

# Rex T Skodje

## List of Publications by Year in descending order

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129  
papers

6,032  
citations

66343

42  
h-index

76900

74  
g-index

130  
all docs

130  
docs citations

130  
times ranked

3502  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | The role of the three body photodissociation channel of water in the evolution of dioxygen in astrophysical applications. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 9235-9248.                                  | 2.8  | 2         |
| 2  | Kinetic Study of Gas-Phase Reactions of Pyruvic Acid with HO <sub>2</sub> . <i>Journal of Physical Chemistry A</i> , 2021, 125, 2232-2242.   | 2.5  | 4         |
| 3  | Computational Investigation of the Role of Active Site Heterogeneity for a Supported Organovanadium(III) Hydrogenation Catalyst. <i>ACS Catalysis</i> , 2021, 11, 7257-7269.   | 11.2 | 16        |
| 4  | Single-Molecule Kinetics of Styrene Hydrogenation on Silica-Supported Vanadium: The Role of Disorder for Single-Atom Catalysts. <i>Journal of Physical Chemistry C</i> , 2021, 125, 20286-20300.                             | 3.1  | 10        |
| 5  | Gas-Phase Reaction Kinetics of Pyruvic Acid with OH Radicals: The Role of Tunneling, Complex Formation, and Conformational Structure. <i>Journal of Physical Chemistry A</i> , 2020, 124, 790-800.                           | 2.5  | 15        |
| 6  | Pathway-Switching Mechanism for Water-Catalyzed Ethanol Decomposition on Cu(111). <i>Journal of Physical Chemistry C</i> , 2020, 124, 9385-9393.   | 3.1  | 6         |
| 7  | A chemical pathway perspective on the kinetics of low-temperature ignition of propane. <i>Combustion and Flame</i> , 2019, 202, 154-178.   | 5.2  | 6         |
| 8  | First-Principles and Microkinetic Simulation Studies of the Structure Sensitivity of Cu Catalyst for Methanol Steam Reforming. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10811-10819.                              | 3.1  | 20        |
| 9  | Understanding Surface Catalyzed Decomposition Reactions Using a Chemical Pathway Analysis. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28158-28172.  | 3.1  | 8         |
| 10 | Double Hydrogen-Atom Exchange Reactions of HX (X = F, Cl, Br, I) with HO <sub>2</sub> . <i>Journal of Physical Chemistry A</i> , 2018, 122, 5251-5260.   | 2.5  | 6         |
| 11 | Three is the magic number. <i>Nature Chemistry</i> , 2017, 9, 1038-1039.   | 13.6 | 4         |
| 12 | Differentiating Intrinsic Reactivity of Copper, Copper-Zinc Alloy, and Copper/Zinc Oxide Interface for Methanol Steam Reforming by First-Principles Theory. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21553-21559. | 3.1  | 37        |
| 13 | Simulating Chemical Kinetics Without Differential Equations: A Quantitative Theory Based on Chemical Pathways. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3826-3833.  | 4.6  | 11        |
| 14 | The sum over histories representation for chemical kinetics: a quantitative theory based on chemical pathways. <i>International Reviews in Physical Chemistry</i> , 2016, 35, 539-567.                                       | 2.3  | 10        |
| 15 | Reaction Kinetics of HBr with HO <sub>2</sub> : A New Channel for Isotope Scrambling Reactions. <i>Journal of Physical Chemistry A</i> , 2016, 120, 8503-8511.   | 2.5  | 2         |
| 16 | Sum over Histories Representation for Kinetic Sensitivity Analysis: How Chemical Pathways Change When Reaction Rate Coefficients Are Varied. <i>Journal of Physical Chemistry A</i> , 2015, 119, 11039-11052.                | 2.5  | 14        |
| 17 | Sum over Histories Representation for Chemical Kinetics. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 183-188.  | 4.6  | 21        |
| 18 | Following Molecules through Reactive Networks: Surface Catalyzed Decomposition of Methanol on Pd(111), Pt(111), and Ni(111). <i>Journal of Physical Chemistry C</i> , 2014, 118, 12364-12383.                                | 3.1  | 35        |

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|----|--|------|-----------|
| 19 | Supported Single Pt <sub>1</sub> /Au <sub>1</sub> Atoms for Methanol Steam Reforming. ACS Catalysis, 2014, 4, 3886-3890.   | 11.2 | 204       |
| 20 | A semiclassical adiabatic calculation of state densities for molecules exhibiting torsion: application to hydrogen peroxide and its isotopomers. Theoretical Chemistry Accounts, 2014, 133, 1.   | 1.4  | 3         |
| 21 | A study of resonance progressions in the F + HCl → Cl + HF reaction: A lifetime matrix analysis of pre-reactive and post-reactive collision complexes. Journal of Chemical Physics, 2013, 138, 024309.   | 3.0  | 10        |
| 22 | Quantum Tunneling Affects Engine Performance. Journal of Physical Chemistry Letters, 2013, 4, 2021-2025.   | 4.6  | 19        |
| 23 | Multitarget Global Sensitivity Analysis of n-Butanol Combustion. Journal of Physical Chemistry A, 2013, 117, 3569-3584.  | 2.5  | 31        |
| 24 | Will water act as a photocatalyst for cluster phase chemical reactions? Vibrational overtone-induced dehydration reaction of methanediol. Journal of Chemical Physics, 2012, 136, 164302.  | 3.0  | 30        |
| 25 | A six-dimensional wave packet study of the vibrational overtone induced decomposition of hydrogen peroxide. Journal of Chemical Physics, 2012, 136, 164314.  | 3.0  | 9         |
| 26 | Theoretical Determination of the Rate Coefficient for the HO <sub>2</sub> + HO <sub>2</sub> → H <sub>2</sub> O <sub>2</sub> + O <sub>2</sub> Reaction: Adiabatic Treatment of Anharmonic Torsional Effects. Journal of Physical Chemistry A, 2012, 116, 2089-2100. | 2.5  | 35        |
| 27 | Resonances in Bimolecular Chemical Reactions. Advances in Quantum Chemistry, 2012, , 119-163.  | 0.8  | 12        |
| 28 | Global Sensitivity Analysis of Chemical-Kinetic Reaction Mechanisms: Construction and Deconstruction of the Probability Density Function. Journal of Physical Chemistry A, 2011, 115, 1556-1578.   | 2.5  | 46        |
| 29 | Uncertainty driven theoretical kinetics studies for CH <sub>3</sub> OH ignition: HO <sub>2</sub> +CH <sub>3</sub> OH and O <sub>2</sub> +CH <sub>3</sub> OH. Proceedings of the Combustion Institute, 2011, 33, 351-357.   | 3.9  | 149       |
| 30 | Dynamics and spectroscopy of vibrational overtone excited glyoxylic acid and 2,2-dihydroxyacetic acid in the gas-phase. Journal of Chemical Physics, 2010, 132, 094305.  | 3.0  | 22        |
| 31 | Theoretical Validation of Chemical Kinetic Mechanisms: Combustion of Methanol. Journal of Physical Chemistry A, 2010, 114, 8286-8301.  | 2.5  | 66        |
| 32 | First-Principles Study on the Origin of the Different Selectivities for Methanol Steam Reforming on Cu(111) and Pd(111). Journal of Physical Chemistry C, 2010, 114, 21539-21547.  | 3.1  | 137       |
| 33 | Water Catalysis and Anticatalysis in Photochemical Reactions: Observation of a Delayed Threshold Effect in the Reaction Quantum Yield. Journal of the American Chemical Society, 2010, 132, 15154-15157.   | 13.7 | 19        |
| 34 | Gas-phase vibrational spectra of glyoxylic acid and its gem diol monohydrate. Implications for atmospheric chemistry. Reaction Kinetics and Catalysis Letters, 2009, 96, 209-224.  | 0.6  | 49        |
| 35 | Fundamental and Overtone Vibrational Spectra of Gas-Phase Pyruvic Acid. Journal of Physical Chemistry A, 2009, 113, 7294-7303.   | 2.5  | 61        |
| 36 | Infrared spectra of SF <sub>6</sub> ...HCOOH...Ar <sup>n</sup> (n=1-2): Infrared triggered reaction and Ar-induced reactive inhibition. Journal of Chemical Physics, 2009, 130, 174302.  | 3.0  | 7         |

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|----|---|------|-----------|
| 37 | Dynamics of Vibrational Overtone Excited Pyruvic Acid in the Gas Phase: Line Broadening through Hydrogen-Atom Chattering. <i>Journal of Physical Chemistry A</i> , 2008, 112, 7321-7331.  | 2.5  | 74        |
| 38 | The Effect of Water on the CO Oxidation on Ag(111) and Au(111) Surfaces: A First-Principle Study. <i>Journal of Physical Chemistry C</i> , 2008, 112, 17303-17310.  | 3.1  | 160       |
| 39 | Experimental and Theoretical Study of the OH Vibrational Spectra and Overtone Chemistry of Gas-Phase Vinylacetic Acid. <i>Journal of Physical Chemistry A</i> , 2008, 112, 10226-10235.   | 2.5  | 24        |
| 40 | Dynamics of the Rydberg electron in $H^+ + D_2 \hat{\rightarrow} D^* + HD$ reactive collisions. <i>Journal of Chemical Physics</i> , 2007, 126, 104306.   | 3.0  | 8         |
| 41 | Vibrational overtone induced elimination reactions within hydrogen-bonded molecular clusters: the dynamics of water catalyzed reactions in $CH_2FOH \cdot (H_2O)_n$ . <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 3864-3871.  | 2.8  | 44        |
| 42 | Probing stereodynamics in reactive collisions using helicity filtering. <i>Chemical Physics Letters</i> , 2007, 434, 20-24.   | 2.6  | 8         |
| 43 | Experimental and Theoretical Investigation of Vibrational Overtones of Glycolic Acid and Its Hydrogen Bonding Interactions with Water. <i>Journal of Physical Chemistry A</i> , 2006, 110, 6439-6446.   | 2.5  | 41        |
| 44 | State to State to State Dynamics of the $D + H_2 \hat{\rightarrow} HD + H$ Reaction: Control of Transition-State Pathways via Reagent Orientation. <i>Physical Review Letters</i> , 2006, 96, 093201.   | 7.8  | 35        |
| 45 | A Simple Picture for the Rotational Enhancement of the Rate for the $F + HCl \hat{\rightarrow} HF + Cl$ Reaction: A Dynamical Study Using a New ab initio Potential Energy Surface. <i>Journal of Physical Chemistry A</i> , 2006, 110, 436-444.                                    | 2.5  | 43        |
| 46 | Observing the stereodynamics of chemical reactions using randomly oriented molecular beams. <i>Journal of Chemical Physics</i> , 2006, 124, 241105.   | 3.0  | 11        |
| 47 | Observation of Feshbach Resonances in the $F + H_2 \rightarrow HF + H$ Reaction. <i>Science</i> , 2006, 311, 1440-1443.   | 12.6 | 278       |
| 48 | Multireference configuration interaction calculations for the $F(P_2) + HCl \hat{\rightarrow} HF + Cl(P_2)$ reaction: A correlation scaled ground state ( $1A''^2$ ) potential energy surface. <i>Journal of Chemical Physics</i> , 2006, 124, 224303.                              | 3.0  | 49        |
| 49 | The state-to-state-to-state model for direct chemical reactions: Application to $D + H_2 \hat{\rightarrow} HD + H$ . <i>Journal of Chemical Physics</i> , 2006, 124, 144311.  | 3.0  | 28        |
| 50 | Quasi-classical Trajectory Study on the $H + H_2$ Reaction. <i>Chinese Journal of Chemical Physics</i> , 2006, 19, 375-378.   | 1.3  | 5         |
| 51 | An improved potential energy surface for the $F + H_2$ reaction. <i>Chemical Physics</i> , 2005, 308, 259-266.  | 1.9  | 40        |
| 52 | Chemical reaction dynamics of Rydberg atoms with neutral molecules: A comparison of molecular-beam and classical trajectory results for the $H(n) + D_2 \hat{\rightarrow} HD + D(n \hat{\rightarrow} \epsilon^2)$ reaction. <i>Journal of Chemical Physics</i> , 2005, 123, 074314. | 3.0  | 29        |
| 53 | State-to-State Dynamics of High-n Rydberg H-Atom Scattering with $D_2$ . <i>Physical Review Letters</i> , 2005, 95, 013201.   | 7.8  | 28        |
| 54 | Coarsening of multicomponent thin films. <i>Physical Review B</i> , 2004, 69, .   | 3.2  | 4         |

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|----|--|------|-----------|
| 55 | The observation of quantum bottleneck states. <i>International Reviews in Physical Chemistry</i> , 2004, 23, 253-287.  | 2.3  | 52        |
| 56 | THE EFFECT OF REACTIVE RESONANCE ON COLLISION OBSERVABLES. <i>Advanced Series in Physical Chemistry</i> , 2004, , 43-85.   | 1.5  | 0         |
| 57 | Kinetics of Multicomponent Nanosize Clusters on Solid Surfaces. <i>Langmuir</i> , 2003, 19, 7130-7140.   | 3.5  | 1         |
| 58 | Time delay as a tool to identify the signatures of reactive resonance: F+HD and F+H <sub>2</sub> reactions. <i>Journal of Chemical Physics</i> , 2003, 119, 1462-1472.   | 3.0  | 35        |
| 59 | Interference of Quantized Transition-State Pathways in the H + D <sub>2</sub> → D + HD Chemical Reaction. <i>Science</i> , 2003, 300, 1730-1734.   | 12.6 | 137       |
| 60 | A fully state- and angle-resolved study of the H+HD <sup>†</sup> D+H <sub>2</sub> reaction: Comparison of a molecular beam experiment to ab initio quantum reaction dynamics. <i>Journal of Chemical Physics</i> , 2002, 117, 8341-8361. | 3.0  | 60        |
| 61 | A globally smooth ab initio potential surface of the 1 <sup>st</sup> state for the reaction S(1D)+H <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2002, 116, 4124-4134.  | 3.0  | 84        |
| 62 | State-to-state dynamics of H+HD <sup>†</sup> H <sub>2</sub> +D at 0.5 eV: A combined theoretical and experimental study. <i>Journal of Chemical Physics</i> , 2002, 116, 4769.   | 3.0  | 30        |
| 63 | Resonances in bimolecular reactions. <i>PhysChemComm</i> , 2002, 5, 27.  | 0.8  | 39        |
| 64 | Signatures of reactive resonance: three case studies. <i>Theoretical Chemistry Accounts</i> , 2002, 108, 273-285.  | 1.4  | 53        |
| 65 | Forward scattering due to slow-down of the intermediate in the H + HD <sup>†</sup> D + H <sub>2</sub> reaction. <i>Nature</i> , 2002, 419, 281-284.  | 27.8 | 169       |
| 66 | Geometrical Simplification of Complex Kinetic Systems. <i>Journal of Physical Chemistry A</i> , 2001, 105, 10356-10365.  | 2.5  | 45        |
| 67 | Sequential Two-Photon Dissociation of Atmospheric Water. <i>Journal of Physical Chemistry A</i> , 2001, 105, 70-75.  | 2.5  | 7         |
| 68 | Quasi-Classical Trajectory Studies of the Insertion Reactions S(1D) + H <sub>2</sub> , HD, and D <sub>2</sub> . <i>Journal of Physical Chemistry A</i> , 2001, 105, 2474-2484.   | 2.5  | 44        |
| 69 | The search for resonance signatures in H+D <sub>2</sub> reaction dynamics. <i>Chemical Physics Letters</i> , 2001, 336, 364-370.   | 2.6  | 24        |
| 70 | Reaction dynamics of S( <sup>1</sup> D)+H <sub>2</sub> /D <sub>2</sub> on a new ab initio potential surface. <i>Journal of Chemical Physics</i> , 2001, 114, 320.  | 3.0  | 58        |
| 71 | Observation of a transition state resonance in the integral cross section of the F+HD reaction. <i>Journal of Chemical Physics</i> , 2000, 112, 4536-4552.   | 3.0  | 183       |
| 72 | The case for a reactive resonance in F+H <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2000, 113, 3487-3491.   | 3.0  | 49        |

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|----|---|-----|-----------|
| 73 | Resonance-Mediated Chemical Reaction: $F+HD \rightarrow HF+D$ . Physical Review Letters, 2000, 85, 1206-1209.   | 7.8 | 246       |
| 74 | Kinetic and Monte Carlo models of thin film coarsening: Cross over from diffusion-coalescence to Ostwald growth modes. Journal of Chemical Physics, 2000, 112, 1966-1974.   | 3.0 | 62        |
| 75 | Characterization of selective adsorption resonances for helium scattering from a highly corrugated surface using quantum wave packet dynamics. Journal of Chemical Physics, 1999, 111, 5167-5180.                 | 3.0 | 3         |
| 76 | Diffusion and evaporation kinetics of large islands and vacancies on surfaces. Journal of Chemical Physics, 1999, 111, 2726-2734.   | 3.0 | 15        |
| 77 | Control of transition state spectra: a variational algorithm. Chemical Physics, 1999, 240, 129-139.   | 1.9 | 2         |
| 78 | Geometric investigation of low-dimensional manifolds in systems approaching equilibrium. Journal of Chemical Physics, 1999, 111, 859-874.   | 3.0 | 113       |
| 79 | Structure and dynamics of the S3 state of CS2. Journal of Chemical Physics, 1997, 107, 6570-6576.   | 3.0 | 11        |
| 80 | Influence of cluster diffusion on the coarsening of Xe films on Pt(111). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1997, 15, 1275-1279.   | 2.1 | 5         |
| 81 | Quantum dynamics at the transition state Spectral quantization and spectral control theory applied to the FH2- photodetachment process. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 765-772. | 1.7 | 9         |
| 82 | Changes in Thin-Metal-Film Nanostructure at Near-Ambient Temperatures. ACS Symposium Series, 1997, , 152-168.   | 0.5 | 3         |
| 83 | A model surface reaction on stepped surfaces. Surface Science, 1996, 345, 173-184.  | 1.9 | 10        |
| 84 | Control of transition state spectra: Enhancement of diffuse structure in the photodissociation spectrum of CO2. Journal of Chemical Physics, 1996, 105, 7504-7516.  | 3.0 | 14        |
| 85 | Late-stage coarsening of adlayers by dynamic cluster coalescence. Physica A: Statistical Mechanics and Its Applications, 1996, 231, 631-647.  | 2.6 | 65        |
| 86 | Time-dependent morphology changes in thin silver films on mica: A scaling analysis of atomic force microscopy results. Journal of Chemical Physics, 1996, 105, 5542-5551.   | 3.0 | 35        |
| 87 | Exact solutions of the monomer-monomer reaction: Segregation, poisoning, and interface evolution. Physical Review E, 1996, 53, 335-342.   | 2.1 | 8         |
| 88 | Solvent-induced morphology changes in thin silver films. Analytica Chimica Acta, 1995, 307, 341-353.  | 5.4 | 39        |
| 89 | Spectroscopy of potential barriers: An analytic line-shape formula for broad resonances. Physical Review A, 1995, 52, 1996-2010.  | 2.5 | 27        |
| 90 | Barriers, thresholds, and resonances: Spectral quantization of the transition state for the collinear $D+H_2$ reaction. Journal of Chemical Physics, 1995, 102, 193-213.  | 3.0 | 63        |

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|-----|---|-----|-----------|
| 91  | Diffusion of Clusters of Atoms and Vacancies on Surfaces and the Dynamics of Diffusion-Driven Coarsening. <i>Physical Review Letters</i> , 1995, 75, 3158-3161.   | 7.8 | 120       |
| 92  | Kinetic phase transitions and bistability in a model surface reaction I. Monte Carlo simulations. <i>Surface Science</i> , 1995, 334, 295-304.  | 1.9 | 15        |
| 93  | Kinetic phase transitions and bistability in a model surface reaction II. Spatially inhomogeneous theories. <i>Surface Science</i> , 1995, 334, 305-317.  | 1.9 | 14        |
| 94  | Spectral quantization of transition state dynamics for the three-dimensional H+H <sub>2</sub> reaction. <i>Journal of Chemical Physics</i> , 1994, 101, 1725-1729.  | 3.0 | 68        |
| 95  | Comment on "A theoretical stochastic model for the A+1/2B <sub>2</sub> +O reaction" [J. Chem. Phys. 98, 10017 (1993)]. <i>Journal of Chemical Physics</i> , 1994, 101, 855-856.   | 3.0 | 3         |
| 96  | High energy transition state resonances in the H+H <sub>2</sub> reaction. <i>Journal of Chemical Physics</i> , 1993, 98, 9208-9210.   | 3.0 | 31        |
| 97  | Spectral quantization of high energy transition state resonances in the H+H <sub>2</sub> reaction. <i>Journal of Chemical Physics</i> , 1993, 99, 5126-5140.  | 3.0 | 56        |
| 98  | Physical origin of oscillations in the three-dimensional collision amplitudes of heavy-light-heavy systems. Semiclassical quantization of chaotic scattering. <i>Journal of Chemical Physics</i> , 1993, 98, 3929-3944. | 3.0 | 25        |
| 99  | Heavy-light-heavy reaction probabilities from rotational scattering calculations. <i>The Journal of Physical Chemistry</i> , 1992, 96, 4134-4137.   | 2.9 | 10        |
| 100 | Adiabatic separatrix crossing theory for heavy-light-heavy chemical reactions in three dimensions. <i>Journal of Chemical Physics</i> , 1991, 95, 7234-7248.  | 3.0 | 21        |
| 101 | Quantum resonance dynamics for the I+HI reaction in three dimensions: An adiabatic treatment using Jacobi coordinates. <i>Journal of Chemical Physics</i> , 1991, 95, 7249-7262.  | 3.0 | 24        |
| 102 | Statistical rate theory for transient chemical species: classical lifetimes from periodic orbits. <i>Chemical Physics Letters</i> , 1990, 175, 92-100.  | 2.6 | 17        |
| 103 | Gaussian wave packets as probes of the destabilization of phase-space structure in the quantum standard map. <i>Physical Review A</i> , 1990, 42, 6252-6255.  | 2.5 | 1         |
| 104 | Uniform adiabatic invariance analysis of chemical reaction dynamics. <i>Journal of Chemical Physics</i> , 1989, 90, 6193-6212.  | 3.0 | 21        |
| 105 | Flux analysis, the correspondence principle, and the structure of quantum phase space. <i>Physical Review A</i> , 1989, 40, 2894-2916.  | 2.5 | 67        |
| 106 | Phase change between separatrix crossings. <i>Physica D: Nonlinear Phenomena</i> , 1989, 36, 287-316.   | 2.8 | 72        |
| 107 | An analysis of the adiabatic switching method: Foundations and applications. <i>Computer Physics Reports</i> , 1988, 8, 221-292.  | 2.2 | 52        |
| 108 | A phase space analysis of the collinear I+HI reaction. <i>Journal of Chemical Physics</i> , 1988, 88, 2429-2456.  | 3.0 | 96        |

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|-----|---|-----|-----------|
| 109 | Reaction probability for sequential separatrix crossings. <i>Physical Review Letters</i> , 1988, 61, 1795-1798.   | 7.8 | 32        |
| 110 | Quantum effects in a macroscopic system. <i>Physical Review Letters</i> , 1987, 58, 292-295.  | 7.8 | 17        |
| 111 | Quantum analysis of states near a separatrix. <i>Lecture Notes in Physics</i> , 1987, , 137-139.  | 0.7 | 0         |
| 112 | On the use of adiabatic switching to locate quantized, periodic orbits: Application to bound and reactive multidimensional problems. <i>Journal of Chemical Physics</i> , 1986, 84, 1533-1546.  | 3.0 | 23        |
| 113 | The adiabatic switching of semiclassical wave functions. <i>Journal of Chemical Physics</i> , 1986, 85, 2760-2773.  | 3.0 | 11        |
| 114 | A numerical method for the transformation to good action-angle variables in non-separable multidimensional systems. <i>Chemical Physics Letters</i> , 1985, 118, 409-413.   | 2.6 | 18        |
| 115 | The semiclassical quantization of nonseparable systems using the method of adiabatic switching. <i>Journal of Chemical Physics</i> , 1985, 82, 4611-4632.   | 3.0 | 158       |
| 116 | Localized Gaussian wave packet methods for inelastic collisions involving anharmonic oscillators. <i>Journal of Chemical Physics</i> , 1984, 80, 3123-3136.   | 3.0 | 71        |
| 117 | Calculation of partial widths and isotope effects for reactive resonances by a reaction-path Hamiltonian model: Test against accurate quantal results for a twin-saddle point system. <i>Journal of Chemical Physics</i> , 1984, 80, 3569-3573. | 3.0 | 15        |
| 118 | Vibrational stretch-bend coupling and the adiabatic approximation. <i>Chemical Physics Letters</i> , 1984, 112, 396-402.  | 2.6 | 29        |
| 119 | Bimolecular Reactive Collisions. <i>ACS Symposium Series</i> , 1984, , 375-400.   | 0.5 | 12        |
| 120 | Reaction-path Hamiltonian model of partial widths for vibrationally elastic and inelastic decay of adiabatically trapped reactive resonances. <i>The Journal of Physical Chemistry</i> , 1984, 88, 628-636.                                     | 2.9 | 29        |
| 121 | Quantum vibrational transition probabilities from real classical trajectories: Asymmetric diatom-diatom collisions. <i>Chemical Physics</i> , 1983, 74, 347-364.  | 1.9 | 16        |
| 122 | Small-curvature adiabatic approximation for reaction-path reduced-dimensionality effective Hamiltonian. <i>Journal of Chemical Physics</i> , 1983, 79, 4882-4888.   | 3.0 | 21        |
| 123 | Vibrationally adiabatic models for reactive tunneling. <i>Journal of Chemical Physics</i> , 1982, 77, 5955-5976.  | 3.0 | 250       |
| 124 | Incorporation of quantum effects in generalized-transition-state theory. <i>The Journal of Physical Chemistry</i> , 1982, 86, 2252-2261.  | 2.9 | 220       |
| 125 | Parabolic tunneling calculations. <i>The Journal of Physical Chemistry</i> , 1981, 85, 624-628.   | 2.9 | 196       |
| 126 | A general small-curvature approximation for transition-state-theory transmission coefficients. <i>The Journal of Physical Chemistry</i> , 1981, 85, 3019-3023.  | 2.9 | 321       |



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|-----|--|-----|-----------|
| 127 | Quantum vibrational transition probabilities from real classical trajectories: Symmetric diatom-diatom collisions. <i>Journal of Chemical Physics</i> , 1977, 66, 160-168.   | 3.0 | 23        |
| 128 | On the use of the sudden approximation for vibrational excitation in high-energy collisions, and the sensitivity of the results to the choice of potential energy surface. <i>Journal of Chemical Physics</i> , 1976, 65, 5532-5533. | 3.0 | 10        |
| 129 | Computational Aspects of Single-Molecule Kinetics for Coupled Catalytic Cycles: A Spectral Analysis. <i>Journal of Physical Chemistry A</i> , 0, , .   | 2.5 | 2         |