

Raymond Kapral

List of Publications by Year in descending order

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165
papers

8,995
citations

57758

44
h-index

46799

89
g-index

173
all docs

173
docs citations

173
times ranked

4293
citing authors

#	ARTICLE	IF	CITATIONS
1	Constrained reaction coordinate dynamics for the simulation of rare events. <i>Chemical Physics Letters</i> , 1989, 156, 472-477.	2.6	840
2	Mesoscopic model for solvent dynamics. <i>Journal of Chemical Physics</i> , 1999, 110, 8605-8613.	3.0	835
3	Mixed quantum-classical dynamics. <i>Journal of Chemical Physics</i> , 1999, 110, 8919-8929.	3.0	579
4	Solute molecular dynamics in a mesoscale solvent. <i>Journal of Chemical Physics</i> , 2000, 112, 7260-7269.	3.0	397
5	Chemically Powered Nanodimers. <i>Physical Review Letters</i> , 2007, 98, 150603.	7.8	244
6	The 2020 motile active matter roadmap. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 193001.	1.8	242
7	PROGRESS IN THE THEORY OF MIXED QUANTUM-CLASSICAL DYNAMICS. <i>Annual Review of Physical Chemistry</i> , 2006, 57, 129-157.	10.8	239
8	Constrained molecular dynamics and the mean potential for an ion pair in a polar solvent. <i>Chemical Physics</i> , 1989, 129, 241-251.	1.9	234
9	Catalytic Nanomotors: Self-Propelled Sphere Dimers. <i>Small</i> , 2010, 6, 565-572.	10.0	217
10	Dynamics of ion pair interconversion in a polar solvent. <i>Journal of Chemical Physics</i> , 1990, 93, 7137-7147.	3.0	179
11	Perspective: Nanomotors without moving parts that propel themselves in solution. <i>Journal of Chemical Physics</i> , 2013, 138, 020901.	3.0	156
12	Blue Moon Sampling, Vectorial Reaction Coordinates, and Unbiased Constrained Dynamics. <i>ChemPhysChem</i> , 2005, 6, 1809-1814.	2.1	151
13	Statistical mechanics of quantum-classical systems. <i>Journal of Chemical Physics</i> , 2001, 115, 5805-5815.	3.0	119
14	Quantum-classical Liouville dynamics in the mapping basis. <i>Journal of Chemical Physics</i> , 2008, 129, 084102.	3.0	119
15	Molecular dynamics study of adiabatic proton transfer reactions in solution. <i>Journal of Chemical Physics</i> , 1992, 97, 378-388.	3.0	111
16	Quantum-classical Liouville dynamics of nonadiabatic proton transfer. <i>Journal of Chemical Physics</i> , 2005, 122, 244505.	3.0	103
17	Trotter-Based Simulation of Quantum-Classical Dynamics. <i>Journal of Physical Chemistry B</i> , 2008, 112, 424-432.	2.6	94
18	Stochastic trajectory simulation of iodine recombination in liquids. <i>Journal of Chemical Physics</i> , 1980, 72, 177-188.	3.0	90

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19	Nonadiabatic dynamics in open quantum-classical systems: Forward-backward trajectory solution. <i>Journal of Chemical Physics</i> , 2012, 137, 22A507.	3.0	90
20	Surface-hopping dynamics of a spin-boson system. <i>Journal of Chemical Physics</i> , 2002, 116, 2346-2353.	3.0	89
21	Hydrodynamic collective effects of active protein machines in solution and lipid bilayers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3639-44.	7.1	85
22	Kinetic Theory of Chemical Reactions in Liquids. <i>Advances in Chemical Physics</i> , 2007, , 71-181.	0.3	80
23	Chemistry in Motion: Tiny Synthetic Motors. <i>Accounts of Chemical Research</i> , 2014, 47, 3504-3511.	15.6	77
24	Quantum dynamics in open quantum-classical systems. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 073201.	1.8	75
25	Phase transformation kinetics in finite inhomogeneously nucleated systems. <i>Journal of Chemical Physics</i> , 1989, 91, 7146-7152.	3.0	74
26	Sequential short-time propagation of quantum-classical dynamics. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 9069-9076.	1.8	73
27	Design of chemically propelled nanodimer motors. <i>Journal of Chemical Physics</i> , 2008, 128, 164518.	3.0	73
28	Analysis of the forward-backward trajectory solution for the mixed quantum-classical Liouville equation. <i>Journal of Chemical Physics</i> , 2013, 138, 134110.	3.0	65
29	Collective dynamics of self-propelled sphere-dimer motors. <i>Physical Review E</i> , 2012, 85, 026121.	2.1	64
30	Microscopic boundary layer effects and rough sphere rotation. <i>Journal of Chemical Physics</i> , 1977, 67, 3256-3267.	3.0	63
31	Synchronization Defects and Broken Symmetry in Spiral Waves. <i>Physical Review Letters</i> , 1998, 80, 873-876.	7.8	61
32	Diffusion-controlled processes among partially absorbing stationary sinks. <i>Journal of Statistical Physics</i> , 1979, 20, 25-56.	1.2	60
33	Simulating quantum dynamics in classical environments. <i>Theoretical Chemistry Accounts</i> , 2003, 110, 49-58.	1.4	60
34	Analysis of the quantum-classical Liouville equation in the mapping basis. <i>Journal of Chemical Physics</i> , 2010, 133, 134115.	3.0	60
35	Mesoscopic model for diffusion-influenced reaction dynamics. <i>Journal of Chemical Physics</i> , 2004, 120, 8262-8270.	3.0	57
36	Biscala chaos in propagating fronts. <i>Physical Review E</i> , 1995, 52, 4724-4735.	2.1	53

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37	Chemically Propelled Motors Navigate Chemical Patterns. <i>Advanced Science</i> , 2018, 5, 1800028.	11.2	53
38	Phoretic self-propulsion: a mesoscopic description of reaction dynamics that powers motion. <i>Nanoscale</i> , 2013, 5, 1337.	5.6	52
39	Synthetic Nanomotors: Working Together through Chemistry. <i>Accounts of Chemical Research</i> , 2018, 51, 2355-2364.	15.6	49
40	Catalytic dimer nanomotors: continuum theory and microscopic dynamics. <i>Soft Matter</i> , 2015, 11, 3149-3158.	2.7	48
41	Reactive multiparticle collision dynamics. <i>Computer Physics Communications</i> , 2008, 179, 132-139.	7.5	46
42	Mesoscale modeling of molecular machines: Cyclic dynamics and hydrodynamical fluctuations. <i>Physical Review E</i> , 2008, 77, 050901.	2.1	45
43	Dynamics of self-propelled nanomotors in chemically active media. <i>Journal of Chemical Physics</i> , 2011, 135, 024509.	3.0	45
44	Swimming upstream: self-propelled nanodimer motors in a flow. <i>Soft Matter</i> , 2010, 6, 756-761.	2.7	44
45	Many-body dynamics of chemically propelled nanomotors. <i>Journal of Chemical Physics</i> , 2017, 147, 064910.	3.0	42
46	Kinetic theory of reactive pair dynamics in liquids. <i>Journal of Chemical Physics</i> , 1978, 69, 3685-3696.	3.0	41
47	Internal Relaxation in Chemically Reacting Fluids. <i>Journal of Chemical Physics</i> , 1972, 56, 1842-1847.	3.0	39
48	On the microscopic origin of Stokes's law. <i>Journal of Chemical Physics</i> , 1980, 73, 5244-5253.	3.0	39
49	Quantum-classical dynamics of nonadiabatic chemical reactions. <i>Journal of Chemical Physics</i> , 2003, 118, 8566-8575.	3.0	38
50	Slow manifold structure and the emergence of mixed-mode oscillations. <i>Journal of Chemical Physics</i> , 1997, 107, 2881-2889.	3.0	37
51	Non-Adiabatic Dynamics in Mixed Quantum-Classical Systems. <i>Journal of Statistical Physics</i> , 2000, 101, 225-242.	1.2	36
52	Chemotactic and hydrodynamic effects on collective dynamics of self-diffusiophoretic Janus motors. <i>New Journal of Physics</i> , 2017, 19, 125003.	2.9	36
53	Coarse-grain model for lipid bilayer self-assembly and dynamics: Multiparticle collision description of the solvent. <i>Journal of Chemical Physics</i> , 2012, 137, 055101.	3.0	35
54	Activation free energy for proton transfer in solution. <i>Chemical Physics</i> , 1994, 180, 181-189.	1.9	34

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55	Molecular crowding and protein enzymatic dynamics. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6755.	2.8	34
56	Fluctuating chemohydrodynamics and the stochastic motion of self-diffusiophoretic particles. <i>Journal of Chemical Physics</i> , 2018, 148, 134104.	3.0	34
57	Effect of static correlations on the pair friction coefficient. <i>Journal of Chemical Physics</i> , 1980, 73, 5254-5258.	3.0	33
58	Dynamics of chemically powered nanodimer motors subject to an external force. <i>Journal of Chemical Physics</i> , 2009, 131, 024113.	3.0	33
59	Ångström-scale chemically powered motors. <i>Europhysics Letters</i> , 2014, 106, 30004.	2.0	33
60	Transitions to Line-Defect Turbulence in Complex Oscillatory Media. <i>Physical Review Letters</i> , 1999, 83, 1878-1881.	7.8	32
61	Defect-Mediated Turbulence in Systems with Local Deterministic Chaos. <i>Physical Review Letters</i> , 2003, 91, 058303.	7.8	32
62	Ring closure dynamics for a chemically active polymer. <i>Soft Matter</i> , 2014, 10, 9577-9584.	2.7	32
63	Nonadiabatic quantum-classical reaction rates with quantum equilibrium structure. <i>Journal of Chemical Physics</i> , 2005, 123, 194108.	3.0	31
64	A microscopic model for chemically-powered Janus motors. <i>Soft Matter</i> , 2016, 12, 5581-5589.	2.7	31
65	Kinetic theory of chemical reactions in dense fluids. <i>Journal of Chemical Physics</i> , 1978, 68, 1903-1912.	3.0	30
66	Quantum-classical Liouville dynamics of proton and deuteron transfer rates in a solvated hydrogen-bonded complex. <i>Journal of Chemical Physics</i> , 2008, 128, 164520.	3.0	30
67	A mesoscopic model for protein enzymatic dynamics in solution. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 10527.	2.8	29
68	Interaction of a Chemically Propelled Nanomotor with a Chemical Wave. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10165-10169.	13.8	29
69	Dynamics of proton transfer in mesoscopic clusters. <i>Journal of Chemical Physics</i> , 1996, 104, 4581-4590.	3.0	27
70	Emergence of quantum-classical dynamics in an open quantum environment. <i>Journal of Chemical Physics</i> , 2002, 117, 7852-7863.	3.0	27
71	Filament-Induced Surface Spiral Turbulence in Three-Dimensional Excitable Media. <i>Physical Review Letters</i> , 2008, 101, 208302.	7.8	27
72	Transition rates in a bistable system driven by external dichotomous noise. <i>Journal of Chemical Physics</i> , 1988, 88, 7468-7477.	3.0	26

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73	Kinetic theory derivation of a pair configuration space diffusion equation. <i>Journal of Chemical Physics</i> , 1978, 69, 4962-4975.	3.0	25
74	Stirring a fluid at low Reynolds numbers: Hydrodynamic collective effects of active proteins in biological cells. <i>Physica D: Nonlinear Phenomena</i> , 2016, 318-319, 100-104.	2.8	25
75	Direct simulation of dichotomous noise-induced transitions in a bistable system. <i>Journal of Chemical Physics</i> , 1989, 90, 2453-2459.	3.0	24
76	Effects of molecular fluctuations on chemical oscillations and chaos. <i>Journal of Chemical Physics</i> , 1994, 100, 5936-5948.	3.0	24
77	Communication: Mechanochemical fluctuation theorem and thermodynamics of self-phoretic motors. <i>Journal of Chemical Physics</i> , 2017, 147, 211101.	3.0	24
78	Diffusiophoretically induced interactions between chemically active and inert particles. <i>Soft Matter</i> , 2018, 14, 6043-6057.	2.7	24
79	Transport properties of quantum-classical systems. <i>Journal of Chemical Physics</i> , 2005, 122, 214105.	3.0	23
80	Self-Propelled Polymer Nanomotors. <i>ChemPhysChem</i> , 2009, 10, 770-773.	2.1	23
81	Coiling and Supercoiling of Vortex Filaments in Oscillatory Media. <i>Physical Review Letters</i> , 1998, 80, 5671-5674.	7.8	22
82	Analysis of geometric phase effects in the quantum-classical Liouville formalism. <i>Journal of Chemical Physics</i> , 2014, 140, 084104.	3.0	22
83	Nonadiabatic reaction rates for dissipative quantum-classical systems. <i>Journal of Chemical Physics</i> , 2003, 119, 12776-12783.	3.0	21
84	Microscopic and continuum descriptions of Janus motor fluid flow fields. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20160140.	3.4	21
85	Mesoscopic Multiparticle Collision Dynamics of Reaction-Diffusion Fronts. <i>Journal of Physical Chemistry B</i> , 2005, 109, 21300-21304.	2.6	20
86	Quantum bath effects on nonadiabatic reaction rates. <i>Chemical Physics Letters</i> , 2006, 423, 76-80.	2.6	20
87	Analysis of kinetic isotope effects for nonadiabatic reactions. <i>Journal of Chemical Physics</i> , 2006, 125, 084509.	3.0	20
88	Macromolecular dynamics in crowded environments. <i>Journal of Chemical Physics</i> , 2010, 132, 104902.	3.0	20
89	Rotational Relaxation in Dilute Gas Mixtures. <i>Journal of Chemical Physics</i> , 1972, 57, 3421-3426.	3.0	19
90	Microscopic theory of condensed phase chemical reactions. II. Configuration space equations. <i>Journal of Chemical Physics</i> , 1980, 72, 1844-1850.	3.0	19

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91	Mesoscopic dynamics of diffusion-influenced enzyme kinetics. <i>Journal of Chemical Physics</i> , 2011, 134, 044503.	3.0	19
92	Coarse-grain simulations of active molecular machines in lipid bilayers. <i>Journal of Chemical Physics</i> , 2013, 138, 195101.	3.0	19
93	Thermodynamics and statistical mechanics of chemically powered synthetic nanomotors. <i>Advances in Physics: X</i> , 2019, 4, 1602480.	4.1	19
94	Mode coupling description of dynamics in dilute polymer solutions. <i>Journal of Chemical Physics</i> , 1976, 64, 539-545.	3.0	18
95	Kinetic theory of chemical reactions in liquids. II. Spatial nonequilibrium effects for a reversible reaction. <i>Journal of Chemical Physics</i> , 1978, 69, 2811.	3.0	18
96	Microscopic theory of condensed phase chemical reactions. I. Pair phase space kinetic equation. <i>Journal of Chemical Physics</i> , 1980, 72, 1830-1843.	3.0	18
97	Projected dynamics: Analysis of a chemical reaction model. <i>Journal of Chemical Physics</i> , 1989, 91, 5528-5543.	3.0	18
98	Ionization reactions of ion complexes in mesoscopic water clusters. <i>Journal of Chemical Physics</i> , 1999, 111, 10183-10191.	3.0	18
99	Dynamics of Janus motors with microscopically reversible kinetics. <i>Journal of Chemical Physics</i> , 2018, 149, 024904.	3.0	18
100	Kinetic theory of the hydrodynamic interaction between two particles. <i>Journal of Chemical Physics</i> , 1981, 74, 2494-2504.	3.0	17
101	Proton transfer in mesoscopic, molecular clusters. <i>Journal of Chemical Physics</i> , 1994, 101, 10908-10914.	3.0	17
102	Diffusion in systems crowded by active force-dipole molecules. <i>Soft Matter</i> , 2017, 13, 3741-3749.	2.7	17
103	From single particle motion to collective dynamics in Janus motor systems. <i>Journal of Chemical Physics</i> , 2019, 150, 124110.	3.0	17
104	Diffusion-influenced reactions and normal solutions of the Boltzmann equation. <i>Journal of Chemical Physics</i> , 1981, 75, 915-920.	3.0	15
105	Stochastic dynamics of the cubic map: A study of noise-induced transition phenomena. <i>Journal of Statistical Physics</i> , 1983, 33, 341-370.	1.2	15
106	SPIRAL WAVES IN MEDIA WITH COMPLEX-EXCITABLE DYNAMICS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1999, 09, 2243-2247.	1.7	15
107	Solvation and proton transfer in polar molecule nanoclusters. <i>Journal of Chemical Physics</i> , 2006, 125, 234309.	3.0	15
108	Self-propelled nanodimer bound state pairs. <i>Journal of Chemical Physics</i> , 2010, 133, 204505.	3.0	15

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109	Forwardâ€“backward solution of quantum-classical Liouville equation in the adiabatic mapping basis. <i>Molecular Physics</i> , 2013, 111, 3546-3554.	1.7	15
110	A stochastic theory of chemical reaction rates. I. Formalism. <i>Journal of Statistical Physics</i> , 1989, 56, 879-893.	1.2	14
111	Mixing and segregation in binary polar-molecule clusters. <i>Journal of Chemical Physics</i> , 1998, 109, 6844-6853.	3.0	14
112	Surface-hopping dynamics and decoherence with quantum equilibrium structure. <i>Journal of Chemical Physics</i> , 2008, 128, 164110.	3.0	14
113	Modeling of solvent flow effects in enzyme catalysis under physiological conditions. <i>Journal of Chemical Physics</i> , 2012, 136, 205101.	3.0	14
114	Ring dynamics and percolation in an excitable medium. <i>Journal of Chemical Physics</i> , 1986, 85, 5682-5688.	3.0	13
115	A stochastic theory of chemical reaction rates. II. Applications. <i>Journal of Statistical Physics</i> , 1989, 56, 895-910.	1.2	11
116	Phase resetting dynamics for a discrete reactionâ€“diffusion model. <i>Journal of Chemical Physics</i> , 1990, 92, 7315-7322.	3.0	11
117	Fluctuation effects on quadratic autocatalysis fronts. <i>Journal of Chemical Physics</i> , 1999, 110, 109-115.	3.0	11
118	Collective orientational dynamics of pinned chemically-propelled nanorotors. <i>Chaos</i> , 2018, 28, 045109.	2.5	11
119	Generalized Langevin equation approach to reaction dynamics in liquids. <i>Journal of Chemical Physics</i> , 1979, 70, 5623-5634.	3.0	10
120	Bistable limit cycle oscillations in chemical systems. II. Mechanisms for noiseâ€“induced transitions. <i>Journal of Chemical Physics</i> , 1987, 86, 3366-3372.	3.0	10
121	Electron solvation in aqueous reverse micelles: Equilibrium properties. <i>Journal of Chemical Physics</i> , 2002, 117, 7712-7718.	3.0	10
122	Nanomotor dynamics in a chemically oscillating medium. <i>Journal of Chemical Physics</i> , 2015, 142, 154902.	3.0	10
123	Active Matter, Microreversibility, and Thermodynamics. <i>Research</i> , 2020, 2020, 9739231.	5.7	10
124	Extended calculations of the anomalous Rayleigh linewidth and shear viscosity. <i>Journal of Chemical Physics</i> , 1976, 64, 3826-3832.	3.0	9
125	Kinetic energy relaxation of a test particle in a dense fluid. <i>Journal of Chemical Physics</i> , 1979, 71, 4492-4501.	3.0	9
126	Bistable limit cycle oscillations in chemical systems. I. Basins of attraction. <i>Journal of Chemical Physics</i> , 1987, 86, 3357-3365.	3.0	9

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127	Correlation Functions in Open Quantum-Classical Systems. <i>Entropy</i> , 2014, 16, 200-220.	2.2	9
128	Enzyme kinetics and transport in a system crowded by mobile macromolecules. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 29243-29250.	2.8	9
129	Nonequilibrium thermodynamics and boundary conditions for reaction and transport in heterogeneous media. <i>Journal of Chemical Physics</i> , 2018, 148, 194114.	3.0	9
130	The stochastic motion of self-thermophoretic Janus particles. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019, 2019, 074001.	2.3	9
131	Active rotational dynamics of a self-diffusiophoretic colloidal motor. <i>Soft Matter</i> , 2020, 16, 1236-1245.	2.7	9
132	Light Scattering from Chemically Reacting Fluids: Coupled Chemical Reactions. <i>Journal of Chemical Physics</i> , 1970, 53, 4409-4413.	3.0	8
133	Inhomogeneous perturbations and phase resetting in an oscillatory reaction-diffusion system. <i>Journal of Chemical Physics</i> , 1990, 92, 7302-7314.	3.0	8
134	SIMULATION OF CLASSICAL AND QUANTUM ACTIVATED PROCESSES IN THE CONDENSED PHASE. , 1995, , 150-190.		8
135	Chemical turbulence and phase resetting dynamics. <i>Journal of Chemical Physics</i> , 1991, 94, 1411-1419.	3.0	7
136	Coloring a Lorentz gas. <i>Journal of Chemical Physics</i> , 1998, 109, 6460-6468.	3.0	7
137	Proton and Deuteron Transfer Reactions in Molecular Nanoclusters. <i>ChemPhysChem</i> , 2008, 9, 470-474.	2.1	7
138	Diffusional correlations among multiple active sites in a single enzyme. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6211.	2.8	7
139	Collective dynamics of diffusiophoretic motors on a filament. <i>European Physical Journal E</i> , 2016, 39, 36.	1.6	7
140	Nanoconfined catalytic Ångström-size motors. <i>Journal of Chemical Physics</i> , 2015, 143, 184906.	3.0	6
141	Active motion of synthetic nanomotors in filament networks. <i>Physical Review Research</i> , 2020, 2, .	3.6	6
142	Concentration fluctuations in chemically reacting fluids. <i>Journal of Chemical Physics</i> , 1973, 58, 3129-3138.	3.0	5
143	Multimode contributions to the anomalous shear viscosity. <i>Journal of Chemical Physics</i> , 1975, 63, 3560-3566.	3.0	5
144	Molecular theory of Langevin dynamics for active self-diffusiophoretic colloids. <i>Journal of Chemical Physics</i> , 2020, 153, 124104.	3.0	5

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145	Translational and rotational friction in a rough sphere fluid. <i>Journal of Chemical Physics</i> , 1981, 74, 6888-6895.	3.0	4
146	Dynamics of Solvation-Induced Structural Transitions in Mesoscopic Binary Clusters. <i>Physical Review Letters</i> , 2000, 84, 455-458.	7.8	4
147	Quantum equilibrium structure for strong nonadiabatic coupling: Reaction rate enhancement. <i>Chemical Physics Letters</i> , 2007, 440, 215-220.	2.6	4
148	Finite-time fluctuation theorem for diffusion-influenced surface reactions on spherical and Janus catalytic particles. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018, 2018, 123206.	2.3	4
149	Finite-time fluctuation theorem for diffusion-influenced surface reactions. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018, 2018, 083206.	2.3	4
150	Chemical relaxation in a radiation field. <i>Journal of Chemical Physics</i> , 1974, 61, 1723-1729.	3.0	3
151	Perturbation theory for the breakdown of mean-field kinetics in oscillatory reaction-diffusion systems. <i>Journal of Chemical Physics</i> , 1998, 109, 281-293.	3.0	3
152	Transport in active systems crowded by obstacles. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 074001.	2.1	3
153	Polymer dynamics in a binary critical mixture. <i>Journal of Chemical Physics</i> , 1977, 66, 2887-2892.	3.0	2
154	Self-propelled torus colloids. <i>Journal of Chemical Physics</i> , 2020, 153, 014902.	3.0	2
155	A catalytic oligomeric motor that walks along a filament track. <i>Journal of Chemical Physics</i> , 2015, 142, 245102.	3.0	2
156	Magnetic field dependence of thermal correlations in molecular gases. <i>Journal of Chemical Physics</i> , 1973, 58, 4084-4091.	3.0	1
157	Simulating Chemical Waves and Patterns. <i>Reviews in Computational Chemistry</i> , 2004, , 219-247.	1.5	1
158	Quantum reaction rates and sampling of quantum equilibrium structure. <i>Journal of Chemical Physics</i> , 2007, 127, 226101.	3.0	1
159	Forces that control self-organization of chemically-propelled Janus tori. <i>Communications Physics</i> , 2022, 5, .	5.3	1
160	Reactive dynamics in a deterministic thermal bath. <i>Journal of Chemical Physics</i> , 1989, 91, 5602-5612.	3.0	0
161	CLASSICAL AND QUANTUM CHEMICAL RATE CONSTANTS FOR REACTIONS IN CONDENSED PHASES. <i>Chemistry Education Research and Practice</i> , 2002, 3, 253-268.	2.5	0
162	NANOMOTORS PROPELLED BY CHEMICAL REACTIONS. <i>World Scientific Lecture Notes in Complex Systems</i> , 2013, , 101-124.	0.1	0

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163	10.1063/1.4736414.1., 2012,, .		0
164	10.1063/1.4922926.1., 2015,, .		0
165	10.1063/1.5018297.1., 2018,, .		0