

S Velasco

List of Publications by Year in descending order

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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 | Unified optimization criterion for energy converters. <i>Physical Review E</i> , 2001, 63, 037102. | 2.1 | 104 |
| 2 | Density Functional Theory for Small Systems: Hard Spheres in a Closed Spherical Cavity. <i>Physical Review Letters</i> , 1997, 79, 2466-2469. | 7.8 | 88 |
| 3 | Optimum performance of a regenerative Brayton thermal cycle. <i>Journal of Applied Physics</i> , 1997, 82, 2735-2741. | 2.5 | 86 |
| 4 | Feynman's ratchet optimization: maximum power and maximum efficiency regimes. <i>Journal Physics D: Applied Physics</i> , 2001, 34, 1000-1006. | 2.8 | 79 |
| 5 | Optimization criteria, bounds, and efficiencies of heat engines. <i>Physical Review E</i> , 2010, 82, 051101. | 2.1 | 73 |
| 6 | New Performance Bounds for a Finite-Time Carnot Refrigerator. <i>Physical Review Letters</i> , 1997, 78, 3241-3244. | 7.8 | 70 |
| 7 | Density-Functional Theory of Inhomogeneous Fluids in the Canonical Ensemble. <i>Physical Review Letters</i> , 2000, 84, 1220-1223. | 7.8 | 56 |
| 8 | Optimization of heat engines including the saving of natural resources and the reduction of thermal pollution. <i>Journal Physics D: Applied Physics</i> , 2000, 33, 355-359. | 2.8 | 51 |
| 9 | Simulation Analysis of Contact Angles and Retention Forces of Liquid Drops on Inclined Surfaces. <i>Langmuir</i> , 2012, 28, 11819-11826. | 3.5 | 49 |
| 10 | Fluctuations in an equilibrium hard-disk fluid: Explicit size effects. <i>Journal of Chemical Physics</i> , 1997, 107, 4635-4641. | 3.0 | 39 |
| 11 | Relaxation of quantum systems weakly coupled to a bath. I. Total-time-ordering-cumulant and partial-time-ordering-cumulant non-Markovian theories. <i>Physical Review A</i> , 1984, 30, 542-552. | 2.5 | 35 |
| 12 | On the universal behavior of some thermodynamic properties along the whole liquid-vapor coexistence curve. <i>Journal of Chemical Physics</i> , 2005, 123, 124512. | 3.0 | 33 |
| 13 | Prediction of the enthalpy of vaporization of metals and metalloids. <i>Fluid Phase Equilibria</i> , 2006, 244, 11-15. | 2.5 | 33 |
| 14 | Irreversible refrigerators under per-unit-time coefficient of performance optimization. <i>Applied Physics Letters</i> , 1997, 71, 1130-1132. | 3.3 | 28 |
| 15 | Density functional theory of fluids in nanopores: Analysis of the fundamental measures theory in extreme dimensional-crossover situations. <i>Journal of Chemical Physics</i> , 2006, 125, 064703. | 3.0 | 27 |
| 16 | Probability distribution for a lattice gas model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1988, 152, 226-242. | 2.6 | 26 |
| 17 | Spectroscopic Studies of Diatomics in Dense Non-polar Fluids: an Overview. <i>Journal of Molecular Liquids</i> , 1996, 70, 107-123. | 4.9 | 26 |
| 18 | Non-Markovian far-infrared spectra of a diatomic molecule in rare-gas liquids. <i>Physical Review A</i> , 1985, 31, 3419-3430. | 2.5 | 25 |

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|----|--|-----|-----------|
| 19 | An approximation for prey-predator models with time delay. <i>Physica D: Nonlinear Phenomena</i> , 1997, 110, 313-322. | 2.8 | 25 |
| 20 | On the Clausius-Clapeyron Vapor Pressure Equation. <i>Journal of Chemical Education</i> , 2009, 86, 106. | 2.3 | 24 |
| 21 | Infrared spectra of diatomic polar molecules in rare-gas liquids. I. Spectral theory. <i>Journal of Chemical Physics</i> , 1989, 91, 3435-3442. | 3.0 | 23 |
| 22 | Vibration-rotation spectra of HCl in rare-gas liquid mixtures: Molecular dynamics simulations of Q-branch absorption. <i>Journal of Chemical Physics</i> , 2002, 116, 5058. | 3.0 | 21 |
| 23 | 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. <i>Physical Review A</i> , 1984, 30, 553-559. | 2.5 | 20 |
| 24 | Infrared spectra of diatomic polar molecules in rare-gas liquids. II. Application to the HCl in Ar, Kr, and Xe solutions. <i>Journal of Chemical Physics</i> , 1989, 91, 3443-3449. | 3.0 | 19 |
| 25 | Far-infrared permanent and induced dipole absorption of diatomic molecules in rare-gas fluids. II. Application to the CO-Ar system. <i>Journal of Chemical Physics</i> , 1995, 103, 9175-9186. | 3.0 | 19 |
| 26 | A simple experiment for measuring the surface tension of soap solutions. <i>American Journal of Physics</i> , 2001, 69, 920-921. | 0.7 | 19 |
| 27 | A computer-assisted experiment for the measurement of the temperature dependence of the speed of sound in air. <i>American Journal of Physics</i> , 2004, 72, 276-279. | 0.7 | 19 |
| 28 | On the molecular distribution of a hard-sphere gas. <i>American Journal of Physics</i> , 1987, 55, 154-157. | 0.7 | 18 |
| 29 | Quantitative study of memory and nonadditivity effects of the far-infrared spectrum of HCl in dense Ar. <i>Physical Review A</i> , 1991, 44, 3023-3031. | 2.5 | 17 |
| 30 | Far-infrared permanent and induced dipole absorption of diatomic molecules in rare-gas fluids. I. Spectral theory. <i>Journal of Chemical Physics</i> , 1995, 103, 9161-9174. | 3.0 | 17 |
| 31 | Numerical Study of the Most Stable Contact Angle of Drops on Tilted Surfaces. <i>Langmuir</i> , 2015, 31, 5326-5332. | 3.5 | 17 |
| 32 | Fluctuations in a small hard-disk system: Implicit finite size effects. <i>Journal of Chemical Physics</i> , 1999, 110, 9821-9824. | 3.0 | 16 |
| 33 | Unified working regime of irreversible Carnot-like heat engines with nonlinear heat transfer laws. <i>Energy Conversion and Management</i> , 2002, 43, 2341-2348. | 9.2 | 16 |
| 34 | Characterizing wet and dry fluids in temperature-entropy diagrams. <i>Energy</i> , 2018, 154, 269-276. | 8.8 | 16 |
| 35 | 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. <i>Journal of Chemical Physics</i> , 1987, 86, 4607-4616. | 3.0 | 15 |
| 36 | Equivalence of two approaches for the inhomogeneous density in the canonical ensemble. <i>Physical Review E</i> , 2000, 62, 4427-4430. | 2.1 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | The Impact of Thymic Antigen Diversity on the Size of the Selected T Cell Repertoire. <i>Journal of Immunology</i> , 2004, 172, 2247-2255. | 0.8 | 15 |
| 38 | On the quantum time autocorrelation functions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1988, 130, 237-239. | 2.1 | 14 |
| 39 | Block analysis method in off-lattice fluids. <i>Europhysics Letters</i> , 1998, 42, 371-376. | 2.0 | 14 |
| 40 | Estimation of the quadrupole and hexadecapole moments of N ₂ from the far-infrared spectrum of a N ₂ -Xe gaseous mixture. <i>Journal of Chemical Physics</i> , 1999, 110, 5218-5223. | 3.0 | 14 |
| 41 | The ϵ -adiabatic piston at equilibrium: Spectral analysis and time-correlation function. <i>Europhysics Letters</i> , 2002, 59, 479-485. | 2.0 | 14 |
| 42 | A predictive vapor-pressure equation. <i>Journal of Chemical Thermodynamics</i> , 2008, 40, 789-797. | 2.0 | 14 |
| 43 | Probability distribution for a lattice gas model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1988, 152, 243-253. | 2.6 | 13 |
| 44 | The Ornstein-Zernike equation in the canonical ensemble. <i>Europhysics Letters</i> , 2001, 54, 475-481. | 2.0 | 13 |
| 45 | The maximum power efficiency $1-\hat{\alpha}$: Research, education, and bibliometric relevance. <i>European Physical Journal: Special Topics</i> , 2015, 224, 809-823. | 2.6 | 13 |
| 46 | The interference in the decay of two $\hat{A}^{1/2}$ spins in a molecular medium, studied by the Nakajima-Zwanzig technique. <i>International Journal of Quantum Chemistry</i> , 1977, 11, 301-315. | 2.0 | 12 |
| 47 | A quasiharmonic model calculation for two non-Markovian far-infrared spectra of diatomic polar molecules in a rare-gas liquid. I. Spectral theory. <i>Journal of Chemical Physics</i> , 1987, 86, 4597-4606. | 3.0 | 12 |
| 48 | Fluctuations in the number of particles of the ideal gas: A simple example of explicit finite-size effects. <i>American Journal of Physics</i> , 1999, 67, 1149-1151. | 0.7 | 12 |
| 49 | Infrared spectral profiles in liquids and atom-diatom interactions. <i>Journal of Chemical Physics</i> , 2004, 121, 6353-6360. | 3.0 | 12 |
| 50 | A simple experiment for measuring bar longitudinal and flexural vibration frequencies. <i>American Journal of Physics</i> , 2010, 78, 1429-1432. | 0.7 | 12 |
| 51 | On reversible, endoreversible, and irreversible heat device cycles versus the Carnot cycle: a pedagogical approach to account for losses. <i>European Journal of Physics</i> , 2016, 37, 045103. | 0.6 | 12 |
| 52 | A two-dimensional model for the infrared and microwave spectrum of diatomic molecules trapped in monatomic crystals. <i>Journal of Chemical Physics</i> , 1982, 76, 1624-1633. | 3.0 | 11 |
| 53 | Non-Markovian far-infrared spectra of HCl and DCl in liquid SF ₆ . <i>Physical Review A</i> , 1986, 33, 750-753. | 2.5 | 11 |
| 54 | Single-particle distributions for small hard particle systems in the microcanonical and in the molecular-dynamics ensembles. <i>Physical Review E</i> , 1995, 51, 6271-6274. | 2.1 | 11 |

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|----|---|-----|-----------|
| 55 | Fluctuations in the random sequential adsorption of disks and parallel squares: Finite size effects at low coverages. <i>Journal of Chemical Physics</i> , 1997, 106, 4196-4203. | 3.0 | 11 |
| 56 | Irreversible Carnot cycle under per-unit-time efficiency optimization. <i>Applied Physics Letters</i> , 1998, 73, 853-855. | 3.3 | 11 |
| 57 | Application of thermodynamic extremum principles. <i>American Journal of Physics</i> , 2001, 69, 1160-1165. | 0.7 | 11 |
| 58 | Heat capacity of an ideal gas along an elliptical PV cycle. <i>American Journal of Physics</i> , 2002, 70, 1044-1048. | 0.7 | 11 |
| 59 | Time-dependent transition rates for a multilevel quantum system stochastically coupled to a thermal bath. <i>Physical Review A</i> , 1989, 39, 3653-3659. | 2.5 | 10 |
| 60 | Far-infrared spectra of diatomic polar molecules in simple liquids: Accounting for the anisotropic interaction. <i>Journal of Chemical Physics</i> , 1992, 97, 5323-5334. | 3.0 | 10 |
| 61 | Far-infrared spectra of HCl in dense Ar and time-dependent anisotropic potential autocorrelation functions. A molecular dynamics study. <i>Journal of Chemical Physics</i> , 1994, 100, 252-261. | 3.0 | 10 |
| 62 | Microcanonical single-particle distributions for an ideal gas in a gravitational field. <i>European Journal of Physics</i> , 1995, 16, 83-90. | 0.6 | 10 |
| 63 | Infrared Q-branch absorption and rotationally-hindered species in liquids. <i>Journal of Chemical Physics</i> , 2003, 119, 5176-5184. | 3.0 | 10 |
| 64 | A corresponding states treatment of the liquid-vapor saturation line. <i>Journal of Chemical Thermodynamics</i> , 2012, 44, 97-101. | 2.0 | 10 |
| 65 | Extended corresponding states expressions for the changes in enthalpy, compressibility factor and constant-volume heat capacity at vaporization. <i>Journal of Chemical Thermodynamics</i> , 2015, 85, 68-76. | 2.0 | 10 |
| 66 | Studies on a Recent Class of Network Models of the Immune System. <i>Journal of Theoretical Biology</i> , 1993, 164, 271-290. | 1.7 | 9 |
| 67 | Single-particle energy and velocity distributions for finite simple systems in the microcanonical ensemble. <i>European Journal of Physics</i> , 1993, 14, 166-170. | 0.6 | 9 |
| 68 | Density profiles of a hard disk mixture inside a small circular cavity: Effect of the conservation of the total angular momentum. <i>Journal of Chemical Physics</i> , 2003, 118, 7930-7936. | 3.0 | 9 |
| 69 | Numerical study of T1 and T2 rotational relaxation times of HCl in liquid Ar. <i>Molecular Physics</i> , 1988, 65, 413-421. | 1.7 | 8 |
| 70 | Microcanonical ensemble study of a gas column under gravity. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1997, 104, 353-361. | 1.1 | 8 |
| 71 | Density functional theory of fluids in the isothermal-isobaric ensemble. <i>Journal of Chemical Physics</i> , 2004, 120, 10634-10639. | 3.0 | 8 |
| 72 | Finite-size effects in the microscopic structure of a hard-sphere fluid in a narrow cylindrical pore. <i>Journal of Chemical Physics</i> , 2006, 124, 154708. | 3.0 | 8 |

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|----|---|-----|-----------|
| 73 | General correlation model for some physical properties of saturated pure fluids. <i>Journal of Chemical Thermodynamics</i> , 2010, 42, 938-946. | 2.0 | 8 |
| 74 | Waring and Riedel Functions for the Liquid-Vapor Coexistence Curve. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 3197-3202. | 3.7 | 8 |
| 75 | Stochastic effects on the isothermal explosion arising in the oxidation of iron (II) by nitric acid. <i>Journal of Statistical Physics</i> , 1986, 43, 521-536. | 1.2 | 7 |
| 76 | Non-markovian far-infrared spectra of HF in liquid SF ₆ . <i>Molecular Physics</i> , 1988, 65, 1001-1006. | 1.7 | 7 |
| 77 | Line-by-line far-infrared spectra of HCl in dense Ar: Asymmetric profiles. <i>Physical Review A</i> , 1992, 45, 5289-5292. | 2.5 | 7 |
| 78 | 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. <i>Journal of Theoretical Biology</i> , 1994, 167, 45-53. | 1.7 | 7 |
| 79 | On the Self-Consistency of Three-Parameter Corresponding-States Equations for Vapor Pressure. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 1163-1166. | 1.9 | 7 |
| 80 | Rotational relaxation and dephasing of diatomic polar molecules in rare-gas liquids. <i>Journal of Molecular Liquids</i> , 1988, 39, 93-98. | 4.9 | 6 |
| 81 | Infrared spectra of HCl, HBr and HI dissolved in liquid xenon. <i>Journal of Molecular Liquids</i> , 1990, 45, 71-76. | 4.9 | 6 |
| 82 | Further Studies on the Problem of Immune Network Modelling. <i>Journal of Theoretical Biology</i> , 1997, 184, 405-421. | 1.7 | 6 |
| 83 | Dynamical characterization of rotationally hindered species in liquids. <i>Journal of Chemical Physics</i> , 2005, 123, 234509. | 3.0 | 6 |
| 84 | Vapor pressure critical amplitudes from the normal boiling point. <i>Applied Physics Letters</i> , 2007, 90, 141905. | 3.3 | 6 |
| 85 | Periodic boundary conditions and the correct molecular-dynamics ensemble. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 6705-6711. | 2.6 | 6 |
| 86 | A probabilistic analysis of the Walker-Vause model for liquid binary mixtures. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1988, 152, 384-399. | 2.6 | 5 |
| 87 | A quasiharmonic model calculation for non-markovian far-infrared spectra of HCl in Kr and Xe liquids. <i>Molecular Physics</i> , 1988, 64, 505-511. | 1.7 | 5 |
| 88 | Dissipative effects on a damped morse oscillator. <i>Chemical Physics Letters</i> , 1989, 164, 77-81. | 2.6 | 5 |
| 89 | Theoretical infrared spectra of HCl in liquid SF ₆ : A temperature dependence study. <i>Chemical Physics Letters</i> , 1989, 164, 400-404. | 2.6 | 5 |
| 90 | A probabilistic approach to the site-percolation problem. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1991, 171, 486-503. | 2.6 | 5 |

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|-----|---|-----|-----------|
| 91 | Theoretical far-infrared spectra of CO in Ar gas. <i>Chemical Physics Letters</i> , 1993, 216, 593-598. | 2.6 | 5 |
| 92 | On the calculation of the single-particle momentum and energy distributions for a hard-core fluid in the microcanonical molecular dynamics ensemble. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 234, 53-75. | 2.6 | 5 |
| 93 | Many-body components in the integrated far-infrared absorption coefficient of diatomic molecules in spherical solvents. <i>Journal of Chemical Physics</i> , 1997, 107, 4844-4851. | 3.0 | 5 |
| 94 | Thermodynamic processes with negative and positive compressibilities. <i>American Journal of Physics</i> , 1998, 66, 928-929. | 0.7 | 5 |
| 95 | Ensemble Effects in Small Systems. <i>Lecture Notes in Physics</i> , 2008, , 343-381. | 0.7 | 5 |
| 96 | Some empirical rules concerning the vapor pressure curve revisited. <i>Journal of Chemical Thermodynamics</i> , 2014, 68, 193-198. | 2.0 | 5 |
| 97 | A generalization of the Ehrenfest urn model. <i>American Journal of Physics</i> , 1989, 57, 828-834. | 0.7 | 4 |
| 98 | Theoretical far-infrared spectrum of HCl in liquid Ar: A density dependence study. <i>Chemical Physics Letters</i> , 1989, 160, 60-66. | 2.6 | 4 |
| 99 | Memory kernel for a multilevel quantum system driven by colored thermal noise. <i>Journal of Chemical Physics</i> , 1990, 93, 8939-8944. | 3.0 | 4 |
| 100 | Quantum fractal noise: Time-autocorrelation functions. <i>Physical Review A</i> , 1992, 46, 1880-1885. | 2.5 | 4 |
| 101 | Crosslinking of membrane immunoglobulins and B-cell activation: a simple model based on percolation theory. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1993, 254, 139-145. | 2.6 | 4 |
| 102 | Theoretical analysis of the far-infrared spectra of HCl in liquid Ar along the Ar liquid-vapour coexistence line. <i>Journal of Molecular Liquids</i> , 1995, 63, 251-264. | 4.9 | 4 |
| 103 | Thermal Coefficients and Heat Capacities in Systems with Chemical Reaction: The Le Chatelier-Braun Principle. <i>Journal of Chemical Education</i> , 1995, 72, 199. | 2.3 | 4 |
| 104 | Probability distribution function for the random sequential adsorption of hard-disks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 233, 283-292. | 2.6 | 4 |
| 105 | A simple experiment for measuring the adiabatic coefficient of air. <i>American Journal of Physics</i> , 1998, 66, 642-643. | 0.7 | 4 |
| 106 | Velocity distributions for a hard-disk fluid in a small circular cavity: effect of the conservation of the total angular momentum. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 334, 312-326. | 2.6 | 4 |
| 107 | Thermodynamics of a pure substance at the triple point. <i>American Journal of Physics</i> , 2007, 75, 1086-1091. | 0.7 | 4 |
| 108 | On Srinivasan's Criterion for the Vapor Pressure Curve. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 4244-4247. | 1.9 | 4 |

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|-----|--|-----|-----------|
| 109 | Entropic selectivity of binary mixtures in cylindrical pores. <i>Journal of Chemical Physics</i> , 2011, 135, 154704. | 3.0 | 4 |
| 110 | Critical points characterization using probability distributions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1988, 153, 299-314. | 2.6 | 3 |
| 111 | Non-Markovian effects on an anharmonic oscillator stochastically coupled to a thermal bath. <i>Physical Review A</i> , 1989, 40, 3156-3163. | 2.5 | 3 |
| 112 | Critical points characterization using probability distributions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989, 154, 511-520. | 2.6 | 3 |
| 113 | Memory effects on the rotational relaxation of diatomic polar molecules in non-polar liquids. <i>Chemical Physics</i> , 1990, 142, 361-367. | 1.9 | 3 |
| 114 | Derivation of a quantum time autocorrelation function from a classical white-noise process. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990, 146, 310-312. | 2.1 | 3 |
| 115 | Teaching spontaneous magnetization by using a probability distribution. <i>European Journal of Physics</i> , 1991, 12, 170-174. | 0.6 | 3 |
| 116 | Analysis of memory and nonadditivity effects on the far infrared spectra of HCl in rare gas liquids. <i>Journal of Molecular Liquids</i> , 1992, 54, 67-72. | 4.9 | 3 |
| 117 | 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.. <i>Journal of Molecular Structure</i> , 1993, 294, 99-102. | 3.6 | 3 |
| 118 | Permanent and interaction-induced far-infrared spectra of CO in dense Ar: a molecular dynamics approach. <i>Journal of Molecular Liquids</i> , 1996, 70, 169-183. | 4.9 | 3 |
| 119 | Probability distribution of hard-disk and hard-sphere gases over finite subvolumes. <i>Physical Review E</i> , 1996, 53, 2360-2365. | 2.1 | 3 |
| 120 | Microcanonical ensemble study of a classical fluid of hard rods under gravity. <i>European Physical Journal B</i> , 1999, 7, 421-427. | 1.5 | 3 |
| 121 | A simple example illustrating the application of thermodynamic extremum principles. <i>European Journal of Physics</i> , 2002, 23, 501-511. | 0.6 | 3 |
| 122 | On isentropic lines and isentropic exponents. <i>Journal of Chemical Thermodynamics</i> , 2013, 56, 144-148. | 2.0 | 3 |
| 123 | Use of the memory function in a collinear atom/harmonic chain model. <i>Journal of Chemical Physics</i> , 1984, 81, 2064-2069. | 3.0 | 2 |
| 124 | Theoretical study of two non-Markovian far-infrared spectra of HCl in liquids CCl ₄ and SF ₆ using a stochastic model. <i>Journal of Molecular Structure</i> , 1986, 141, 479-482. | 3.6 | 2 |
| 125 | Comparison between two models (stochastic and dynamics) calculations for the far-infrared spectra of a HCl-Ar solution. <i>Journal of Molecular Liquids</i> , 1988, 39, 99-104. | 4.9 | 2 |
| 126 | Comparison of observed and calculated vibration-rotation ($0 \leftarrow 1$) band shapes of HCl in liquid Xe. <i>Chemical Physics Letters</i> , 1990, 171, 87-90. | 2.6 | 2 |

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|-----|--|-----|-----------|
| 127 | A probabilistic approach to the site-percolation problem. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1991, 171, 504-516. | 2.6 | 2 |
| 128 | The probability distribution for a lattice gas: A simple characterization of the liquid-vapor phase transition. <i>American Journal of Physics</i> , 1991, 59, 335-340. | 0.7 | 2 |
| 129 | Far-infrared spectra of HCl in dense Ar: analysis of two time correction functions for the interaction. <i>Journal of Molecular Structure</i> , 1993, 294, 95-98. | 3.6 | 2 |
| 130 | Parametric solution of the phase diagram of a mean-field Ising model exhibiting a tricritical point. <i>American Journal of Physics</i> , 1993, 61, 554-559. | 0.7 | 2 |
| 131 | Electric multipolar induction in the far-infrared spectra of CO in liquid Ar: Translational/rotational contributions and static cancellation effects. <i>Journal of Chemical Physics</i> , 1998, 108, 9480-9486. | 3.0 | 2 |
| 132 | A simple method for measuring atmospheric pressure. <i>American Journal of Physics</i> , 2002, 70, 1236-1237. | 0.7 | 2 |
| 133 | Vibration-rotation spectra of hydrogen halides in rare-gas liquids: Q-branch absorption. <i>Pure and Applied Chemistry</i> , 2004, 76, 241-246. | 1.9 | 2 |
| 134 | The curvature of the liquid-vapor reduced pressure curve and its relation with the critical region. <i>Journal of Chemical Thermodynamics</i> , 2013, 60, 41-45. | 2.0 | 2 |
| 135 | The Miller function, a sensitivity test for equations of state and theoretical vapor pressure data. <i>Journal of Chemical Thermodynamics</i> , 2013, 58, 263-268. | 2.0 | 2 |
| 136 | Consistency of Vapor Pressure Equations at the Critical Point. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 12993-12998. | 3.7 | 2 |
| 137 | Absorption line shape of two coupled oscillators decaying in two different mediums. <i>International Journal of Quantum Chemistry</i> , 1977, 11, 979-989. | 2.0 | 1 |
| 138 | A simple study of the diffusion problem using equilibrium probability distributions. <i>European Journal of Physics</i> , 1989, 10, 272-275. | 0.6 | 1 |
| 139 | Critical points characterization using probability distributions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989, 156, 823-834. | 2.6 | 1 |
| 140 | Equations of state, collisional energy transfer, and chemical equilibrium in gases. <i>Journal of Chemical Education</i> , 1989, 66, 139. | 2.3 | 1 |
| 141 | Onset of non-Markovian behaviour in a harmonic oscillator stochastically coupled to a thermal bath. <i>Journal of the European Optical Society Part B: Quantum Optics</i> , 1990, 2, 323-332. | 1.2 | 1 |
| 142 | Time-dependent transition rates for a multilevel quantum system interacting with a bath lacking a characteristic relaxation time. <i>Physical Review A</i> , 1992, 46, 8015-8017. | 2.5 | 1 |
| 143 | Quantum time correlation functions for solute-solvent intermolecular potentials : Influence on the far-infrared spectrum. <i>Journal of Molecular Liquids</i> , 1992, 54, 57-62. | 4.9 | 1 |
| 144 | Memory and nonadditivity effects on the far-infrared spectra of DCl, HCl and HF in liquid SF ₆ . <i>Chemical Physics Letters</i> , 1993, 202, 364-370. | 2.6 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 145 | 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 |
| 146 | Velasco, Roco, Medina, and Calvo Hernández Reply:. Physical Review Letters, 1998, 81, 5470-5470. | 7.8 | 1 |
| 147 | An experiment for measuring the low temperature vapor line of water. American Journal of Physics, 2000, 68, 1154-1157. | 0.7 | 1 |
| 148 | The speed of sound in a hard disk gas: A computer simulation. American Journal of Physics, 2002, 70, 847-851. | 0.7 | 1 |
| 149 | ³ He Vapor Pressure near Its Critical Point. Journal of Low Temperature Physics, 2008, 152, 177-185. | 1.4 | 1 |
| 150 | Relation between the Isentropic Index and the Grüneisen Parameter for Saturated Liquids. Industrial & Engineering Chemistry Research, 2014, 53, 6866-6870. | 3.7 | 1 |
| 151 | Success versus failure: Efficient heat devices in thermodynamics. Physical Review E, 2022, 105, 014115. | 2.1 | 1 |
| 152 | Absorption line shape of two coupled oscillators decaying in the same bath. International Journal of Quantum Chemistry, 1978, 14, 65-69. | 2.0 | 0 |
| 153 | Time dependent rotational relaxation transition rates (T1 processes) for diatomic polar molecules in rare-gas liquids. Journal of Molecular Liquids, 1990, 45, 83-88. | 4.9 | 0 |
| 154 | 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 |
| 155 | Probability distribution function for the random sequential adsorption of aligned and unaligned hard-squares. Lecture Notes in Physics, 1997, , 297-297. | 0.7 | 0 |
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