

Robert Snider

List of Publications by Year in descending order

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59
papers

1,338
citations

361045

20
h-index

344852

36
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59
all docs

59
docs citations

59
times ranked

247
citing authors

#	ARTICLE	IF	CITATIONS
1	Irreversible thermodynamics of multicomponent fluids and its statistical mechanics basis. <i>Physical Review E</i> , 2021, 103, 032121.	0.8	1
2	Multicomponent gas transport coefficients: Alternate formulations. <i>Physical Review E</i> , 2010, 82, 051201.	0.8	4
3	Moderately dense gas transport coefficients via time correlation functions. I. General formalism. <i>Journal of Chemical Physics</i> , 1999, 111, 6909-6921.	1.2	2
4	Bound-free gas transport coefficients via the time correlation formulation based on an atomic picture. <i>Journal of Chemical Physics</i> , 1999, 110, 8533-8542.	1.2	2
5	Moderately dense gas transport coefficients via time correlation functions. II. Shear viscosity and thermal conductivity. <i>Journal of Chemical Physics</i> , 1999, 111, 6922-6931.	1.2	1
6	Complete binary collision approximation for the gas transport coefficients via the time correlation formulation. <i>Journal of Chemical Physics</i> , 1998, 109, 3452-3460.	1.2	4
7	Chain relations of reduced distribution functions and their associated correlation functions. <i>Journal of Chemical Physics</i> , 1998, 108, 706-714.	1.2	6
8	Equal reaction rates for all recombination pathways. <i>Journal of Chemical Physics</i> , 1997, 106, 1463-1466.	1.2	11
9	Comparison of positive flux operators for transition state theory using a solvable model. <i>Journal of Chemical Physics</i> , 1996, 104, 7015-7026.	1.2	16
10	A pictorial representation for multispin evolutions. <i>Concepts in Magnetic Resonance</i> , 1995, 7, 153-163.	1.3	3
11	Solvable model for inelastic collisions. <i>American Journal of Physics</i> , 1994, 62, 848-852.	0.3	2
12	The equilibrium pair distribution function of a gas: Aspects associated with the presence of bound states. <i>Journal of Chemical Physics</i> , 1993, 99, 9111-9121.	1.2	1
13	Presence of half-bound states in equilibrium: A separable potential estimate. <i>Journal of Chemical Physics</i> , 1990, 92, 2559-2571.	1.2	1
14	Equations of change with dimer formation and decay. <i>Journal of Chemical Physics</i> , 1988, 89, 5096-5114.	1.2	1
15	Simple example illustrating the different parametrizations of the Møller operator. <i>Journal of Chemical Physics</i> , 1988, 88, 6438-6447.	1.2	22
16	A comparison of local and global single Gaussian approximations to time dynamics: One-dimensional systems. <i>Journal of Chemical Physics</i> , 1987, 87, 910-920.	1.2	8
17	On the choice of phase in the CS approximation: Integral equation approach. <i>Journal of Chemical Physics</i> , 1986, 85, 4381-4391.	1.2	4
18	Viscomagnetic effect: \hbar -magnitude weighting for Ar^+N_2 . <i>Journal of Chemical Physics</i> , 1984, 81, 3482-3488.	1.2	4

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19	Internal momentum equilibration and the configurational distribution function for dilute macromolecular solutions: Rigid dumbbells in steady flows. <i>Journal of Chemical Physics</i> , 1983, 78, 1600-1606.	1.2	4
20	Reply to "Comment on "Dirac states for unit position and momentum: Phase consistency of their	1.2	0
21	Dirac states for unit position and momentum: Phase consistency of their angular momentum representations. <i>Journal of Chemical Physics</i> , 1982, 76, 3543-3546.	1.2	7
22	On the choice of phase in the CS and IOS approximation. <i>Journal of Chemical Physics</i> , 1982, 76, 3547-3552.	1.2	4
23	Interpretation of ES, CS, and IOS approximations within a translational-internal coupling scheme. IV. ES and IOS molecule-molecule cross sections. <i>Journal of Chemical Physics</i> , 1981, 74, 5572-5585.	1.2	3
24	Interpretation of ES, CS, and IOS approximations within a translational-internal coupling scheme. III. Exact and CS molecule-molecule cross sections. <i>Journal of Chemical Physics</i> , 1981, 74, 1750-1762.	1.2	2
25	Interpretation of ES, CS, and IOS approximations within a translational-internal coupling scheme. II. Application to atom-diatom kinetic cross sections. <i>Journal of Chemical Physics</i> , 1980, 72, 2445-2458.	1.2	22
26	On the contribution of angular momentum polarization to gas phase thermal conductivity. <i>Journal of Chemical Physics</i> , 1979, 70, 1075-1077.	1.2	9
27	Interpretation of ES, CS, and IOS approximations within a translational-internal coupling scheme. I. Atom-diatom collisions. <i>Journal of Chemical Physics</i> , 1979, 71, 4284-4296.	1.2	24
28	Asymptotic form of quantum momentum distributions. <i>Journal of Chemical Physics</i> , 1979, 71, 1740-1753.	1.2	4
29	Center of mass description of polymer flow: Friction approximation for the pressure tensor with antisymmetric stress. <i>Journal of Chemical Physics</i> , 1978, 68, 2477-2486.	1.2	5
30	A kinetic theory ansatz for correlated collisions. <i>Journal of Chemical Physics</i> , 1978, 68, 5118-5120.	1.2	0
31	Simplified derivation of Heller's renormalized Liouville equation. <i>Journal of Chemical Physics</i> , 1977, 66, 3845-3846.	1.2	0
32	Initial slips and transient effects in relaxation phenomena. <i>Journal of Chemical Physics</i> , 1977, 67, 5517-5524.	1.2	7
33	Symmetry of the pressure tensor in macromolecular fluids. <i>Journal of Chemical Physics</i> , 1976, 65, 3423-3426.	1.2	14
34	Quantum corrections to the momentum distribution of moderately dense Boltzmann gases. I. Smooth potentials. <i>Journal of Chemical Physics</i> , 1976, 65, 4958-4967.	1.2	19
35	Quantum corrections to the momentum distribution of moderately dense Boltzmann gases. II. Hard sphere potentials. <i>Journal of Chemical Physics</i> , 1976, 65, 4968-4978.	1.2	3
36	Differences in fluid dynamics associated with an atomic versus a molecular description of the same system. <i>Journal of Chemical Physics</i> , 1976, 65, 3407-3422.	1.2	21

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37	On different forms for the binary transition superoperator. <i>Journal of Chemical Physics</i> , 1976, 64, 5100-5103.	1.2	8
38	Differential cross section from an operator viewpoint. <i>Journal of Chemical Physics</i> , 1975, 63, 3256-3262.	1.2	20
39	Molecular scattering equations derived from the rotational invariance of wave operators. <i>Journal of Chemical Physics</i> , 1974, 61, 5250-5256.	1.2	11
40	Rotational invariance and molecular collisions. <i>Journal of Chemical Physics</i> , 1974, 61, 1151-1159.	1.2	20
41	Quantum kinetic theory of chemical recombination. <i>Journal of Chemical Physics</i> , 1974, 61, 2330-2338.	1.2	22
42	On the evaluation of kinetic theory collision integrals. II. Angular momentum coupling schemes. <i>Journal of Chemical Physics</i> , 1974, 61, 1160-1171.	1.2	15
43	Kinetic theory of dimer formation and decay. <i>Journal of Chemical Physics</i> , 1974, 61, 2320-2329.	1.2	40
44	Collisionally Uncoupled Model for the Contribution of Orientational Polarizations to Transport Properties of Dilute Gases. II. The Shear Viscosity. <i>Journal of Chemical Physics</i> , 1972, 56, 2056-2071.	1.2	27
45	On the Evaluation of Kinetic Theory Collision Integrals: Diamagnetic Diatomic Molecules. <i>Journal of Chemical Physics</i> , 1972, 57, 542-561.	1.2	95
46	Qualitative Theory of the Senftleben Effects. <i>Journal of Chemical Physics</i> , 1972, 57, 4266-4278.	1.2	31
47	Collisionally Uncoupled Model for the Contribution of Orientational Polarizations to Transport Properties of Dilute Gases. I. <i>Journal of Chemical Physics</i> , 1972, 56, 2049-2055.	1.2	13
48	Generalized Boltzmann Equation for Molecules with Internal States. <i>Journal of Chemical Physics</i> , 1971, 55, 1555-1566.	1.2	122
49	Irreducible Cartesian Tensors. II. General Formulation. <i>Journal of Mathematical Physics</i> , 1970, 11, 1003-1017.	0.5	87
50	High-Frequency Effects in the Spin Relaxation of Diatomic Gases. <i>Journal of Chemical Physics</i> , 1969, 50, 4082-4089.	1.2	18
51	Senftleben-Beenakker Effect for the Viscosity of a Dilute Gas of Diamagnetic Diatomic Molecules. <i>Journal of Chemical Physics</i> , 1967, 47, 4117-4128.	1.2	63
52	Irreversible Thermodynamics of a Fluid System with Spin. <i>Journal of Chemical Physics</i> , 1967, 46, 3163-3172.	1.2	73
53	Collision Theory of Relaxation Processes. <i>Journal of Chemical Physics</i> , 1967, 46, 3937-3940.	1.2	45
54	Thermal Conductivity of a Gas of Rotating Diamagnetic Molecules in an Applied Magnetic Field. <i>Journal of Chemical Physics</i> , 1967, 46, 2387-2398.	1.2	56

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55	Transport Properties of Gases with Rotational States. II. Journal of Chemical Physics, 1965, 43, 2276-2283.	1.2	39
56	Irreducible Cartesian Tensors. Journal of Chemical Physics, 1965, 43, 2269-2275.	1.2	142
57	Variational Methods for Solving the Boltzmann Equation. Journal of Chemical Physics, 1964, 41, 591-595.	1.2	33
58	Thermal Conductivity of a Gas with Rotational States. Journal of Chemical Physics, 1964, 41, 3185-3194.	1.2	47
59	Perturbation Variation Methods for a Quantum Boltzmann Equation. Journal of Mathematical Physics, 1964, 5, 1580-1587.	0.5	70