

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	Solutions of the reference-hypernetted-chain equation with minimized free energy. <i>Physical Review A</i> , 1983, 28, 2374-2379.	1.0	304
2	Perturbation Correction for the Free Energy and Structure of Simple Fluids. <i>Physical Review A</i> , 1973, 8, 2548-2552.	1.0	196
3	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
4	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
5	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
6	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
7	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
8	Integral equations for fluids of linear molecules. <i>Molecular Physics</i> , 1982, 47, 283-298.	0.8	93
9	Choosing the reference system for liquid state perturbation theory. <i>Molecular Physics</i> , 1984, 52, 871-876.	0.8	82
10	Effective Potential Description of the Quantum Ideal Gases. <i>Journal of Chemical Physics</i> , 1967, 47, 5369-5375.	1.2	80
11	Pressure-Consistent Integral Equation for Classical Fluids: Hard-Sphere Solutions. <i>Journal of Chemical Physics</i> , 1967, 47, 4828-4833.	1.2	80
12	Perturbation Correction to the Radial Distribution Function. <i>Physical Review</i> , 1964, 135, A1013-A1017.	2.7	75
13	Hypernetted-chain solutions for the two-dimensional classical electron gas. <i>Physical Review B</i> , 1978, 17, 2827-2832.	1.1	72
14	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
15	Charged hard spheres in a uniform neutralizing background using "mixed" integral equations. <i>Molecular Physics</i> , 1976, 31, 1117-1127.	0.8	62
16	Structure and thermodynamics of a ferrofluid monolayer. <i>Physical Review E</i> , 2000, 61, 3838-3849.	0.8	47
17	Integral equations for fluids of linear molecules. <i>Molecular Physics</i> , 1982, 47, 299-311.	0.8	43
18	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

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19	Calculation of NMR Line Shapes Using the Memory-Function Approach. <i>Physical Review B</i> , 1973, 8, 3081-3092.	1.1	40
20	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
21	Integral equation algorithm for fluids of fully anisotropic molecules. <i>Journal of Chemical Physics</i> , 1995, 103, 481-484.	1.2	37
22	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
23	Extension of the optimized RHNC equation to multicomponent liquids. <i>Journal of Chemical Physics</i> , 1987, 87, 2249-2256.	1.2	35
24	Integral equation theory of polydisperse colloidal suspensions using orthogonal polynomial expansions. <i>Physical Review E</i> , 1996, 54, 4411-4419.	0.8	34
25	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
26	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
27	Two-point probability function for distributions of oriented hard ellipsoids. <i>Journal of Chemical Physics</i> , 1990, 93, 5912-5917.	1.2	29
28	Heisenberg Spin Fluid in an External Magnetic Field. <i>Physical Review Letters</i> , 1998, 80, 3535-3538.	2.9	28
29	Test of a simple analytic model for fluids of hard linear molecules. <i>Molecular Physics</i> , 1985, 54, 407-413.	0.8	27
30	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
31	Approximate Methods for Obtaining Radial Distribution Functions of Fluids. <i>Physical Review</i> , 1965, 137, A42-A50.	2.7	23
32	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
33	Calculation of NMR line shapes in calcium fluoride from modified moment expansions. <i>Physical Review B</i> , 1974, 9, 22-28.	1.1	21
34	Some topics in the molecular dynamics ensemble. <i>Journal of Chemical Physics</i> , 1981, 75, 5461-5463.	1.2	21
35	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
36	Thermodynamic perturbation theory for polydisperse colloidal suspensions using orthogonal polynomial expansions. <i>Physical Review E</i> , 1999, 59, 6937-6945.	0.8	21

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37	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
38	N Dependence in Monte Carlo Studies of the Square-Well System. <i>Journal of Chemical Physics</i> , 1968, 49, 4244-4245.	1.2	18
39	Density Autocorrelation Function in a Classical Fluid from Initial Correlations. <i>Physical Review A</i> , 1970, 2, 1467-1473.	1.0	18
40	Liquid-vapor coexistence in square-well fluids: an RHNC study. <i>Molecular Physics</i> , 2009, 107, 555-562.	0.8	17
41	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
42	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
43	Static structure of polydisperse colloidal monolayers. <i>Journal of Chemical Physics</i> , 1998, 108, 6441-6446.	1.2	16
44	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
45	Charge distribution in plasmas with field constraint. <i>Physical Review A</i> , 1987, 36, 2333-2337.	1.0	15
46	Molecular theory of a charged particle in a polarizable nonpolar liquid. <i>Journal of Chemical Physics</i> , 1997, 106, 4707-4713.	1.2	15
47	Calculation of a corrected pair distribution function. <i>Journal of Chemical Physics</i> , 1974, 60, 1686-1687.	1.2	13
48	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
49	Percus-Yevick solutions for the planar dumbbell fluid. <i>Molecular Physics</i> , 1988, 64, 1185-1193.	0.8	11
50	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
51	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
52	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
53	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
54	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

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55	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
56	Integral equations for fluids of linear molecules. <i>Molecular Physics</i> , 1982, 47, 313-317.	0.8	7
57	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
58	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
59	Integrals over the triplet distribution function without the triplet distribution function. <i>Molecular Physics</i> , 1991, 72, 1387-1395.	0.8	6
60	Numerical solution of structure integral equation theories for two-dimensional fluid mixtures. <i>Molecular Physics</i> , 1994, 83, 351-359.	0.8	6
61	Diffusive and Collective Motion in Classical Fluids. <i>Journal of Chemical Physics</i> , 1972, 57, 3003-3006.	1.2	5
62	An efficient procedure for the study of inhomogeneous liquids. <i>Molecular Physics</i> , 2009, 107, 301-308.	0.8	5
63	Perturbation approach to the computer simulation of dipolar fluids. <i>Journal of Chemical Physics</i> , 1986, 85, 2913-2915.	1.2	4
64	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
65	Numerical Calculation of the Density Autocorrelation Function for Liquid Argon. <i>Physical Review A</i> , 1972, 5, 2238-2244.	1.0	3
66	Thermodynamically consistent perturbation theory for molecular fluids. <i>Molecular Physics</i> , 1984, 53, 363-368.	0.8	2
67	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
68	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