

Fred Lado

List of Publications by Year in descending order

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68
papers

2,736
citations

185998

28
h-index

174990

52
g-index

68
all docs

68
docs citations

68
times ranked

931
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | From square-well to Janus: Improved algorithm for integral equation theory and comparison with thermodynamic perturbation theory within the Kern-Frenkel model. <i>Journal of Chemical Physics</i> , 2014, 140, 094104. | 1.2 | 19 |
| 2 | Effects of patch size and number within a simple model of patchy colloids. <i>Journal of Chemical Physics</i> , 2010, 132, 174110. | 1.2 | 107 |
| 3 | Liquid-vapor coexistence in square-well fluids: an RHNC study. <i>Molecular Physics</i> , 2009, 107, 555-562. | 0.8 | 17 |
| 4 | Phase diagram and structural properties of a simple model for one-patch particles. <i>Journal of Chemical Physics</i> , 2009, 131, 174114. | 1.2 | 42 |
| 5 | An efficient procedure for the study of inhomogeneous liquids. <i>Molecular Physics</i> , 2009, 107, 301-308. | 0.8 | 5 |
| 6 | Integral equation and simulation studies of a planar nematogenic liquid in crossed external fields. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 2801-2824. | 0.7 | 2 |
| 7 | Percolation of clusters with a residence time in the bond definition: Integral equation theory. <i>Physical Review E</i> , 2005, 71, 031202. | 0.8 | 7 |
| 8 | Distribution functions for a two-dimensional non-interacting quantum electron gas in an external magnetic field. <i>Molecular Physics</i> , 2003, 101, 1635-1639. | 0.8 | 0 |
| 9 | Structure and thermodynamics of a ferrofluid monolayer. <i>Physical Review E</i> , 2000, 61, 3838-3849. | 0.8 | 47 |
| 10 | Thermodynamic perturbation theory for polydisperse colloidal suspensions using orthogonal polynomial expansions. <i>Physical Review E</i> , 1999, 59, 6937-6945. | 0.8 | 21 |
| 11 | An integral equation study of a simple point charge model of water. <i>Journal of Chemical Physics</i> , 1999, 110, 1148-1153. | 1.2 | 64 |
| 12 | Static structure of polydisperse colloidal monolayers. <i>Journal of Chemical Physics</i> , 1998, 108, 6441-6446. | 1.2 | 16 |
| 13 | Heisenberg Spin Fluid in an External Magnetic Field. <i>Physical Review Letters</i> , 1998, 80, 3535-3538. | 2.9 | 28 |
| 14 | An accurate theoretical description of fluids composed of fully anisotropic molecules: Application to C _{2v} symmetry. <i>Journal of Chemical Physics</i> , 1997, 107, 4642-4647. | 1.2 | 22 |
| 15 | Molecular theory of a charged particle in a polarizable nonpolar liquid. <i>Journal of Chemical Physics</i> , 1997, 106, 4707-4713. | 1.2 | 15 |
| 16 | Monte Carlo simulation and reference hypernetted chain equation results for structural, thermodynamic, and dielectric properties of polar heteronuclear diatomic fluids. <i>Journal of Chemical Physics</i> , 1996, 104, 6710-6718. | 1.2 | 10 |
| 17 | Integral equation theory of polydisperse colloidal suspensions using orthogonal polynomial expansions. <i>Physical Review E</i> , 1996, 54, 4411-4419. | 0.8 | 34 |
| 18 | Integral equation algorithm for fluids of fully anisotropic molecules. <i>Journal of Chemical Physics</i> , 1995, 103, 481-484. | 1.2 | 37 |

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|----|--|-----|-----------|
| 19 | A fast method of solving the hypernetted-chain equation for molecular Lennard-Jones fluids. <i>Molecular Physics</i> , 1995, 84, 743-755. | 0.8 | 9 |
| 20 | Numerical solution of structure integral equation theories for two-dimensional fluid mixtures. <i>Molecular Physics</i> , 1994, 83, 351-359. | 0.8 | 6 |
| 21 | Integral equation and simulation studies of a realistic model for liquid hydrogen chloride. <i>Journal of Chemical Physics</i> , 1994, 100, 1599-1605. | 1.2 | 21 |
| 22 | Trapping constant, thermal conductivity, and the microstructure of suspensions of oriented spheroids. <i>Journal of Chemical Physics</i> , 1991, 94, 4453-4462. | 1.2 | 39 |
| 23 | Integrals over the triplet distribution function without the triplet distribution function. <i>Molecular Physics</i> , 1991, 72, 1387-1395. | 0.8 | 6 |
| 24 | Integral-equation approach to the calculation of the potential distribution in a fluid. <i>Physical Review A</i> , 1990, 42, 7281-7288. | 1.0 | 4 |
| 25 | Two-point probability function for distributions of oriented hard ellipsoids. <i>Journal of Chemical Physics</i> , 1990, 93, 5912-5917. | 1.2 | 29 |
| 26 | Percus-Yevick solutions for the planar dumbbell fluid. <i>Molecular Physics</i> , 1988, 64, 1185-1193. | 0.8 | 11 |
| 27 | Reference-hypernetted chain equation with anisotropic bridge function for fluids of diatomic molecules. <i>Journal of Chemical Physics</i> , 1988, 88, 1950-1952. | 1.2 | 9 |
| 28 | Structure, thermodynamics, and orientational correlations of the nematogenic hard ellipse fluid from the Percus-Yevick equation. <i>Molecular Physics</i> , 1988, 63, 623-638. | 0.8 | 33 |
| 29 | Bulk properties of composite media. I. Simplification of bounds on the shear modulus of suspensions of impenetrable spheres. <i>Journal of Applied Physics</i> , 1987, 62, 3503-3513. | 1.1 | 8 |
| 30 | Extension of the optimized RHNC equation to multicomponent liquids. <i>Journal of Chemical Physics</i> , 1987, 87, 2249-2256. | 1.2 | 35 |
| 31 | Charge distribution in plasmas with field constraint. <i>Physical Review A</i> , 1987, 36, 2333-2337. | 1.0 | 15 |
| 32 | Bulk properties of composite media. II. Evaluation of bounds on the shear modulus of suspensions of impenetrable spheres. <i>Journal of Applied Physics</i> , 1987, 62, 4135-4141. | 1.1 | 16 |
| 33 | Generalized bridge functions for the reference hypernetted-chain equation: Calculation of the electric microfield distribution in a plasma. <i>Physical Review A</i> , 1987, 36, 313-317. | 1.0 | 10 |
| 34 | Bulk properties of two-phase disordered media. IV. Mechanical properties of suspensions of penetrable spheres at nondilute concentrations. <i>Journal of Chemical Physics</i> , 1987, 86, 6388-6392. | 1.2 | 12 |
| 35 | Dumbbell-A program to calculate the structure and thermodynamics of a classical fluid of hard, homonuclear diatomic molecules. <i>Computer Physics Communications</i> , 1986, 39, 133-140. | 3.0 | 9 |
| 36 | Exact solution of the mean spherical model for the electric microfield distribution in a plasma. <i>Physical Review A</i> , 1986, 34, 4131-4135. | 1.0 | 15 |

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|----|--|-----|-----------|
| 37 | Structure and thermodynamics of the dipolar hard sphere fluid from the reference-hypernetted chain equation with minimized free energy. <i>Journal of Chemical Physics</i> , 1986, 85, 2916-2921. | 1.2 | 33 |
| 38 | Effective properties of two-phase disordered composite Media. I. Simplification of bounds on the conductivity and bulk modulus of dispersions of impenetrable spheres. <i>Physical Review B</i> , 1986, 33, 3370-3378. | 1.1 | 27 |
| 39 | Effective properties of two-phase disordered composite media: II. Evaluation of bounds on the conductivity and bulk modulus of dispersions of impenetrable spheres. <i>Physical Review B</i> , 1986, 33, 6428-6435. | 1.1 | 102 |
| 40 | Perturbation approach to the computer simulation of dipolar fluids. <i>Journal of Chemical Physics</i> , 1986, 85, 2913-2915. | 1.2 | 4 |
| 41 | Test of a simple analytic model for fluids of hard linear molecules. <i>Molecular Physics</i> , 1985, 54, 407-413. | 0.8 | 27 |
| 42 | Thermodynamic consistency conditions for the reference-hypernetted chain equation with arbitrary molecular potential. <i>Journal of Chemical Physics</i> , 1984, 81, 4592-4593. | 1.2 | 7 |
| 43 | Choosing the reference system for liquid state perturbation theory. <i>Molecular Physics</i> , 1984, 52, 871-876. | 0.8 | 82 |
| 44 | Thermodynamically consistent perturbation theory for molecular fluids. <i>Molecular Physics</i> , 1984, 53, 363-368. | 0.8 | 2 |
| 45 | Solutions of the reference-hypernetted-chain equation with minimized free energy. <i>Physical Review A</i> , 1983, 28, 2374-2379. | 1.0 | 304 |
| 46 | Integral equations for fluids of linear molecules. <i>Molecular Physics</i> , 1982, 47, 313-317. | 0.8 | 7 |
| 47 | Integral equations for fluids of linear molecules. <i>Molecular Physics</i> , 1982, 47, 283-298. | 0.8 | 93 |
| 48 | Integral equations for fluids of linear molecules. <i>Molecular Physics</i> , 1982, 47, 299-311. | 0.8 | 43 |
| 49 | A local thermodynamic criterion for the reference-hypernetted chain equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1982, 89, 196-198. | 0.9 | 143 |
| 50 | Some topics in the molecular dynamics ensemble. <i>Journal of Chemical Physics</i> , 1981, 75, 5461-5463. | 1.2 | 21 |
| 51 | Hypernetted-chain solutions for the two-dimensional classical electron gas. <i>Physical Review B</i> , 1978, 17, 2827-2832. | 1.1 | 72 |
| 52 | Charged hard spheres in a uniform neutralizing background using "mixed" integral equations. <i>Molecular Physics</i> , 1976, 31, 1117-1127. | 0.8 | 62 |
| 53 | Calculation of NMR line shapes in calcium fluoride from modified moment expansions. <i>Physical Review B</i> , 1974, 9, 22-28. | 1.1 | 21 |
| 54 | Calculation of a corrected pair distribution function. <i>Journal of Chemical Physics</i> , 1974, 60, 1686-1687. | 1.2 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Perturbation Correction for the Free Energy and Structure of Simple Fluids. <i>Physical Review A</i> , 1973, 8, 2548-2552. | 1.0 | 196 |
| 56 | Calculation of NMR Line Shapes Using the Memory-Function Approach. <i>Physical Review B</i> , 1973, 8, 3081-3092. | 1.1 | 40 |
| 57 | Perturbation correction for the free energy and structure of simple fluid mixtures. <i>Journal of Chemical Physics</i> , 1973, 59, 4830-4835. | 1.2 | 16 |
| 58 | Diffusive and Collective Motion in Classical Fluids. <i>Journal of Chemical Physics</i> , 1972, 57, 3003-3006. | 1.2 | 5 |
| 59 | Numerical Calculation of the Density Autocorrelation Function for Liquid Argon. <i>Physical Review A</i> , 1972, 5, 2238-2244. | 1.0 | 3 |
| 60 | Monte Carlo calculation of normal and abnormal diffusion in Ehrenfest's wind-tree model. <i>Journal of Computational Physics</i> , 1971, 7, 528-546. | 1.9 | 36 |
| 61 | Numerical fourier transforms in one, two, and three dimensions for liquid state calculations. <i>Journal of Computational Physics</i> , 1971, 8, 417-433. | 1.9 | 141 |
| 62 | Density Autocorrelation Function in a Classical Fluid from Initial Correlations. <i>Physical Review A</i> , 1970, 2, 1467-1473. | 1.0 | 18 |
| 63 | Equation of State of the Hard-Disk Fluid from Approximate Integral Equations. <i>Journal of Chemical Physics</i> , 1968, 49, 3092-3096. | 1.2 | 162 |
| 64 | N Dependence in Monte Carlo Studies of the Square-Well System. <i>Journal of Chemical Physics</i> , 1968, 49, 4244-4245. | 1.2 | 18 |
| 65 | Effective Potential Description of the Quantum Ideal Gases. <i>Journal of Chemical Physics</i> , 1967, 47, 5369-5375. | 1.2 | 80 |
| 66 | Pressure-Consistent Integral Equation for Classical Fluids: Hard-Sphere Solutions. <i>Journal of Chemical Physics</i> , 1967, 47, 4828-4833. | 1.2 | 80 |
| 67 | Approximate Methods for Obtaining Radial Distribution Functions of Fluids. <i>Physical Review</i> , 1965, 137, A42-A50. | 2.7 | 23 |
| 68 | Perturbation Correction to the Radial Distribution Function. <i>Physical Review</i> , 1964, 135, A1013-A1017. | 2.7 | 75 |