Abrahan Nitzan

List of Publications by Year in Descending Order

206 papers	16,229 citations	56 h-index	124 g-index
212 ext. papers	17,190 ext. citations	5.5 avg, IF	7.07 L-index

#	Paper	IF	Citations
206	Energy transfer and thermoelectricity in molecular junctions in non-equilibrated solvents.. *Journal of Chemical Physics*, **2022**, 156, 094306	3.9	1
205	Edge State Quantum Interference in Twisted Graphitic Interfaces.. *Advanced Science*, **2022**, e2102261	13.6	
204	Heat conduction in polymer chains: Effect of substrate on the thermal conductance.. *Journal of Chemical Physics*, **2022**, 156, 144901	3.9	2
203	Polariton relaxation under vibrational strong coupling: Comparing cavity molecular dynamics simulations against Fermi's golden rule rate.. *Journal of Chemical Physics*, **2022**, 156, 134106	3.9	3
202	Coupling, lifetimes, and "strong coupling" maps for single molecules at plasmonic interfaces.. *Journal of Chemical Physics*, **2022**, 156, 154303	3.9	2
201	Quantum Simulations of Vibrational Strong Coupling via Path Integrals.. *Journal of Physical Chemistry Letters*, **2022**, 3890-3895	6.4	2
200	Molecular Polaritonics: Chemical Dynamics Under Strong Light-Matter Coupling. *Annual Review of Physical Chemistry*, **2021**,	15.7	13
199	Heat transport induced by electron transfer: A general temperature quantum calculation. *Journal of Chemical Physics*, **2021**, 155, 194104	3.9	
198	Cavity molecular dynamics simulations of vibrational polariton-enhanced molecular nonlinear absorption. *Journal of Chemical Physics*, **2021**, 154, 094124	3.9	20
197	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	16.4	19
196	Collective Vibrational Strong Coupling Effects on Molecular Vibrational Relaxation and Energy Transfer: Numerical Insights via Cavity Molecular Dynamics Simulations**. *Angewandte Chemie*, **2021**, 133, 15661-15668	3.6	8
195	Local Atomic Heat Currents and Classical Interference in Single-Molecule Heat Conduction. *Journal of Physical Chemistry Letters*, **2020**, 11, 4261-4268	6.4	6
194	Energy, Work, Entropy, and Heat Balance in Marcus Molecular Junctions. *Journal of Physical Chemistry B*, **2020**, 124, 2632-2642	3.4	5
193	Quasiclassical modeling of cavity quantum electrodynamics. *Physical Review A*, **2020**, 101,	2.6	13
192	On the origin of ground-state vacuum-field catalysis: Equilibrium consideration. *Journal of Chemical Physics*, **2020**, 152, 234107	3.9	45
191	Nonadiabatic Dynamics in a Laser Field: Using Floquet Fewest Switches Surface Hopping To Calculate Electronic Populations for Slow Nuclear Velocities. *Journal of Chemical Theory and Computation*, **2020**, 16, 821-834	6.4	8
190	Charge Transfer through Redox Molecular Junctions in Nonequilibrated Solvents. *Journal of Physical Chemistry Letters*, **2020**, 11, 1729-1737	6.4	4

189	Numerical Approach to Nonequilibrium Quantum Thermodynamics: Nonperturbative Treatment of the Driven Resonant Level Model Based on the Driven Liouville von-Neumann Formalism. *Journal of Chemical Theory and Computation*, **2020**, 16, 1232-1248	6.4	10
188	Wiedemann-Franz Law for Molecular Hopping Transport. *Nano Letters*, **2020**, 20, 989-993	11.5	9
187	Stochastic simulation of nonequilibrium heat conduction in extended molecular junctions. *Journal of Chemical Physics*, **2020**, 153, 144113	3.9	5
186	Cavity molecular dynamics simulations of liquid water under vibrational ultrastrong coupling. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 18324-18331	11.5	39
185	Transport and thermodynamics in quantum junctions: A scattering approach. *Journal of Chemical Physics*, **2020**, 152, 244126	3.9	3
184	Heat conduction in polymer chains with controlled end-to-end distance. *Journal of Chemical Physics*, **2020**, 153, 164903	3.9	7
183	Electron transfer in confined electromagnetic fields. *Journal of Chemical Physics*, **2019**, 150, 174122	3.9	36
182	Predictive Semiclassical Model for Coherent and Incoherent Emission in the Strong Field Regime: The Mollow Triplet Revisited. *Journal of Physical Chemistry Letters*, **2019**, 10, 1331-1336	6.4	5
181	Evaluation of dynamical properties of open quantum systems using the driven Liouville-von Neumann approach: methodological considerations. *Molecular Physics*, **2019**, 117, 2083-2096	1.7	10
180	Concepts in the design and engineering of single-molecule electronic devices. *Nature Reviews Physics*, **2019**, 1, 211-230	23.6	191
179	Ehrenfest+R dynamics. I. A mixed quantum-classical electrodynamics simulation of spontaneous emission. *Journal of Chemical Physics*, **2019**, 150, 044102	3.9	16
178	Ehrenfest+R dynamics. II. A semiclassical QED framework for Raman scattering. *Journal of Chemical Physics*, **2019**, 150, 044103	3.9	9
177	Understanding detailed balance for an electron-radiation system through mixed quantum-classical electrodynamics. *Physical Review A*, **2019**, 100,	2.6	2
176	Energy Transfer and Interference by Collective Electromagnetic Coupling. *Nano Letters*, **2019**, 19, 5790-5795	11.5	5
175	Understanding the nature of mean-field semiclassical light-matter dynamics: An investigation of energy transfer, electron-electron correlations, external driving, and long-time detailed balance. *Physical Review A*, **2019**, 100,	2.6	2
174	Upside/Downside statistical mechanics of nonequilibrium Brownian motion. I. Distributions, moments, and correlation functions of a free particle. *Journal of Chemical Physics*, **2018**, 148, 044101	3.9	2
173	Quantum thermodynamics for driven dissipative bosonic systems. *Physical Review B*, **2018**, 97,	3.3	11
172	Thermally induced charge current through long molecules. *Journal of Chemical Physics*, **2018**, 148, 024303	3.9	4

171	Mixed quantum-classical electrodynamics: Understanding spontaneous decay and zero-point energy. *Physical Review A*, **2018**, 97,	2.6	23
170	Kinetic Schemes in Open Interacting Systems. *Journal of Physical Chemistry Letters*, **2018**, 9, 4886-4892	6.4	10
169	Label-Free Dynamic Detection of Single-Molecule Nucleophilic-Substitution Reactions. *Nano Letters* , **2018**, 18, 4156-4162	11.5	34
168	Upside/Downside statistical mechanics of nonequilibrium Brownian motion. II. Heat transfer and energy partitioning of a free particle. *Journal of Chemical Physics*, **2018**, 149, 104103	3.9	1
167	Electron-Transfer-Induced Thermal and Thermoelectric Rectification. *Physical Review Letters*, **2018**, 121, 247704	7.4	19
166	A Necessary Trade-off for Semiclassical Electrodynamics: Accurate Short-Range Coulomb Interactions versus the Enforcement of Causality?. *Journal of Physical Chemistry Letters*, **2018**, 9, 5955-5961	6.4	6
165	Electronic noise due to temperature differences in atomic-scale junctions. *Nature*, **2018**, 562, 240-244	50.4	36
164	Simultaneous weak measurement of non-commuting observables: a generalized Arthurs-Kelly protocol. *Scientific Reports*, **2018**, 8, 15781	4.9	9
163	Universal approach to quantum thermodynamics in the strong coupling regime. *Physical Review B*, **2018**, 98,	3.3	28
162	Electron transfer at thermally heterogeneous molecule-metal interfaces. *Journal of Chemical Physics*, **2017**, 146, 092305	3.9	26
161	Electron-transfer-induced and phononic heat transport in molecular environments. *Journal of Chemical Physics*, **2017**, 147, 124101	3.9	15
160	Optics of exciton-plasmon nanomaterials. *Journal of Physics Condensed Matter*, **2017**, 29, 443003	1.8	56
159	Electrothermal Transistor Effect and Cyclic Electronic Currents in Multithermal Charge Transfer Networks. *Physical Review Letters*, **2017**, 118, 207201	7.4	22
158	Quantum thermodynamics of the driven resonant level model. *Physical Review B*, **2016**, 93,	3.3	60
157	Electron transfer across a thermal gradient. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 9421-9	11.5	42
156	Molecular electronic states near metal surfaces at equilibrium using potential of mean force and numerical renormalization group methods: Hysteresis revisited. *Journal of Chemical Physics*, **2016**, 144, 074109	3.9	10
155	Covalently bonded single-molecule junctions with stable and reversible photoswitched conductivity. *Science*, **2016**, 352, 1443-5	33.3	529
154	Maximum efficiency of state-space models of nanoscale energy conversion devices. *Journal of Chemical Physics*, **2016**, 145, 014108	3.9	11

153	Plasmon transmission through excitonic subwavelength gaps. *Journal of Chemical Physics*, **2016**, 144, 144703	3.9	7
152	On the widths of Stokes lines in Raman scattering from molecules adsorbed at metal surfaces and in molecular conduction junctions. *Journal of Chemical Physics*, **2016**, 144, 244114	3.9	3
151	Energy distribution and local fluctuations in strongly coupled open quantum systems: The extended resonant level model. *Physical Review B*, **2016**, 94,	3.3	28
150	Theory of light emission from quantum noise in plasmonic contacts: above-threshold emission from higher-order electron-plasmon scattering. *Physical Review Letters*, **2015**, 114, 126803	7.4	54
149	Irreversibility in redox molecular conduction: single versus double metal-molecule interfaces. *Electrochimica Acta*, **2015**, 160, 363-375	6.7	12
148	Surface hopping with a manifold of electronic states. II. Application to the many-body Anderson-Holstein model. *Journal of Chemical Physics*, **2015**, 142, 084110	3.9	37
147	Comment on "Frequency-domain stimulated and spontaneous light emission signals at molecular junctions" [J. Chem. Phys. 141, 074107 (2014)]. *Journal of Chemical Physics*, **2015**, 142, 137101	3.9	5
146	Nuclear Dynamics at Molecule-Metal Interfaces: A Pseudoparticle Perspective. *Journal of Physical Chemistry Letters*, **2015**, 6, 4898-903	6.4	24
145	Frictional effects near a metal surface. *Journal of Chemical Physics*, **2015**, 143, 054103	3.9	37
144	Surface hopping with a manifold of electronic states. III. Transients, broadening, and the Marcus picture. *Journal of Chemical Physics*, **2015**, 142, 234106	3.9	30
143	Coherent and Diffusive Time Scales for Exciton Dissociation in Bulk Heterojunction Photovoltaic Cells. *Journal of Physical Chemistry C*, **2014**, 118, 27235-27244	3.8	21
142	Numerical Calculations of Radiative and Non-Radiative Relaxation of Molecules Near Metal Particles. *Journal of Physical Chemistry C*, **2014**, 118, 10545-10551	3.8	20
141	Beyond Molecular Conduction: Optical and Thermal Effects in Molecular Junctions. *Advances in Chemical Physics*, **2014**, 135-158		1
140	Network Analysis of Photovoltaic Energy Conversion. *Journal of Physical Chemistry C*, **2014**, 118, 27226-27234	3.8	18
139	Irreversibility and hysteresis in redox molecular conduction junctions. *Journal of the American Chemical Society*, **2013**, 135, 9420-32	16.4	53
138	Charge-carrier-induced frequency renormalization, damping, and heating of vibrational modes in nanoscale junctions. *Physical Review B*, **2013**, 88,	3.3	34
137	Multiple state representation scheme for organic bulk heterojunction solar cells: A novel analysis perspective. *Europhysics Letters*, **2013**, 104, 40002	1.6	11
136	On the relationship between molecular state and single electron pictures in simple electrochemical junctions. *Physical Chemistry Chemical Physics*, **2012**, 14, 13746-53	3.6	46

135	Molecular optoelectronics: the interaction of molecular conduction junctions with light. *Physical Chemistry Chemical Physics*, **2012**, 14, 9421-38	3.6	139
134	Magnetic fields effects on the electronic conduction properties of molecular ring structures. *Physical Review B*, **2012**, 85,	3.3	44
133	Nonclassical time correlation functions in continuous quantum measurement. *New Journal of Physics*, **2012**, 14, 013009	2.9	32
132	Raman scattering from molecular conduction junctions: Charge transfer mechanism. *Physical Review B*, **2012**, 85,	3.3	21
131	Heterojunction Organic Photovoltaic Cells as Molecular Heat Engines: A Simple Model for the Performance Analysis. *Journal of Physical Chemistry C*, **2011**, 115, 21396-21401	3.8	28
130	Magnetic Field Control of the Current through Molecular Ring Junctions. *Journal of Physical Chemistry Letters*, **2011**, 2, 2118-2124	6.4	40
129	Raman Scattering and Electronic Heating in Molecular Conduction Junctions. *Journal of Physical Chemistry Letters*, **2011**, 2, 2110-2113	6.4	26
128	Nonlinear charge transport in redox molecular junctions: a Marcus perspective. *ACS Nano*, **2011**, 5, 6669-85	13.7	93
127	Numerical studies of the interaction of an atomic sample with the electromagnetic field in two dimensions. *Physical Review A*, **2011**, 84,	2.6	57
126	Raman scattering from biased molecular conduction junctions: The electronic background and its temperature. *Physical Review B*, **2011**, 84,	3.3	31
125	Unidirectional hopping transport of interacting particles on a finite chain. *Journal of Chemical Physics*, **2010**, 133, 054102	3.9	16
124	Coherent charge transport through molecular wires: Exciton blocking and current from electronic excitations in the wire. *Physical Review B*, **2010**, 81,	3.3	22
123	Steady-State Theory of Current Transfer. *Journal of Physical Chemistry C*, **2010**, 114, 8005-8013	3.8	18
122	Nonlinear hopping transport in ring systems and open channels. *Physical Chemistry Chemical Physics* , **2010**, 12, 645-54	3.6	18
121	Circular Currents in Molecular Wires. *Journal of Physical Chemistry C*, **2010**, 114, 20583-20594	3.8	63
120	Kramers barrier crossing as a cooling machine. *Chemical Physics*, **2010**, 375, 399-402	2.3	6
119	Molecular Conduction Junctions: Intermolecular Effects **2010**, 159-182		
118	Cooling mechanisms in molecular conduction junctions. *Physical Review B*, **2009**, 80,	3.3	81

117	Raman scattering in current-carrying molecular junctions. *Journal of Chemical Physics*, **2009**, 130, 144109	3.9	63
116	Rabi oscillations and photocurrent in quantum-dot tunnelling junctions. *Physica Status Solidi (A) Applications and Materials Science*, **2009**, 206, 948-951	1.6	5
115	Raman scattering from nonequilibrium molecular conduction junctions. *Nano Letters*, **2009**, 9, 758-62	11.5	41
114	Nonequilibrium steady state transport via the reduced density matrix operator. *Journal of Chemical Physics*, **2009**, 130, 144105	3.9	45
113	Inelastic transport in the Coulomb blockade regime within a nonequilibrium atomic limit. *Physical Review B*, **2008**, 78,	3.3	59
112	Inelastic effects in molecular junction transport: scattering and self-consistent calculations for the Seebeck coefficient. *Molecular Physics*, **2008**, 106, 397-404	1.7	65
111	Dissipative two-electron transfer: A numerical renormalization group study. *Physical Review B*, **2008** , 78,	3.3	15
110	Activated Rate Processes in Condensed Phases: the Kramers Theory Revisited. *Advances in Chemical Physics*, **2007**, 489-555		67
109	Inelastic effects in molecular junctions in the Coulomb and Kondo regimes: Nonequilibrium equation-of-motion approach. *Physical Review B*, **2007**, 76,	3.3	74
108	Heat conduction in molecular transport junctions. *Physical Review B*, **2007**, 75,	3.3	170
107	Chemistry. Molecules take the heat. *Science*, **2007**, 317, 759-60	33.3	47
106	Molecular transport junctions: vibrational effects. *Journal of Physics Condensed Matter*, **2007**, 19, 103201	1.8	552
105	Inelastic tunneling effects on noise properties of molecular junctions. *Physical Review B*, **2006**, 74,	3.3	85
104	Current-induced nonequilibrium vibrations in single-molecule devices. *Physical Review B*, **2006**, 73,	3.3	110
103	Resonant inelastic tunneling in molecular junctions. *Physical Review B*, **2006**, 73,	3.3	188
102	Chemical Dynamics in Condensed Phases **2006**,		806
101	Hysteresis, switching, and negative differential resistance in molecular junctions: a polaron model. *Nano Letters*, **2005**, 5, 125-30	11.5	280
100	Spin-boson thermal rectifier. *Physical Review Letters*, **2005**, 94, 034301	7.4	300

99	Heat rectification in molecular junctions. *Journal of Chemical Physics*, **2005**, 122, 194704	3.9	92
98	Tight-Binding Description of the STM Image of Molecular Chains. *Israel Journal of Chemistry*, **2004**, 44, 133-143	3.4	13
97	On the Line Widths of Vibrational Features in Inelastic Electron Tunneling Spectroscopy. *Nano Letters*, **2004**, 4, 1605-1611	11.5	109
96	Inelastic electron tunneling spectroscopy in molecular junctions: peaks and dips. *Journal of Chemical Physics*, **2004**, 121, 11965-79	3.9	297
95	Molecular Wire Junctions: Tuning the Conductance. *Journal of Physical Chemistry B*, **2003**, 107, 91-95	3.4	53
94	Electron transport in molecular wire junctions. *Science*, **2003**, 300, 1384-9	33.3	2037
93	Thermal conductance through molecular wires. *Journal of Chemical Physics*, **2003**, 119, 6840-6855	3.9	311
92	Rectification of laser-induced electronic transport through molecules. *Journal of Chemical Physics*, **2003**, 118, 3283-3293	3.9	78
91	Vibronic effects in off-resonant molecular wire conduction. *Journal of Chemical Physics*, **2003**, 118, 6072-6082	3.9	119
90	Effects of initial state preparation on the distance dependence of electron transfer through molecular bridges and wires. *Journal of Chemical Physics*, **2003**, 119, 6271-6276	3.9	32
89	A rate constant expression for charge transfer through fluctuating bridges. *Journal of Chemical Physics*, **2003**, 119, 5782-5788	3.9	121
88	The electrostatic potential profile along a biased molecular wire: A model quantum-mechanical calculation. *Journal of Chemical Physics*, **2003**, 118, 3756-3763	3.9	33
87	Frictional Properties of Straight-Chain Alcohols and the Dynamics of Layering Transitions. *Tribology Letters*, **2002**, 12, 123-129	2.8	15
86	Numerical Simulations of Electron Tunneling Currents in Water *Journal of Physical Chemistry A*, **2002**, 106, 10790-10796	2.8	24
85	The relationship between electron transfer rate and molecular conduction 2. The sequential hopping case. *Israel Journal of Chemistry*, **2002**, 42, 163-166	3.4	51
84	Traversal Times for Resonant Tunneling *Journal of Physical Chemistry B*, **2002**, 106, 8306-8312	3.4	7
83	Numerical computation of tunneling fluxes. *Journal of Chemical Physics*, **2002**, 117, 10817-10826	3.9	38
82	Heating in current carrying molecular junctions. *Journal of Chemical Physics*, **2002**, 117, 3915-3927	3.9	94

81	Steady-state quantum mechanics of thermally relaxing systems. *Chemical Physics*, **2001**, 268, 315-335	2.3	54
80	Inelastic effects in electron tunneling through water layers. *Journal of Chemical Physics*, **2001**, 115, 2681-2694	3.9	12
79	Traversal time for electron tunneling in water. *Journal of Chemical Physics*, **2001**, 114, 9205-9208	3.9	13
78	Electron transmission through molecules and molecular interfaces. *Annual Review of Physical Chemistry*, **2001**, 52, 681-750	15.7	808
77	A Relationship between Electron-Transfer Rates and Molecular Conduction *Journal of Physical Chemistry A*, **2001**, 105, 2677-2679	2.8	177
76	Electron Transfer Rates in Bridged Molecular Systems 2. A Steady-State Analysis of Coherent Tunneling and Thermal Transitions *Journal of Physical Chemistry B*, **2000**, 104, 3817-3829	3.4	274
75	Tunneling Time for Electron Transfer Reactions. *Journal of Physical Chemistry B*, **2000**, 104, 5661-5665	3.4	86
74	Transient resonance structures in electron tunneling through water. *Journal of Chemical Physics*, **1999**, 111, 7558-7566	3.9	39
73	Perturbation theory approach to tunneling: Direct and resonance transmission in super-exchange models. *Journal of Chemical Physics*, **1999**, 111, 1569-1579	3.9	19
72	Electron Transmission through Molecular Layers: Numerical Simulations and Theoretical Considerations. *Accounts of Chemical Research*, **1999**, 32, 854-861	24.3	18
71	Computing vibrational energy relaxation for high-frequency modes in condensed environments. *Journal of Chemical Physics*, **1997**, 107, 10470-10479	3.9	49
70	Constant pressure simulations of lattice gas models. *Journal of Chemical Physics*, **1997**, 106, 3703-3709	3.9	10
69	Electron tunneling through water layers: Effect of layer structure and thickness. *Journal of Chemical Physics*, **1997**, 106, 6647-6654	3.9	47
68	Asymmetric tunneling through ordered molecular layers. *Journal of Chemical Physics*, **1997**, 106, 1291-1293	3.9	18
67	Electron Transfer Rates in Bridged Molecular Systems: A Phenomenological Approach to Relaxation. *Journal of Physical Chemistry A*, **1997**, 101, 6158-6164	2.8	169
66	Phenomenology of Electron Solvation in Polar Fluids. *The Journal of Physical Chemistry*, **1996**, 100, 18916-18923	3.9	14
65	Dynamically disordered hopping, glass transition, and polymer electrolytes. *Journal of Chemical Physics*, **1995**, 103, 3253-3261	3.9	24
64	Solvation dynamics in dielectric solvents with restricted molecular rotations: Polyethers. *Journal of Chemical Physics*, **1995**, 102, 7180-7196	3.9	65

63	On the application of instantaneous normal mode analysis to long time dynamics of liquids. *Journal of Chemical Physics*, **1995**, 103, 2169-2177	3.9	41
62	Numerical studies of solvation dynamics in electrolyte solutions. *AIP Conference Proceedings*, **1994**,	0	3
61	Lattice theory of solvation and dissociation in macromolecular fluids. II. Quasichemical approximation. *Journal of Chemical Physics*, **1994**, 101, 2338-2349	3.9	12
60	Lattice theory of solvation and dissociation in macromolecular fluids. I. Mean field approximation. *Journal of Chemical Physics*, **1994**, 100, 705-718	3.9	17
59	Electron tunneling through a dielectric barrier. *Journal of Chemical Physics*, **1994**, 101, 8224-8237	3.9	7
58	Numerical simulations of solvation dynamics in electrolyte solutions. *Journal of Chemical Physics*, **1994**, 100, 3855-3868	3.9	47
57	The Mechanism and Modeling of Conductivity in Polymer Electrolytes. *Materials Research Society Symposia Proceedings*, **1994**, 369, 245		
56	Semiclassical evaluation of nonadiabatic rates in condensed phases. *Journal of Chemical Physics*, **1993**, 99, 1109-1123	3.9	190
55	MULTIDIMENSIONAL BARRIER CROSSING **1993**, 42-81		5
54	Comment on: Self-consistent theory of polymer dynamics in melts. *Journal of Chemical Physics*, **1992**, 97, 3873-3874	3.9	8
53	Simulations of solvation dynamics in simple polar solvents. *Journal of Chemical Physics*, **1992**, 96, 5433-5440	3.9	104
52	Dynamics of Multidimensional Barrier Crossing in the Overdamped Limit. *Zeitschrift Fur Elektrotechnik Und Elektrochemie*, **1991**, 95, 319-326		19
51	On the nonclassical asymptotic behavior of electronic properties in metal clusters. *Journal of Chemical Physics*, **1991**, 95, 9024-9027	3.9	20
50	Dynamics, Spectra, and Relaxation Phenomena of Excess Electrons in Clusters. *Israel Journal of Chemistry*, **1990**, 30, 85-105	3.4	21
49	Dynamic percolation theory for diffusion of interacting particles. *Journal of Chemical Physics*, **1990**, 92, 1329-1338	3.9	26
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47	Dynamics of excess electron migration, solvation, and spectra in polar molecular clusters. *Journal of Chemical Physics*, **1989**, 91, 5567-5580	3.9	59
46	Relaxation dynamics following transition of solvated electrons. *Journal of Chemical Physics*, **1989**, 90, 4413-4422	3.9	111

45	Quantum simulations and ab initio electronic structure studies of (H2O)2. *Journal of Chemical Physics*, **1989**, 91, 7797-7808	3.9	55
44	Correlated dynamic percolation: Many bond effective-medium theory. *Journal of Chemical Physics*, **1989**, 90, 3784-3794	3.9	30
43	Vibrational energy transfer in solutions: From diffusive to impulsive binary collisions. *Journal of Chemical Physics*, **1988**, 89, 5589-5597	3.9	5
42	The effect of small cluster environment on molecular oscillator strengths and spectra. *Journal of Chemical Physics*, **1988**, 88, 3516-3523	3.9	21
41	Dynamics and spectra of a solvated electron in water clusters. *Journal of Chemical Physics*, **1988**, 89, 2242-2256	3.9	101
40	Traversal time for tunneling: Local aspects. *Journal of Chemical Physics*, **1988**, 88, 3871-3878	3.9	13
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38	Path integral approach to electrostatic problems. *Journal of Chemical Physics*, **1987**, 86, 3557-3564	3.9	6
37	Random walk in dynamically disordered systems. *The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties*, **1987**, 56, 853-859		12
36	Unimolecular reactions in condensed phases: Is the turnover in the viscosity dependence of the rate observable?. *Journal of Chemical Physics*, **1985**, 82, 1614-1616	3.9	34
35	Photophysics and photochemistry near surfaces and small particles. *Surface Science*, **1985**, 158, 165-189	1.8	154
34	Non-Markovian theory of activated rate processes. IV. The double well model. *Journal of Chemical Physics*, **1984**, 80, 3596-3605	3.9	61
33	Accelerated energy transfer between molecules near a solid particle. *Chemical Physics Letters*, **1984**, 104, 31-37	2.5	115
32	Stochastic classical trajectory approach to relaxation phenomena. III. Comparison of trajectory results to quantum mechanical perturbation theory. *Journal of Chemical Physics*, **1983**, 78, 3959-3963	3.9	31
31	Dynamic bond percolation theory: A microscopic model for diffusion in dynamically disordered systems. I. Definition and one-dimensional case. *Journal of Chemical Physics*, **1983**, 79, 3133-3142	3.9	240
30	Motion mechanisms in framework solid electrolytes: Correlated hopping and liquidlike diffusion. *Journal of Chemical Physics*, **1983**, 78, 4154-4161	3.9	8
29	Non-Markovian theory of activated rate processes. I. Formalism. *Journal of Chemical Physics*, **1983**, 79, 393-404	3.9	92
28	The enhancement of Raman scattering, resonance Raman scattering, and fluorescence from molecules adsorbed on a rough silver surface. *Journal of Chemical Physics*, **1983**, 78, 5324-5338	3.9	431

27	Non-Markoffian Theory of Activated Rate Processes II. Thermal Desorption. *Israel Journal of Chemistry*, **1982**, 22, 360-364	3.4	7
26	Spectroscopic properties of molecules interacting with small dielectric particles. *Journal of Chemical Physics*, **1981**, 75, 1139-1152	3.9	626
25	Finite time optimizations of a Newton's law Carnot cycle. *Journal of Chemical Physics*, **1981**, 74, 3546-3560	3.9	194
24	Can photochemistry be enhanced on rough surfaces?. *Journal of Chemical Physics*, **1981**, 74, 5321-5322	3.9	94
23	Theoretical model for enhanced photochemistry on rough surfaces. *Journal of Chemical Physics*, **1981**, 75, 2205-2214	3.9	235
22	Random coupling models for intramolecular dynamics. I. Mathematical approach. *Journal of Chemical Physics*, **1980**, 72, 2054-2069	3.9	49
21	Numerical simulations of molecular multiphoton excitation models. *Journal of Chemical Physics*, **1980**, 72, 1928-1937	3.9	34
20	Random coupling models for intramolecular dynamics. II. Kinetic equations for collisionless multiphoton excitation of large molecules. *Journal of Chemical Physics*, **1980**, 72, 2070-2080	3.9	24
19	Electromagnetic theory of enhanced Raman scattering by molecules adsorbed on rough surfaces. *Journal of Chemical Physics*, **1980**, 73, 3023-3037	3.9	916
18	Theory of inverse electronic relaxation. *Journal of Chemical Physics*, **1979**, 71, 3524-3532	3.9	49
17	Stochastic classical trajectory approach to relaxation phenomena. I. Vibrational relaxation of impurity molecules in solid matrices. *Journal of Chemical Physics*, **1978**, 69, 336	3.9	70
16	Stochastic classical trajectory approach to relaxation phenomena. II. Vibrational relaxation of impurity molecules in Debye solids. *Journal of Chemical Physics*, **1978**, 69, 2525	3.9	40
15	On the theory of time resolved near-resonance light scattering. *Journal of Chemical Physics*, **1975**, 63, 1289-1294	3.9	32
14	On the coupling between vibrational relaxation and molecular electronic transitions. *Molecular Physics*, **1974**, 28, 559-569	1.7	2
13	Non radiative transition probabilities in the statistical limit. *Theoretica Chimica Acta*, **1973**, 30, 217-229		38
12	Electronic relaxation of small molecules in a dense medium. *Theoretica Chimica Acta*, **1973**, 29, 97-116		41
11	Effects of vibrational relaxation on molecular electronic transitions. *Journal of Chemical Physics*, **1973**, 58, 2412-2434	3.9	33
10	Vibrational relaxation of a molecule in a dense medium. *Molecular Physics*, **1973**, 25, 713-734	1.7	170

9	Comments on optical selection studies. *Journal of Chemical Physics*, **1973**, 58, 2669-2670	3.9	3
8	Interference effects in sequential decay. *Molecular Physics*, **1973**, 26, 281-290	1.7	38
7	Line shape of a molecular resonance. *Molecular Physics*, **1972**, 24, 109-131	1.7	34
6	Resonance Fluorescence from Large Molecules. *Journal of Chemical Physics*, **1972**, 57, 2870-2889	3.9	54
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