

# Abrahan Nitzan

## List of Publications by Year in descending order

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208  
papers

18,348  
citations

22099

59  
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14156

128  
g-index

212  
all docs

212  
docs citations

212  
times ranked

10497  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron Transport in Molecular Wire Junctions. <i>Science</i> , 2003, 300, 1384-1389.	6.0	2,173
2	Electromagnetic theory of enhanced Raman scattering by molecules adsorbed on rough surfaces. <i>Journal of Chemical Physics</i> , 1980, 73, 3023-3037.	1.2	1,009
3	Chemical Dynamics in Condensed Phases. , 2006, , .		908
4	ELECTRON TRANSMISSION THROUGH MOLECULES AND MOLECULAR INTERFACES. <i>Annual Review of Physical Chemistry</i> , 2001, 52, 681-750.	4.8	874
5	Covalently bonded single-molecule junctions with stable and reversible photoswitched conductivity. <i>Science</i> , 2016, 352, 1443-1445.	6.0	697
6	Spectroscopic properties of molecules interacting with small dielectric particles. <i>Journal of Chemical Physics</i> , 1981, 75, 1139-1152.	1.2	676
7	Molecular transport junctions: vibrational effects. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 103201.	0.7	618
8	The enhancement of Raman scattering, resonance Raman scattering, and fluorescence from molecules adsorbed on a rough silver surface. <i>Journal of Chemical Physics</i> , 1983, 78, 5324-5338.	1.2	465
9	Thermal conductance through molecular wires. <i>Journal of Chemical Physics</i> , 2003, 119, 6840-6855.	1.2	338
10	Spin-Boson Thermal Rectifier. <i>Physical Review Letters</i> , 2005, 94, 034301.	2.9	334
11	Concepts in the design and engineering of single-molecule electronic devices. <i>Nature Reviews Physics</i> , 2019, 1, 211-230.	11.9	327
12	Inelastic electron tunneling spectroscopy in molecular junctions: Peaks and dips. <i>Journal of Chemical Physics</i> , 2004, 121, 11965-11979.	1.2	320
13	Electron Transfer Rates in Bridged Molecular Systems 2. A Steady-State Analysis of Coherent Tunneling and Thermal Transitions. <i>Journal of Physical Chemistry B</i> , 2000, 104, 3817-3829.	1.2	298
14	Hysteresis, Switching, and Negative Differential Resistance in Molecular Junctions: A Polaron Model. <i>Nano Letters</i> , 2005, 5, 125-130.	4.5	296
15	Dynamic bond percolation theory: A microscopic model for diffusion in dynamically disordered systems. I. Definition and one-dimensional case. <i>Journal of Chemical Physics</i> , 1983, 79, 3133-3142.	1.2	279
16	Theoretical model for enhanced photochemistry on rough surfaces. <i>Journal of Chemical Physics</i> , 1981, 75, 2205-2214.	1.2	254
17	Finite time optimizations of a Newton's law Carnot cycle. <i>Journal of Chemical Physics</i> , 1981, 74, 3546-3560.	1.2	209
18	Semiclassical evaluation of nonadiabatic rates in condensed phases. <i>Journal of Chemical Physics</i> , 1993, 99, 1109-1123.	1.2	204

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19	Resonant inelastic tunneling in molecular junctions. <i>Physical Review B</i> , 2006, 73, .	1.1	204
20	A Relationship between Electron-Transfer Rates and Molecular Conduction. <i>Journal of Physical Chemistry A</i> , 2001, 105, 2677-2679.	1.1	188
21	Vibrational relaxation of a molecule in a dense medium. <i>Molecular Physics</i> , 1973, 25, 713-734.	0.8	187
22	Heat conduction in molecular transport junctions. <i>Physical Review B</i> , 2007, 75, .	1.1	187
23	Electron Transfer Rates in Bridged Molecular Systems: A Phenomenological Approach to Relaxation. <i>Journal of Physical Chemistry A</i> , 1997, 101, 6158-6164.	1.1	182
24	Photophysics and photochemistry near surfaces and small particles. <i>Surface Science</i> , 1985, 158, 165-189.	0.8	177
25	Molecular optoelectronics: the interaction of molecular conduction junctions with light. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 9421.	1.3	156
26	A rate constant expression for charge transfer through fluctuating bridges. <i>Journal of Chemical Physics</i> , 2003, 119, 5782-5788.	1.2	133
27	Accelerated energy transfer between molecules near a solid particle. <i>Chemical Physics Letters</i> , 1984, 104, 31-37.	1.2	130
28	Vibronic effects in off-resonant molecular wire conduction. <i>Journal of Chemical Physics</i> , 2003, 118, 6072-6082.	1.2	122
29	Optical Selection Studies of Radiationless Decay in an Isolated Large Molecule. <i>Journal of Chemical Physics</i> , 1971, 55, 1355-1368.	1.2	121
30	Current-induced nonequilibrium vibrations in single-molecule devices. <i>Physical Review B</i> , 2006, 73, .	1.1	119
31	Relaxation dynamics following transition of solvated electrons. <i>Journal of Chemical Physics</i> , 1989, 90, 4413-4422.	1.2	117
32	On the Line Widths of Vibrational Features in Inelastic Electron Tunneling Spectroscopy. <i>Nano Letters</i> , 2004, 4, 1605-1611.	4.5	113
33	Simulations of solvation dynamics in simple polar solvents. <i>Journal of Chemical Physics</i> , 1992, 96, 5433-5440.	1.2	111
34	Nonlinear Charge Transport in Redox Molecular Junctions: A Marcus Perspective. <i>ACS Nano</i> , 2011, 5, 6669-6685.	7.3	111
35	Dynamics and spectra of a solvated electron in water clusters. <i>Journal of Chemical Physics</i> , 1988, 89, 2242-2256.	1.2	106
36	Heating in current carrying molecular junctions. <i>Journal of Chemical Physics</i> , 2002, 117, 3915-3927.	1.2	99

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37	Heat rectification in molecular junctions. <i>Journal of Chemical Physics</i> , 2005, 122, 194704.	1.2	99
38	Can photochemistry be enhanced on rough surfaces?. <i>Journal of Chemical Physics</i> , 1981, 74, 5321-5322.	1.2	98
39	Non-Markovian theory of activated rate processes. I. Formalism. <i>Journal of Chemical Physics</i> , 1983, 79, 393-404.	1.2	97
40	Tunneling Time for Electron Transfer Reactions. <i>Journal of Physical Chemistry B</i> , 2000, 104, 5661-5665.	1.2	92
41	Inelastic tunneling effects on noise properties of molecular junctions. <i>Physical Review B</i> , 2006, 74, .	1.1	89
42	Cooling mechanisms in molecular conduction junctions. <i>Physical Review B</i> , 2009, 80, .	1.1	85
43	Rectification of laser-induced electronic transport through molecules. <i>Journal of Chemical Physics</i> , 2003, 118, 3283-3293.	1.2	81
44	On the origin of ground-state vacuum-field catalysis: Equilibrium consideration. <i>Journal of Chemical Physics</i> , 2020, 152, 234107.	1.2	81
45	Inelastic effects in molecular junctions in the Coulomb and Kondo regimes: Nonequilibrium equation-of-motion approach. <i>Physical Review B</i> , 2007, 76, .	1.1	79
46	Cavity molecular dynamics simulations of liquid water under vibrational ultrastrong coupling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 18324-18331.	3.3	79
47	Circular Currents in Molecular Wires. <i>Journal of Physical Chemistry C</i> , 2010, 114, 20583-20594.	1.5	77
48	Molecular Polaritons: Chemical Dynamics Under Strong Light-Matter Coupling. <i>Annual Review of Physical Chemistry</i> , 2022, 73, 43-71.	4.8	77
49	Stochastic classical trajectory approach to relaxation phenomena. I. Vibrational relaxation of impurity molecules in solid matrices. <i>Journal of Chemical Physics</i> , 1978, 69, 336.	1.2	75
50	Inelastic effects in molecular junction transport: scattering and self-consistent calculations for the Seebeck coefficient. <i>Molecular Physics</i> , 2008, 106, 397-404.	0.8	74
51	Quantum thermodynamics of the driven resonant level model. <i>Physical Review B</i> , 2016, 93, .	1.1	73
52	Optics of exciton-plasmon nanomaterials. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 443003.	0.7	73
53	Electronic noise due to temperature differences in atomic-scale junctions. <i>Nature</i> , 2018, 562, 240-244.	13.7	72
54	Solvation dynamics in dielectric solvents with restricted molecular rotations: Polyethers. <i>Journal of Chemical Physics</i> , 1995, 102, 7180-7196.	1.2	70

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55	Activated Rate Processes in Condensed Phases: the Kramers Theory Revisited. <i>Advances in Chemical Physics</i> , 2007, , 489-555.	0.3	70
56	Intramolecular Nonradiative Transitions in the "Non-Condon" Scheme. <i>Journal of Chemical Physics</i> , 1972, 56, 3360-3373.	1.2	68
57	Numerical studies of the interaction of an atomic sample with the electromagnetic field in two dimensions. <i>Physical Review A</i> , 2011, 84, .	1.0	68
58	Raman scattering in current-carrying molecular junctions. <i>Journal of Chemical Physics</i> , 2009, 130, 144109.	1.2	66
59	Theory of Light Emission from Quantum Noise in Plasmonic Contacts: Above-Threshold Emission from Higher-Order Electron-Plasmon Scattering. <i>Physical Review Letters</i> , 2015, 114, 126803.	2.9	63
60	Non-Markovian theory of activated rate processes. IV. The double well model. <i>Journal of Chemical Physics</i> , 1984, 80, 3596-3605.	1.2	62
61	Irreversibility and Hysteresis in Redox Molecular Conduction Junctions. <i>Journal of the American Chemical Society</i> , 2013, 135, 9420-9432.	6.6	62
62	Dynamics of excess electron migration, solvation, and spectra in polar molecular clusters. <i>Journal of Chemical Physics</i> , 1989, 91, 5567-5580.	1.2	60
63	Quantum simulations and ab initio electronic structure studies of (H <sub>2</sub> O) <sup>2+</sup> . <i>Journal of Chemical Physics</i> , 1989, 91, 7797-7808.	1.2	59
64	Inelastic transport in the Coulomb blockade regime within a nonequilibrium atomic limit. <i>Physical Review B</i> , 2008, 78, .	1.1	59
65	On the relationship between molecular state and single electron pictures in simple electrochemical junctions. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13746.	1.3	59
66	Theory of inverse electronic relaxation. <i>Journal of Chemical Physics</i> , 1979, 71, 3524-3532.	1.2	57
67	Steady-state quantum mechanics of thermally relaxing systems. <i>Chemical Physics</i> , 2001, 268, 315-335.	0.9	56
68	Electron transfer in confined electromagnetic fields. <i>Journal of Chemical Physics</i> , 2019, 150, 174122.	1.2	56
69	Resonance Fluorescence from Large Molecules. <i>Journal of Chemical Physics</i> , 1972, 57, 2870-2889.	1.2	55
70	Molecular Wire Junctions: Tuning the Conductance. <i>Journal of Physical Chemistry B</i> , 2003, 107, 91-95.	1.2	55
71	Computing vibrational energy relaxation for high-frequency modes in condensed environments. <i>Journal of Chemical Physics</i> , 1997, 107, 10470-10479.	1.2	54
72	Random coupling models for intramolecular dynamics. I. Mathematical approach. <i>Journal of Chemical Physics</i> , 1980, 72, 2054-2069.	1.2	53

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73	The relationship between electron transfer rate and molecular conduction 2. The sequential hopping case. Israel Journal of Chemistry, 2002, 42, 163-166.	1.0	53
74	Nonequilibrium steady state transport via the reduced density matrix operator. Journal of Chemical Physics, 2009, 130, 144105.	1.2	52
75	Magnetic fields effects on the electronic conduction properties of molecular ring structures. Physical Review B, 2012, 85, .	1.1	52
76	Molecules Take the Heat. Science, 2007, 317, 759-760.	6.0	51
77	Stochastic classical trajectory approach to relaxation phenomena. II. Vibrational relaxation of impurity molecules in Debye solids. Journal of Chemical Physics, 1978, 69, 2525.	1.2	50
78	Electron transfer across a thermal gradient. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9421-9429.	3.3	50
79	Numerical simulations of solvation dynamics in electrolyte solutions. Journal of Chemical Physics, 1994, 100, 3855-3868.	1.2	49
80	Electron tunneling through water layers: Effect of layer structure and thickness. Journal of Chemical Physics, 1997, 106, 6647-6654.	1.2	49
81	Label-Free Dynamic Detection of Single-Molecule Nucleophilic-Substitution Reactions. Nano Letters, 2018, 18, 4156-4162.	4.5	48
82	Electronic relaxation of small molecules in a dense medium. Theoretica Chimica Acta, 1973, 29, 97-116.	0.9	47
83	Magnetic Field Control of the Current through Molecular Ring Junctions. Journal of Physical Chemistry Letters, 2011, 2, 2118-2124.	2.1	46
84	Surface hopping with a manifold of electronic states. II. Application to the many-body Anderson-Holstein model. Journal of Chemical Physics, 2015, 142, 084110.	1.2	46
85	On the application of instantaneous normal mode analysis to long time dynamics of liquids. Journal of Chemical Physics, 1995, 103, 2169-2177.	1.2	45
86	Raman Scattering from Nonequilibrium Molecular Conduction Junctions. Nano Letters, 2009, 9, 758-762.	4.5	43
87	Collective Vibrational Strong Coupling Effects on Molecular Vibrational Relaxation and Energy Transfer: Numerical Insights via Cavity Molecular Dynamics Simulations**. Angewandte Chemie - International Edition, 2021, 60, 15533-15540.	7.2	43
88	Transient resonance structures in electron tunneling through water. Journal of Chemical Physics, 1999, 111, 7558-7566.	1.2	42
89	The electrostatic potential profile along a biased molecular wire: A model quantum-mechanical calculation. Journal of Chemical Physics, 2003, 118, 3756-3763.	1.2	42
90	Frictional effects near a metal surface. Journal of Chemical Physics, 2015, 143, 054103.	1.2	42

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91	Interference effects in sequential decay. <i>Molecular Physics</i> , 1973, 26, 281-290.	0.8	41
92	Non-Markovian theory of activated rate processes. VI. Unimolecular reactions in condensed phases. <i>Journal of Chemical Physics</i> , 1987, 86, 2734-2749.	1.2	41
93	Numerical computation of tunneling fluxes. <i>Journal of Chemical Physics</i> , 2002, 117, 10817-10826.	1.2	41
94	Non radiative transition probabilities in the statistical limit. <i>Theoretica Chimica Acta</i> , 1973, 30, 217-229.	0.9	40
95	Nonclassical time correlation functions in continuous quantum measurement. <i>New Journal of Physics</i> , 2012, 14, 013009.	1.2	40
96	Universal approach to quantum thermodynamics in the strong coupling regime. <i>Physical Review B</i> , 2018, 98, .	1.1	39
97	Cavity molecular dynamics simulations of vibrational polariton-enhanced molecular nonlinear absorption. <i>Journal of Chemical Physics</i> , 2021, 154, 094124.	1.2	39
98	Surface hopping with a manifold of electronic states. III. Transients, broadening, and the Marcus picture. <i>Journal of Chemical Physics</i> , 2015, 142, 234106.	1.2	38
99	Line shape of a molecular resonance. <i>Molecular Physics</i> , 1972, 24, 109-131.	0.8	37
100	On the theory of time resolved near-resonance light scattering. <i>Journal of Chemical Physics</i> , 1975, 63, 1289-1294.	1.2	35
101	Numerical simulations of molecular multiphoton excitation models. <i>Journal of Chemical Physics</i> , 1980, 72, 1928-1937.	1.2	35
102	Charge-carrier-induced frequency renormalization, damping, and heating of vibrational modes in nanoscale junctions. <i>Physical Review B</i> , 2013, 88, .	1.1	35
103	Energy distribution and local fluctuations in strongly coupled open quantum systems: The extended resonant level model. <i>Physical Review B</i> , 2016, 94, .	1.1	35
104	Unimolecular reactions in condensed phases: Is the turnover in the viscosity dependence of the rate observable?. <i>Journal of Chemical Physics</i> , 1985, 82, 1614-1616.	1.2	34
105	Optical Selection Studies of Radiationless Decay in an Isolated Large Molecule. II. Role of Frequency Changes. <i>Journal of Chemical Physics</i> , 1972, 56, 2079-2087.	1.2	33
106	Effects of vibrational relaxation on molecular electronic transitions. <i>Journal of Chemical Physics</i> , 1973, 58, 2412-2434.	1.2	33
107	Effects of initial state preparation on the distance dependence of electron transfer through molecular bridges and wires. <i>Journal of Chemical Physics</i> , 2003, 119, 6271-6276.	1.2	33
108	Heterojunction Organic Photovoltaic Cells as Molecular Heat Engines: A Simple Model for the Performance Analysis. <i>Journal of Physical Chemistry C</i> , 2011, 115, 21396-21401.	1.5	33

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109	Stochastic classical trajectory approach to relaxation phenomena. III. Comparison of trajectory results to quantum mechanical perturbation theory. <i>Journal of Chemical Physics</i> , 1983, 78, 3959-3963.	1.2	32
110	Correlated dynamic percolation: Many bond effective-medium theory. <i>Journal of Chemical Physics</i> , 1989, 90, 3784-3794.	1.2	32
111	Raman scattering from biased molecular conduction junctions: The electronic background and its temperature. <i>Physical Review B</i> , 2011, 84, .	1.1	32
112	Electron transfer at thermally heterogeneous molecule-metal interfaces. <i>Journal of Chemical Physics</i> , 2017, 146, .	1.2	31
113	Electron-Transfer-Induced Thermal and Thermoelectric Rectification. <i>Physical Review Letters</i> , 2018, 121, 247704.	2.9	31
114	Dynamic percolation theory for diffusion of interacting particles. <i>Journal of Chemical Physics</i> , 1990, 92, 1329-1338.	1.2	28
115	Random coupling models for intramolecular dynamics. II. Kinetic equations for collisionless multiphoton excitation of large molecules. <i>Journal of Chemical Physics</i> , 1980, 72, 2070-2080.	1.2	27
116	Dynamically disordered hopping, glass transition, and polymer electrolytes. <i>Journal of Chemical Physics</i> , 1995, 103, 3253-3261.	1.2	27
117	Nuclear Dynamics at Molecule-Metal Interfaces: A Pseudoparticle Perspective. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4898-4903.	2.1	27
118	Mixed quantum-classical electrodynamics: Understanding spontaneous decay and zero-point energy. <i>Physical Review A</i> , 2018, 97, .	1.0	27
119	Raman Scattering and Electronic Heating in Molecular Conduction Junctions. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2110-2113.	2.1	26
120	Raman scattering from molecular conduction junctions: Charge transfer mechanism. <i>Physical Review B</i> , 2012, 85, .	1.1	26
121	Quasiclassical modeling of cavity quantum electrodynamics. <i>Physical Review A</i> , 2020, 101, .	1.0	26
122	Ultrafast relaxation in water. <i>Nature</i> , 1999, 402, 473-475.	13.7	25
123	Numerical Simulations of Electron Tunneling Currents in Water. <i>Journal of Physical Chemistry A</i> , 2002, 106, 10790-10796.	1.1	25
124	Electron Transmission through Molecular Layers: Numerical Simulations and Theoretical Considerations. <i>Accounts of Chemical Research</i> , 1999, 32, 854-861.	7.6	24
125	Electrothermal Transistor Effect and Cyclic Electronic Currents in Multithermal Charge Transfer Networks. <i>Physical Review Letters</i> , 2017, 118, 207201.	2.9	24
126	Ehrenfest+R dynamics. I. A mixed quantum-classical electrodynamics simulation of spontaneous emission. <i>Journal of Chemical Physics</i> , 2019, 150, 044102.	1.2	24



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127	Coherent charge transport through molecular wires: Exciton blocking and current from electronic excitations in the wire. <i>Physical Review B</i> , 2010, 81, .	1.1	23
128	Coherent and Diffusive Time Scales for Exciton Dissociation in Bulk Heterojunction Photovoltaic Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27235-27244.	1.5	23
129	Internal conversion in large molecules. <i>Molecular Physics</i> , 1971, 22, 585-592.	0.8	22
130	Dynamics, Spectra, and Relaxation Phenomena of Excess Electrons in Clusters. <i>Israel Journal of Chemistry</i> , 1990, 30, 85-105.	1.0	22
131	Numerical Calculations of Radiative and Non-Radiative Relaxation of Molecules Near Metal Particles. <i>Journal of Physical Chemistry C</i> , 2014, 118, 10545-10551.	1.5	22
132	Collective Vibrational Strong Coupling Effects on Molecular Vibrational Relaxation and Energy Transfer: Numerical Insights via Cavity Molecular Dynamics Simulations**. <i>Angewandte Chemie</i> , 2021, 133, 15661-15668.	1.6	22
133	The effect of small cluster environment on molecular oscillator strengths and spectra. <i>Journal of Chemical Physics</i> , 1988, 88, 3516-3523.	1.2	21
134	Perturbation theory approach to tunneling: Direct and resonance transmission in super-exchange models. <i>Journal of Chemical Physics</i> , 1999, 111, 1569-1579.	1.2	21
135	Wiedemann-Franz Law for Molecular Hopping Transport. <i>Nano Letters</i> , 2020, 20, 989-993.	4.5	21
136	On the nonclassical asymptotic behavior of electronic properties in metal clusters. <i>Journal of Chemical Physics</i> , 1991, 95, 9024-9027.	1.2	20
137	Asymmetric tunneling through ordered molecular layers. <i>Journal of Chemical Physics</i> , 1997, 106, 1291-1293.	1.2	20
138	Steady-State Theory of Current Transfer. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8005-8013.	1.5	20
139	Nonlinear hopping transport in ring systems and open channels. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 645-654.	1.3	20
140	Network Analysis of Photovoltaic Energy Conversion. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27226-27234.	1.5	20
141	Dynamics of Multidimensional Barrier Crossing in the Overdamped Limit. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1991, 95, 319-326.	0.9	19
142	Dissipative two-electron transfer: A numerical renormalization group study. <i>Physical Review B</i> , 2008, 78, .	1.1	19
143	Lattice theory of solvation and dissociation in macromolecular fluids. I. Mean field approximation. <i>Journal of Chemical Physics</i> , 1994, 100, 705-718.	1.2	18
144	Unidirectional hopping transport of interacting particles on a finite chain. <i>Journal of Chemical Physics</i> , 2010, 133, 054102.	1.2	18

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145	Electron-transfer-induced and phononic heat transport in molecular environments. <i>Journal of Chemical Physics</i> , 2017, 147, 124101.	1.2	18
146	Quantum thermodynamics for driven dissipative bosonic systems. <i>Physical Review B</i> , 2018, 97, .	1.1	17
147	Traversal time for electron tunneling in water. <i>Journal of Chemical Physics</i> , 2001, 114, 9205-9208.	1.2	16
148	Numerical Approach to Nonequilibrium Quantum Thermodynamics: Nonperturbative Treatment of the Driven Resonant Level Model Based on the Driven Liouville von-Neumann Formalism. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 1232-1248.	2.3	16
149	Phenomenology of Electron Solvation in Polar Fluids. <i>The Journal of Physical Chemistry</i> , 1996, 100, 18916-18923.	2.9	15
150	Frictional Properties of Straight-Chain Alcohols and the Dynamics of Layering Transitions. <i>Tribology Letters</i> , 2002, 12, 123-129.	1.2	15
151	Molecular electronic states near metal surfaces at equilibrium using potential of mean force and numerical renormalization group methods: Hysteresis revisited. <i>Journal of Chemical Physics</i> , 2016, 144, 074109.	1.2	15
152	Maximum efficiency of state-space models of nanoscale energy conversion devices. <i>Journal of Chemical Physics</i> , 2016, 145, 014108.	1.2	14
153	Charge Transfer through Redox Molecular Junctions in Nonequilibrated Solvents. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1729-1737.	2.1	14
154	Radiationless Decay and Intrastate Energy Equilibration in an Isolated Large Molecule. <i>Journal of Chemical Physics</i> , 1972, 56, 5200-5201.	1.2	13
155	Traversal time for tunneling: Local aspects. <i>Journal of Chemical Physics</i> , 1988, 88, 3871-3878.	1.2	13
156	Lattice theory of solvation and dissociation in macromolecular fluids. II. Quasichemical approximation. <i>Journal of Chemical Physics</i> , 1994, 101, 2338-2349.	1.2	13
157	Inelastic effects in electron tunneling through water layers. <i>Journal of Chemical Physics</i> , 2001, 115, 2681-2694.	1.2	13
158	Tight-Binding Description of the STM Image of Molecular Chains. <i>Israel Journal of Chemistry</i> , 2004, 44, 133-143.	1.0	13
159	Multiple state representation scheme for organic bulk heterojunction solar cells: A novel analysis perspective. <i>Europhysics Letters</i> , 2013, 104, 40002.	0.7	13
160	Irreversibility in redox molecular conduction: single versus double metal-molecule interfaces. <i>Electrochimica Acta</i> , 2015, 160, 363-375.	2.6	13
161	Evaluation of dynamical properties of open quantum systems using the driven Liouville-von Neumann approach: methodological considerations. <i>Molecular Physics</i> , 2019, 117, 2083-2096.	0.8	13
162	Heat conduction in polymer chains with controlled end-to-end distance. <i>Journal of Chemical Physics</i> , 2020, 153, 164903.	1.2	13

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163	Nonadiabatic Dynamics in a Laser Field: Using Floquet Fewest Switches Surface Hopping To Calculate Electronic Populations for Slow Nuclear Velocities. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 821-834.	2.3	13
164	Random walk in dynamically disordered systems. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1987, 56, 853-859.	0.6	12
165	Simultaneous weak measurement of non-commuting observables: a generalized Arthurs-Kelly protocol. <i>Scientific Reports</i> , 2018, 8, 15781.	1.6	12
166	Kinetic Schemes in Open Interacting Systems. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4886-4892.	2.1	12
167	Ehrenfest+R dynamics. II. A semiclassical QED framework for Raman scattering. <i>Journal of Chemical Physics</i> , 2019, 150, 044103.	1.2	12
168	Dynamic bond percolation theory for diffusion of interacting particles: Tracer diffusion in a binary mixture lattice gas. <i>Journal of Chemical Physics</i> , 1990, 93, 5918-5934.	1.2	11
169	Constant pressure simulations of lattice gas models. <i>Journal of Chemical Physics</i> , 1997, 106, 3703-3709.	1.2	11
170	Stochastic simulation of nonequilibrium heat conduction in extended molecular junctions. <i>Journal of Chemical Physics</i> , 2020, 153, 144113.	1.2	11
171	Local Atomic Heat Currents and Classical Interference in Single-Molecule Heat Conduction. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4261-4268.	2.1	11
172	Motion mechanisms in framework solid electrolytes: Correlated hopping and liquidlike diffusion. <i>Journal of Chemical Physics</i> , 1983, 78, 4154-4161.	1.2	10
173	Energy, Work, Entropy, and Heat Balance in Marcus Molecular Junctions. <i>Journal of Physical Chemistry B</i> , 2020, 124, 2632-2642.	1.2	10
174	Polariton relaxation under vibrational strong coupling: Comparing cavity molecular dynamics simulations against Fermi's golden rule rate. <i>Journal of Chemical Physics</i> , 2022, 156, 134106.	1.2	10
175	Quantum Simulations of Vibrational Strong Coupling via Path Integrals. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3890-3895.	2.1	10
176	Non-Markoffian Theory of Activated Rate Processes II. Thermal Desorption. <i>Israel Journal of Chemistry</i> , 1982, 22, 360-364.	1.0	9
177	Comment on: Self-consistent theory of polymer dynamics in melts. <i>Journal of Chemical Physics</i> , 1992, 97, 3873-3874.	1.2	9
178	Heat conduction in polymer chains: Effect of substrate on the thermal conductance. <i>Journal of Chemical Physics</i> , 2022, 156, 144901.	1.2	9
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