Miguel Gonzalez

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Quantum Dynamics of Nonadiabatic Renner–Teller Effects in Atom + Diatom Collisions. Journal of Physical Chemistry A, 2021, 125, 6637-6652.	2.5	3
2	Vibrational energy relaxation of a diatomic molecule in a superfluid liquid helium nanodroplet. Influence of the nanodroplet size, interaction energy and energy gap. Physical Chemistry Chemical Physics, 2021, 23, 25961-25973.	2.8	1
3	Quantum equilibration of the double-proton transfer in a model system porphine. Physical Chemistry Chemical Physics, 2020, 22, 22332-22341.	2.8	0
4	Rotational energy relaxation quantum dynamics of a diatomic molecule in a superfluid helium nanodroplet and study of the hydrogen isotopes case. Physical Chemistry Chemical Physics, 2019, 21, 21007-21021.	2.8	7
5	Quantum–classical approach to the reaction dynamics in a superfluid helium nanodroplet. The Ne ₂ dimer and Ne–Ne adduct formation reaction Ne + Ne-doped nanodroplet. Physical Chemistry Chemical Physics, 2019, 21, 24218-24231.	2.8	7
6	Quantum-classical dynamics of the capture of neon atoms by superfluid helium nanodroplets. Physical Chemistry Chemical Physics, 2018, 20, 29737-29753.	2.8	10
7	Vibrational energy relaxation dynamics of diatomic molecules inside superfluid helium nanodroplets. The case of the I ₂ molecule. Physical Chemistry Chemical Physics, 2018, 20, 118-130.	2.8	11
8	Dynamics of the O + H2+ → OH+ + H, OH + H+ proton and hydrogen atom transfer reactions on the two lowest potential energy surfaces. Physical Chemistry Chemical Physics, 2017, 19, 3857-3868.	2.8	5
9	Reaction dynamics inside superfluid helium nanodroplets: the formation of the Ne ₂ molecule from Ne + Ne@(⁴ He) _N . Physical Chemistry Chemical Physics, 2016, 18, 31869-31880.	2.8	12
10	Mass effects in the photodissociation of homonuclear diatomic molecules in helium nanodroplets: inelastic collision and viscous flow energy exchange regimes. Physical Chemistry Chemical Physics, 2016, 18, 27630-27638.	2.8	8
11	Relaxation dynamics of helium nanodroplets after photodissociation of a dopant homonuclear diatomic molecule. The case of Cl ₂ @(⁴ He) _N . Physical Chemistry Chemical Physics, 2016, 18, 2409-2416.	2.8	12
12	Quantum dynamics of the pick up process of atoms by superfluid helium nanodroplets: the Ne + (4He)1000 system. Physical Chemistry Chemical Physics, 2016, 18, 2006-2014.	2.8	14
13	Exploring the stereodynamics and microscopic mechanism of the O(3P) + CH4, CD4→ OH + CH3, OD + CD3 combustion reactions. Chemical Physics, 2015, 461, 98-105.	1.9	8
14	Quantum interferences in the photodissociation of Cl ₂ (B) in superfluid helium nanodroplets (⁴ He) _N . Physical Chemistry Chemical Physics, 2015, 17, 32241-32250.	2.8	13
15	Photodissociation Dynamics of Homonuclear Diatomic Molecules in Helium Nanodroplets. The Case of Cl ₂ @(⁴ He) _N . Journal of Chemical Theory and Computation, 2015, 11, 899-906.	5.3	17
16	Born–Oppenheimer and Renner–Teller coupled-channel quantum reaction dynamics of O(³ P) + H ₂ ⁺ (X ² Σ _g ⁺) collisions. Physical Chemistry Chemical Physics, 2015, 17, 23392-23402.	2.8	15
17	Theoretical Study of the Free Energy Surface and Kinetics of the Hepatitis C Virus NS3/NS4A Serine Protease Reaction with the NS5A/5B Substrate. Does the Generally Accepted Tetrahedral Intermediate Really Exist?. ACS Catalysis, 2015, 5, 246-255.	11.2	13
18	Further theoretical insight into the reaction mechanism of the hepatitis C NS3/NS4A serine protease. Chemical Physics Letters, 2015, 619, 97-102.	2.6	2

MIGUEL GONZALEZ

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19	Potential energy surfaces and quasiclassical trajectory study of the O + H2+→ OH++ H, OH + H+proton and hydrogen atom transfer reactions and isotopic variants (D2+, HD+). Physical Chemistry Chemical Physics, 2014, 16, 23594-23603.	2.8	25
20	Understanding the effect of vibrational excitation in reaction dynamics: the Ne + H2+(v = 0–17, j = 1) → NeH+ + H, Ne + H+ + H proton transfer and dissociation cross sections. Physical Chemistry Chemical Physics, 2014, 16, 6641.	2.8	16
21	Theoretical approach to the structure, energy and electronic spectroscopy of O@(⁴ He) _N doped nanodroplets. RSC Advances, 2014, 4, 44972-44979.	3.6	5
22	Resonances in the Ne + H ₂ ⁺ → NeH ⁺ + H Proton-Transfer Reaction. Journal of Physical Chemistry A, 2013, 117, 5393-5400.	2.5	32
23	Performance Analysis of Two Quantum Reaction Dynamics Codes: Time-dependent and Time-Independent Strategies. Procedia Computer Science, 2013, 18, 835-844.	2.0	1
24	Theoretical Study of the Dynamics and Kinetics of the O + CS → CO + S Chemical Laser Reaction, Where CO Shows a Very High Vibrational Excitation. Journal of Physical Chemistry A, 2012, 116, 11783-11795.	2.5	7
25	Dynamics of the O(³ P) + CH ₄ → OH + CH ₃ Reaction Is Similar To That of a Triatomic Reaction. Journal of Physical Chemistry A, 2012, 116, 5026-5029.	2.5	20
26	The Large Scale Conformational Change of the Human DPP III–Substrate Prefers the "Closed―Form. Journal of Chemical Information and Modeling, 2012, 52, 1583-1594.	5.4	21
27	Capture and dissociation in the complex-forming CH($v = 0,1$) + D2â†' CHD + D, CD2 + H, CD + HD reactions and comparison with CH($v = 0,1$) + H2. Physical Chemistry Chemical Physics, 2011, 13, 13638.	2.8	2
28	Time Dependent Quantum Dynamics Study of the Ne + H ₂ ⁺ (<i>v</i> ₀ = 0–4, <i>j</i> ₀ = 1) → NeH ⁺ H Proton Transfer Reaction, Including the Coriolis Coupling. A System with Oscillatory Cross Sections. Journal of Physical Chemistry A, 2011, 115, 11525-11530.	+ 2.5	26
29	Quasi-Classical Trajectory–Gaussian Binning Study of the OH + D ₂ → HOD(<i>v</i> ₁ â€2, <i>v</i> ₂ â€2, <i>v</i> ₃ â€2) + D Angle–Velocity and Vibrational Distributions at a Collision Energy of 0.28 eV. Journal of Physical Chemistry A, 2011, 115, 7413-7417.	2.5	25
30	Capture and dissociation in the complex-forming CH+H2→ CH2+H, CH+H2 reactions. Physical Chemistry Chemical Physics, 2011, 13, 3421.	2.8	12
31	Quasiclassical dynamics and kinetics of the N+NO→N2+O, NO+N atmospheric reactions. Journal of Chemical Physics, 2010, 132, 144304.	3.0	35
32	Quantum dynamics of the C(D1)+HD and C(D1)+nâ^'D2 reactions on the ã A1′ and b̃ A1″ surfa Chemical Physics, 2010, 132, 104306.	ices, Jour	mal of 24
33	A comparative QM/MM study of the reaction mechanism of the Hepatitis C virus NS3/NS4A protease with the three main natural substrates NS5A/5B, NS4B/5A and NS4A/4B. Physical Chemistry Chemical Physics, 2010, 12, 8001.	2.8	12
34	Time-Dependent Quantum Dynamics Study of the Ne + H ₂ ⁺ (<i>v</i> = 0â^9) and D ₂ ⁺ (<i>v</i> = 0â~12) Proton Transfer Reactions at Thermal Collision Energies. Journal of Physical Chemistry A, 2009, 113, 4105-4109.	2.5	23
35	The OH + D2→ HOD + D angle–velocity distribution: quasi-classical trajectory calculations on the YZCL2 and WSLFH potential energy surfaces and comparison with experiments at ET = 0.28 eV. Physical Realwavepacketicodehjoicsm00math.xm1nSmm1="http://www.w3.org/1998/Math/MathML"	2.8	17
36	aitimg= si1.gif overflow= scroll > <mml:mi mathvariant="normal">ABC<mml:mo>+</mml:mo><mml:mi mathvariant="normal">D<mml:mo>â†'</mml:mo><mml:mi mathvariant="normal">AB<mml:mo>+</mml:mo><mml:mi mathvariant="normal">CD+<mml:mi occupation == normal">CD reactive scattering. Computer Physics Communicatio</mml:mi </mml:mi </mml:mi </mml:mi </mml:mi 	7.5	19
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MIGUEL GONZALEZ

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37	Renner–Teller coupled-channel dynamics of the N(D2)+H2 reaction and the role of the NH2â€^À̃ A21 electronic state. Journal of Chemical Physics, 2008, 129, 244307.	3.0	36
38	Quantum dynamics study of the K+HF(v=0–2,j=0)→KF+H reaction and comparison with quasiclassical trajectory results. Journal of Chemical Physics, 2008, 128, 144302.	3.0	7
39	Time dependent quantum dynamics study of the Ne+H2+(v=–4)→NeH++H proton transfer reaction. Journal of Chemical Physics, 2008, 128, 194307.	3.0	26
40	Comparison of Different Quantum Mechanical/Molecular Mechanics Boundary Treatments in the Reaction of the Hepatitis C Virus NS3 Protease with the NS5A/5B Substrate. Journal of Physical Chemistry B, 2007, 111, 12909-12915.	2.6	32
41	Searching for resonances in the reaction Cl+CH4→HCl+CH3: Quantum versus quasiclassical dynamics and comparison with experiments. Journal of Chemical Physics, 2007, 127, 104302.	3.0	29
42	Theoretical Study of the Complex-Forming CH + H2→ CH2+ H Reactionâ€. Journal of Physical Chemistry A, 2006, 110, 5542-5548.	2.5	16
43	A quantum mechanics/molecular mechanics study of the reaction mechanism of the hepatitis C virus NS3 protease with the NS5A/5B substrate. Proteins: Structure, Function and Bioinformatics, 2006, 66, 444-455.	2.6	10
44	Time dependent quantum dynamics study of the O++H2(v=0,j=0)→OH++H ion-molecule reaction and isotopic variants (D2,HD). Journal of Chemical Physics, 2006, 125, 164305.	3.0	36
45	Exact quantum dynamics study of the O++H2(v=0,j=0)→OH++H ion-molecule reaction and comparison with quasiclassical trajectory calculations. Journal of Chemical Physics, 2006, 124, 144301.	3.0	29
46	Quantum real wave-packet dynamics of the N(S4)+NO(XÌfÎ2)→N2(XÌfΣg+1)+O(P3) reaction on the ground and first excited triplet potential energy surfaces: Rate constants, cross sections, and product distributions. Journal of Chemical Physics, 2006, 124, 174303.	3.0	34
47	Product distributions, rate constants, and mechanisms of LiH+H reactions. Journal of Chemical Physics, 2005, 122, 214303.	3.0	33
48	Cross sections of the O++H2→OH++H ion-molecule reaction and isotopic variants (D2, HD): Quasiclassical trajectory study and comparison with experiments. Journal of Chemical Physics, 2005, 123, 174312.	3.0	29
49	Ab initio analytical potential energy surface and quasiclassical trajectory study of the O+(4S)+H2(X 1ĺ£g+)→OH+(X 3ĺ£â^')+H(2S) reaction and isotopic variants. Journal of Chemical Physics, 2C 4705-4714.	0340120,	42
50	A QCT study of the cross-section, energy and angular distributions of the OH+D2→HOD+D reaction at ET=0.28 eV on the YZCL2 surface. Chemical Physics Letters, 2004, 399, 527-533.	2.6	14
51	Ab initiopotential energy surface, variational transition state theory, and quasiclassical trajectory studies of the F+CH4a† HF+CH3 reaction. Journal of Chemical Physics, 2004, 120, 5181-5191.	3.0	46
52	A QCT study of the microscopic mechanisms proceeding via the ground PES of the O(1D)+H2 (X1Σg+)→OH(X2Î)+H(2S) reaction. Chemical Physics Letters, 2003, 380, 123-134.	2.6	11
53	Ab initiostudy of the O(1D)+CH4(X 1A1)→OH(X 2Î)+CH3(X 2A2″) reaction: Ground and excited pote surfaces. Journal of Chemical Physics, 2003, 119, 9504-9512.	intial ener	gy ₁
54	Quantum reactive scattering calculations of cross sections and rate constants for the N(2D)+O2(X 3Σgâ^)â†'O(3P)+NO(X 2Î) reaction. Journal of Chemical Physics, 2003, 118, 3111-3123.	3.0	38

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55	Quantum wave packet dynamics of the 1 3A″ N(4S)+NO(XÌf 2Î)â†'N2(XÌf 1Σg+)+O(3P) reaction Physics, 2003, 119, 7156-7162.	. Journal c	of Chemical
56	Influence of collision energy on the N(2D)+O2→O(3P)+NO reaction dynamics: A quasiclassical trajectory study involving four potential energy surfaces. Journal of Chemical Physics, 2003, 119, 10040-10047.	3.0	11
57	Ab initio derived analytical fits of the two lowest triplet potential energy surfaces and theoretical rate constants for the N(4S)+NO(X 2Î) system. Journal of Chemical Physics, 2003, 119, 2545-2556.	3.0	48
58	Ab initio study of the two lowest triplet potential energy surfaces involved in the N(4S)+NO (X 2Î) reaction. Journal of Chemical Physics, 2003, 118, 10602-10610.	3.0	33
59	The lowest doublet and quartet potential energy surfaces involved in the N(4S)+O2 reaction. II. Ab initio study of the C2v-symmetry insertion mechanism. Journal of Chemical Physics, 2002, 117, 680-692.	3.0	19
60	Quantum dynamics of the N(4S)+O2 reaction on the X 2A′ and a 4A′ surfaces: Reaction probabilitie cross sections, rate constants, and product distributions. Journal of Chemical Physics, 2002, 117, 3647-3655.	2s, 3.0	26
61	Ab initio, kinetics, and dynamics study of Cl+CH4→HCl+CH3. Journal of Chemical Physics, 2002, 117, 5730-5741.	3.0	40
62	Quasiclassical Trajectory Study of Energy and Angular Distributions for the H + CO2→ OH + CO Reactionâ€. Journal of Physical Chemistry B, 2002, 106, 8148-8160.	2.6	28
63	Influence of collision energy on the dynamics of the reaction O(1D) + CH4(X1A1) → OH(X 2Î)â Physical Chemistry Chemical Physics, 2002, 4, 288-294.	€‰+â€% 2.8	₀çӈз(x 2, <mark>4</mark> 2
64	Ab initio and kinetics study of the ground 1A″ potential energy surface of the O(1D)+N2O→2NO, N2+O2(a1Δg) reactions. Chemical Physics Letters, 2002, 355, 123-132.	2.6	12
65	Ab initio, VTST and QCT study of the potential energy surface implied in the reaction. Chemical Physics Letters, 2002, 360, 521-533.	2.6	6
66	New analytical (2A′,4A′) surfaces and theoretical rate constants for the N(4S)+O2 reaction. Journal of Chemical Physics, 2002, 117, 670-679.	3.0	58
67	Ab initio ground PES and QCT study of the influence of molecular alignment and vibrational excitation on the K + HF ââ€â€™ KF + H reactionPresented at the Stereodynamics 2000 Conference on Dynamics and Stereodynamics of Chemical Reactions, El Escorial, Madrid, December 1ââ,¬â€œ5, 2000 Physical Chemistry Chemical Physics. 2001. 3. 4701-4711.	2.8	7
68	A four-dimensional quantum mechanical state-to-state study of the H2+C2H→H+C2H2 reaction. Journal of Chemical Physics, 2001, 114, 9882-9894.	3.0	12
69	Collision energy effects on the dynamics of the reaction O(3P)+CH4(X1A1)→OH(X2Î)+CH3(X2A2″). Chemical Physics Letters, 2001, 341, 608-618.	2.6	17
70	A quasiclassical trajectory study of angular and internal state distributions in H+H2O and H+D2O at E=1.4 eV. Chemical Physics Letters, 2001, 343, 420-428.	2.6	17
71	Nascent OH (X2Î) product state distributions from the reaction of O(1 D) with ethylene Chemical Physics Letters, 2001, 346, 69-80.	2.6	3
72	VTST kinetics study of the N(2D)+O2(X3Σgâ^')→NO(X2Î)+O(3P,1D) reactions based on CASSCF and CASPT2 ab initio calculations including excited potential energy surfaces. Chemical Physics Letters, 2001, 335, 339-347.	2.6	21

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73	Ab initio and DFT study of the ground potential energy surface for the ()+→2 reaction. Chemical Physics Letters, 2001, 343, 119-129.	2.6	12
74	Ab initio, variational transition state theory and quasiclassical trajectory study on the lowest 2A′ potential energy surface involved in the N(2D)+O2(X 3Σgâ~')→O(3P)+NO(X 2Î) atmospheric reaction. Jour of Chemical Physics, 2001, 115, 2530-2539.	nalo	16
75	Variational transition state theory and quasiclassical trajectory studies of the H2+OH→H+H2O reaction and some isotopic variants. Journal of Chemical Physics, 2001, 115, 1828-1842.	3.0	38
76	A quasiclassical trajectory study of reactivity and product energy disposal in H+H2O, H+D2O, and H+HOD. Journal of Chemical Physics, 2001, 114, 8397-8413.	3.0	38
77	A quasiclassical trajectory study of product energy and angular distributions for the OH+D2 reaction. Journal of Chemical Physics, 2001, 115, 5160-5169.	3.0	23
78	Ab initio1A′ ground potential energy surface and transition state theory kinetics study of the O(1D)+N2O→2NO, N2+O2(a 11"g) reactions. Journal of Chemical Physics, 2001, 115, 7015-7031.	3.0	21
79	Ab initio CASPT2//CASSCF study of the O(1D)+H2O(X 1A1) reaction. Journal of Chemical Physics, 2001, 115, 8828-8837.	3.0	17
80	Ab initio, VTST, and QCT study of the 1 2A″ potential energy surface of the N(2D)+O2(X 3Σgâ^)→O(3P) reaction. Journal of Chemical Physics, 2001, 115, 8838-8851.)+NO(Xâ€ 3.0	Š2Ĵ)
81	The lowest doublet and quartet potential energy surfaces involved in the N(4S)+O2 reaction. I. Ab initio study of the Cs-symmetry (2A′, 4A′) abstraction and insertion mechanisms. Journal of Chemical Physics, 2001, 115, 1287-1297.	3.0	23
82	Ab initio ground potential energy surface (3A″) for the O(3P)+N2O reaction and kinetics study. Journal of Chemical Physics, 2001, 115, 2540-2549.	3.0	13
83	A semiclassical approach to the non-adiabatic dynamics problem involving three electronic states in linear triatomic systems. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 4815-4820.	1.5	9
84	Ab initio and quasiclassical trajectory study of the N(2D)+NO(X 2Î)→O(1D)+N2(X 1Σg+) reaction on the lowest 1A′ potential energy surface. Journal of Chemical Physics, 2000, 113, 10983-10998.	3.0	28
85	A theoretical approach to the O(1D)+H2O(X  1A1) reaction: Ab initio potential energy surface and quasiclassical trajectory dynamics study. Journal of Chemical Physics, 2000, 113, 6736-6747.	3.0	29
86	Theoretical study of the dynamics, stereodynamics, and microscopic mechanism of the O(1D)+CH4(X 1A1)→OH(X 2Î)+CH3(X 2A2″) reaction. Journal of Chemical Physics, 2000, 113, 6	7 ³ 48-6759.	.26
87	Theoretical investigation of the eight low-lying electronic states of thecis- andtrans-nitric oxide dimers and its isomerization using multiconfigurational second-order perturbation theory (CASPT2). Journal of Chemical Physics, 2000, 112, 6608-6624.	3.0	67
88	Quasiclassical trajectory study of the H+ClF→F+HCl, Cl+HF and F+HCl→Cl+HF reactions and their deuterium isotope variants on a new (2A′) ab initio potential energy surface. Physical Chemistry Chemical Physics, 2000, 2, 523-533.	2.8	32
89	Ab initio ground potential energy surface, VTST and QCT study of the O(3P)+CH4(X 1A1)→OH(X 2Î)+CH3(X 2A2″) reaction. Journal of Chemical Physics, 1999, 110, 73	326-7338.	73
90	The dynamics of the O(1D)+N2O→NO+NO reaction revisited: a QCT study on model potential energy surfaces. Chemical Physics Letters, 1999, 300, 603-612.	2.6	17

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91	Ab initio ground potential energy surface and quasiclassical trajectory study of the O(1D)+CH4(X 1A1)→OH(X 2Î)+CH3(X 2A2″) reaction dynamics. Journal of Chemical Physics, 1999, 1	.11,8913-	-89524.
92	An analytical potential energy surface of the HClF (2Aâ€2) system based on ab initio calculations. Variational transition state theory study of the H+ClF→F+HCl, Cl+HF and F+HCl→Cl+HF reactions and their deuterium isotope variants. Physical Chemistry Chemical Physics, 1999, 1, 947-956.	2.8	39
93	Variational transition state calculation of the rate constants for the N(4Su)+O2(Xâ€^3Σgâ^')→NO(Xâ€^2Î)+O(3Pg reaction and its reverse between 300 and 5000 K. Chemical Physics Letters, 1998, 284, 101-108.	^{g)} 2.6	29
94	An analytical representation of the ground potential energy surface (2A′) of the H+Cl2→HCl+Cl and Cl+HCl→HCl+Cl reactions, based on ab initio calculations. Journal of Chemical Physics, 1998, 108, 3168-3177.	3.0	29
95	Quasiclassical Trajectory Study of Molecular Alignment Effects on the Dynamics of the Reactions of Cl, Br, and I with H2. Journal of Physical Chemistry A, 1997, 101, 7513-7521.	2.5	7
96	An ab initio analytical potential energy surface for the O(3P)+CS(X 1Îἑ+)→CO(X 1Îἑ+)+S(3P) reaction us for kinetic and dynamical studies. Journal of Chemical Physics, 1996, 105, 10999-11006.	sgful	20
97	A quasiclassical and approximate quantum mechanical study of the intramolecular isotope effect in proton transfer elementary reactions: the Ne + HD+ → NeH+(NeD+) + D(H) system at low and moderate collision energies (0.02–0.77 eV). Chemical Physics, 1996, 209, 355-365.	1.9	27
98	A comparison between experimental, quantum and quasiclassical properties for the reaction. Chemical Physics, 1995, 191, 1-15.	1.9	43
99	Influence of the potential energy surface on the reaction cross section: the K + HF → KF + H system. Chemical Physics, 1995, 200, 289-308.	1.9	8
100	Dynamics of the N(4S)+NO(X 2Î)→N2(X 1Σ+g)+O(3P) atmospheric reaction on the3A″ ground poten surface. III. Quantum dynamical study and comparison with quasiclassical and experimental results. Journal of Chemical Physics, 1995, 103, 4496-4508.	itial energy 3.0	у 27
101	Analytical treatment of the quadratic and nonrelativistic Renner-Teller effect for a triatomic molecule in a Î electronic state. Molecular Physics, 1994, 81, 655-665.	1.7	3
102	Effect of reagent rotation on the dynamics of the O+ + H2 ion—molecule reaction and isotopic variants. Chemical Physics Letters, 1993, 204, 578-586.	2.6	15
103	Quasiclassical trajectory study of the N(4Su) + O2 (X 3Σâ^'g)→NO (X 2Î) + O (3Pg) atmospheric reaction on the 2A′ ground potential energy surface employing an analytical Sorbie—Murrell potential. Chemical Physics, 1993, 172, 99-115.	1.9	54
104	A quasiclassical trajectory study of the effect of the initial rovibrational level and relative translational energy of reactants on the dynamics of the N(4Su) + O2(X 3â~â^'g) → NO(X 2Î) + O(3Pg) atmospheric reaction on the 2A′ ground potential energy surface. Chemical Physics, 1993, 178, 287-303.	1.9	24
105	Orientational dependence of the N(4S)+ NO(X2Î) and N(4S)+ O2(X3Σ–g) reactions: comparison of the angle-dependent line-of-centres model with quasiclassical trajectories. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 3223-3234.	1.7	23
106	A comparison between experimental and theoretical excitation functions for the O++H2 (4Aâ€`) system using trajectory calculations over a wide energy range. Journal of Chemical Physics, 1993, 98, 2927-2935.	3.0	22
107	Dynamics of the N(4Su)+NO(X 2Î)→N2(X 1Σ+g)+O(3Pg) atmospheric reaction on the3Aâ€~ ground pot energy surface. II. The effect of reagent translational, vibrational, and rotational energies. Journal of Chemical Physics, 1993, 99, 1719-1733.	ential 3.0	32
108	Dynamics of the N(4Su) + NO(X 2Î) → N2(X 1Σg+) + O(3Pg) atmospheric reaction on the 3Aâ€~ ground energy surface. I. Analytical potential energy surface and preliminary quasiclassical trajectory calculations. Journal of Chemical Physics, 1992, 97, 5542-5553.	potential 3.0	60

MIGUEL GONZALEZ

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109	Analytical treatment of the quadratic and nonrelativistic Renner-Teller effect for a triatomic molecule in a Î electronic state. Molecular Physics, 1992, 77, 193-207.	1.7	6
110	Analytical treatment of the quadratic and nonrelativistic Renner-Teller effect for a triatomic molecule in a Î electronic state. Molecular Physics, 1992, 77, 209-222.	1.7	4
111	On the potential energy surface for collinear OH+2 (4Σâ^'). Journal of Chemical Physics, 1991, 94, 3774-3777.	3.0	11
112	Classical dynamics of the O(3P)+CS(X1Σ+)→CO(X1Σ+)+S(3P) reaction on the ground triplet potential energy surface. Chemical Physics, 1990, 141, 401-415.	1.9	20
113	A crossed beam study of the ionization of molecules by metastable neon atoms. Chemical Physics, 1990, 145, 211-218.	1.9	34
114	Total cross-section for the ionization of molecules by thermal-energy collision with metastable neon atoms. Molecular Physics, 1990, 71, 897-901.	1.7	15
115	Calculated product state distributions for the H+HI→H2+I reaction at 0.68 and 1.60 eV relative energies. Chemical Physics Letters, 1989, 164, 643-652.	2.6	20
116	On the reliability of a reasonable single surface treatment of the reaction C+(2P)+H2(X 1Σg+)→CH+ +H at relative energies from the threshold region up to 2.0 eV. Chemical Physics, 1989, 132, 443-462.	1.9	7
117	Low energy dynamics, isotopic effects and detailed microscopic reaction mechanism of the ion-molecule reaction N+ (3P) + H2 → NH+ + H. Chemical Physics, 1989, 132, 137-151.	1.9	24
118	Dynamics of the O+(4S)+H2(X 1Σg+)→OH+ + H ion-molecule reaction and some of its isotopic variants (D2) Tj Physics, 1989, 131, 335-346.	ETQq0 0 1.9	0 rgBT /Overlo 23
119	Dynamics of the O+(4S)+H2(X 1Σg+)→OH+ + H Ion-molecule reaction and some of its isotopic variants (D2) Tj Physics, 1989, 131, 347-364.	ETQq1 1 1.9	0.784314 rgB 30
120	A theoretical study of the addition of atomic boron to water Computational and Theoretical Chemistry, 1988, 166, 301-306.	1.5	7
121	On the reaction Si+(2P) + H2(X1Σ+g) → SiH+ + H. I. Ab initio potential energy surfaces. Chemical Physics, 1987, 113, 417-424.	1.9	6
122	On the use of quantum chemical methods as an additional tool in studying corrosion inhibitor substances. Corrosion Science, 1986, 26, 927-934.	6.6	24
123	Analysis of the importance of the 3A2 NH2+ minimum in the ion—molecule reaction N+ (3P) + H2 → NH+ + H by the quasi-classical trajectory method using a plausible single surface model. Chemical Physics, 1986, 104, 57-66.	1.9	21
124	A MNDO approach to the elementary reactions of atomic hydrogen with monosubstituted halomethanes (CH3X, X î—» Cl, Br, I). Chemical Physics, 1986, 104, 49-56.	1.9	3
125	Classical dynamics study of the H+BrCh3 → HBr+CH3 reaction. Chemical Physics, 1985, 98, 409-419.	1.9	13
126	A simple modification of the LEPS surface suitable for the ion—molecule processes Az+ + BB → Az+ + BB, ABz+ + B. Chemical Physics Letters, 1985, 113, 179-186.	2.6	23

#	Article	IF	CITATIONS
127	Quasiclassical trajectory study of the ion—molecule reaction C+(2P) + H2(X 1Σ+g) → CH+ + H near the threshold energy. Chemical Physics Letters, 1985, 113, 187-191.	2.6	13
128	Comment on quasiclassical trajectory study of the ion-molecule reaction C+ (2P) + H2(X 1Σg+) → CH+ + H near the threshold energy. Chemical Physics Letters, 1985, 118, 226-227.	2.6	6