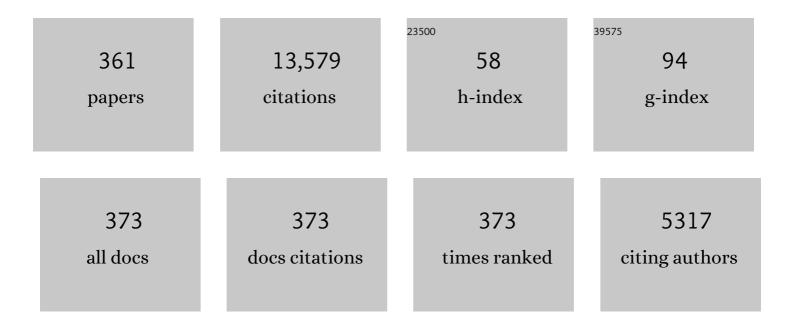
Raphael David Levine

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Time evolution of entanglement of electrons and nuclei and partial traces in ultrafast photochemistry. Physical Chemistry Chemical Physics, 2022, 24, 17516-17525.	1.3	5
2	DNA-based constitutional dynamic networks as functional modules for logic gates and computing circuit operations. Chemical Science, 2021, 12, 5473-5483.	3.7	19
3	The density matrix via few dominant observables: The quantum interference in the isotope effect for atto-pumped N2. Journal of Chemical Physics, 2021, 155, 024109.	1.2	4
4	Ultrafast fs coherent excitonic dynamics in CdSe quantum dots assemblies addressed and probed by 2D electronic spectroscopy. Journal of Chemical Physics, 2021, 154, 014301.	1.2	13
5	Ultrafast geometrical reorganization of a methane cation upon sudden ionization: an isotope effect on electronic non-equilibrium quantum dynamics. Physical Chemistry Chemical Physics, 2021, 23, 12051-12059.	1.3	19
6	Electronic Coherences Steer the Strong Isotope Effect in the Ultrafast Jahn–Teller Structural Rearrangement of Methane Cation upon Tunnel Ionization. Journal of Physical Chemistry A, 2021, 125, 9495-9507.	1.1	6
7	Compacting the density matrix in quantum dynamics: Singular value decomposition of the surprisal and the dominant constraints for anharmonic systems. Journal of Chemical Physics, 2021, 155, 204110.	1.2	1
8	Thermodynamic energetics underlying genomic instability and whole-genome doubling in cancer. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18880-18890.	3.3	4
9	Quantum Device Emulates the Dynamics of Two Coupled Oscillators. Journal of Physical Chemistry Letters, 2020, 11, 6990-6995.	2.1	16
10	Massively parallel classical logic via coherent dynamics of an ensemble of quantum systems with dispersion in size. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21022-21030.	3.3	11
11	Correlated electron–nuclear motion during non-adiabatic transitions in LiH and its isotopomers. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 134001.	0.6	7
12	Surprisal of a quantum state: Dynamics, compact representation, and coherence effects. Journal of Chemical Physics, 2020, 153, 214105.	1.2	5
13	Parallel Quantum Computation of Vibrational Dynamics. Frontiers in Physics, 2020, 8, .	1.0	4
14	Temporal and spatially resolved imaging of the correlated nuclear-electronic dynamics and of the ionized photoelectron in a coherently electronically highly excited vibrating LiH molecule. Journal of Chemical Physics, 2019, 151, 134310.	1.2	16
15	Time resolved mechanism of the isotope selectivity in the ultrafast light induced dissociation in N2. Journal of Chemical Physics, 2019, 151, 114308.	1.2	11
16	Intracellular redox potential is correlated with miRNA expression in MCF7 cells under hypoxic conditions. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19753-19759.	3.3	11
17	Consecutive feedback-driven constitutional dynamic networks. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2843-2848.	3.3	42
18	Propagation of nonstationary electronic and nuclear states: attosecond dynamics in LiF. Molecular Physics, 2018, 116, 2524-2532.	0.8	2

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19	Time-dependent view of an isotope effect in electron-nuclear nonequilibrium dynamics with applications to N ₂ . Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5890-5895.	3.3	20
20	Personalized disease signatures through information-theoretic compaction of big cancer data. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7694-7699.	3.3	27
21	Intercommunication of DNA-Based Constitutional Dynamic Networks. Journal of the American Chemical Society, 2018, 140, 8721-8731.	6.6	52
22	A Probabilistic Finite State Logic Machine Realized Experimentally on a Single Dopant Atom. Nano Letters, 2017, 17, 1846-1852.	4.5	9
23	Continuous variables logic via coupled automata using a DNAzyme cascade with feedback. Chemical Science, 2017, 8, 2161-2168.	3.7	24
24	Spatial and temporal control of populations, branching ratios, and electronic coherences in LiH by a single one-cycle infrared pulse. Physical Review A, 2017, 95, .	1.0	25
25	Coherent electronic and nuclear dynamics in a rhodamine heterodimer–DNA supramolecular complex. Physical Chemistry Chemical Physics, 2017, 19, 23043-23051.	1.3	24
26	Photochemistry of highly excited states. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13594-13596.	3.3	7
27	Pumping and probing vibrational modulated coupled electronic coherence in HCN using short UV fs laser pulses: a 2D quantum nuclear dynamical study. Physical Chemistry Chemical Physics, 2017, 19, 19837-19846.	1.3	4
28	Electronic and Nuclear Dynamics for a Non-Equilibrium Electronic State: The Ultrafast Pumping of N2. Progress in Theoretical Chemistry and Physics, 2017, , 195-208.	0.2	2
29	Controlling Coherent Quantum Nuclear Dynamics in LiH by Ultra Short IR Atto Pulses. Springer Series in Chemical Physics, 2017, , 41-65.	0.2	1
30	Intercellular signaling through secreted proteins induces free-energy gradient-directed cell movement. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5520-5525.	3.3	37
31	A Thermodynamic-Based Interpretation of Protein Expression Heterogeneity in Different Glioblastoma Multiforme Tumors Identifies Tumor-Specific Unbalanced Processes. Journal of Physical Chemistry B, 2016, 120, 5990-5997.	1.2	11
32	Quantum Nuclear Dynamics Pumped and Probed by Ultrafast Polarization Controlled Steering of a Coherent Electronic State in LiH. Journal of Physical Chemistry A, 2016, 120, 3343-3352.	1.1	23
33	Probing in Space and Time the Nuclear Motion Driven by Nonequilibrium Electronic Dynamics in Ultrafast Pumped N ₂ . Journal of Physical Chemistry A, 2016, 120, 3335-3342.	1.1	13
34	Information processing in parallel through directionally resolved molecular polarization components in coherent multidimensional spectroscopy. Journal of Chemical Physics, 2015, 143, 064106.	1.2	10
35	Coherent Electronic Wave Packet Motion in Ammi:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mrow><mml:mrow><mml:mi mathvariant="normal">C</mml:mi </mml:mrow><mml:mrow><mml:mrow><0</mml:mrow></mml:mrow></mml:mrow> <	2.9 Isub> <td>51 :mrow></td>	51 :mrow>
36	by the Waveform and Polarization of Few-Cycle Laser Fields. Physical Review Letters, 2015, 114, 123004. Parallel and Multivalued Logic by the Two-Dimensional Photon-Echo Response of a Rhodamine–DNA Complex. Journal of Physical Chemistry Letters, 2015, 6, 1714-1718.	2.1	26

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37	Ternary DNA computing using 3 $ ilde{A}$ — 3 multiplication matrices. Chemical Science, 2015, 6, 1288-1292.	3.7	37
38	Metabolomic analysis of the green microalga Chlamydomonas reinhardtii cultivated under day/night conditions. Journal of Biotechnology, 2015, 215, 20-26.	1.9	25
39	Statistical thermodynamics of transcription profiles in normal development and tumorigeneses in cohorts of patients. European Biophysics Journal, 2015, 44, 709-726.	1.2	8
40	Computational Surprisal Analysis Speeds-Up Genomic Characterization of Cancer Processes. PLoS ONE, 2014, 9, e108549.	1.1	3
41	Surprisal analysis characterizes the free energy time course of cancer cells undergoing epithelial-to-mesenchymal transition. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13235-13240.	3.3	47
42	Control of electronic dynamics visualized by angularly resolved photoelectron spectra: A dynamical simulation with an IR pump and XUV attosecond-pulse-train probe. Physical Review A, 2014, 89, .	1.0	29
43	Glioblastoma cellular architectures are predicted through the characterization of two-cell interactions. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6521-6526.	3.3	52
44	A full-adder based on reconfigurable DNA-hairpin inputs and DNAzyme computing modules. Chemical Science, 2014, 5, 3381.	3.7	80
45	DNAzyme-based 2:1 and 4:1 multiplexers and 1:2 demultiplexer. Chemical Science, 2014, 5, 1074.	3.7	78
46	Electronic Dynamics by Ultrafast Pump Photoelectron Detachment Probed by Ionization: A Dynamical Simulation of Negative–Neutral–Positive in LiH [–] . Journal of Physical Chemistry A, 2014, 118, 6721-6729.	1.1	14
47	Massive isotopic effect in vacuum UV photodissociation of N ₂ and implications for meteorite data. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14704-14709.	3.3	50
48	Charge migration in the bifunctional PENNA cation induced and probed by ultrafast ionization: a dynamical study. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 124011.	0.6	57
49	Pump and Probe of Ultrafast Charge Reorganization in Small Peptides: A Computational Study through Sudden Ionizations. Journal of Physical Chemistry A, 2013, 117, 10513-10525.	1.1	34
50	Molecular decision trees realized by ultrafast electronic spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17183-17188.	3.3	26
51	miRNA and mRNA cancer signatures determined by analysis of expression levels in large cohorts of patients. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19160-19165.	3.3	64
52	Free Energy Rhythms in <i>Saccharomyces cerevisiae</i> : A Dynamic Perspective with Implications for Ribosomal Biogenesis. Biochemistry, 2013, 52, 1641-1648.	1.2	10
53	Hypoxia induces a phase transition within a kinase signaling network in cancer cells. Proceedings of the United States of America, 2013, 110, E1352-60.	3.3	61
54	Realization of Complex Logic Operations at the Nanoscale. Advances in Atom and Single Molecule Machines, 2013, , 195-220.	0.0	3

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55	Ultrafast Predissociation Mechanism of the ¹ Î _u States of ¹⁴ N ₂ and Its Isotopomers upon Attosecond Excitation from the Ground State. Journal of Physical Chemistry A, 2012, 116, 11311-11318.	1.1	17
56	Localized electron dynamics in attosecond-pulse-excited molecular systems: Probing the time-dependent electron density by sudden photoionization. Physical Review A, 2012, 86, .	1.0	53
57	Logic reversibility and thermodynamic irreversibility demonstrated by DNAzyme-based Toffoli and Fredkin logic gates. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 21228-21233.	3.3	82
58	On a fundamental structure of gene networks in living cells. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4702-4707.	3.3	48
59	Stereocontrol of attosecond time-scale electron dynamics in ABCU using ultrafast laser pulses: a computational study. Physical Chemistry Chemical Physics, 2011, 13, 8331.	1.3	32
60	Protein Signaling Networks from Single Cell Fluctuations and Information Theory Profiling. Biophysical Journal, 2011, 100, 2378-2386.	0.2	55
61	Whose Entropy: A Maximal Entropy Analysis of Phosphorylation Signaling. Journal of Statistical Physics, 2011, 144, 429-442.	0.5	3
62	Convergence of Logic of Cellular Regulation in Different Premalignant Cells by an Information Theoretic Approach. BMC Systems Biology, 2011, 5, 42.	3.0	26
63	Integrated logic circuits using single-atom transistors. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13969-13972.	3.3	37
64	Attosecond pumping of nonstationary electronic states of LiH: Charge shake-up and electron density distortion. Physical Review A, 2011, 83, .	1.0	42
65	On the strong and selective isotope effect in the UV excitation of N ₂ with implications toward the nebula and Martian atmosphere. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6020-6025.	3.3	48
66	Redox-Executed Logic Operations through the Reversible Voltammetric Response Characteristics of Electroactive Self-Assembled Monolayers. Australian Journal of Chemistry, 2010, 63, 173.	0.5	7
67	Logic implementations using a single nanoparticle–protein hybrid. Nature Nanotechnology, 2010, 5, 451-457.	15.6	31
68	All-DNA finite-state automata with finite memory. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21996-22001.	3.3	129
69	Ternary logic implemented on a single dopant atom field effect silicon transistor. Applied Physics Letters, 2010, 96, .	1.5	25
70	Maximal entropy inference of oncogenicity from phosphorylation signaling. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6112-6117.	3.3	12
71	Information-theoretic analysis of phenotype changes in early stages of carcinogenesis. Proceedings of the United States of America, 2010, 107, 10324-10329.	3.3	81
72	Electrically Addressing a Molecule-Like Donor Pair in Silicon: An Atomic Scale Cyclable Full Adder Logic. Journal of Physical Chemistry C, 2010, 114, 20380-20386.	1.5	10

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73	The post-Born–Oppenheimer regime: dynamics of electronic motion in molecules by attosecond few-cycle spectroscopy. Physica Scripta, 2009, 80, 048101.	1.2	28
74	The Elimination of Redundant Constraints in Surprisal Analysis of Unimolecular Dissociation and Other Endothermic Processes. Journal of Physical Chemistry A, 2009, 113, 4658-4664.	1.1	5
75	Pump and probe ultrafast electron dynamics in LiH: a computational study. New Journal of Physics, 2008, 10, 025019.	1.2	87
76	All Optical Full Adder Based on Intramolecular Electronic Energy Transfer in the Rhodamineâ^'Azulene Bichromophoric System. Journal of Physical Chemistry C, 2008, 112, 15880-15885.	1.5	22
77	Principles of design of a set-reset finite state logic nanomachine. Journal of Applied Physics, 2008, 104,	1.1	12
78	Probing Ultrafast Purely Electronic Charge Migration in Small Peptides. Zeitschrift Fur Physikalische Chemie, 2007, 221, 647-661.	1.4	57
79	The entropy of a single large finite system undergoing both heat and work transfer. Molecular Physics, 2007, 105, 419-427.	0.8	6
80	Laser Steered Ultrafast Quantum Dynamics of Electrons in LiH. Physical Review Letters, 2007, 99, 183902.	2.9	121
81	Transcending Binary Logic by Gating Three Coupled Quantum Dots. Nano Letters, 2007, 7, 2795-2799.	4.5	32
82	Time-Resolved Electrochemical Spectroscopy of Charge Migration in Molecular Wires:  Computational Evidence for Rich Electronic Dynamics. Journal of Physical Chemistry C, 2007, 111, 2301-2309.	1.5	11
83	The Emergence of a Coupled Quantum Dot Array in a Doped Silicon Nanowire Gated by Ultrahigh Density Top Gate Electrodesâ€. Journal of Physical Chemistry C, 2007, 111, 17852-17860.	1.5	6
84	Separation of Time Scales in the Dynamics of High Molecular Rydberg States. Advances in Chemical Physics, 2007, , 625-646.	0.3	6
85	Fluctuations in Spectral Intensities and Transition Rates. Advances in Chemical Physics, 2007, , 53-95.	0.3	69
86	Level Structure and Dynamics from Diatomics to Clusters. Advances in Chemical Physics, 2007, , 1-34.	0.3	13
87	Photoselective Chemistry. Advances in Chemical Physics, 2007, , 1-114.	0.3	81
88	The Information Theoretic Approach to Intramolecular Dynamics. Advances in Chemical Physics, 2007, , 239-292.	0.3	37
89	Towards parallel computing: representation of a linear finite state digital logic machine by a molecular relaxation process. European Physical Journal D, 2007, 42, 49-59.	0.6	8
90	Electrical transport in saturated and conjugated molecular wires. Faraday Discussions, 2006, 131, 45-67.	1.6	27

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91	Dissociation Kinetics of Peptide Ionsâ€. Journal of Physical Chemistry A, 2006, 110, 8497-8500.	1.1	31
92	Mechanical Simulation of the Pressure and the Relaxation to Thermal Equilibrium of a Hot and Dense Rare Gas Cluster. Journal of Physical Chemistry B, 2006, 110, 24070-24076.	1.2	1
93	Probing electronic rearrangement during chemical reactions. Physica Scripta, 2006, 73, C1-C5.	1.2	5
94	The time scale for electronic reorganization upon sudden ionization of the water and water-methanol hydrogen bonded dimers and of the weakly bound NO dimer. Journal of Chemical Physics, 2006, 125, 133321.	1.2	28
95	A mechanical representation of entropy for a large finite system. Journal of Chemical Physics, 2006, 125, 144516.	1.2	10
96	All-optical digital logic: Full addition or subtraction on a three-state system. Physical Review A, 2006, 73, .	1.0	42
97	An electronic time scale in chemistry. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6793-6798.	3.3	354
98	A Counter Based on the Electrical Input/Output Stimuli Activation of an Array of Quantum Dots. ChemPhysChem, 2005, 6, 1239-1242.	1.0	14
99	Evanescent high pressure during hypersonic cluster-surface impact characterized by the virial theorem. Journal of Chemical Physics, 2005, 123, 194307.	1.2	7
100	Electrical addressing of confined quantum systems for quasiclassical computation and finite state logic machines. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5653-5658.	3.3	44
101	Level crossing conductance spectroscopy of molecular bridges. Applied Physics Letters, 2004, 85, 1725-1727.	1.5	12
102	Nanowiring by Molecules. Journal of Physical Chemistry B, 2004, 108, 18129-18134.	1.2	19
103	Quasiclassical computation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12091-12095.	3.3	19
104	Electronic and electrical response of arrays of metallic quantum dots. International Journal of Quantum Chemistry, 2004, 99, 743-751.	1.0	8
105	Systematics of Collision-Induced Light Emission from Hot Matterâ€. Journal of Physical Chemistry A, 2004, 108, 8949-8953.	1.1	6
106	Collision-Induced IR Emission Spectra of Impact-Heated Rare-Gas Clusters. Journal of Physical Chemistry A, 2003, 107, 9567-9574.	1.1	14
107	Gating the Conductivity of Arrays of Metallic Quantum Dots. Journal of Physical Chemistry B, 2003, 107, 13892-13901.	1.2	48
108	Voltage-induced phase transition in arrays of metallic nanodots: Computed transport and surface potential structure. Applied Physics Letters, 2003, 82, 4543-4545.	1.5	8

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109	Spectroscopic characterization of collision-induced electronic deformation energy using sum rules. Journal of Chemical Physics, 2003, 119, 4283-4293.	1.2	13
110	SURVEY OF STRUCTURE, ENERGETICS AND DYNAMICS OF CLUSTERS. Advanced Series in Physical Chemistry, 2003, , 1-77.	1.5	3
111	Improved corresponding states scaling of the equations of state of simple fluids. Journal of Chemical Physics, 2002, 117, 4632-4634.	1.2	15
112	Quantum dot artificial solids: Understanding the static and dynamic role of size and packing disorder. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 6456-6459.	3.3	50
113	Voltage-Induced Nonlinear Characteristics of Arrays of Metallic Quantum Dots. Nano Letters, 2002, 2, 697-701.	4.5	7
114	Current-voltage-temperature characteristics for 2D arrays of metallic quantum dots. Israel Journal of Chemistry, 2002, 42, 269-280.	1.0	15
115	Size Effects in the Electronic Properties of Finite Arrays of Exchange-Coupled Quantum Dots. Journal of Physical Chemistry B, 2002, 106, 12847-12850.	1.2	13
116	Conductivity of 2-D Ag Quantum Dot Arrays:Â Computational Study of the Role of Size and Packing Disorder at Low Temperatures. Journal of Physical Chemistry B, 2002, 106, 4116-4126.	1.2	38
117	Intermolecular and Intramolecular Logic Gates. Journal of Physical Chemistry B, 2001, 105, 5589-5591.	1.2	124
118	On the crossing of electronic energy levels of diatomic molecules at the large-Dlimit. Journal of Chemical Physics, 2001, 114, 9697-9705.	1.2	5
119	Superexchange, Localized, and Domain-Localized Charge States for Intramolecular Electron Transfer in Large Molecules and in Arrays of Quantum Dots. Journal of Physical Chemistry B, 2001, 105, 2153-2162.	1.2	32
120	Electronâ^'Nuclear Coupling in the Classical Limit for the Electronic Degrees of Freedomâ€. Journal of Physical Chemistry A, 2001, 105, 2708-2715.	1.1	14
121	Quantum Dots as Chemical Building Blocks: Elementary Theoretical Considerations. ChemPhysChem, 2001, 2, 20-36.	1.0	122
122	Electronic Isomerism: Symmetry Breaking and Electronic Phase Diagrams for Diatomic Molecules at the Large-Dimension Limit. ChemPhysChem, 2001, 2, 434-442.	1.0	11
123	IR-UV Double-Resonance Photodissociation of Nitric Acid (HONO2) Viewed as Molecular Information Processing. Angewandte Chemie - International Edition, 2001, 40, 2512-2514.	7.2	18
124	Logic gates using high Rydberg states. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 2973-2978.	3.3	29
125	Towards a molecular logic machine. Journal of Chemical Physics, 2001, 114, 10239-10246.	1.2	45
126	A molecular logic gate. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 410-414.	3.3	126

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127	Excitation of Rydberg Series inC60. Physical Review Letters, 2001, 87, 273401.	2.9	56
128	Essentials of Cluster Impact Chemistry. , 2001, , 849-872.		5
129	On the classical limit for electronic structure and dynamics in the orbital approximation. Journal of Chemical Physics, 2000, 113, 4515-4523.	1.2	10
130	Architecture with designer atoms: Simple theoretical considerations. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 553-558.	3.3	34
131	On a classical limit for electronic degrees of freedom that satisfies the Pauli exclusion principle. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 1965-1969.	3.3	8
132	DELAYED IONIZATION AND FRAGMENTATION EN ROUTE TO THERMIONIC EMISSION: Statistics and Dynamics. Annual Review of Physical Chemistry, 2000, 51, 65-98.	4.8	141
133	Broken Symmetry in the Density of Electronic States of an Array of Quantum Dots As Computed for Scanning Tunneling Microscopyâ€. Journal of Physical Chemistry A, 2000, 104, 10435-10441.	1.1	12
134	Electronic Response of Assemblies of Designer Atoms:  The Metalâ^'Insulator Transition and the Role of Disorder. Journal of the American Chemical Society, 2000, 122, 4084-4091.	6.6	53
135	Configuration Interaction between Covalent and Ionic States in the Quantal and Semiclassical Limits with Application to Coherent and Hopping Charge Migration. Journal of Physical Chemistry A, 2000, 104, 2341-2350.	1.1	18
136	Driving High Threshold Chemical Reactions by Cluster-Surface Collisions:Â Molecular Dynamics Simulations for CH3I Clusters. Journal of Physical Chemistry A, 1999, 103, 10179-10186.	1.1	12
137	Electronic Control of Site Selective Reactivity:Â A Model Combining Charge Migration and Dissociation. Journal of Physical Chemistry A, 1999, 103, 10149-10158.	1.1	89
138	Charge migration and control of site selective reactivity: The role of covalent and ionic states. Journal of Chemical Physics, 1999, 110, 5089-5099.	1.2	47
139	On the independence of correlated events. International Journal of Quantum Chemistry, 1999, 74, 467-478.	1.0	5
140	The Dynamics of Electron $\hat{a} \in \hat{~}$ Core Interaction in High Molecular Rydberg States. , 1999, , 329-391.		0
141	Maximum Entropy Error Bound for Monte Carlo Sampling. Open Systems and Information Dynamics, 1998, 5, 303-317.	0.5	6
142	On the inverse Born-Oppenheimer separation for high Rydberg states of molecules. International Journal of Quantum Chemistry, 1998, 67, 85-100.	1.0	14
143	Prompt and Delayed Dissociation of Energy-Rich Larger Molecules. Journal of Physical Chemistry A, 1998, 102, 10195-10198.	1.1	13
144	Networks of Quantum Nanodots:Â The Role of Disorder in Modifying Electronic and Optical Properties. Journal of Physical Chemistry B, 1998, 102, 7727-7734.	1.2	53

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145	Collisional energy loss in cluster surface impact: Experimental, model, and simulation studies of some relevant factors. Journal of Chemical Physics, 1998, 108, 10262-10273.	1.2	54
146	Time and frequency resolved spectra of high molecular Rydberg states by dynamical computations. Journal of Chemical Physics, 1997, 107, 3392-3401.	1.2	8
147	Non-adiabatic molecular dynamics: Split-operator multiple spawning with applications to photodissociation. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 941-947.	1.7	51
148	Physical aspects and quantitative theory of time resolved spectroscopy of high molecular Rydberg states. Journal of Chemical Physics, 1997, 107, 3382-3391.	1.2	16
149	Molecular Collision Dynamics on Several Electronic States. Journal of Physical Chemistry A, 1997, 101, 6389-6402.	1.1	114
150	Nonstationary Electronic States and Site-Selective Reactivity. Journal of Physical Chemistry A, 1997, 101, 7702-7710.	1.1	113
151	Dynamical Stereochemistry on Several Electronic States:Â A Computational Study of Na* + H2. Journal of Physical Chemistry A, 1997, 101, 7522-7529.	1.1	20
152	On the zero point energy in classical trajectory computations. Journal of Chemical Physics, 1996, 105, 8136-8141.	1.2	54
153	Multi-Electronic-State Molecular Dynamics:Â A Wave Function Approach with Applications. The Journal of Physical Chemistry, 1996, 100, 7884-7895.	2.9	371
154	Time and Frequency Resolved ZEKE Spectroscopy. The Journal of Physical Chemistry, 1996, 100, 19735-19739.	2.9	9
155	Solventâ€induced nonadiabatic transitions in iodine: An ultrafast pump–probe computational study. Journal of Chemical Physics, 1996, 105, 3035-3056.	1.2	41
156	Unimolecular Dissociation from a Dense Set of States. The Journal of Physical Chemistry, 1996, 100, 7962-7971.	2.9	27
157	Rotational autoionization and interseries coupling of high Rydberg states by the anisotropy of the molecular core: The quantal long time evolution. Journal of Chemical Physics, 1996, 105, 4649-4663.	1.2	31
158	On the shattering of clusters by surface impact heating. Journal of Chemical Physics, 1996, 105, 8097-8102.	1.2	64
159	On the effects of an internal barrier on fast fourâ€atom ion–molecule reactions. Journal of Chemical Physics, 1996, 105, 953-964.	1.2	2
160	Decay of high Rydberg states: A paradigm for intramolecular dynamics in a congested bound level structure coupled to a continuum. Journal of Chemical Physics, 1996, 104, 1399-1414.	1.2	57
161	The dynamics of Rydberg states of molecules in the intermediate regime: The role of the vibrations. Journal of Chemical Physics, 1996, 104, 1937-1952.	1.2	21
162	Firstâ€principles molecular dynamics on multiple electronic states: A case study of NaI. Journal of Chemical Physics, 1996, 105, 6334-6341.	1.2	66

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163	Rydberg states about dipolar cores: The quantum dynamics of the long-range anisotropic interaction. Physical Review A, 1996, 54, 4789-4801.	1.0	21
164	Electric Field Effects on Long Living ZEKE States. The Journal of Physical Chemistry, 1996, 100, 15320-15327.	2.9	14
165	Overlapping Resonances, Multiple Time Regime Evolution Laws and the Sampling of Phase Space in Unimolecular Processes. Journal of the Chinese Chemical Society, 1995, 42, 381-392.	0.8	6
166	Shattering of Clusters Upon Surface Impact: An Experimental and Theoretical Study. Physical Review Letters, 1995, 75, 2670-2673.	2.9	80
167	Fragment size distribution in cluster impact: Shattering versus evaporation by a statistical approach. Journal of Chemical Physics, 1995, 103, 5394-5409.	1.2	72
168	Long lifetimes of high molecular Rydberg states in crossed magnetic and electric fields: An experimental and classical computational study. Physical Review A, 1995, 51, 3922-3933.	1.0	31
169	Dynamics and kinetics of molecular high Rydberg states in the presence of an electrical field: An experimental and classical computational study. Journal of Chemical Physics, 1995, 102, 1619-1638.	1.2	46
170	How Large Are High Molecular Rydberg States? A Direct Experimental Test. The Journal of Physical Chemistry, 1995, 99, 1660-1665.	2.9	22
171	Four-Center Reactions: A Computational Study of Collisional Activation, Concerted Bond Switching, and Collisional Stabilization in Impact Heated Clusters. The Journal of Physical Chemistry, 1995, 99, 7495-7506.	2.9	57
172	Concerted vs Sequential Four-Center Reactions: A Computational Study of High-Energy Dynamics. The Journal of Physical Chemistry, 1995, 99, 13713-13715.	2.9	26
173	Kinetics and dynamics of reactions in liquids. International Reviews in Physical Chemistry, 1995, 14, 215-270.	0.9	31
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