Jianshu Cao

List of Publications by Year in Descending Order

161 papers	6,884 citations	47 h-index	76 g-index
166 ext. papers	7,545 ext. citations	4.3 avg, IF	6.36 L-index

#	Paper	IF	Citations
161	Unusual dynamical properties of disordered polaritons in microcavities. *Physical Review B*, **2022**, 105,	3.3	6
160	Dynamical Symmetries and Symmetry-Protected Selection Rules in Periodically Driven Quantum Systems. *Physical Review Letters*, **2021**, 126, 090601	7.4	5
159	Understanding the Optimal Cooperativity of Human Glucokinase: Kinetic Resonance in Nonequilibrium Conformational Fluctuations. *Journal of Physical Chemistry Letters*, **2021**, 12, 2900-2904	6.4	
158	Universal Scalings in Two-Dimensional Anisotropic Dipolar Excitonic Systems. *Physical Review Letters*, **2021**, 127, 047402	7.4	3
157	Quantum Effects in Chemical Reactions under Polaritonic Vibrational Strong Coupling. *Journal of Physical Chemistry Letters*, **2021**, 12, 9531-9538	6.4	18
156	Quantum biology revisited. *Science Advances*, **2020**, 6, eaaz4888	14.3	133
155	Unusual Transport Properties with Noncommutative System-Bath Coupling Operators. *Journal of Physical Chemistry Letters*, **2020**, 11, 4080-4085	6.4	12
154	Magnetic field induced symmetry breaking in nonequilibrium quantum networks. *New Journal of Physics*, **2020**, 22, 083026	2.9	6
153	Temperature-Induced Catch-Slip to Slip Bond Transit in Plasmodium falciparum-Infected Erythrocytes. *Biophysical Journal*, **2020**, 118, 105-116	2.9	3
152	Steady-State Analysis of Light-Harvesting Energy Transfer Driven by Incoherent Light: From Dimers to Networks. *Journal of Physical Chemistry Letters*, **2020**, 11, 7204-7211	6.4	16
151	Absorption and Circular Dichroism Spectra of Molecular Aggregates With the Full Cumulant Expansion. *Journal of Physical Chemistry B*, **2020**, 124, 8610-8617	3.4	6
150	Correlative Dark-Field and Photoluminescence Spectroscopy of Individual Plasmon–Molecule Hybrid Nanostructures in a Strong Coupling Regime. *ACS Photonics*, **2019**, 6, 2570-2576	6.3	20
149	Discontinuities in Driven Spin-Boson Systems due to Coherent Destruction of Tunneling: Breakdown of the Floquet-Gibbs Distribution. *Physical Review Letters*, **2019**, 123, 120602	7.4	7
148	A Nonequilibrium Variational Polaron Theory to Study Quantum Heat Transport. *Journal of Physical Chemistry C*, **2019**, 123, 17196-17204	3.8	11
147	Tuning the Aharonov-Bohm effect with dephasing in nonequilibrium transport. *Physical Review B*, **2019**, 99,	3.3	9
146	Design Principles for Two-Dimensional Molecular Aggregates Using Kasha's Model: Tunable Photophysics in Near and Short-Wave Infrared. *Journal of Physical Chemistry C*, **2019**, 123, 18702-18710	3.8	22
145	Generalized Kasha's Model: T-Dependent Spectroscopy Reveals Short-Range Structures of 2D Excitonic Systems. *CheM*, **2019**, 5, 3135-3150	16.2	11

144	Generic Schemes for Single-Molecule Kinetics. 3: Self-Consistent Pathway Solutions for Nonrenewal Processes. *Journal of Physical Chemistry B*, **2018**, 122, 4601-4610	3.4	3
143	Efficiency at maximum power of a laser quantum heat engine enhanced by noise-induced coherence. *Physical Review E*, **2018**, 97, 042120	2.4	38
142	A unified stochastic formulation of dissipative quantum dynamics. I. Generalized hierarchical equations. *Journal of Chemical Physics*, **2018**, 148, 014103	3.9	40
141	A unified stochastic formulation of dissipative quantum dynamics. II. Beyond linear response of spin baths. *Journal of Chemical Physics*, **2018**, 148, 014104	3.9	34
140	Impact of the lipid bilayer on energy transfer kinetics in the photosynthetic protein LH2. *Chemical Science*, **2018**, 9, 3095-3104	9.4	15
139	Nonadiabatic Dynamics via the Symmetrical Quasi-Classical Method in the Presence of Anharmonicity. *Journal of Physical Chemistry Letters*, **2018**, 9, 319-326	6.4	28
138	Photochemical Control of Exciton Superradiance in Light-Harvesting Nanotubes. *ACS Nano*, **2018**, 12, 4556-4564	16.7	23
137	Frequency-dependent current noise in quantum heat transfer: A unified polaron calculation. *Journal of Chemical Physics*, **2018**, 148, 234104	3.9	11
136	Interfacial thermal transport with strong system-bath coupling: A phonon delocalization effect. *Physical Review B*, **2018**, 97,	3.3	9
135	Construction of Multichromophoric Spectra from Monomer Data: Applications to Resonant Energy Transfer. *Physical Review Letters*, **2017**, 118, 013001	7.4	13
134	Unifying quantum heat transfer in a nonequilibrium spin-boson model with full counting statistics. *Physical Review A*, **2017**, 95,	2.6	45
133	Generic Schemes for Single-Molecule Kinetics. 2: Information Content of the Poisson Indicator. *Journal of Physical Chemistry B*, **2017**, 121, 7750-7760	3.4	8
132	Expression dynamics and physiologically relevant functional study of STEVOR in asexual stages of Plasmodium falciparum infection. *Cellular Microbiology*, **2017**, 19, e12715	3.9	9
131	Graphene oxide inhibits malaria parasite invasion and delays parasitic growth in vitro. *Nanoscale*, **2017**, 9, 14065-14073	7.7	11
130	Conformational Nonequilibrium Enzyme Kinetics: Generalized Michaelis-Menten Equation. *Journal of Physical Chemistry Letters*, **2017**, 8, 3619-3623	6.4	21
129	Zero-temperature localization in a sub-Ohmic spin-boson model investigated by an extended hierarchy equation of motion. *Physical Review B*, **2017**, 95,	3.3	55
128	Single molecule and multiple bond characterization of catch bond associated cytoadhesion in malaria. *Scientific Reports*, **2017**, 7, 4208	4.9	9
127	Initial system-environment correlations via the transfer-tensor method. *Physical Review A*, **2017**, 96,	2.6	17

126	Quantum Diffusion on Molecular Tubes: Universal Scaling of the 1D to 2D Transition. *Physical Review Letters*, **2016**, 116, 196803	7.4	29
125	Accurate Long-Time Mixed Quantum-Classical Liouville Dynamics via the Transfer Tensor Method. *Journal of Physical Chemistry Letters*, **2016**, 7, 4809-4814	6.4	31
124	Dynamical signatures of molecular symmetries in nonequilibrium quantum transport. *Scientific Reports*, **2016**, 6, 28027	4.9	33
123	How two-dimensional brick layer J-aggregates differ from linear ones: Excitonic properties and line broadening mechanisms. *Journal of Chemical Physics*, **2016**, 144, 134310	3.9	9
122	Non-canonical distribution and non-equilibrium transport beyond weak system-bath coupling regime: A polaron transformation approach. *Frontiers of Physics*, **2016**, 11, 1	3.7	41
121	Evolution of the Single-Nanocrystal Photoluminescence Linewidth with Size and Shell: Implications for Exciton-Phonon Coupling and the Optimization of Spectral Linewidths. *Nano Letters*, **2016**, 16, 289-96	11.5	109
120	Polaron effects on the performance of light-harvesting systems: a quantum heat engine perspective. *New Journal of Physics*, **2016**, 18, 023003	2.9	43
119	Efficient simulation of non-Markovian system-environment interaction. *New Journal of Physics*, **2016**, 18, 023035	2.9	48
118	Quantum transport ind-dimensional lattices. *New Journal of Physics*, **2016**, 18, 043044	2.9	17
117	Transitions in genetic toggle switches driven by dynamic disorder in rate coefficients. *Journal of Chemical Physics*, **2016**, 144, 175104	3.9	6
116	Directed Self-Assembly of sub-10 nm Particles: Role of Driving Forces and Template Geometry in Packing and Ordering. *Langmuir*, **2015**, 31, 8548-57	4	16
115	Minimal Model of Quantum Kinetic Clusters for the Energy-Transfer Network of a Light-Harvesting Protein Complex. *Journal of Physical Chemistry Letters*, **2015**, 6, 1240-5	6.4	13
114	A continued fraction resummation form of bath relaxation effect in the spin-boson model. *Journal of Chemical Physics*, **2015**, 142, 084103	3.9	15
113	Förster resonance energy transfer, absorption and emission spectra in multichromophoric systems. I. Full cumulant expansions and system-bath entanglement. *Journal of Chemical Physics*, **2015**, 142, 094106	3.9	60
112	Förster resonance energy transfer, absorption and emission spectra in multichromophoric systems. III. Exact stochastic path integral evaluation. *Journal of Chemical Physics*, **2015**, 142, 094108	3.9	41
111	Nonequilibrium Energy Transfer at Nanoscale: A Unified Theory from Weak to Strong Coupling. *Scientific Reports*, **2015**, 5, 11787	4.9	65
110	Förster resonance energy transfer, absorption and emission spectra in multichromophoric systems. II. Hybrid cumulant expansion. *Journal of Chemical Physics*, **2015**, 142, 094107	3.9	28
109	Coherent quantum transport in disordered systems: A unified polaron treatment of hopping and band-like transport. *Journal of Chemical Physics*, **2015**, 142, 164103	3.9	46

108	Stiffening of Red Blood Cells Induced by Cytoskeleton Disorders: A Joint Theory-Experiment Study. *Biophysical Journal*, **2015**, 109, 2287-94	2.9	16
107	Large Area Directed Self-Assembly of Sub-10 nm Particles with Single Particle Positioning Resolution. *Nano Letters*, **2015**, 15, 6066-70	11.5	31
106	Coherent Exciton Dynamics in the Presence of Underdamped Vibrations. *Journal of Physical Chemistry Letters*, **2015**, 6, 627-32	6.4	53
105	Excitonic effects from geometric order and disorder explain broadband optical absorption in eumelanin. *Nature Communications*, **2014**, 5, 3859	17.4	106
104	Correlated Local Bending of a DNA Double Helix and Its Effect on DNA Flexibility in the Sub-Persistence-Length Regime. *Journal of Physical Chemistry Letters*, **2014**, 5, 2868-73	6.4	12
103	Scaling relations and optimization of excitonic energy transfer rates between one-dimensional molecular aggregates. *Journal of Physical Chemistry B*, **2014**, 118, 7827-34	3.4	14
102	Non-Markovian dynamical maps: numerical processing of open quantum trajectories. *Physical Review Letters*, **2014**, 112, 110401	7.4	84
101	Optimal tunneling enhances the quantum photovoltaic effect in double quantum dots. *New Journal of Physics*, **2014**, 16, 045019	2.9	12
100	Coherent quantum transport in disordered systems: II. Temperature dependence of carrier diffusion coefficients from the time-dependent wavepacket diffusion method. *New Journal of Physics*, **2014**, 16, 045009	2.9	25
99	Shape transition of unstrained flattest single-walled carbon nanotubes under pressure. *Journal of Applied Physics*, **2014**, 115, 044512	2.5	4
98	Spectrins in axonal cytoskeletons: dynamics revealed by extensions and fluctuations. *Journal of Chemical Physics*, **2014**, 141, 015101	3.9	8
97	Higher-order kinetic expansion of quantum dissipative dynamics: mapping quantum networks to kinetic networks. *Journal of Chemical Physics*, **2013**, 139, 044102	3.9	24
96	Generic mechanism of optimal energy transfer efficiency: a scaling theory of the mean first-passage time in exciton systems. *Physical Review Letters*, **2013**, 110, 200402	7.4	58
95	Universality of Poisson indicator and Fano factor of transport event statistics in ion channels and enzyme kinetics. *Journal of Physical Chemistry B*, **2013**, 117, 503-9	3.4	29
94	Modeling spatial correlation of DNA deformation: DNA allostery in protein binding. *Journal of Physical Chemistry B*, **2013**, 117, 13378-87	3.4	16
93	Optimal thermal bath for robust excitation energy transfer in disordered light-harvesting complex 2 of purple bacteria. *New Journal of Physics*, **2013**, 15, 125030	2.9	26
92	Coherent quantum transport in disordered systems: I. The influence of dephasing on the transport properties and absorption spectra on one-dimensional systems. *New Journal of Physics*, **2013**, 15, 085010	2.9	80
91	A hybrid stochastic hierarchy equations of motion approach to treat the low temperature dynamics of non-Markovian open quantum systems. *Journal of Chemical Physics*, **2013**, 139, 134106	3.9	89

90	Optimal fold symmetry of LH2 rings on a photosynthetic membrane. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 8537-42	11.5	49
89	Probing the cytoadherence of malaria infected red blood cells under flow. *PLoS ONE*, **2013**, 8, e64763	3.7	28
88	Reaction Event Counting Statistics of Biopolymer Reaction Systems with Dynamic Heterogeneity. *Journal of Chemical Theory and Computation*, **2012**, 8, 1415-25	6.4	4
87	Accuracy of second order perturbation theory in the polaron and variational polaron frames. *Journal of Chemical Physics*, **2012**, 136, 204120	3.9	76
86	Equilibrium-reduced density matrix formulation: Influence of noise, disorder, and temperature on localization in excitonic systems. *Physical Review B*, **2012**, 85,	3.3	72
85	Efficient energy transfer in light-harvesting systems: quantum-classical comparison, flux network, and robustness analysis. *Journal of Chemical Physics*, **2012**, 137, 174111	3.9	67
84	Noncanonical statistics of a spin-boson model: theory and exact Monte Carlo simulations. *Physical Review E*, **2012**, 86, 021109	2.4	36
83	Quantitative interpretation of the randomness in single enzyme turnover times. *Biophysical Journal* , **2011**, 101, 519-24	2.9	30
82	Bistability of cell adhesion in shear flow. *Biophysical Journal*, **2011**, 101, 1032-40	2.9	16
81	Michaelis-Menten equation and detailed balance in enzymatic networks. *Journal of Physical Chemistry B*, **2011**, 115, 5493-8	3.4	58
80	Efficient Energy Transfer in Light-Harvesting Systems, III: The Influence of the Eighth Bacteriochlorophyll on the Dynamics and Efficiency in FMO. *Journal of Physical Chemistry Letters*, **2011**, 2, 3045-3052	6.4	112
79	Generalized Michaelis□Menten Equation for Conformation-Modulated Monomeric Enzymes. *Advances in Chemical Physics*, **2011**, 329-365		8
78	Stochastic resonance of quantum discord. *Physical Review A*, **2011**, 84,	2.6	7
77	Noise-induced dynamic symmetry breaking and stochastic transitions in ABA molecules: I. Classification of vibrational modes. *Journal of Physical Chemistry B*, **2010**, 114, 6549-60	3.4	2
76	Optimal efficiency of self-assembling light-harvesting arrays. *Journal of Physical Chemistry B*, **2010**, 114, 16189-97	3.4	19
75	Efficient energy transfer in light-harvesting systems, I: optimal temperature, reorganization energy and spatial□temporal correlations. *New Journal of Physics*, **2010**, 12, 105012	2.9	163
74	Noise-induced dynamic symmetry breaking and stochastic transitions in ABA molecules: II. Symmetric□antisymmetric normal mode switching. *Chemical Physics*, **2010**, 370, 258-269	2.3	3
73	The influence of dissipation on the quantum-classical correspondence: stability of stochastic trajectories. *Journal of Chemical Physics*, **2009**, 130, 234107	3.9	13

72	Optimization of exciton trapping in energy transfer processes. *Journal of Physical Chemistry A*, **2009**, 113, 13825-38	2.8	202
71	Generic schemes for single-molecule kinetics. 1: Self-consistent pathway solutions for renewal processes. *Journal of Physical Chemistry B*, **2008**, 112, 12867-80	3.4	89
70	Suppression of photon-echo as a signature of chaos. *Journal of Physical Chemistry B*, **2008**, 112, 15999-6007	3.4	4
69	1S5-5 Generic models for single molecule biological processes : Generic models for single molecule biological processes(1S5 Linking single molecule spectroscopy and energy landscape perspectives,The 46th Annual Meeting of the Biophysical Society of Japan). *Seibutsu Butsuri*, **2008**, 48, S5	0	
68	Memory Effects in Single-Molecule Time Series **2008**, 245-285		
67	Extracting the number of quantum dots in a microenvironment from ensemble fluorescence intensity fluctuations. *Physical Review B*, **2007**, 75,	3.3	11
66	Correlations in single molecule photon statistics: renewal indicator. *Journal of Physical Chemistry B*, **2006**, 110, 19040-3	3.4	32
65	Quantum recurrence from a semiclassical resummation. *Chemical Physics*, **2006**, 322, 41-45	2.3	12
64	Ground-state shapes and structures of colloidal domains. *Physica A: Statistical Mechanics and Its Applications*, **2006**, 371, 249-255	3.3	13
63	Stability analysis of three-dimensional colloidal domains: quadratic fluctuations. *Journal of Physical Chemistry B*, **2005**, 109, 21342-9	3.4	8
62	Phase and orientational ordering of ABA tri-block co-polymers guest in a quenched host of low molecular weight rod molecules. *Chemical Physics Letters*, **2005**, 408, 139-144	2.5	
61	Quantum-classical correspondence in response theory. *Physical Review Letters*, **2005**, 95, 180405	7.4	52
60	High-order mode-coupling theory for the colloidal glass transition. *Physical Review Letters*, **2005**, 95, 078301	7.4	36
59	Nondivergent classical response functions from uncertainty principle: quasiperiodic systems. *Journal of Chemical Physics*, **2005**, 122, 024109	3.9	27
58	Structural arrest transitions in fluids described by two Yukawa potentials. *Physical Review E*, **2004**, 70, 050401	2.4	52
57	Phase and orientational ordering of low molecular weight rod molecules in a quenched liquid crystalline polymer matrix with mobile side chains. *Journal of Chemical Physics*, **2004**, 120, 11316-26	3.9	2
56	Single molecule kinetics. II. Numerical Bayesian approach. *Journal of Chemical Physics*, **2004**, 121, 6373-9	3.9	33
55	Single molecule kinetics. I. Theoretical analysis of indicators. *Journal of Chemical Physics*, **2004**, 121, 6361-72	3.9	62

54	Orientational ordering of short LC rods in an anisotropic liquid crystalline polymer glass. *Chemical Physics Letters*, **2004**, 389, 198-203	2.5	2
53	East Model: Basis Set Expansion, Mode Coupling, and Irreducible Memory Kernels *Journal of Physical Chemistry B*, **2004**, 108, 6796-6808	3.4	4
52	First-principle path integral study of DNA under hydrodynamic flows. *Chemical Physics Letters*, **2003**, 377, 399-405	2.5	6
51	Gaussian factorization of hydrodynamic correlation functions and mode-coupling memory kernels. *Physical Review E*, **2003**, 67, 061116	2.4	9
50	Direct measurements of memory effects in single-molecule kinetics. *Journal of Chemical Physics*, **2002**, 117, 10996-11009	3.9	90
49	Calculations of nonlinear spectra of liquid Xe. I. Third-order Raman response. *Journal of Chemical Physics*, **2002**, 116, 3739-3759	3.9	31
48	Single-molecule dynamics of semiflexible Gaussian chains. *Journal of Chemical Physics*, **2002**, 117, 11010-11023	3.9	21
47	Fourth-order quantum master equation and its Markovian bath limit. *Journal of Chemical Physics*, **2002**, 116, 2705-2717	3.9	74
46	Spectral analysis of electron transfer kinetics. II. *Journal of Chemical Physics*, **2002**, 117, 3822-3836	3.9	15
45	Optimal Quantum Control in Dissipative Environments: General Formalism and Perturbative Limits. *ACS Symposium Series*, **2002**, 132-143	0.4	
44	On the Temperature Dependence of Molecular Line Shapes Due to Linearly Coupled Phonon Bands *Journal of Physical Chemistry B*, **2002**, 106, 8313-8317	3.4	30
43	Calculations of nonlinear spectra of liquid Xe. II. Fifth-order Raman response. *Journal of Chemical Physics*, **2002**, 116, 3760-3776	3.9	46
42	Linear and nonlinear response functions of the Morse oscillator: Classical divergence and the uncertainty principle. *Journal of Chemical Physics*, **2001**, 115, 5381-5391	3.9	55
41	Nonadiabatic instanton calculation of multistate electron transfer reaction rate: Interference effects in three and four states systems. *Journal of Chemical Physics*, **2001**, 114, 9959-9968	3.9	23
40	Single molecule waiting time distribution functions in quantum processes. *Journal of Chemical Physics*, **2001**, 114, 5137-5140	3.9	6
39	Two-Event Echos in Single-Molecule Kinetics: A Signature of Conformational Fluctuations *Journal of Physical Chemistry B*, **2001**, 105, 6536-6549	3.4	69
38	Event-averaged measurements of single-molecule kinetics. *Chemical Physics Letters*, **2000**, 327, 38-44	2.5	113
37	Molecular pulses: Population inversion with positively chirped short pulses. *Journal of Chemical Physics*, **2000**, 113, 1898-1909	3.9	57

36	Effects of bath relaxation on dissipative two-state dynamics. *Journal of Chemical Physics*, **2000**, 112, 6719-6724	3.9	30
35	Spectral analysis of electron transfer kinetics. I. Symmetric reactions. *Journal of Chemical Physics*, **2000**, 112, 4716-4722	3.9	22
34	Ultrafast extended x-ray absorption fine structure (EXAFS)Theoretical considerations. *Journal of Chemical Physics*, **1999**, 111, 6238-6246	3.9	31
33	Using time-dependent rate equations to describe chirped pulse excitation in condensed phases. *Chemical Physics Letters*, **1999**, 302, 405-410	2.5	30
32	Electronic Coherence in Mixed-Valence Systems:Spectral Analysis. *Journal of Physical Chemistry A*, **1999**, 103, 9460-9468	2.8	24
31	Steepest Descent Path Study of Electron-Transfer Reactions *Journal of Physical Chemistry A*, **1999**, 103, 10571-10579	2.8	4
30	Ultrafast X-ray Diffraction Theory. *Journal of Physical Chemistry A*, **1998**, 102, 9523-9530	2.8	67
29	Intrapulse Dynamical Effects in Multiphoton Processes: Theoretical Analysis. *Journal of Physical Chemistry A*, **1998**, 102, 4284-4290	2.8	23
28	Chirped pulse enhancement of multiphoton absorption in molecular iodine. *Journal of Chemical Physics*, **1998**, 108, 2309-2313	3.9	64
27	Molecular Pulsefor Total Inversion of Electronic State Population. *Physical Review Letters*, **1998**, 80, 1406-1409	7.4	146
26	Detecting wave packet motion in pumpprobe experiments: Theoretical analysis. *Journal of Chemical Physics*, **1997**, 106, 5062-5072	3.9	31
25	A unified framework for quantum activated rate processes. II. The nonadiabatic limit. *Journal of Chemical Physics*, **1997**, 106, 1769-1779	3.9	59
24	A phase-space study of BlochRedfield theory. *Journal of Chemical Physics*, **1997**, 107, 3204-3209	3.9	72
23	Quantum control of dissipative systems: Exact solutions. *Journal of Chemical Physics*, **1997**, 106, 5239-5248	3.9	39
22	A simple physical picture for quantum control of wave packet localization. *Journal of Chemical Physics*, **1997**, 107, 1441-1450	3.9	47
21	Ultrafast X-ray and Electron Diffraction: Theoretical Considerations. *Journal of Physical Chemistry A*, **1997**, 101, 8743-8761	2.8	65
20	Semiclassical approximations to quantum dynamical time correlation functions. *Journal of Chemical Physics*, **1996**, 104, 273-285	3.9	73
19	A novel method for simulating quantum dissipative systems. *Journal of Chemical Physics*, **1996**, 104, 4189-4197	3.9	76

18	A theory for the quantum activated rate constant in dissipative systems. *Chemical Physics Letters*, **1996**, 261, 111-116	2.5	4
17	A unified framework for quantum activated rate processes. I. General theory. *Journal of Chemical Physics*, **1996**, 105, 6856-6870	3.9	77
16	A theory for time correlation functions in liquids. *Journal of Chemical Physics*, **1995**, 103, 4211-4220	3.9	33
15	The computation of electron transfer rates: The nonadiabatic instanton solution. *Journal of Chemical Physics*, **1995**, 103, 1391-1399	3.9	46
14	On the Feynman path centroid density as a phase space distribution in quantum statistical mechanics. *Journal of Chemical Physics*, **1995**, 103, 5018-5026	3.9	15
13	Modeling physical systems by effective harmonic oscillators: The optimized quadratic approximation. *Journal of Chemical Physics*, **1995**, 102, 3337-3348	3.9	41
12	The formulation of quantum statistical mechanics based on the Feynman path centroid density. III. Phase space formalism and analysis of centroid molecular dynamics. *Journal of Chemical Physics*, **1994**, 101, 6157-6167	3.9	209
11	The formulation of quantum statistical mechanics based on the Feynman path centroid density. I. Equilibrium properties. *Journal of Chemical Physics*, **1994**, 100, 5093-5105	3.9	273
10	The formulation of quantum statistical mechanics based on the Feynman path centroid density. II. Dynamical properties. *Journal of Chemical Physics*, **1994**, 100, 5106-5117	3.9	399
9	The formulation of quantum statistical mechanics based on the Feynman path centroid density. V. Quantum instantaneous normal mode theory of liquids. *Journal of Chemical Physics*, **1994**, 101, 6184-6192	3.9	107
8	The formulation of quantum statistical mechanics based on the Feynman path centroid density. IV. Algorithms for centroid molecular dynamics. *Journal of Chemical Physics*, **1994**, 101, 6168-6183	3.9	268
7	Theory and simulation of polar and nonpolar polarizable fluids. *Journal of Chemical Physics*, **1993**, 99, 6998-7011	3.9	36
6	A new perspective on quantum time correlation functions. *Journal of Chemical Physics*, **1993**, 99, 10070-10073	3.9	204
5	Theory of polarizable liquid crystals: Optical birefringence. *Journal of Chemical Physics*, **1993**, 99, 2213-2220	3.9	9
4	Monte Carlo methods for accelerating barrier crossing: Anti-force-bias and variable step algorithms. *Journal of Chemical Physics*, **1990**, 92, 1980-1985	3.9	38
3	Low-temperature variational approximation for the Feynman quantum propagator and its application to the simulation of quantum systems. *Journal of Chemical Physics*, **1990**, 92, 7531-7539	3.9	56
2	On energy estimators in path integral Monte Carlo simulations: Dependence of accuracy on algorithm. *Journal of Chemical Physics*, **1989**, 91, 6359-6366	3.9	94
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