, 45, 83-88.	4.9	0
122	Derivation of a quantum time autocorrelation function from a classical white-noise process. Physics Letters, Section A: General, Atomic and Solid State Physics, 1990, 146, 310-312.	2.1	3
123	Onset of non-Markovian behaviour in a harmonic oscillator stochastically coupled to a thermal bath. Journal of the European Optical Society Part B: Quantum Optics, 1990, 2, 323-332.	1.2	1
124	Memory kernel for a multilevel quantum system driven by colored thermal noise. Journal of Chemical Physics, 1990, 93, 8939-8944.	3.0	4
125	Time-dependent transition rates for a multilevel quantum system stochastically coupled to a thermal bath. Physical Review A, 1989, 39, 3653-3659.	2.5	10
126	A generalization of the Ehrenfest urn model. American Journal of Physics, 1989, 57, 828-834.	0.7	4

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127	Infrared spectra of diatomic polar molecules in rare‑gas liquids. I. Spectral theory. Journal of Chemical Physics, 1989, 91, 3435-3442.	3.0	23
128	Non-Markovian effects on an anharmonic oscillator stochastically coupled to a thermal bath. Physical Review A, 1989, 40, 3156-3163.	2.5	3
129	Infrared spectra of diatomic polar molecules in rare‑gas liquids. II. Application to the HCl in Ar, Kr, and Xe solutions. Journal of Chemical Physics, 1989, 91, 3443-3449.	3.0	19
130	A simple study of the diffusion problem using equilibrium probability distributions. European Journal of Physics, 1989, 10, 272-275.	0.6	1
131	Critical points characterization using probability distributions. Physica A: Statistical Mechanics and Its Applications, 1989, 154, 511-520.	2.6	3
132	Dissipative effects on a damped morse oscillator. Chemical Physics Letters, 1989, 164, 77-81.	2.6	5
133	Theoretical infrared spectra of HCl in liquid SF6: A temperature dependence study. Chemical Physics Letters, 1989, 164, 400-404.	2.6	5
134	Theoretical far-infrared spectrum of HCl in liquid Ar: A density dependence study. Chemical Physics Letters, 1989, 160, 60-66.	2.6	4
135	Critical points characterization using probability distributions. Physica A: Statistical Mechanics and Its Applications, 1989, 156, 823-834.	2.6	1
136	Equations of state, collisional energy transfer, and chemical equilibrium in gases. Journal of Chemical Education, 1989, 66, 139.	2.3	1
137	Probability distribution for a lattice gas model. Physica A: Statistical Mechanics and Its Applications, 1988, 152, 243-253.	2.6	13
138	Rotational relaxation and dephasing of diatomic polar molecules in rare-gas liquids. Journal of Molecular Liquids, 1988, 39, 93-98.	4.9	6
139	Comparison between two models (stochastic and dynamics) calculations for the far-infrared spectra of a HClî—¸Ar solution. Journal of Molecular Liquids, 1988, 39, 99-104.	4.9	2
140	Critical points characterization using probability distributions. Physica A: Statistical Mechanics and Its Applications, 1988, 153, 299-314.	2.6	3
141	Probability distribution for a lattice gas model. Physica A: Statistical Mechanics and Its Applications, 1988, 152, 226-242.	2.6	26
142	A probabilistic analysis of the Walker-Vause model for liquid binary mixtures. Physica A: Statistical Mechanics and Its Applications, 1988, 152, 384-399.	2.6	5
143	Non-markovian far-infrared spectra of HF in liquid SF6. Molecular Physics, 1988, 65, 1001-1006.	1.7	7
144	On the quantum time autocorrelation functions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 130, 237-239.	2.1	14

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145	A quasiharmonic model calculation for non-markovian far-infrared spectra of HCl in Kr and Xe liquids. Molecular Physics, 1988, 64, 505-511.	1.7	5
146	Numerical study of T_1 and T_2 rotational relaxation times of HCl in liquid Ar. Molecular Physics, 1988, 65, 413-421.	1.7	8
147	A quasiharmonic model calculation for two non-Markovian far-infrared spectra of diatomic polar molecules in a rare-gas liquid. II. Correlation functions of the interaction and spectral application to a HCl–Ar solution. Journal of Chemical Physics, 1987, 86, 4607-4616.	3.0	15
148	A quasiharmonic model calculation for two non-Markovian far-infrared spectra of diatomic polar molecules in a rare-gas liquid. I. Spectral theory. Journal of Chemical Physics, 1987, 86, 4597-4606.	3.0	12
149	On the molecular distribution of a hard-sphere gas. American Journal of Physics, 1987, 55, 154-157.	0.7	18
150	Theoretical study of two non-Markovian far-infrared spectra of HCl in liquids CCl4 and SF6 using a stochastic model. Journal of Molecular Structure, 1986, 141, 479-482.	3.6	2
151	Stochastic effects on the isothermal explosion arising in the oxidation of iron (II) by nitric acid. Journal of Statistical Physics, 1986, 43, 521-536.	1.2	7
152	Non-Markovian far-infrared spectra of HCl and DCl in liquid SF6. Physical Review A, 1986, 33, 750-753.	2.5	11
153	Non-Markovian far-infrared spectra of a diatomic molecule in rare-gas liquids. Physical Review A, 1985, 31, 3419-3430.	2.5	25
154	Relaxation of quantum systems weakly coupled to a bath. I. Total-time-ordering-cumulant and partial-time-ordering-cumulant non-Markovian theories. Physical Review A, 1984, 30, 542-552.	2.5	35
155	Relaxation of quantum systems weakly coupled to a bath. II. Formal analysis of the total-time-ordering-cumulant and partial-time-ordering-cumulant spectral line shapes. Physical Review A, 1984, 30, 553-559.	2.5	20
156	Use of the memory function in a collinear atom/harmonic chain model. Journal of Chemical Physics, 1984, 81, 2064-2069.	3.0	2
157	A two-dimensional model for the infrared and microwave spectrum of diatomic molecules trapped in monatomic crystals. Journal of Chemical Physics, 1982, 76, 1624-1633.	3.0	11
158	Absorption line shape of two coupled oscillators decaying in the same bath. International Journal of Quantum Chemistry, 1978, 14, 65-69.	2.0	0
159	The interference in the decay of two $\frac{1}{2}$ spins in a molecular medium, studied by the Nakajima-Zwanzig technique. International Journal of Quantum Chemistry, 1977, 11, 301-315.	2.0	12
160	Absorption line shape of two coupled oscillators decaying in two different mediums. International Journal of Quantum Chemistry, 1977, 11, 979-989.	2.0	1