Cg Gray

List of Publications by Year
in descending order

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71 papers	1,879 citations	279487 23 h-index	276539 41 g-index
71 all docs	71 docs citations	71 times ranked	474 citing authors

#	Article	IF	Citations
1	Solvent effects in vibrational spectra11Funded by the Natural Sciences and Engineering Research Council of Canada.. , 1997, , 207-221.		1
2	Complex plane method for interaction-induced spectra in 3D systems. Chemical Physics Letters, 1994, 218, 183-188.	1.2	19
3	Infrared rotation and vibrationâ€"rotation bands of endohedral fullerene complexes. Helium in C60-derived nanotubes. Chemical Physics Letters, 1994, 227, 405-411.	1.2	5
4	Infrared rotation and vibrationâ€"rotation bands of endohedral fullerene complexes. Absorption spectrum of Li+ @C60 in the range 1â€"1000 cmâ^'1. Chemical Physics Letters, 1993, 208, 86-92.	1.2	45
5	Infrared rotation and vibrationâ€"rotation bands of endohedral fullerene complexes. K+ @C60. Chemical Physics Letters, 1993, 211, 587-594.	1.2	21
6	Infrared rotation and vibrationâ€"rotation bands of endohedral fullerene complexes. He,C60. Chemical Physics Letters, 1993, 213, 377-382.	1.2	22
7	Raman spectra of endohedral fullerenes. Li+ @C60. Chemical Physics Letters, 1993, 215, 144-150.	1.2	24
8	Calculation of the quantum-mechanical propagator at large real times. Computer Physics Communications, 1993, 75, 1-9.	3.0	5
9	Density-functional theory of the water liquid-vapour interface. Molecular Physics, 1992, 76, 709-735.	0.8	23
10	Calculation of high-frequency spectral wings by solution of the SchrÃ¶dinger equation in the complex plane. Chemical Physics Letters, 1990, 175, 105-110.	1.2	7
11	Far-infrared absorption in liquid carbon tetrachloride: A theoretical study of the lineshape and intensity. Chemical Physics Letters, 1989, 154, 369-373.	1.2	7
12	Lineshapes in collision-induced absorption. Molecular Physics, 1989, 66, 961-979.	0.8	14
13	Calculation of transport coefficients using a modified Mori formalism. Molecular Physics, 1989, 66, 757-765.	0.8	2
14	Comment on â€˜About an information theoretical spectral line shape proposed for the collision-induced spectroscopiesâ€™. Molecular Physics, 1988, 64, 997-1000.	0.8	1
15	Theory and simulation of associating liquid mixtures. II. Molecular Physics, 1987, 62, 843-860.	0.8	84
16	Line shape in collision-induced absorption spectra. Molecular Physics, 1987, 60, 951-975.	0.8	8
17	Line shape in collision-induced absorption spectra. Molecular Physics, 1986, 58, 253-262.	0.8	11
18	Calculation of transport coefficients using a modified Mori formalism. Molecular Physics, 1986, 58, 789-797.	0.8	13

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19	Theory and simulation of associating liquid mixtures. Fluid Phase Equilibria, 1986, 29, 337-346.	1.4	71
20	The second dielectric virial coefficient of a dipolar sticky hard sphere fluid. Molecular Physics, 1986, 57, 1197-1200.	0.8	3
21	Far-infrared absorption in gaseous CH4and CF4. Molecular Physics, 1985, 54, 1469-1489.	0.8	15
22	Induction effects in fluid mixtures of dipolar-quadrupolar polarizable molecules. Molecular Physics, 1985, 54, 1129-1148.	0.8	25
23	Far infrared absorption in liquid methane-argon mixtures. Molecular Physics, 1985, 55, 1089-1096.	0.8	2
24	Renormalized perturbation theory for dipolar and quadrupolar polarizable liquids. Molecular Physics, 1985, 54, 1117-1128.	0.8	25
25	Far-infrared absorption in liquid methane. Molecular Physics, 1985, 55, 1075-1087.	0.8	11
26	Thermodynamic properties of liquid mixtures of hydrogen chloride and tetrafluoromethane. Fluid Phase Equilibria, 1985, 22, 89-105.	1.4	10
27	Information theory of the lineshape for collision-induced absorption: Liquid tetrafluoromethane. Chemical Physics Letters, 1985, 121, 134-138.	1.2	4
28	Induction effects in polar-polarizable liquid mixtures. Molecular Physics, 1984, 52, 1411-1429.	0.8	40
29	The effect of non-axial quadrupole forces on the anisotropy of mean-squared force and torque. Chemical Physics Letters, 1984, 104, 407-408.	1.2	1
30	Information theory of the lineshape for collision-induced absorption: Nitrogen gas. Chemical Physics Letters, 1984, 107, 249-255.	1.2	13
31	Lineshape in collision-induced absorption. Mori theory. Chemical Physics Letters, 1984, 106, 55-59.	1.2	22
32	Far-infrared absorption in nitrogen gas. Molecular Physics, 1984, 53, 203-223.	0.8	30
33	Structure of a diatomic fluid near a wall. Molecular Physics, 1984, 51, 21-44.	0.8	21
34	Information theory of line-shape in collision-induced absorption. Chemical Physics Letters, 1983, 100, 383-386.	1.2	21
35	The effect of non-axial quadrupole forces on liquid properties. Chemical Physics Letters, 1983, 95, 541-543.	1.2	2
36	Higher-order spectral moments in collision-induced absorption. Inert gas mixtures. Chemical Physics Letters, 1983, 95, 430-434.	1.2	6

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37	Effective central potentials for molecular fluids. Chemical Physics Letters, 1983, 101, 248-254.	1.2	23
38	Comparisons of perturbation and integral equation theories for the angular pair correlation function in molecular fluids. Chemical Physics, 1983, 81, 87-98.	0.9	6
39	Evaluation of the SSC/LHNC, SSCF and PY approximations for short ranged, anisotropic potentials. Molecular Physics, 1983, 48, 1177-1207.	0.8	16
40	Evaluation of the CPY and PYX approximations for short ranged anisotropic potentials. Molecular Physics, 1983, 50, 1133-1140.	0.8	4
41	Multipole expansions in two dimensions. Molecular Physics, 1983, 50, 329-345.	0.8	13
42	Structure of a diatomic fluid near a wall. I. Molecular Physics, 1981, 44, 597-621.	0.8	39
43	Evaluation of angular correlation parameters and the dielectric constant in the RISM approximation. Molecular Physics, 1981, 42, 443-454.	0.8	63
44	Theory of fluids of non-axial quadrupolar molecules. Molecular Physics, 1981, 42, 843-860.	0.8	17
45	Theory of fluids of non-axial quadrupolar molecules. Molecular Physics, 1981, 42, 817-841.	0.8	41
46	Determination of the quadrupole moment tensor of ethylene by collision-induced absorption. Chemical Physics Letters, 1980, 73, 278-282.	1.2	22
47	Spherical harmonic expansions of the angular pair correlation function in molecular fluids. Chemical Physics Letters, 1980, 76, 583-588.	1.2	20
48	Spherical harmonic expansion of the intermolecular site-site potential. Molecular Physics, 1979, 37, 129-140.	0.8	65
49	Second-order perturbation theory for the angular pair correlation function in molecular fluids. Chemical Physics Letters, 1979, 65, 187-191.	1.2	16
50	Thermodynamic derivatives of correlation functions. Molecular Physics, 1978, 35, 315-328.	0.8	16
51	Theory of collision-induced absorption in liquids. Molecular Physics, 1976, 32, 989-994.	0.8	12
52	Spherical tensor theory of molecular multipole moments and polarizabilities. Chemical Physics, 1976, 14, 73-87.	0.9	80
53	Monte carlo simulation of molecular fluids on a minicomputer. Journal of Computational Physics, 1976, 21, 227-237.	1.9	5
54	Excess thermodynamic properties for liquid mixtures of non-spherical molecules. Molecular Physics, 1975, 29, 713-729.	0.8	73

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55	Calculation of the dielectric and Kerr constant angular correlation parameters. Molecular Physics, 1975, 30, 1481-1487.	0.8	24
56	Thermodynamic inequalities for molecular fluids. Molecular Physics, 1975, 30, 881-888.	0.8	0
57	Mean squared torque in dense fluids. Molecular Physics, 1975, 30, 1607-1610.	0.8	12
58	Theory of surface tension for molecular fluids. Molecular Physics, 1975, 30, 179-192.	0.8	39
59	Moment analysis and quantum effects in collision-induced absorption. Molecular Physics, 1975, 29, 825-836.	0.8	48
60	Thermodynamics of mixtures of non-spherical molecules. Molecular Physics, 1975, 30, 1649-1676.	0.8	84
61	Perturbation theory for equilibrium properties of molecular fluids. Molecular Physics, 1974, 28, 1005-1030.	0.8	90
62	Calculation of the third depolarization virial coefficient for monoatomic gases. Molecular Physics, 1974, 27, 1683-1685.	0.8	10
63	The mean squared torque in pure and mixed dense fluids. Molecular Physics, 1974, 27, 1601-1612.	0.8	24
64	Long-range induced dipole moment of three interacting atoms. Chemical Physics Letters, 1974, 25, 55-58.	1.2	17
65	Monte Carlo calculations of the mean squared force in molecular liquids. Chemical Physics Letters, 1974, 26, 610-612.	1.2	12
66	Monte Carlo study of the angular pair correlation function in a liquid with quadrupolar forces. Chemical Physics Letters, 1974, 24, 453-456.	1.2	29
67	Monte Carlo study of the pair correlation function for a liquid with non-central forces. Chemical Physics Letters, 1973, 21, 123-126.	1.2	55
68	Angular correlation effects in neutron diffraction from molecular fluids. Molecular Physics, 1973, 25, 1353-1375.	0.8	107
69	Perturbation theory for the angular pair correlation function in molecular fluids. Molecular Physics, 1972, 23, 187-191.	0.8	132
70	Density hierarchy for the time-dependent correlation functions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1971, 37, 321-322.	0.9	9
71	Virial expansion for the depolarization ratio of Rayleigh scattering from monatomic gases. Physics Letters, Section A: General, Atomic and Solid State Physics, 1970, 33, 165-166.	0.9	22