F Javier Aoiz

List of Publications by Year
in descending order

269 papers	8,848 citations	38660 50 h-index	76769 74 g-index
273 all docs	273 docs citations	273 times ranked	1873 citing authors

#	Article	IF	Citations
1	Inelastic collision dynamics of oriented NO molecules with Kr atoms. Molecular Physics, 2022, 120, .	0.8	2
2	When experiment challenges theory: Scattering of vibrationally excited molecules in the cold collision energy regime. Natural Sciences, 2022, 2, e20210088.	1.0	0
3	Role of Low Energy Resonances in the Stereodynamics of Cold He + D₂ Collisions. Journal of Physical Chemistry Letters, 2022, 13, 4064-4072.	2.1	9
4	Stereodynamic control of cold rotationally inelastic CO + HD collisions. Physical Chemistry Chemical Physics, 2021, 23, 19364-19374.	1.3	8
5	Signature of shape resonances on the differential cross sections of the S(1D)+H2 reaction. Journal of Chemical Physics, 2021, 154, 124304.	1.2	7
6	Quantum study of reaction O (³P) + H₂ (v,j) â†' OH + H: OH formation in strongly UV-irradiated gas. Astronomy and Astrophysics, 2021, 648, A76.	2.1	7
7	Temperature dependence of the rate coefficient of formation of CN radical from CÂ+ÂNH. Chemical Physics Letters, 2021, 771, 138493.	1.2	1
8	The F + HD(v = 0, 1; j = 0, 1) reactions: stereodynamical properties of orbiting resonances. Physical Chemistry Chemical Physics, 2021, 23, 8002-8012.	1.3	5
9	Controlling the Spinâ€“Orbit Branching Fraction in Molecular Collisions. Journal of Physical Chemistry Letters, 2021, 12, 310-316.	2.1	8
10	Differential cross sections and collision-induced rotational alignment in inelastic scattering of NO(X) by Xe. Chinese Journal of Chemical Physics, 2020, 33, 217-233.	0.6	3
11	Unveiling shape resonances in H + HF collisions at cold energies. Physical Chemistry Chemical Physics, 2020, 22, 24943-24950.	1.3	10
12	Probing the location of the unpaired electron in spinâ€“orbit changing collisions of NO with Ar. Physical Chemistry Chemical Physics, 2020, 22, 22289-22301.	1.3	8
13	How interference reveals geometric phase. Science, 2020, 368, 706-707.	6.0	1
14	Non-adiabatic quantum dynamics of the electronic quenching OH(A²Î£⁺) + Kr. Physical Chemistry Chemical Physics, 2020, 22, 17091-17105.	1.3	3
15	Stereodynamical Control of a Quantum Scattering Resonance in Cold Molecular Collisions. Physical Review Letters, 2019, 123, 043401.	2.9	32
16	New Stress Test for Ring Polymer Molecular Dynamics: Rate Coefficients of the O(³P) + HCl Reaction and Comparison with Quantum Mechanical and Quasiclassical Trajectory Results. Journal of Physical Chemistry A, 2019, 123, 7920-7931.	1.1	7
17	New global potential energy surfaces of the ground 3Aâ€² and 3Aâ€³ states of the O(3P) + H2 system. Journal of Chemical Physics, 2019, 151, 094307.	1.2	6
18	Steric Effects in the Inelastic Scattering of NO(X) + Ar: Side-on Orientation. Journal of Physical Chemistry A, 2019, 123, 8787-8806.	1.1	10

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19	Competing Dynamical Mechanisms in Inelastic Collisions of H + HF. Journal of Physical Chemistry A, 2019, 123, 9079-9088.	1.1	5
20	Differential steric effects in the inelastic scattering of NO(X) + Ar: spinâ€“orbit changing transitions. Physical Chemistry Chemical Physics, 2019, 21, 14173-14185.	1.3	9
21	How reactant polarization can be used to change the effect of interference on reactive collisions. Physical Chemistry Chemical Physics, 2019, 21, 14012-14022.	1.3	9
22	Side-impact collisions of Ar with NO. Nature Chemistry, 2019, 11, 662-668.	6.6	25
23	Unexpected dynamical effects change the lambda-doublet propensity in the tunneling region for the O(³P) + H₂ reaction. Physical Chemistry Chemical Physics, 2019, 21, 25389-25396.	1.3	3
24	Quantum interference in chemical reactions. Physics Today, 2018, 71, 70-71.	0.3	4
25	Angular momentumâ€“scattering angle quantum correlation: a generalized deflection function. Chemical Science, 2018, 9, 4837-4850.	3.7	16
26	Î›-Doublet Propensities for Reactions on Competing Aâ€² and Aâ€³ Potential Energy Surfaces: O(³P) + N₂ and O(³P) + HCl. Journal of Physical Chemistry A, 2018, 122, 2739-2750.	1.1	5
27	Experimental and theoretical studies of the Xeâ€“OH(A/X) quenching system. Journal of Chemical Physics, 2018, 149, 184301.	1.2	4
28	Non-intuitive rotational reorientation in collisions of NO(A 2Î£+) with Ne from direct measurement of a four-vector correlation. Nature Chemistry, 2018, 10, 1148-1153.	6.6	23
29	Integral steric asymmetry in the inelastic scattering of NO(X2Î). Journal of Chemical Physics, 2017, 146, 014302.	1.2	9
30	The dynamics of the Hg + Br₂ reaction: elucidation of the reaction mechanism for the Br exchange reaction. Physical Chemistry Chemical Physics, 2017, 19, 16433-16445.	1.3	3
31	An experimental study of OH(A2Î£+) + H2: Electronic quenching, rotational energy transfer, and collisional depolarization. Journal of Chemical Physics, 2017, 146, 244313.	1.2	7
32	Angular distributions for the inelastic scattering of NO(X2Î) with O2(X3Î£gâ^'). Journal of Chemical Physics, 2017, 146, 204304.	1.2	10
33	Stereodynamics in NO(X) + Ar inelastic collisions. Journal of Chemical Physics, 2016, 144, 224301.	1.2	21
34	Multiple scattering mechanisms causing interference effects in the differential cross sections of H + D2 â† HD(vâ€² = 4, â€‰jâ€²) + D at 3.26 eV collision energy. Journal of Chemical Physics, 2016, 145, 024308.	3.2	14
35	Influence of vibration in the reactive scattering of D + MuH: the effect of dynamical bonding. Physical Chemistry Chemical Physics, 2016, 18, 13530-13537.	1.3	2
36	Chemical Reaction Rate Coefficients from Ring Polymer Molecular Dynamics: Theory and Practical Applications. Journal of Physical Chemistry A, 2016, 120, 8488-8502.	1.1	113

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37	Product lambda-doublet ratios as an imprint of chemical reaction mechanism. Nature Communications, 2016, 7, 13439.	5.8	12
38	Effects of reagent rotation on interferences in the product angular distributions of chemical reactions. Chemical Science, 2016, 7, 642-649.	3.7	19
39	Cold and ultracold dynamics of the barrierless D+ + H2 reaction: Quantum reactive calculations for â^¼Râ^'4 long range interaction potentials. Journal of Chemical Physics, 2015, 143, 204305.	1.2	31
40	A semiclassical treatment of the â„“ â€“ j correlation in atom-diatom collisions. Journal of Chemical Physics, 2015, 143, 064302.	1.2	1
41	Influence of the Reactants Rotational Excitation on the H + D2(v = 0, j) Reactivity. Journal of Physical Chemistry A, 2015, 119, 12245-12254.	1.1	0
42	The Cl + O₃ reaction: a detailed QCT simulation of molecular beam experiments. Physical Chemistry Chemical Physics, 2015, 17, 25471-25482.	1.3	5
43	Steric effects and quantum interference in the inelastic scattering of NO(X) + Ar. Chemical Science, 2015, 6, 2202-2210.	3.7	56
44	Quantum interference between Hâ€‰+â€‰D2 quasiclassical reaction mechanisms. Nature Chemistry, 2015, 7, 661-667.	6.6	34
45	Beyond universality: Parametrizing ultracold complex-mediated reactions using statistical assumptions. Physical Review A, 2015, 91, .	1.0	9
46	Accurate Time-Dependent Wave Packet Calculations for the O⁺ + H₂ â†' OH⁺ + H Ionâ€“Molecule Reaction. Journal of Physical Chemistry A, 2015, 119, 11951-11962.	1.1	21
47	Rotational Orientation Effects in NO(X) + Ar Inelastic Collisions. Journal of Physical Chemistry A, 2015, 119, 12404-12416.	1.1	18
48	Surface-hopping trajectories for OH(A2Î£+) + Kr: Extension to the 1Aâ€³ state. Journal of Chemical Physics, 2015, 142, 144307.	1.2	13
49	A new perspective: imaging the stereochemistry of molecular collisions. Physical Chemistry Chemical Physics, 2015, 17, 30210-30228.	1.3	37
50	Is the simplest chemical reaction really so simple?. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15-20.	3.3	82
51	Fully quantum state-resolved inelastic scattering of NO(X) + Kr: Differential cross sections and product rotational alignment. Journal of Chemical Physics, 2014, 141, 164306.	1.2	32
52	Stress Test for Quantum Dynamics Approximations: Deep Tunneling in the Muonium Exchange Reaction D + HMu â†' DMu + H. Journal of Physical Chemistry Letters, 2014, 5, 4219-4224.	2.1	64
53	OH⁺IN ASTROPHYSICAL MEDIA: STATE-TO-STATE FORMATION RATES, EINSTEIN COEFFICIENTS AND INELASTIC COLLISION RATES WITH He. Astrophysical Journal, 2014, 794, 33.	1.6	35
54	Collisional depolarisation in electronically excited radicals. International Reviews in Physical Chemistry, 2014, 33, 79-123.	0.9	15

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55	A ring polymer molecular dynamics study of the Cl + O3 reaction. Physical Chemistry Chemical Physics, 2014, 16, 2920.	1.3	27
56	Comparative dynamics of the two channels of the reaction of D + MuH. Physical Chemistry Chemical Physics, 2014, 16, 9808-9818.	1.3	6
57	The effect of the reactant internal excitation on the dynamics of the C⁺ + H₂ reaction. Physical Chemistry Chemical Physics, 2014, 16, 24800-24812.	1.3	26
58	Inelastic Scattering of NO by Kr: Rotational Polarization over a Rainbow. Journal of Physical Chemistry Letters, 2014, 5, 3296-3301.	2.1	32
59	The collisional depolarization of OH(AÂ2Î£+) and NO(AÂ2Î£+) with Kr. Journal of Chemical Physics, 2014, 140, 054306.	1.2	6
60	Electronic Quenching of OH A ²Î£⁺ Induced by Collisions with Kr Atoms. Journal of Physical Chemistry A, 2013, 117, 13481-13490.	1.1	18
61	The reactive collision mechanism evinced: stereodynamical control of the elementary Br + H2 â†' H + HBr reaction. Physical Chemistry Chemical Physics, 2013, 15, 13513.	1.3	2
62	A ring polymer molecular dynamics study of the isotopologues of the H + H2 reaction. Physical Chemistry Chemical Physics, 2013, 15, 3655.	1.3	76
63	Reaction Dynamics and Mechanism of the Cl + HD(v = 1) Reaction: A Quantum Mechanical Study. Journal of Physical Chemistry A, 2013, 117, 7030-7041.	1.1	3
64	Rotational alignment effects in NO(X) + Ar inelastic collisions: A theoretical study. Journal of Chemical Physics, 2013, 138, 104309.	1.2	32
65	Rotational alignment effects in NO(X) + Ar inelastic collisions: An experimental study. Journal of Chemical Physics, 2013, 138, 104310.	1.2	47
66	The fully quantum state-resolved inelastic scattering of NO(X) + Ne: experiment and theory. Molecular Physics, 2013, 111, 1759-1771.	0.8	36
67	Origin of Collision-Induced Molecular Orientation. Physical Review Letters, 2013, 111, 183202.	2.9	15
68	Understanding the reaction between muonium atoms and hydrogen molecules: zero point energy, tunnelling, and vibrational adiabaticity. Molecular Physics, 2013, 111, 3169-3181.	0.8	22
69	Fully Î›-doublet resolved state-to-state differential cross-sections for the inelastic scattering of NO(X) with Ar. Physical Chemistry Chemical Physics, 2012, 14, 5403.	1.3	39
70	Communication: Rate coefficients from quasiclassical trajectory calculations from the reverse reaction: The Muâ€‰+â€‰H2 reaction re-visited. Journal of Chemical Physics, 2012, 137, 021102.	1.2	9
71	Rate coefficients from quantum and quasi-classical cumulative reaction probabilities for the S(1D) + H2 reaction. Journal of Chemical Physics, 2012, 137, 164314.	1.2	10
72	Ab Initio studies of the interaction potential for the Xeâ€“NO(Xâ€‰2Î) van der Waals complex: Bound states and fully quantum and quasi-classical scattering. Journal of Chemical Physics, 2012, 137, 014312.	1.2	21

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73	The effect of parity conservation on the spinâ€“orbit conserving and spinâ€“orbit changing differential cross sections for the inelastic scattering of NO(X) by Ar. Physical Chemistry Chemical Physics, 2012, 14, 5420.	1.3	41
74	Dynamics of the reactions of muonium and deuterium atoms with vibrationally excited hydrogen molecules: tunneling and vibrational adiabaticity. Physical Chemistry Chemical Physics, 2012, 14, 14596.	1.3	24
75	Dynamics of the D+ + H2 and H+ + D2 reactions: a detailed comparison between theory and experiment. Physical Chemistry Chemical Physics, 2012, 14, 3346.	1.3	34
76	A state-to-state dynamical study of the Br + H2 reaction: comparison of quantum and classical trajectory results. Physical Chemistry Chemical Physics, 2012, 14, 13067.	1.3	18
77	H + D₂ Reaction Dynamics in the Limit of Low Product Recoil Energy. Journal of Physical Chemistry Letters, 2012, 3, 2959-2963.	2.1	11
78	Three-vector correlation in statistical reactions: the role of the triatomic parity. Physical Chemistry Chemical Physics, 2012, 14, 9977.	1.3	7
79	Orientation effects in Cl + H2 inelastic collisions: characterization of the mechanisms. Physical Chemistry Chemical Physics, 2012, 14, 2911.	1.3	8
80	Elucidation of the O(1D) + HF â†' F + OH mechanism by means of quasiclassical trajectories. Physical Chemistry Chemical Physics, 2012, 14, 16338.	1.3	15
81	A classical versus quantum mechanics study of the $$hbox{OH},+,hbox{CO} ightarrow,hbox{H},+,hbox{CO}_2$$ (JÂ=Â0) reaction. Theoretical Chemistry Accounts, 2012, 131, 1.	0.5	4
82	Accurate Time-Dependent Wave Packet Study of the Li + H₂⁺ Reaction and Its Isotopic Variants. Journal of Physical Chemistry A, 2012, 116, 132-138.	1.1	22
83	A new potential energy surface for OH(A 2Î£+)â€“Kr: The van der Waals complex and inelastic scattering. Journal of Chemical Physics, 2012, 137, 154305.	1.2	13
84	New findings regarding the NO angular momentum orientation in Arâ€“NO(2Î1/2) collisions. Physical Chemistry Chemical Physics, 2012, 14, 9826.	1.3	6
85	Chemical Reaction Rates from Ring Polymer Molecular Dynamics: Zero Point Energy Conservation in Mu + H₂ â†' MuH + H. Journal of Physical Chemistry Letters, 2012, 3, 493-497.	2.1	105
86	ACCURATE TIME-DEPENDENT WAVE PACKET STUDY OF THE H⁺+LiH REACTION AT EARLY UNIVERSE CONDITIONS. Astrophysical Journal, 2012, 759, 31.	1.6	21
87	Seemingly Anomalous Angular Distributions in H + D ₂ Reactive Scattering. Science, 2012, 336, 1687-1690.	6.0	41
88	Energy dependent dynamics of the O(1D) + HCl reaction: A quantum, quasiclassical and statistical study. Physical Chemistry Chemical Physics, 2011, 13, 8502.	1.3	13
89	Theoretical study of the dynamics of Cl + O3 reaction I. Ab initio potential energy surface and quasiclassical trajectory results. Physical Chemistry Chemical Physics, 2011, 13, 8537.	1.3	9
90	Stereodynamics of the F + HD(v = 0, j = 1) reaction: direct vs. resonant mechanisms. Physical Chemistry Chemical Physics, 2011, 13, 8345.	1.3	13

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91	Interference structures in the differential cross-sections for inelastic scattering of NO by Ar. Nature Chemistry, 2011, 3, 597-602.	6.6	90
92	Collisional angular momentum depolarization of OH(A) and NO(A) by Ar: A comparison of mechanisms. Journal of Chemical Physics, 2011, 135, 084306.	1.2	25
93	Can quasiclassical trajectory calculations reproduce the extreme kinetic isotope effect observed in the muonic isotopologues of the H + H2 reaction?. Journal of Chemical Physics, 2011, 135, 034310.	1.2	25
94	Product rotational alignment in NO(X)+Kr collisions. Chemical Physics Letters, 2011, 512, 161-166.	1.2	3
95	Dynamical regimes on the Cl + H2 collisions: Inelastic rainbow scattering. Journal of Chemical Physics, 2011, 135, 064301.	1.2	7
96	On the role of dynamical barriers in barrierless reactions at low energies: S(1D) + H2. Journal of Chemical Physics, 2011, 135, 134313.	1.2	26
97	The k-j-jâ€² vector correlation in inelastic and reactive scattering. Journal of Chemical Physics, 2011, 135, 084305.	1.2	20
98	Astronomical identification of CN⁻, the smallest observed molecular anion. Astronomy and Astrophysics, 2010, 517, L2.	2.1	207
99	Reaction dynamics of the D+ + H2 system. A comparison of theoretical approaches. Physical Chemistry Chemical Physics, 2010, 12, 12591.	1.3	28
100	Quantum mechanical mechanisms of inelastic and reactive H + D2(v = 0, j = 2) collisions. Physical Chemistry Chemical Physics, 2010, 12, 13626.	1.3	9
101	Dynamics of the C(¹D)+H₂reaction: A comparison of crossed molecular beam experiments with quantum mechanical and quasiclassical trajectory calculations on the first two singlet (1¹Aâ€² and 1¹Aâ€³) potential energy surfaces. Molecular Physics, 2010, 108, 373-380.	0.8	29
102	The dynamics of the H⁺+ D₂reaction: a comparison of quantum mechanical wavepacket, quasi-classical and statistical-quasi-classical results. Physical Chemistry Chemical Physics, 2010, 12, 1102-1115.	1.3	48
103	Effects of the rotational excitation of D2 and of the potential energy surface on the H++D2â†'HD+D+ reaction. Journal of Chemical Physics, 2009, 131, 044315.	1.2	29
104	Inelastic Scattering of He Atoms and NO(X²Î) Molecules: The Role of Parity on the Differential Cross Section. Journal of Physical Chemistry A, 2009, 113, 14636-14649.	1.1	35
105	The collisional depolarization of Î£2S+1 radicals by closed shell atoms: Theory and application to OH(Aâ€‰Î£2+)+Ar. Journal of Chemical Physics, 2009, 130, 044305.	1.2	30
106	Collisional depolarization of OH(A) with Ar: Experiment and theory. Journal of Chemical Physics, 2009, 130, 044306.	1.2	41
107	Vibrationally inelastic collisions of H+D2: A comparison of quantum mechanical, quasiclassical, and experimental results. Journal of Chemical Physics, 2009, 130, 031102.	1.2	4
108	Cumulative reaction probabilities and transition state properties: A study of the H++H2 and H++D2 proton exchange reactions. Journal of Chemical Physics, 2009, 130, 184303.	1.2	19

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109	Collisional depolarization of NO(A) by He and Ar studied by quantum beat spectroscopy. Journal of Chemical Physics, 2009, 131, .	1.2	27
110	Quantum Mechanical Wave Packet and Quasiclassical Trajectory Calculations for the Li + H₂⁺ Reaction. Journal of Physical Chemistry A, 2009, 113, 14657-14663.	1.1	18
111	Elastic Depolarization of OH(A) by He and Ar: A Comparative Study. Journal of Physical Chemistry A, 2009, 113, 15156-15170.	1.1	26
112	The Dynamics of the O(1D) + HCl â† ' OH + Cl Reaction at a 0.26 eV Collision Energy: A Comparison between Theory and Experiment. Journal of Physical Chemistry A, 2009, 113, 14237-14250.	1.1	14
113	Real wave packet and quasiclassical trajectory studies of the H⁺+ LiH reaction. Physical Chemistry Chemical Physics, 2008, 10, 821-827.	1.3	29
114	Quantum mechanical limits to the control of atomâ€"diatom chemical reactions through the polarisation of the reactants. Physical Chemistry Chemical Physics, 2008, 10, 1139-1150.	1.3	32
115	On the dynamics of the H++D2(v=0,j=0)â†'HD+D+ reaction: A comparison between theory and experiment. Journal of Chemical Physics, 2008, 128, 014304.	1.2	57
116	A new potential energy surface for OH(Aâ€‰Î£2+)â€"Ar: The van der Waals complex and scattering dynamics. Journal of Chemical Physics, 2008, 129, 054301.	1.2	22
117	A comparison of quantum and quasiclassical statistical models for reactions of electronically excited atoms with molecular hydrogen. Journal of Chemical Physics, 2008, 129, 094305.	1.2	51
118	Cumulative reaction probabilities and transition state properties: A study of the F+H2 reaction and its deuterated isotopic variants. Journal of Chemical Physics, 2008, 129, 024305.	1.2	5
119	A statistical quasiclassical trajectory model for atom-diatom insertion reactions. Journal of Chemical Physics, 2007, 126, 161101.	1.2	58
120	Fully quantum state-resolved inelastic scattering between He and NO(XÎ2). Journal of Chemical Physics, 2007, 127, 031102.	1.2	36
121	Stringent test of the statistical quasiclassical trajectory model for the H3+ exchange reaction: A comparison with rigorous statistical quantum mechanical results. Journal of Chemical Physics, 2007, 127, 174109.	1.2	44
122	Constraints at the transition state of the D + H2 reaction: quantum bottlenecks vs. stereodynamics. Physical Chemistry Chemical Physics, 2007, 9, 5367.	1.3	24
123	The canonical and other mechanisms of elementary chemical reactions. Physical Chemistry Chemical Physics, 2007, 9, 5794.	1.3	10
124	Experimental and Theoretical Differential Cross Sections for the N(2D) + H2Reactionâ€. Journal of Physical Chemistry A, 2006, 110, 817-829.	1.1	95
125	Quasiclassical trajectory study of the Cl+CH4 reaction dynamics on a quadratic configuration interaction with single and double excitation interpolated potential energy surface. Journal of Chemical Physics, 2006, 125, 124316.	1.2	37
126	Analysis of the H + D2reaction mechanism through consideration of the intrinsic reactant polarisation. Physical Chemistry Chemical Physics, 2006, 8, 4881-4896.	1.3	21

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127	Quasiclassical Trajectory Study of the Collision-Induced Dissociation Dynamics of Ar + CH3SH+Using an Ab Initio Interpolated Potential Energy Surfaceâ€. Journal of Physical Chemistry A, 2006, 110, 1225-1231.	1.1	22
128	Dynamics of Insertion Reactions of H2Molecules with Excited Atoms. Journal of Physical Chemistry A, 2006, 110, 12546-12565.	1.1	86
129	Cumulative reaction probabilities: A comparison between quasiclassical and quantum mechanical results. Journal of Chemical Physics, 2006, 125, 144105.	1.2	25
130	Velocity Map Imaging Study of the Photodissociation of CH3SH: Internal Energy Distribution of the SH Fragment. ChemPhysChem, 2006, 7, 1682-1686.	1.0	10
131	Latest findings on the dynamics of the simplest chemical reaction. Physica Scripta, 2006, 73, C6-C13.	1.2	13
132	Mechanism and control of the F+H2 reaction at low and ultralow collision energies. Journal of Chemical Physics, 2006, 125, 133104.	1.2	36
133	Quantum mechanical and quasiclassical trajectory scattering calculations for the C(D1)+H2 reaction on the second excited 1Aâ€31 potential energy surface. Journal of Chemical Physics, 2006, 124, 154314.	1.2	22
134	A detailed quantum mechanical and quasiclassical trajectory study on the dynamics of the H++H2â†'H2+H+ exchange reaction. Journal of Chemical Physics, 2006, 125, 094314.	1.2	70
135	Quantum-instanton evaluation of the kinetic isotope effects. Journal of Chemical Physics, 2005, 123, 054108.	1.2	66
136	Influence of rotation and isotope effects on the dynamics of the N(D2)+H2 reactive system and of its deuterated variants. Journal of Chemical Physics, 2005, 123, 224301.	1.2	47
137	Effect of rotational energy on the reaction Li+HF(Ï...=0,j)â†'LiF+H: An experimental and computational study. Journal of Chemical Physics, 2005, 122, 244304.	1.2	28
138	Quasiclassical determination of reaction probabilities as a function of the total angular momentum. Journal of Chemical Physics, 2005, 123, 094101.	1.2	47
139	Dynamics of the O(1D) D2 reaction: A comparison between crossed molecular beam experiments and quasiclassical trajectory calculations on the lowest three potential energy surfaces. Molecular Physics, 2005, 103, 1703-1714.	0.8	26
140	Dynamics of the C(D1)+D2 reaction: A comparison of crossed molecular-beam experiments with quasiclassical trajectory and accurate statistical calculations. Journal of Chemical Physics, 2005, 122, 234309.	1.2	66
141	On the Conformational Memory in the Photodissociation of Formic Acid. Journal of Physical Chemistry A, 2005, 109, 2836-2839.	1.1	18
142	Low-Temperature Rotational Relaxation of CO in Self-Collisions and in Collisions with Ne and He. Journal of Physical Chemistry A, 2005, 109, 9402-9413.	1.1	8
143	How Reactants Polarization Can Be Used to Change and Unravel Chemical Reactivity. Journal of Physical Chemistry A, 2005, 109, 6200-6217.	1.1	90
144	Quasiclassical Trajectory Study of the F + CH4Reaction Dynamics on a Dual-Level Interpolated Potential Energy Surface. Journal of Physical Chemistry A, 2005, 109, 8459-8470.	1.1	55

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145	The H+H2reactive system. Progress in the study of the dynamics of the simplest reaction. International Reviews in Physical Chemistry, 2005, 24, 119-190.	0.9	114
146	Rovibrational product state distribution for inelastic H+D2 collisions. Journal of Chemical Physics, 2004, 121, 6587-6590.	1.2	19
147	Interpretation of Quantum and Classical Angular Momentum Polarization Moments. Physical Review Letters, 2004, 93, 083201.	2.9	37
148	Collision energy dependence of the HD(Î½â€²=2) product rotational distribution of the H+D2 reaction in the range 1.30â€“1.89 eV. Journal of Chemical Physics, 2004, 120, 3255-3264.	1.2	34
149	Further investigation of the HCl elimination in the photodissociation of vinyl chloride at 193 nm: a direct MP2/6-31G(d,p) trajectory study. Chemical Physics Letters, 2004, 386, 225-232.	1.2	24
150	Photodissociation dynamics of dimethyl sulfoxide-d6 at 210 nm: experimental evidence for a prompt anisotropic CD3 channel. Chemical Physics Letters, 2004, 386, 419-424.	1.2	4
151	Near UV photodissociation of dimethyl sulphide: a direct mechanism on the second absorption band. Chemical Physics Letters, 2004, 394, 307-312.	1.2	2
152	Cross-sections for the H + H2O â†' OH + H2and H + D2O â†' OD + HD abstraction reactions. Physical Chemistry Chemical Physics, 2004, 6, 4991-4999.	1.3	5
153	Dynamics of the insertion reaction C(1D) + H2: A comparison of crossed molecular beam experiments with quasiclassical trajectory and quantum mechanical scattering calculations. Physical Chemistry Chemical Physics, 2004, 6, 4957-4967.	1.3	72
154	Classical stereodynamics in Ar + NO inelastic collisions. Physical Chemistry Chemical Physics, 2004, 6, 4407.	1.3	22
155	Rotationally inelastic scattering of OH(2Î) by HCl(1Î£). Comparison of experiment and theory. Physical Chemistry Chemical Physics, 2004, 6, 4968-4974.	1.3	14
156	Disagreement between theory and experiment in the simplest chemical reaction: Collision energy dependent rotational distributions for H+D2â†'HD(Î½â€²=3,jâ€²)+D. Journal of Chemical Physics, 2004, 120, 3244-3254.	1.2	62
157	Dynamics of the S(1D) + H2 Insertion Reaction:â€‰ A Combined Quantum Mechanical and Quasiclassical Trajectory Study. Journal of Physical Chemistry A, 2004, 108, 1616-1628.	1.1	92
158	UV Photodissociation Dynamics of CD3SOCD3:Â Photofragment Translational and Internal Energy Distributionâ€. Journal of Physical Chemistry A, 2004, 108, 8048-8057.	1.1	5
159	The H + N2O â†' OH + N2 Reaction Dynamics on an Interpolated QCISD Potential Energy Surface. A Quasiclassical Trajectory Study. Journal of Physical Chemistry A, 2004, 108, 6611-6623.	1.1	17
160	Photodissociation Dynamics of Dimethyl Sulfide Following Excitation within the First Absorption Bandâ€. Journal of Physical Chemistry A, 2004, 108, 7936-7948.	1.1	10
161	Spatial distributions of angular momenta in quantum and quasiclassical stereodynamics. Journal of Chemical Physics, 2004, 121, 9830-9843.	1.2	40
162	Low temperature rotational relaxation of N2 in collisions with He. Chemical Physics Letters, 2003, 367, 500-506.	1.2	7

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163	Near UV photodissociation of CD3SCD3: CD3 fragment (v, J) vector correlations. Chemical Physics Letters, 2003, 373, 550-557.	1.2	9
164	Quasi-classical trajectory calculations on a fast analytic potential energy surface for the C(1D)+H2 reaction. Chemical Physics Letters, 2003, 374, 243-251.	1.2	51
165	A Direct Classical Trajectory Study of HCl Elimination from the 193 nm Photodissociation of Vinyl Chloride. Journal of Physical Chemistry A, 2003, 107, 7611-7618.	1.1	23
166	Implementation of a fast analytic ground state potential energy surface for the N(2D)+H2 reaction. Journal of Chemical Physics, 2003, 119, 3063-3070.	1.2	62
167	Attractive and repulsive interactions in the inelastic scattering of NO by Ar: A comparison between classical trajectory and close-coupling quantum mechanical results. Journal of Chemical Physics, 2003, 119, 5860-5866.	1.2	61
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