

Antônio J C Varandas

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7899641/publications.pdf>

Version: 2024-02-01

409
papers

10,889
citations

41627

51
h-index

78623

77
g-index

421
all docs

421
docs citations

421
times ranked

3533
citing authors

#	ARTICLE	IF	CITATIONS
1	From six to eight \hat{I} -electron bare rings of group-XIV elements and beyond: can planarity be deciphered from the "quasi-molecules" they embed?. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8488-8507.	1.3	5
2	Quasiclassical Trajectory Study of the Si + SH Reaction on an Accurate Double Many-Body Expansion Potential Energy Surface. <i>Journal of Physical Chemistry A</i> , 2022, 126, 3555-3568.	1.1	2
3	On the solvation model and infrared spectroscopy of liquid water. <i>Chemical Physics Letters</i> , 2022, 801, 139739.	1.2	3
4	MP2 versus density functional theory calculations in CO ₂ sequestration reactions with anions: Basis set extrapolation and solvent effects. <i>International Journal of Quantum Chemistry</i> , 2021, 121, e26583.	1.0	4
5	Post-complete-basis-set extrapolation of conventional and explicitly correlated coupled-cluster energies: can the convergence to the CBS limit be diagnosed?. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 8717-8730.	1.3	10
6	Canonical and explicitly-correlated coupled cluster correlation energies of sub- k mol ¹ accuracy via cost-effective hybrid-post-CBS extrapolation. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 9571-9584.	1.3	12
7	Accurate DMBE potential-energy surface for CNO($^2A'$) and rate coefficients in C(3P)+NO collisions. <i>Journal of Chemical Physics</i> , 2021, 154, 034303.	1.2	3
8	A general code for fitting global potential energy surfaces via CHIPR method: Direct-Fit Diatomic and tetratomic molecules. <i>Computer Physics Communications</i> , 2021, 258, 107556.	3.0	15
9	Modelling adiabatic cusps in via 2×2 diabatic matrix. <i>Molecular Physics</i> , 2021, 119, e1904157.	0.8	5
10	Quantum and Classical Dynamics of the N(² D) + N ₂ Reaction on Its Ground Doublet State N ₃ (² A ³) Potential Energy Surface. <i>Journal of Physical Chemistry A</i> , 2021, 125, 5650-5660.	1.1	3
11	$\text{Li} + \text{HCl} \rightarrow \text{LiCl} + \text{H}$ reaction. <i>Chemical Physics Letters</i> , 2021, 721, 319-324.	1.2	1
12	Dynamical calculations of O(³ P) + OH(² $\tilde{\text{I}}$) reaction on the CHIPR potential energy surface using the fully coupled time-dependent wave-packet approach in hyperspherical coordinates. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 21784-21796.	1.3	2
13	Canonical versus explicitly correlated coupled cluster: Post-complete-basis-set extrapolation and the quest of the complete-basis-set limit. <i>International Journal of Quantum Chemistry</i> , 2021, 121, e26598.	1.0	12
14	SiS Formation in the Interstellar Medium through Si+SH Gas-phase Reactions. <i>Astrophysical Journal</i> , 2021, 920, 37.	1.6	10
15	Optimized Structural Data at the Complete Basis Set Limit via Successive Quadratic Minimizations. <i>Journal of Physical Chemistry A</i> , 2021, 125, 10657-10666.	1.1	5
16	A general code for fitting global potential energy surfaces via CHIPR method: Triatomic molecules. <i>Computer Physics Communications</i> , 2020, 247, 106913.	3.0	16
17	Binding of muonated hydrogen molecules and Born-Oppenheimer approximation revisited. <i>Canadian Journal of Physics</i> , 2020, 98, 379-384.	0.4	2
18	Optimal diffuse augmented atomic basis sets for extrapolation of the correlation energy. <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26135.	1.0	1

#	ARTICLE	IF	CITATIONS
19	Role of Augmented Basis Sets and Quest for ab Initio Performance/Cost Alternative to Kohn-Sham Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2020, 124, 126-134.	1.1	9
20	Extrapolation in quantum chemistry: Insights on energetics and reaction dynamics. <i>Journal of Theoretical and Computational Chemistry</i> , 2020, 19, 2030001.	1.8	11
21	Accurate Potential Energy Surface for Quartet State HN_2 and Interplay of $\text{N}_4\text{S} + \text{NH}_3 \rightarrow \text{N}_3\text{H} + \text{N}_2$ versus $\text{H} + \text{N}_2(\text{A}) \rightarrow \text{N}_3 + \text{N}$ Reactions. <i>Journal of Physical Chemistry A</i> , 2020, 124, 781-789.	1.1	5
22	Effect of initial vibrational excitation on the methane cation sub-femtosecond photodynamics. <i>Molecular Physics</i> , 2020, 118, e1752403.	0.8	0
23	Quasiclassical Study of the $\text{C}_3\text{P} + \text{NO}(X^2)$ and $\text{O}_3\text{P} + \text{CN}(X^2)$ Collisional Processes on an Accurate DMBE Potential Energy Surface. <i>Journal of Physical Chemistry A</i> , 2019, 123, 7195-7200.	1.1	7
24	Fully coupled ($J=0$) time-dependent wave-packet calculations using hyperspherical coordinates for the $\text{H} + \text{O}_2$ reaction on the CHIPR potential energy surface. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 20166-20176.	1.3	13
25	Global Potential Energy Surface for HO_2 Using the CHIPR Method. <i>Journal of Physical Chemistry A</i> , 2019, 123, 1613-1621.	1.1	8
26	Accurate CHIPR Potential Energy Surface for the Lowest Triplet State of C_3 . <i>Journal of Physical Chemistry A</i> , 2019, 123, 8154-8169.	1.1	13
27	A trajectory surface hopping study of N_2 . <i>Chemical Physics Letters</i> , 2019, 729, 61-64.		
28	Optimal basis sets for CBS extrapolation of the correlation energy: $\text{ov}(\text{X})/\text{Z}$ and $\text{ov}(\text{X})/\text{dZ}$. <i>Journal of Chemical Physics</i> , 2019, 150, 154106.	1.2	2
29	CBS extrapolation of Hartree-Fock energy: Pople and Dunning basis sets hand-to-hand on the endeavour. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 8022-8034.	1.3	15
30	A global CHIPR potential energy surface for ground-state C_3H and exploratory dynamics studies of reaction $\text{C}_2 + \text{CH} \rightarrow \text{C}_3 + \text{H}$. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 24406-24418.	1.3	11
31	Difficulties and Virtues in Assessing the Potential Energy Surfaces of Carbon Clusters via DMBE Theory: Stationary Points of C_n ($n = 2-10$) at the Focal Point. <i>Journal of Physical Chemistry A</i> , 2019, 123, 3121-3130.	1.1	5
32	Energy-switching potential energy surface for ground-state C_3 . <i>Chemical Physics Letters</i> , 2018, 700, 36-43.	1.2	9
33	Accurate Explicit-Correlation-MRCI-Based DMBE Potential-Energy Surface for Ground-State CNO. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4198-4207.	1.1	13
34	C_n ($n = 2-4$): current status. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170145.	1.6	21
35	Straightening the Hierarchical Staircase for Basis Set Extrapolations: A Low-Cost Approach to High-Accuracy Computational Chemistry. <i>Annual Review of Physical Chemistry</i> , 2018, 69, 177-203.	4.8	65
36	Accurate ab initio potential for HO_2 . CBS extrapolated energies and direct-fit diatomic curves. <i>Chemical Physics Letters</i> , 2018, 691, 421-430.	1.2	7

#	ARTICLE	IF	CITATIONS
37	Multiple conical intersections in small linear parameter Jahn-Teller systems: the DMBE potential energy surface of ground-state C ₃ revisited. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 10319-10331.	1.3	6
38	3D time-dependent wave-packet approach in hyperspherical coordinates for the H + O ₂ reaction on the CHIPR and DMBE IV potential energy surfaces. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 478-488.	1.3	17
39	The O + NO(<i>v</i>) Vibrational Relaxation Processes Revisited. <i>Journal of Physical Chemistry A</i> , 2018, 122, 5299-5310.	1.1	10
40	CBS extrapolation in electronic structure pushed to the end: a revival of minimal and sub-minimal basis sets. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22084-22098.	1.3	25
41	Even numbered carbon clusters: cost-effective wavefunction-based method for calculation and automated location of most structural isomers. <i>European Physical Journal D</i> , 2018, 72, 1.	0.6	11
42	Assessing How Correlated Molecular Orbital Calculations Can Perform versus Kohn-Sham DFT: Barrier Heights/Isomerizations. <i>Chemistry - A European Journal</i> , 2017, 23, 9122-9129.	1.7	14
43	Coupled 3D time-dependent quantum wave-packet study of the O + OH reaction in hyperspherical coordinates on the CHIPR potential energy surface. <i>Chemical Physics Letters</i> , 2017, 675, 85-91.	1.2	11
44	The Jahn-Teller plus pseudo-Jahn-Teller vibronic problem in the C ₃ radical and its topological implications. <i>Journal of Chemical Physics</i> , 2016, 144, 064309.	1.2	19
45	Role of (H ₂ O) _{<i>n</i>} (<i>n</i> = 2-3) Clusters on the HO ₂ + O ₃ Reaction: A Theoretical Study. <i>Journal of Physical Chemistry B</i> , 2016, 120, 1560-1568.	1.2	26
46	Sub-femtosecond nuclear dynamics and high-harmonic generation: Can muonated species be used as a probe of isotope effects?. <i>Chemical Physics Letters</i> , 2016, 653, 47-53.	1.2	2
47	Modeling cusps in adiabatic potential energy surfaces using a generalized Jahn-Teller coordinate. <i>Chemical Physics Letters</i> , 2016, 660, 55-59.	1.2	12
48	Carbon Dioxide Capture and Release by Anions with Solvent-Dependent Behaviour: A Theoretical Study. <i>Chemistry - A European Journal</i> , 2016, 22, 14056-14063.	1.7	12
49	Similarity measures between excited singlet and triplet electron densities in linear acenes: an application to singlet fission. <i>Molecular Physics</i> , 2016, 114, 3650-3657.	0.8	1
50	Extrapolation of Hartree-Fock and multiconfiguration self-consistent-field energies to the complete basis set limit. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	0.5	28
51	The HO ₂ + (H ₂ O) _{<i>n</i>} + O ₃ reaction: an overview and recent developments. <i>European Physical Journal D</i> , 2016, 70, 1.	0.6	11
52	Structural evolution of the methane cation in subfemtosecond photodynamics. <i>Journal of Chemical Physics</i> , 2015, 143, 014304.	1.2	17
53	Rescattering of recolliding electron and low energy structure in few-cycle mid-infrared strong laser field: A 3D-TDSE study. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 1133-1138.	0.9	0
54	On dipositronium and molecular hydrogen: similarities and differences. <i>European Physical Journal D</i> , 2015, 69, 1.	0.6	4

#	ARTICLE	IF	CITATIONS
55	Coupled 3D Time-Dependent Wave-Packet Approach in Hyperspherical Coordinates: The $D^{+}+H_2$ Reaction on the Triple-Sheeted DMBE Potential Energy Surface. <i>Journal of Physical Chemistry A</i> , 2015, 119, 12392-12403.	1.1	26
56	Mapping the HO ₃ ground state potential energy surface with DFT: Can we reproduce the MRCI+Q/CBS data?. <i>Chemical Physics Letters</i> , 2015, 620, 61-66.	1.2	4
57	Application of the Unified Singlet and Triplet Electron-Pair Extrapolation Scheme with Basis Set Rehierarchy to Tensorial Properties. <i>Journal of Physical Chemistry A</i> , 2015, 119, 1208-1217.	1.1	14
58	Modeling Cusps in Adiabatic Potential Energy Surfaces. <i>Journal of Physical Chemistry A</i> , 2015, 119, 1415-1421.	1.1	15
59	Quantum dynamics study on the CHIPR potential energy surface for the hydroperoxyl radical: The reactions $O + OH \rightarrow O_2 + H$. <i>Journal of Chemical Physics</i> , 2015, 142, 014309.	1.2	13
60	Subfemtosecond Quantum Nuclear Dynamics in Water Isotopomers. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4856-4863.	1.1	7
61	Sub-femtosecond quantum dynamics of the strong-field ionization of water to the $X^{1f}B_1$ and $\tilde{A}^{2f}A_1$ states of the cation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6545-6553.	1.3	8
62	Accurate adiabatic potential energy surface for $12A_1$ state of FH ₂ based on ab initio data extrapolated to the complete basis set limit. <i>European Physical Journal D</i> , 2015, 69, 1.	0.6	8
63	Toward a unified single-parameter extrapolation scheme for the correlation energy: Systems formed by atoms of hydrogen through neon. <i>Chemical Physics Letters</i> , 2015, 631-632, 70-77.	1.2	24
64	Effect of Initial Vibrational-State Excitation on Subfemtosecond Photodynamics of Water. <i>Journal of Physical Chemistry A</i> , 2015, 119, 12367-12375.	1.1	4
65	Low-temperature $D^+ + H_2$ reaction: A time-dependent coupled wave-packet study in hyperspherical coordinates. <i>Journal of Chemical Physics</i> , 2015, 142, 024304.	1.2	27
66	Accurate <i>ab initio</i> -based double many-body expansion potential energy surface for the adiabatic ground-state of the C ₃ radical including combined Jahn-Teller plus pseudo-Jahn-Teller interactions. <i>Journal of Chemical Physics</i> , 2015, 143, 074302.	1.2	19
67	Quantum dynamics study of the $X+O_2$ reactions on the CHIPR potential energy surface: $X=Mu, H, D, T$. <i>Chemical Physics Letters</i> , 2015, 638, 61-65.	1.2	6
68	On the performance of various hierarchized bases in extrapolating the correlation energy to the complete basis set limit. <i>Chemical Physics Letters</i> , 2015, 641, 90-96.	1.2	27
69	Dynamics of the $O + ClO$ Reaction: Reactive and Vibrational Relaxation Processes. <i>Journal of Physical Chemistry A</i> , 2014, 118, 12120-12129.	1.1	1
70	Carbon Dioxide Capture with the Ozone-like Polynitrogen Molecule Li_3N_3 . <i>Journal of Physical Chemistry A</i> , 2014, 118, 12256-12261.	1.1	5
71	Coupled-cluster reaction barriers of : An application of the coupled-cluster//Kohn-Sham density functional theory model chemistry. <i>Journal of Computational Chemistry</i> , 2014, 35, 507-517.	1.5	20
72	O ₃ Hydrogen: An account on electronic structure, kinetics, and role of water in mediating reactions with atmospheric ozone. Just a catalyst or far beyond?. <i>International Journal of Quantum Chemistry</i> , 2014, 114, 1327-1349.	1.0	21

#	ARTICLE	IF	CITATIONS
73	Narrowing the error in electron correlation calculations by basis set re-hierarchization and use of the unified singlet and triplet electron-pair extrapolation scheme: Application to a test set of 106 systems. <i>Journal of Chemical Physics</i> , 2014, 141, 224113.	1.2	76
74	Accurate double many-body expansion potential energy surface for the $21A^{\prime\prime}$ state of N ₂ O. <i>Journal of Chemical Physics</i> , 2014, 141, 084307.	1.2	11
75	On the ferryl catalyst: Electronic structure and optimized ab initio geometry. <i>Chemical Physics Letters</i> , 2014, 595-596, 175-179.	1.2	5
76	Quasiclassical Trajectory Study of the Atmospheric Reaction N(² D) + NO(X) Tj ETQq0 0 0 rgBT /Overlock 10	1.1	18
77	On carbon dioxide capture: An accurate ab initio study of the Li ₃ N+CO ₂ insertion reaction. <i>Computational and Theoretical Chemistry</i> , 2014, 1036, 61-71.	1.1	6
78	Exploring the Utility of Many-Body Expansions: A Consistent Set of Accurate Potentials for the Lowest Quartet and Doublet States of the Azide Radical with Revisited Dynamics. <i>Journal of Physical Chemistry A</i> , 2014, 118, 10127-10133.	1.1	6
79	Is HO ⁺ multiple-minimum and floppy? Covalent to van der Waals isomerization and bond rupture of a peculiar anion. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 16997-17007.	1.3	5
80	Theoretical investigation of vibrational relaxation of highly excited O ₃ in collisions with HO ₂ . <i>RSC Advances</i> , 2014, 4, 9866.	1.7	1
81	On Extracting Subfemtosecond Data from Femtosecond Quantum Dynamics Calculations: The Methane Cation. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 3606-3616.	2.3	20
82	Electronic Quenching in N(² D) + N ₂ Collisions: A State-Specific Analysis via Surface Hopping Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 1872-1877.	2.3	16
83	Coupled 3D Time-Dependent Wave-Packet Approach in Hyperspherical Coordinates: Application to the Adiabatic Singlet-State(1 ⁺ A ²) D ⁺ + H ₂ Reaction. <i>Journal of Physical Chemistry A</i> , 2014, 118, 4837-4850.	1.1	26
84	Orbitals of the dipositronium. <i>Chemical Physics Letters</i> , 2014, 610-611, 167-172.	1.2	4
85	Photoinduced coupled twisted intramolecular charge transfer and excited-state proton transfer via intermolecular hydrogen bonding: A DFT/TD-DFT study. <i>Chemical Physics Letters</i> , 2014, 610-611, 179-185.	1.2	8
86	Single-Sheeted Double Many-Body Expansion Potential Energy Surface for Ground-State ClO ₂ . <i>Journal of Physical Chemistry A</i> , 2014, 118, 4851-4862.	1.1	6
87	Benchmarking of Density Functionals for the Accurate Description of Thiol-Disulfide Exchange. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 4842-4856.	2.3	33
88	Roadmap to spline-fitting potentials in high dimensions. <i>Journal of Mathematical Chemistry</i> , 2013, 51, 1729-1746.	0.7	15
89	Vibrational energy transfer in N(² D) + N ₂ collisions: A state-specific analysis via surface hopping dynamics. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 1872-1877.	1.2	9
90	Silane Radical Cation: A Theoretical Account on the Jahn-Teller Effect at a Triple Degeneracy. <i>Journal of Physical Chemistry A</i> , 2013, 117, 8794-8805.	1.1	3

#	ARTICLE	IF	CITATIONS
91	Accurate Determination of the Reaction Course in $\text{HY}_2 + \text{YH}$ ($\text{Y} = \text{O}, \text{S}$): Detailed Analysis of the Covalent- to Hydrogen-Bonding Transition. <i>Journal of Physical Chemistry A</i> , 2013, 117, 7393-7407.	1.1	16
92	Combined-hyperbolic-inverse-power-representation of potential energy surfaces: A preliminary assessment for H_3 and HO_2 . <i>Journal of Chemical Physics</i> , 2013, 138, 054120.	1.2	36
93	Accurate Study of the Two Lowest Singlet States of HN_3 : Stationary Structures and Energetics at the MRCI Complete Basis Set Limit. <i>Journal of Physical Chemistry A</i> , 2013, 117, 4044-4050.	1.1	7
94	Electronic Quenching of $\text{N}_2(\text{D})$ by N_2 : Theoretical Predictions, Comparison with Experimental Rate Constants, and Impact on Atmospheric Modeling. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2292-2297.	2.1	22
95	The coupled 3D wave packet approach for triatomic reactive scattering in hyperspherical coordinates. <i>Computer Physics Communications</i> , 2013, 184, 270-283.	3.0	35
96	Accurate combined-hyperbolic-inverse-power-representation of <i>ab initio</i> potential energy surface for the hydroperoxyl radical and dynamics study of $\text{O} + \text{OH} \rightarrow \text{O}_2 + \text{H}$ reaction. <i>Journal of Chemical Physics</i> , 2013, 138, 134117.	1.2	36
97	Manifestation of external field effect in time-resolved photo-dissociation dynamics of LiF . <i>Chinese Physics B</i> , 2013, 22, 073303.	0.7	2
98	Implications of the $\text{O} + \text{OH}$ reaction in hydroxyl nightglow modeling. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1-13.	1.9	60
99	Accurate Potential Energy Surfaces and Beyond: Chemical Reactivity, Binding, Long-Range Interactions, and Spectroscopy. <i>Advances in Physical Chemistry</i> , 2012, 2012, 1-4.	2.0	9
100	Quadratic coupling treatment of the Jahn-Teller effect in the triply-degenerate electronic state of CH_4^+ : Can one account for floppiness?. <i>Journal of Chemical Physics</i> , 2012, 137, 214320.	1.2	12
101	A detailed test study of barrier heights for the $\text{HO}_2 + \text{H}_2\text{O} + \text{O}_3$ reaction with various forms of multireference perturbation theory. <i>Journal of Chemical Physics</i> , 2012, 136, 114312.	1.2	10
102	Accurate <i>ab-Initio</i> -Based Single-Sheeted DMBE Potential-Energy Surface for Ground-State N_2O . <i>Journal of Physical Chemistry A</i> , 2012, 116, 4646-4656.	1.1	19
103	$\text{N}_2(\text{S}) + \text{N}_2$: Accurate <i>ab initio</i> -based DMBE potential energy surfaces and surface-hopping dynamics. <i>Journal of Chemical Physics</i> , 2012, 137, 22A515.	1.2	27
104	<i>Ab Initio</i> Treatment of Bond-Breaking Reactions: Accurate Course of HO_3 Dissociation and Revisit to Isomerization. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 428-441.	2.3	45
105	<i>Ab Initio</i> -Based Global Double Many-Body Expansion Potential Energy Surface for the First $2A_1'$ Electronic State of NO_2 . <i>Journal of Physical Chemistry A</i> , 2012, 116, 3023-3034.	1.1	17
106	Accurate <i>ab initio</i> -based double many-body expansion adiabatic potential energy surface for the $2^2A_1'$ state of NH_2 by extrapolation to the complete basis set limit. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 2932-2939.	1.0	13
107	Dynamics study of a three-fold pseudo-Jahn-Teller system using the extended Longuet-Higgins formalism. <i>Journal of Chemical Sciences</i> , 2012, 124, 115-120.	0.7	0
108	Can water be a catalyst on the $\text{HO}_2 + \text{H}_2\text{O} + \text{O}_3$ reactive cluster?. <i>Chemical Physics</i> , 2012, 399, 17-22.	0.9	19

#	ARTICLE	IF	CITATIONS
109	An accurate ab initio potential energy curve and the vibrational bound states of state of. Chemical Physics, 2012, 398, 160-167.	0.9	10
110	Toward the modeling of the $\text{NO}_2^+(\text{A}^3)$ manifold. International Journal of Quantum Chemistry, 2011, 111, 3776-3785.	1.0	12
111	Anatomy of the $\text{S}(1\text{D}) + \text{H}_2$ reaction: the dynamics on two new potential energy surfaces from quantum dynamics calculations. Physical Chemistry Chemical Physics, 2011, 13, 13645.	1.3	26
112	Is HO_3 minimum cis or trans? An analytic full-dimensional ab initio isomerization path. Physical Chemistry Chemical Physics, 2011, 13, 9796.	1.3	35
113	Accurate Double Many-Body Expansion Potential Energy Surface for Ground-State HS_2 Based on ab Initio Data Extrapolated to the Complete Basis Set Limit. Journal of Physical Chemistry A, 2011, 115, 5274-5283.	1.1	30
114	Quasiclassical Trajectory Study of the $\text{C}(\text{D}) + \text{H}_2$ Reaction and Isotopomeric Variants: Kinetic Isotope Effect and CD/CH Branching Ratio. Journal of Physical Chemistry A, 2011, 115, 7882-7890.	1.1	25
115	Ab Initio Based Double-Sheeted DMBE Potential Energy Surface for $\text{N}_2^+(\text{A}^3)$ and Exploratory Dynamics Calculations. Journal of Physical Chemistry A, 2011, 115, 12390-12398.	1.1	26
116	Generalized Born-Oppenheimer treatment of Jahn-Teller systems in Hilbert spaces of arbitrary dimension: theory and application to a three-state model potential. Physical Chemistry Chemical Physics, 2011, 13, 8131.	1.3	13
117	On the stability of the elusive HO_3 radical. Physical Chemistry Chemical Physics, 2011, 13, 15619.	1.3	37
118	The Jahn-Teller effect in the triply degenerate electronic state of methane radical cation. Journal of Chemical Physics, 2011, 135, 174304.	1.2	24
119	18th European Conference on Dynamics of Molecular Systems. Physica Scripta, 2011, 84, 028101.	1.2	0
120	Significant nonadiabatic effects in the $\text{C} + \text{CH}$ reaction dynamics. Journal of Chemical Physics, 2011, 135, 024306.	1.2	13
121	Refining to near spectroscopic accuracy the double many-body expansion potential energy surface for ground-state NH_2 . Chemical Physics Letters, 2011, 516, 17-22.	1.2	14
122	A study of the geometrical phase effect on scattering processes: Validity of the extended-Longuet-Higgins formalism for a four-fold Jahn-Teller type model system. Chemical Physics, 2011, 389, 81-87.	0.9	3
123	Helium-fullerene pair interactions: An ab initio study by perturbation theory and coupled cluster methods. International Journal of Quantum Chemistry, 2011, 111, 416-429.	1.0	14
124	Quasiclassical trajectory study of the rotational distribution for the $\text{O} + \text{NO}(v=0)$ fundamental vibrational excitation. International Journal of Chemical Kinetics, 2011, 43, 345-352.	1.0	3
125	The reaction: Current status and prospective work. Computational and Theoretical Chemistry, 2011, 965, 291-297.	1.1	15
126	Quantum calculations for the $\text{S}(1\text{D}) + \text{H}_2$ reaction employing the ground adiabatic electronic state. Physica Scripta, 2011, 84, 028102.	1.2	14

#	ARTICLE	IF	CITATIONS
127	On the role of dynamical barriers in barrierless reactions at low energies: S(1^1D) + H ₂ . Journal of Chemical Physics, 2011, 135, 134313.	1.2	26
128	Geometrical phase effect in Jahn-Teller systems: Twofold electronic degeneracies and beyond. Chemical Physics Letters, 2010, 487, 139-146.	1.2	22
129	Quasi-classical trajectory and quantum mechanics study of the reaction H(2S)+NH ⁺ N(4S)+H ₂ . Chemical Physics Letters, 2010, 493, 225-228.	1.2	39
130	Adiabatic quantum dynamics calculations of the rate constant for the N+NH ⁺ N ₂ +H reaction. Chemical Physics Letters, 2010, 497, 159-162.	1.2	6
131	Spin-component-scaling second-order Møller-Plesset theory and its variants for economical correlation energies: Unified theoretical interpretation and use for quartet N ₃ . Journal of Chemical Physics, 2010, 133, 064104.	1.2	16
132	Extrapolation to the Complete Basis Set Limit without Counterpoise. The Pair Potential of Helium Revisited. Journal of Physical Chemistry A, 2010, 114, 8505-8516.	1.1	69
133	Ab Initio Study of Hydrazinyl Radical: Toward a DMBE Potential Energy Surface. Journal of Physical Chemistry A, 2010, 114, 11663-11669.	1.1	3
134	Quasiclassical Trajectory Study of Atom-Exchange and Vibrational Relaxation Processes in Collisions of Atomic and Molecular Nitrogen. Journal of Physical Chemistry A, 2010, 114, 6063-6070.	1.1	28
135	Accurate MRCI and CC Study of the Most Relevant Stationary Points and Other Topographical Attributes for the Ground-State C ₂ H ₂ Potential Energy Surface. Journal of Physical Chemistry A, 2010, 114, 13277-13287.	1.1	24
136	Ab-Initio-Based Global Double Many-Body Expansion Potential Energy Surface for the Electronic Ground State of the Ammonia Molecule. Journal of Physical Chemistry A, 2010, 114, 6669-6680.	1.1	22
137	HO ₂ + O ₃ Reaction: Ab Initio Study and Implications in Atmospheric Chemistry. Journal of Chemical Theory and Computation, 2010, 6, 412-420.	2.3	20
138	How Well Can Kohn-Sham DFT Describe the HO ₂ + O ₃ Reaction?. Journal of Chemical Theory and Computation, 2010, 6, 2751-2761.	2.3	21
139	Accurate Potential Energy Surface for the $1^2A'$ State of NH ₂ : Scaling of External Correlation Versus Extrapolation to the Complete Basis Set Limit. Journal of Physical Chemistry A, 2010, 114, 9644-9654.	1.1	29
140	Nonadiabatic quantum dynamics calculations for the N + NH ⁺ N ₂ + H reaction. Physical Chemistry Chemical Physics, 2010, 12, 9619.	1.3	12
141	Dynamics study of the atmospheric reaction involving vibrationally excited O ₃ with OH. Physical Chemistry Chemical Physics, 2010, 12, 11362.	1.3	3
142	Ab initio Based DMBE Potential Energy Surface for the Ground Electronic State of the C ₂ H Molecule. Journal of Physical Chemistry A, 2010, 114, 2655-2664.	1.1	7
143	Accurate Double Many-Body Expansion Potential Energy Surface for N ₃ ($^4A'$) from Correlation Scaled ab Initio Energies with Extrapolation to the Complete Basis Set Limit. Journal of Physical Chemistry A, 2009, 113, 14424-14430.	1.1	51
144	DIABATIC ELECTRONIC MANIFOLD OF HN ₂ ($^2A'$) AND N + NH REACTION DYNAMICS ON ITS LOWEST ADIABAT. Journal of Theoretical and Computational Chemistry, 2009, 08, 849-859.	1.8	11

#	ARTICLE	IF	CITATIONS
145	Accurate <i>ab initio</i> potential energy curves for the classic LiF ionic-covalent interaction by extrapolation to the complete basis set limit and modeling of the radial nonadiabatic coupling. <i>Journal of Chemical Physics</i> , 2009, 131, 124128.	1.2	62
146	Müller-Plesset perturbation energies and distances for HeC ₂₀ extrapolated to the complete basis set limit. <i>Journal of Computational Chemistry</i> , 2009, 30, 379-388.	1.5	15
147	Theoretical study of the O + HSO reaction. <i>International Journal of Chemical Kinetics</i> , 2009, 41, 455-462. A simple, yet reliable, direct diabaticization scheme. The	1.0	4
148	states of $\text{O} + \text{HSO}$ reaction. <i>International Journal of Chemical Kinetics</i> , 2009, 41, 455-462.	1.2	24
149	Nonadiabatic effects in D ₂ +H ₂ and H ₂ +D ₂ . <i>Chemical Physics Letters</i> , 2009, 471, 222-228.	1.2	44
150	Potential Energy Surface for Ground-State H ₂ S via Scaling of the External Correlation, Comparison with Extrapolation to Complete Basis Set Limit, and Use in Reaction Dynamics. <i>Journal of Physical Chemistry A</i> , 2009, 113, 9213-9219.	1.1	25
151	Accurate <i>ab initio</i> based DMBE potential energy surface for the ground electronic state of N ₂ H ₂ . <i>Journal of Chemical Physics</i> , 2009, 131, 044309.	1.2	27
152	Accurate <i>ab initio</i> double many-body expansion potential energy surface for ground-state H ₂ S by extrapolation to the complete basis set limit. <i>Journal of Chemical Physics</i> , 2009, 130, 134317.	1.2	50
153	Accurate Double Many-Body Expansion Potential Energy Surface for the Lowest Singlet State of Methylene. <i>Journal of Physical Chemistry A</i> , 2009, 113, 4175-4183.	1.1	21
154	Application of renormalized coupled-cluster methods to potential function of water. <i>Theoretical Chemistry Accounts</i> , 2008, 120, 59-78.	0.5	32
155	Can extrapolation to the basis set limit be an alternative to the counterpoise correction? A study on the helium dimer. <i>Theoretical Chemistry Accounts</i> , 2008, 119, 511-521.	0.5	40
156	Dynamics and kinetics of the S + HO ₂ reaction: A theoretical study. <i>International Journal of Chemical Kinetics</i> , 2008, 40, 533-540.	1.0	7
157	An <i>ab initio</i> study of the interaction between He and C ₃₆ with extrapolation to the one electron basis set limit. <i>Chemical Physics Letters</i> , 2008, 463, 225-229.	1.2	11
158	A comparison of single-reference coupled-cluster and multi-reference configuration interaction methods for representative cuts of the potential energy surface. <i>Computational and Theoretical Chemistry</i> , 2008, 859, 22-29.	1.5	14
159	Extrapolation to the complete-basis-set limit and the implications of avoided crossings: The $X^1\Sigma^+$, $B^1\Sigma^+$ and $B^2\Sigma^+$ states of C ₂ . <i>Journal of Chemical Physics</i> , 2008, 129, 234103.		60
160	Vibrational Relaxation of Highly Vibrationally Excited O ₃ in Collisions with OH. <i>Journal of Physical Chemistry A</i> , 2008, 112, 7238-7243.	1.1	8
161	A Theoretical Study of Rate Coefficients for the O + NO Vibrational Relaxation. <i>Journal of Physical Chemistry A</i> , 2008, 112, 960-965.	1.1	12
162	Extrapolating to the One-Electron Basis Set Limit in Polarizability Calculations. <i>Journal of Physical Chemistry A</i> , 2008, 112, 10413-10419.	1.1	15

#	ARTICLE	IF	CITATIONS
163	Generalized Uniform Singlet- and Triplet-Pair Extrapolation of the Correlation Energy to the One Electron Basis Set Limit. <i>Journal of Physical Chemistry A</i> , 2008, 112, 1841-1850.	1.1	40
164	HN_2 ($^2A'$) Electronic Manifold. II. <i>Ab Initio</i> Based Double-Sheeted DMBE Potential Energy Surface via a Global Diabatization Angle. <i>Journal of Physical Chemistry A</i> , 2008, 112, 3768-3786.	1.1	45
165	H_4^+ : What do we know about it?. <i>Journal of Chemical Physics</i> , 2008, 129, 034303.	1.2	11
166	Geometric phase effects in resonance-mediated scattering: $\text{H}+\text{H}_2^+$ on its lowest triplet electronic state. <i>Journal of Chemical Physics</i> , 2008, 128, 211101.	1.2	16
167	Energy-switching potential energy surface for the water molecule revisited: A highly accurate singled-sheeted form. <i>Journal of Chemical Physics</i> , 2008, 129, 044302.	1.2	11
168	Geometric phase effect in the vibrational states of triplet H_3^+ . <i>Physical Review A</i> , 2008, 77, .	1.0	5
169	Hyperspherical nuclear motion of H_3^+ and D_3^+ in the electronic triplet state, $^1u+3$. <i>Journal of Chemical Physics</i> , 2008, 128, 054301.	1.2	9
170	Intermolecular and Intramolecular Potentials: Topographical Aspects, Calculation, and Functional Representation via A Double Many-Body Expansion Method. <i>Advances in Chemical Physics</i> , 2007, , 255-338.	0.3	160
171	Accurate <i>ab initio</i> based multisheeted double many-body expansion potential energy surface for the three lowest electronic singlet states of H_3^+ . <i>Journal of Chemical Physics</i> , 2007, 126, 074309.	1.2	81
172	Accurate <i>ab initio</i> potentials at low cost via correlation scaling and extrapolation: Application to $\text{CO}(A^1)$. <i>Journal of Chemical Physics</i> , 2007, 127, 114316.	1.2	45
173	Direct Dynamics Simulation of Reaction Between F_2 and Ethylene. <i>Chinese Journal of Chemical Physics</i> , 2007, 20, 109-112.	0.6	6
174	Accurate <i>ab initio</i> -based molecular potentials: from extrapolation methods to global modelling. <i>Physica Scripta</i> , 2007, 76, C28-C35.	1.2	23
175	$\text{HN}_2(2A')$ Electronic Manifold. I. A Global <i>ab Initio</i> Study of First Two States. <i>Journal of Physical Chemistry A</i> , 2007, 111, 10191-10195.	1.1	16
176	Recalibrated Double Many-Body Expansion Potential Energy Surface and Dynamics Calculations for HN_2 . <i>Journal of Physical Chemistry A</i> , 2007, 111, 1172-1178.	1.1	24
177	Extrapolating to the one-electron basis-set limit in electronic structure calculations. <i>Journal of Chemical Physics</i> , 2007, 126, 244105.	1.2	176
178	Variational transition-state theory study of the atmospheric reaction $\text{OH} + \text{O}_3 \rightarrow \text{HO}_2 + \text{O}_2$. <i>International Journal of Chemical Kinetics</i> , 2007, 39, 148-153.	1.0	16
179	Kinetics and dynamics of $\text{O} + \text{OCIO}$ reaction in a modified many-body expansion potential energy surface for ClO_3 . <i>International Journal of Chemical Kinetics</i> , 2007, 39, 422-430.	1.0	0
180	Theoretical study of the reaction $\text{OH} + \text{SO} \rightarrow \text{H} + \text{SO}_2$. <i>Chemical Physics Letters</i> , 2007, 433, 279-285.	1.2	35

#	ARTICLE	IF	CITATIONS
181	Trajectory binning scheme and non-active treatment of zero-point energy leakage in quasi-classical dynamics. <i>Chemical Physics Letters</i> , 2007, 439, 386-392.	1.2	60
182	Dynamics and kinetics of the H+SO ₂ reaction: A theoretical study. <i>Chemical Physics Letters</i> , 2007, 439, 301-307.	1.2	23
183	Accurate global ab initio potentials at low-cost by correlation scaling and extrapolation to the one-electron basis set limit. <i>Chemical Physics Letters</i> , 2007, 443, 398-407.	1.2	47
184	Accurate quantum wave packet study of the N(2D)+D ₂ reaction. <i>Chemical Physics Letters</i> , 2007, 444, 351-354.	1.2	16
185	Renormalized coupled-cluster methods: Theoretical foundations and application to the potential function of water. <i>Progress in Theoretical Chemistry and Physics</i> , 2007, , 63-121.	0.2	16
186	Predicting Catalysis: A Understanding Ammonia Synthesis from First-Principles Calculations. <i>Journal of Physical Chemistry B</i> , 2006, 110, 17719-17735.	1.2	192
187	Dynamics of X+CH ₄ (X=H,O,Cl) reactions: How reliable is transition state theory for fine-tuning potential energy surfaces?. <i>Journal of Chemical Physics</i> , 2006, 125, 064312.	1.2	38
188	New Double Many-Body Expansion Potential Energy Surface for Ground-State HCN from a Multiproperty Fit to Accurate ab Initio Energies and Rovibrational Calculations. <i>Journal of Physical Chemistry A</i> , 2006, 110, 485-493.	1.1	43
189	A Quantum Wave Packet Dynamics Study of the N(2D) + H ₂ Reaction. <i>Journal of Physical Chemistry A</i> , 2006, 110, 1666-1671.	1.1	68
190	Dynamics Study of the OH + O ₃ Atmospheric Reaction with Both Reactants Vibrationally Excited. <i>Journal of Physical Chemistry A</i> , 2006, 110, 13836-13842.	1.1	8
191	Ro-Vibrational States of Triplet H ₂ D. <i>Journal of Physical Chemistry A</i> , 2006, 110, 5499-5503.	1.1	4
192	in the electronic triplet state: current status. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006, 364, 2889-2901.	1.6	10
193	Ab initio study of the H+ClONO ₂ reaction. <i>Chemical Physics Letters</i> , 2006, 421, 453-459.	1.2	6
194	Accurate rate constant and quantum effects for N(2D)+H ₂ reaction. <i>Chemical Physics Letters</i> , 2006, 421, 415-420.	1.2	41
195	Accurate MRCI study of ground-state N ₂ H ₂ potential energy surface. <i>Chemical Physics Letters</i> , 2006, 424, 46-53.	1.2	30
196	Direct fit of extended Hartree-Fock approximate correlation energy model to spectroscopic data. <i>Chemical Physics Letters</i> , 2006, 424, 425-431.	1.2	20
197	Extrapolating potential energy surfaces by scaling electron correlation at a single geometry. <i>Chemical Physics Letters</i> , 2006, 430, 448-453.	1.2	31
198	Accurate DMBE Potential Energy Surface For the N(2D) + H ₂ ($\hat{1}\hat{1}\hat{g} +$) Reaction Using an Improved Switching Function Formalism. <i>Theoretical Chemistry Accounts</i> , 2006, 116, 404-419.	0.5	73

#	ARTICLE	IF	CITATIONS
199	Nonadiabatic effects in the H+D2 reaction. Journal of Chemical Physics, 2006, 125, 133108.	1.2	43
200	A novel accurate representation of a double-valued potential energy surface by the DMBE method. Application to triplet H3(+). Chemical Physics, 2005, 308, 285-295.	0.9	25
201	Vibrational relaxation of highly excited HO2 in collisions with O2. Chemical Physics Letters, 2005, 402, 399-407.	1.2	2
202	What are the Implications of Nonequilibrium in the O+OH and O+HO2 Reactions?. ChemPhysChem, 2005, 6, 453-465.	1.0	19
203	Double many-body expansion potential energy surface for ground state HSO2. Physical Chemistry Chemical Physics, 2005, 7, 2305.	1.3	56
204	Repulsive double many-body expansion potential energy surface for the reactions N(4S)+ H2 → NH(X3Σ ⁻) + H from accurate ab initio calculations. Physical Chemistry Chemical Physics, 2005, 7, 2867.	1.3	44
205	Reply to the Comment on "Are Vibrationally Excited Molecules a Clue for the O3 Deficit Problem and HOx Dilemma in the Middle Atmosphere?". Journal of Physical Chemistry A, 2005, 109, 2700-2702.	1.1	8
206	Symmetry Analysis of the Vibronic States in the Upper Conical Potential (23A ⁻) of Triplet. Journal of Physical Chemistry A, 2005, 109, 3307-3310.	1.1	14
207	Unimolecular and Bimolecular Calculations for HN2. Journal of Physical Chemistry A, 2005, 109, 2356-2363.	1.1	50
208	Symmetry Properties of Rovibronic States of an X3Molecule in an Upright Conical Potential. Physical Review Letters, 2004, 93, 243003.	2.9	8
209	MODELING AND INTERPOLATION OF GLOBAL MULTI-SHEETED POTENTIAL ENERGY SURFACES. Advanced Series in Physical Chemistry, 2004, , 205-270.	1.5	28
210	Dynamics of HO2+O3 reaction using a test DMBE potential energy surface: does it occur via oxygen or hydrogen atom abstraction?. Chemical Physics Letters, 2004, 385, 409-416.	1.2	36
211	Geometric phase effect at N-fold electronic degeneracies in Jahn-Teller systems. International Journal of Quantum Chemistry, 2004, 99, 385-392.	1.0	5
212	Reactive and non-reactive vibrational quenching in O + OH collisions. Chemical Physics Letters, 2004, 396, 182-190.	1.2	40
213	Dynamics study of ClO + O2 collisions and their role in the chemistry of stratospheric ozone. Physical Chemistry Chemical Physics, 2004, 6, 2179-2184.	1.3	5
214	Dynamics Study of the N(4S) + O2 Reaction and Its Reverse. Journal of Physical Chemistry A, 2004, 108, 3556-3564.	1.1	36
215	Calculation of the rate constant for state-selected recombination of H+O2(v) as a function of temperature and pressure. Journal of Chemical Physics, 2004, 120, 10483-10500.	1.2	16
216	Dynamics Study of the O + HO2 Reaction Using Two DMBE Potential Energy Surfaces: The Role of Vibrational Excitation. Journal of Physical Chemistry A, 2004, 108, 8721-8730.	1.1	27

#	ARTICLE	IF	CITATIONS
217	Accurate double many-body expansion potential energy surface for triplet H ₃ ⁺ . II. The upper adiabatic sheet (2A ⁺). Journal of Chemical Physics, 2004, 120, 253-259.	1.2	27
218	Are Vibrationally Excited Molecules a Clue for the "O ₃ Deficit Problem" and "HOx Dilemma" in the Middle Atmosphere?. Journal of Physical Chemistry A, 2004, 108, 758-769.	1.1	39
219	Cone states of tri-hydrogen isotopomers and criterion for the geometric phase effect. Chemical Physics Letters, 2003, 367, 625-632.	1.2	19
220	Ro-vibrational states of triplet H ₃ ⁺ (a ³ Σ ⁺ _u): The lowest 19 bands. Journal of Molecular Spectroscopy, 2003, 221, 163-173.	0.4	10
221	Forbidden transitions in benzene. Computational and Theoretical Chemistry, 2003, 621, 99-105.	1.5	19
222	Nascent versus "Steady-State" Rovibrational Distributions in the Products of the O(3P) + O ₃ (X ¹ A ₁) Reaction. Journal of Physical Chemistry A, 2003, 107, 10926-10932.	1.1	2
223	Accurate Single-Valued Double Many-Body Expansion Potential Energy Surface for Ground-State HN ₂ . Journal of Physical Chemistry A, 2003, 107, 7923-7930.	1.1	38
224	Steady-State Distributions of O ₂ and OH in the High Atmosphere and Implications in the Ozone Chemistry. Journal of Physical Chemistry A, 2003, 107, 3769-3777.	1.1	19
225	Dynamics Study of the Reaction S + O ₂ → SO + O and Its Reverse on a Single-Valued Double Many-Body Expansion Potential Energy Surface for Ground-State SO ₂ . Journal of Physical Chemistry A, 2003, 107, 5369-5374.	1.1	13
226	A realistic multi-sheeted potential energy surface for NO ₂ (2A ⁺) from the double many-body expansion method and a novel multiple energy-switching scheme. Journal of Chemical Physics, 2003, 119, 2596-2613.	1.2	46
227	Accurate double many-body expansion potential energy surface for triplet H ₃ ⁺ . I. The lowest adiabatic sheet (a ³ Σ ⁺ _u). Journal of Chemical Physics, 2003, 118, 2637.	1.2	24
228	Permutational Symmetry and the Role of Nuclear Spin in the Vibrational Spectra of Molecules in Doubly Degenerate Electronic States: The Trimers of 2 S Atoms. Advances in Chemical Physics, 2003, , 659-741.	0.3	3
229	On the Geometric Phase Effect in Jahn-Teller Systems. , 2003, , 707-766.		0
230	Li + Li ₂ Dissociation Reaction Using the Self-Consistent Potential and Trajectory Surface Hopping Methods. Journal of Physical Chemistry A, 2002, 106, 3673-3680.	1.1	1
231	Single-Valued Double Many-Body Expansion Potential Energy Surface of Ground-State SO ₂ . Journal of Physical Chemistry A, 2002, 106, 556-562.	1.1	27
232	Dynamics Study of the OH + O ₂ Branching Atmospheric Reaction. 4. Influence of Vibrational Relaxation in Collisions Involving Highly Excited Species. Journal of Physical Chemistry A, 2002, 106, 5314-5322.	1.1	17
233	A Direct Evaluation of the Partition Function and Thermodynamic Data for Water at High Temperatures. Journal of Physical Chemistry A, 2002, 106, 6193-6200.	1.1	10
234	Six-Dimensional Energy-Switching Potential Energy Surface for HeHCN. Journal of Physical Chemistry A, 2002, 106, 9338-9344.	1.1	4

#	ARTICLE	IF	CITATIONS
235	DYNAMICS OF O + O ₃ REACTION ON A NEW POTENTIAL ENERGY SURFACE FOR GROUND-TRIPLET TETRAOXYGEN: SPECTATOR BOND MECHANISM REVISITED. <i>Journal of Theoretical and Computational Chemistry</i> , 2002, 01, 31-43.	1.8	11
236	Unimolecular reaction dynamics of HSO. Analysis of the influence of different barrier samplings on the product energy distributions. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 279-287.	1.3	19
237	Dynamics of OH + O ₂ vibrational relaxation processes. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 4959-4969.	1.3	17
238	Dynamics Study of the O ₂ + HO ₂ Atmospheric Reaction with Both Reactants Highly Vibrationally Excited. <i>Journal of Physical Chemistry A</i> , 2002, 106, 11911-11916.	1.1	6
239	A VTST Study of the H + O ₃ and O + HO ₂ Reactions Using a Six-dimensional DMBE Potential Energy Surface for Ground State HO ₃ . <i>Journal of Physical Chemistry A</i> , 2002, 106, 4077-4083.	1.1	23
240	On the "Ozone Deficit Problem": What Are Ox and HOx Catalytic Cycles for Ozone Depletion Hiding?. <i>ChemPhysChem</i> , 2002, 3, 433.	1.0	32
241	A realistic double many-body expansion potential energy surface for from a multiproperty fit to accurate ab initio energies and vibrational levels. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2002, 58, 629-647.	2.0	34
242	Existence of strictly diabatic basis sets for the two-state problem. <i>International Journal of Quantum Chemistry</i> , 2002, 89, 255-259.	1.0	37
243	On triplet tetraoxygen: ab initio study along minimum energy path and global modelling. <i>Chemical Physics Letters</i> , 2002, 356, 585-594.	1.2	17
244	Dynamics of the OH(v = 1,2,4) + O ₃ atmospheric reaction. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 1439-1445.	1.3	22
245	Dynamics Study of the O ₂ (v) + HO ₂ Atmospheric Reaction. <i>Journal of Physical Chemistry A</i> , 2001, 105, 10347-10355.	1.1	14
246	Vibrational partition functions for atom-atom and atom-atom van der Waals systems. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 5000-5005.	1.3	7
247	Single-Valued DMBE Potential Energy Surface for HSO: A Distributed n-Body Polynomial Approach. <i>Journal of Physical Chemistry A</i> , 2001, 105, 5923-5932.	1.1	64
248	On the Rovibrational Partition Function of Molecular Hydrogen at High Temperatures. <i>Journal of Physical Chemistry A</i> , 2001, 105, 9518-9521.	1.1	22
249	Dynamics Study of the OH + O ₂ Branching Atmospheric Reaction. 3. Dissociation in Collisions of Vibrationally Excited Reactants. <i>Journal of Physical Chemistry A</i> , 2001, 105, 7435-7440.	1.1	10
250	Vibrational Calculations for the HD ₂ First-Excited Electronic State Using a Coordinate-Transformation Technique. <i>Journal of Physical Chemistry A</i> , 2001, 105, 2246-2250.	1.1	8
251	Calculation of the Rovibrational Partition Function Using Classical Methods with Quantum Corrections. <i>Journal of Physical Chemistry A</i> , 2001, 105, 5272-5279.	1.1	14
252	Dynamics Study of the OH + O ₂ Branching Atmospheric Reaction. 2. Influence of Reactants Internal Energy in HO ₂ and O ₃ Formation. <i>Journal of Physical Chemistry A</i> , 2001, 105, 4395-4402.	1.1	20

#	ARTICLE	IF	CITATIONS
253	Nuclear dynamics in the vicinity of a crossing seam: Vibrational spectrum of HD2 revisited. International Journal of Quantum Chemistry, 2001, 83, 279-285.	1.0	3
254	Potential Energy Curves for X ¹ Σ ⁺ and A ¹ Σ ⁺ States of CO: The A ¹ (v=1-23)→X ¹ Σ ⁺ (v=0, 1) Transitions. Journal of Molecular Spectroscopy, 2001, 209, 24-29.	0.4	20
255	Reply to the "Comment on "On the high pressure rate constants for the H/Mu + O2 addition reactions" by L. B. Harding, J. Troe and V. G. Ushakov, Phys. Chem. Chem. Phys., 2001, 3, 2630. Physical Chemistry Chemical Physics, 2001, 3, 2632-2633.	1.3	15
256	On the high pressure rate constants for the H/Mu + O2 addition reactions. Physical Chemistry Chemical Physics, 2001, 3, 505-507.	1.3	28
257	Ab initio theoretical calculation and potential energy surface for ground-state HO3. Chemical Physics Letters, 2001, 334, 173-178.	1.2	63
258	The OH(v=2)+O2(v=3) reaction: a new source of stratospheric ozone?. Chemical Physics Letters, 2001, 339, 1-8.	1.2	12
259	OH(v)+O3: Does chemical reaction dominate over non-reactive quenching?. Chemical Physics Letters, 2001, 340, 62-70.	1.2	45
260	Bound Ro-Vibronic States of TripletH3+. Physical Review Letters, 2001, 86, 1183-1186.	2.9	42
261	Geometric phase effect in isotopomers of X3 systems: Use of a split basis technique for the cone states of HD2. International Journal of Quantum Chemistry, 2000, 80, 454-460.	1.0	6
262	Test studies on the potential energy surface and rate constant for the OH+O3 atmospheric reaction. Chemical Physics Letters, 2000, 331, 474-482.	1.2	38
263	On the behavior of single-surface nuclear wavefunctions in the vicinity of the conical intersection for an X3 system. Chemical Physics Letters, 2000, 316, 248-256.	1.2	22
264	Singularities in the Hamiltonian at electronic degeneracies. Chemical Physics, 2000, 259, 173-179.	0.9	7
265	On the interaction of two conical intersections: the H6 system. Chemical Physics Letters, 2000, 331, 285-289.	1.2	0
266	Is there a barrier for the C2v insertion reaction in O(1D)+H2? A test dynamics study based on two-valued energy-switching potential energy surfaces. Chemical Physics Letters, 2000, 331, 331-338.	1.2	8
267	Basis-set extrapolation of the correlation energy. Journal of Chemical Physics, 2000, 113, 8880-8887.	1.2	151
268	On phase factors and geometric phases in isotopes of H3: A line integral study. Journal of Chemical Physics, 2000, 112, 2746-2751.	1.2	50
269	Nuclear dynamics in the vicinity of the crossing seam: Theory and application to vibrational spectrum of H3. Journal of Chemical Physics, 2000, 112, 2121-2127.	1.2	46
270	Evaluation of vibrational partition functions for polyatomic systems: quantum versus classical methods for H2O and Ar·CN. Physical Chemistry Chemical Physics, 2000, 2, 4121-4129.	1.3	14

#	ARTICLE	IF	CITATIONS
271	Coupled <i>ab initio</i> potential energy surfaces for the two lowest ² Σ ⁺ electronic states of the C ₂ H molecule. <i>Molecular Physics</i> , 2000, 98, 1925-1938.	0.8	8
272	On the variation of the electric quadrupole moment with internuclear distance and the atom-diatom long-range electrostatic interaction energy. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 435-439.	1.3	18
273	First principles calculation of the potential energy surface for the lowest-quartet state of H ₃ and modelling by the double many-body expansion method. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 2471-2480.	1.3	1
274	Isotope effect on unimolecular dissociation of MuO ₂ : a classical trajectory study. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 3583-3589.	1.3	6
275	Four-atom bimolecular reactions with relevance in environmental chemistry: Theoretical work. <i>International Reviews in Physical Chemistry</i> , 2000, 19, 199-245.	0.9	82
276	MRCI Calculation, Scaling of the External Correlation, and Modeling of Potential Energy Curves for HCl and OCl. <i>Journal of Physical Chemistry A</i> , 2000, 104, 6241-6246.	1.1	9
277	Multivalued Potential Energy Surfaces for Dynamics Studies. <i>Lecture Notes in Quantum Chemistry II</i> , 2000, , 33-56.	0.3	25
278	Topological effects due to conical intersections: A model study of two interacting conical intersections. <i>Journal of Chemical Physics</i> , 1999, 111, 9493-9497.	1.2	8
279	Semiclassical theory of multidimensional tunneling and the hopping method. <i>Journal of Chemical Physics</i> , 1999, 111, 8302-8312.	1.2	10
280	Vibrational spectrum of ground state Li ₃ and statistical analysis of the energy levels. <i>Molecular Physics</i> , 1999, 96, 1193-1206.	0.8	15
281	Dimensionality effects on transition state resonances for H+DH and D+HD reactive collisions. <i>Computational and Theoretical Chemistry</i> , 1999, 493, 81-88.	1.5	1
282	Vibrational spectrum of Li ₃ first-excited electronic doublet state: Geometric-phase effects and statistical analysis. <i>International Journal of Quantum Chemistry</i> , 1999, 75, 89-109.	1.0	17
283	Adiabatic-diabatic transformations for molecular systems: a model study of two interacting conical intersections. <i>Molecular Physics</i> , 1999, 97, 1185-1191.	0.8	5
284	Comparative trajectory surface hopping study for the Li+Li ₂ (X ¹ Σ ⁺ g ⁺), Na+Li ₂ (X ¹ Σ ⁺ g ⁺) and Li+Na ₂ (X ¹ Σ ⁺ g ⁺) dissociation reactions. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 2657-2665.	1.3	1
285	Classical canonical transformation theory as a tool to describe multidimensional tunnelling in reactive scattering. Hopping method revisited and collinear H+H ₂ exchange reaction near the classical threshold. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 1071-1079.	1.3	5
286	Monte Carlo Simulation Approach to Internal Partition Functions for van der Waals Molecules. <i>Journal of Physical Chemistry A</i> , 1999, 103, 8303-8308.	1.1	11
287	Dynamics Study of the HO(v̂=0) + O ₂ (v̂=0) Branching Atmospheric Reaction. 1. Formation of Hydroperoxyl Radical. <i>Journal of Physical Chemistry A</i> , 1999, 103, 4815-4822.	1.1	16
288	On the Rate Constant for the Association Reaction H + CN + Ar → HCN + Ar. <i>Journal of Physical Chemistry A</i> , 1999, 103, 6366-6372.	1.1	7

#	ARTICLE	IF	CITATIONS
289	Mode Specificity Study in Unimolecular Dissociation of Nonrotating H ₂ O, DHO, and MuHO Molecules. <i>Journal of Physical Chemistry A</i> , 1999, 103, 10907-10914.	1.1	2
290	Approximate Quantum Mechanical Cross Sections and Rate Constants for the H + O ₃ Atmospheric Reaction Using Novel Elastic Optimum Angle Adiabatic Approaches. <i>Journal of Physical Chemistry A</i> , 1999, 103, 1967-1971.	1.1	15
291	A three-dimensional quantum mechanical study of the O+HO ₂ atmospheric reaction: infinite-order sudden approximation and novel adiabatic approaches vs. quasiclassical trajectories. <i>Chemical Physics Letters</i> , 1998, 295, 113-121.	1.2	17
292	Energy switching potential energy surfaces and spectra of the van der Waals modes for the ArHCN molecule. <i>Chemical Physics Letters</i> , 1998, 297, 458-466.	1.2	12
293	Quasi-ab initio dynamics: a test trajectory study of the H+H ₂ reaction using energies and gradients based on scaling of the external correlation. <i>Chemical Physics Letters</i> , 1998, 293, 261-269.	1.2	8
294	Ab InitioMRCI Calculation and Modeling of theA ₁ Π ⁻ Potential Energy Curve of CO. <i>Journal of Molecular Spectroscopy</i> , 1998, 192, 86-90.	0.4	9
295	Quantum Dynamical Rate Constant for the H + O ₃ Reaction Using a Six-Dimensional Double Many-Body Expansion Potential Energy Surface Revisited. <i>Journal of Physical Chemistry A</i> , 1998, 102, 8909-8912.	1.1	9
296	Dynamics Study of the Reaction Ar + HCN → Ar + H + CN. <i>Journal of Physical Chemistry A</i> , 1998, 102, 6266-6273.	1.1	19
297	Trajectory Surface Hopping Study of the Li + Li ₂ (X ¹ Σ ⁺) Dissociation Reaction. <i>Journal of Physical Chemistry A</i> , 1998, 102, 6057-6062.	1.1	28
298	Quasiclassical Trajectory Study of the Environmental Reaction O + HO ₂ → OH + O ₂ . <i>Journal of Physical Chemistry A</i> , 1998, 102, 6935-6941.	1.1	26
299	Energy switching approach to potential surfaces. III. Three-valued function for the water molecule. <i>Journal of Chemical Physics</i> , 1998, 108, 7623-7630.	1.2	32
300	Double many-body expansion potential energy surface for ground-state HO ₃ . <i>Molecular Physics</i> , 1997, 91, 301-318.	0.8	37
301	Dynamics of H(D)+O ₃ reactions on a double many-body expansion potential-energy surface for ground state HO ₃ . <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 2651-2656.	1.7	48
302	Geometric phase effects on transition-state resonances and bound vibrational states of H ₃ via a time-dependent wavepacket method. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 819-824.	1.7	42
303	Double many-body expansion potential energy surface for ground-state HCN based on realistic long range forces and accurateab initio calculations. <i>Journal of Chemical Physics</i> , 1997, 106, 9647-9658.	1.2	55
304	Quantum Dynamical Rate Constant for the H + O ₃ Reaction Using a Six-Dimensional Double Many-Body Expansion Potential Energy Surface. <i>Journal of Physical Chemistry A</i> , 1997, 101, 8817-8821.	1.1	21
305	Classical Trajectory Study of Mode Specificity and Rotational Effects in Unimolecular Dissociation of HO ₂ . <i>Journal of Physical Chemistry A</i> , 1997, 101, 5168-5173.	1.1	15
306	Conical intersections between the two lowest 1A ⁺ potential energy surfaces of HCN, and the role of three-body effects. <i>Journal of Chemical Physics</i> , 1997, 107, 10014-10028.	1.2	5

#	ARTICLE	IF	CITATIONS
307	Energy switching approach to potential surfaces. II. Two-valued function for the water molecule. Journal of Chemical Physics, 1997, 107, 867-878.	1.2	49
308	Toward a Single-Valued DMBE Potential Energy Surface for CHNO(3A). 1. Diatomic Fragments. Journal of Physical Chemistry A, 1997, 101, 4828-4834.	1.1	2
309	On the $O_2(\tilde{1}^2\sigma_g^2) + O_2(\tilde{1}^2\sigma_g^2)$ atmospheric reaction: a quasiclassical trajectory study. Chemical Physics, 1997, 215, 167-182.	0.9	41
310	Cross sections and rate constants for the $O(1D) + H_2$ reaction using a single-valued energy-switching potential energy surface. Chemical Physics Letters, 1997, 278, 325-332.	1.2	35
311	Dynamics Study of the $H + ArO_2$ Multichannel Reaction. The Journal of Physical Chemistry, 1996, 100, 17513-17522.	2.9	20
312	Energy switching approach to potential surfaces: An accurate single-valued function for the water molecule. Journal of Chemical Physics, 1996, 105, 3524-3531.	1.2	111
313	Dynamics of the $Li + Li_2$ Reaction: Coexistence of Statistical and Direct Attributes. The Journal of Physical Chemistry, 1996, 100, 7480-7487.	2.9	8
314	On the chaperon mechanism for association rate constants: the formation of HO_2 and O_3 . Chemical Physics Letters, 1996, 249, 264-271.	1.2	53
315	Theoretical 3D study of transition state resonances for the $H + H_2$ reaction using two coupled diabatic potential energy surfaces. Chemical Physics Letters, 1996, 259, 336-341.	1.2	32
316	Incorporation of tunneling effects in classical trajectories via a method of canonical transformations. Chemical Physics Letters, 1996, 259, 605-610.	1.2	4
317	Spectral quantization of transition state resonances in collinear $Mu + H_2$ and $Mu + D_2$ collisions. Chemical Physics, 1996, 209, 31-40.	0.9	6
318	Three-Dimensional Time-Dependent Wavepacket Calculation of the Transition State Resonances for MuH_2 and MuD_2 : Resonance Energies and Widths. The Journal of Physical Chemistry, 1996, 100, 14598-14601.	2.9	5
319	Adjusted double many-body expansion potential energy surface for H_2O based on rigorous vibrational calculations. Chemical Physics Letters, 1995, 233, 405-410.	1.2	19
320	$J = 0$ reactivity and cross-section in the $H + O_2$ reaction: is there a pronounced maximum as a function of energy?. Chemical Physics Letters, 1995, 235, 111-118.	1.2	24
321	Internuclear dependence of static dipole polarizability in diatomic molecules. Chemical Physics Letters, 1995, 245, 66-74.	1.2	21
322	Calculation of the asymptotic interaction and modelling of the potential energy curves of OH and OH^+ . Chemical Physics, 1995, 194, 91-100.	0.9	35
323	Three-dimensional quantum mechanical rate constants for the reaction $O + O_3 \rightarrow 2O_2$, employing a six-dimensional potential energy surface. Journal of Chemical Physics, 1995, 102, 3474-3476.	1.2	36
324	Quasiclassical trajectory study of the $Li + Cs_2$ reaction. Molecular Physics, 1995, 84, 957-969.	0.8	5

#	ARTICLE	IF	CITATIONS
325	Towards a double many-body expansion method for multivalued potential energy surfaces. <i>Molecular Physics</i> , 1995, 85, 497-526.	0.8	63
326	Potential Energy Surfaces for the Low-Lying 2A'' States of HO ₂ via a Multivalued Double Many-Body Expansion: Modeling Basic Attributes. <i>The Journal of Physical Chemistry</i> , 1995, 99, 15846-15857.	2.9	22
327	Extrapolation method for cross-section from quantum mechanical $J=0$ reactivity: H + O ₂ . <i>Molecular Physics</i> , 1995, 85, 1159-1164.	0.8	23
328	Quantum mechanical valence study of a bond-breaking-bond-forming process in triatomic systems. <i>International Journal of Quantum Chemistry</i> , 1994, 52, 1153-1176.	1.0	100
329	A novel non-active model to account for the leak of zero-point energy in trajectory calculations. Application to H + O ₂ reaction near threshold. <i>Chemical Physics Letters</i> , 1994, 225, 18-27.	1.2	113
330	Analytical potential energy surfaces for alkali dihalide molecules based on the diatomics-in-molecules formalism. Application to LiF ₂ . <i>Chemical Physics Letters</i> , 1994, 227, 133-142.	1.2	1
331	A three-dimensional quantum mechanical study of the reaction O + O ₃ \rightarrow 2O ₂ employing a six-dimensional potential energy surface. <i>Chemical Physics Letters</i> , 1994, 231, 253-256.	1.2	20
332	Method for quasiclassical trajectory calculations on potential energy surfaces defined from gradients and Hessians, and model to constrain the energy in vibrational modes. <i>Journal of Chemical Physics</i> , 1994, 100, 1908-1920.	1.2	66
333	Dynamics calculations and isotopic effect in O + OH(D) \rightarrow O ₂ + H(D) at low energies. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994, 90, 2189.	1.7	9
334	Virial theorem decomposition as a tool for comparing and improving potential-energy surfaces: ground-state Li ₃ . <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994, 90, 1381.	1.7	13
335	Virial theorem constraints on n-body terms of potential energy surfaces. <i>Chemical Physics Letters</i> , 1993, 205, 253-259.	1.2	11
336	Virial theorem decomposition of potential-energy surfaces. Analysis of the double many-body expansion ground-state surface of Li ₃ . <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 3885.	1.7	2
337	Double many-body expansion of the two lowest potential-energy surfaces for Li ₃ and dynamics of the Li + Li ₂ (v) reaction. Initial orientation and vibrational excitation effects. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 1511.	1.7	22
338	Excitation function for H+O ₂ reaction: A study of zero-point energy effects and rotational distributions in trajectory calculations. <i>Journal of Chemical Physics</i> , 1993, 99, 1076-1085.	1.2	120
339	Exponentiating trajectories on a realistic potential energy surface for sodium trimer. <i>The Journal of Physical Chemistry</i> , 1992, 96, 5704-5709.	2.9	11
340	A detailed state-to-state low-energy dynamics study of the reaction O(3P)+OH(2 Σ^+) \rightarrow O ₂ (X ¹ Σ^+)+H(2S) using a quasiclassical trajectory internal energy quantum mechanical threshold method. <i>Journal of Chemical Physics</i> , 1992, 97, 4050-4065.	1.2	52
341	Potential model for diatomic molecules including the united-atom limit and its use in a multiproperty fit for argon. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992, 88, 941.	1.7	122
342	Quasiclassical trajectory calculations of the thermal rate coefficients for the reactions H(D)+O ₂ \rightarrow OH(D)+O and O+OH(D) \rightarrow O ₂ +H(D) as a function of temperature. <i>Journal of Chemical Physics</i> , 1992, 96, 5137-5150.	1.2	125

#	ARTICLE	IF	CITATIONS
343	A new formulation of three-body dynamical correlation energy for explicit potential functions. <i>Chemical Physics Letters</i> , 1992, 194, 333-340.	1.2	61
344	Use of scaled external correlation, a double many-body expansion, and variational transition state theory to calibrate a potential energy surface for FH ₂ . <i>Journal of Chemical Physics</i> , 1991, 94, 7136-7149.	1.2	89
345	Double Many-Body Expansion Potential Energy Surface for O ₄ (3A), Dynamics of the O(3P) + O ₃ (1A ₁) Reaction, and Second Virial Coefficients of Molecular Oxygen. , 1991, , 55-78.		22
346	Quantum and semiclassical analysis of spin-change cross sections for the alkali diatomic molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1990, 23, 3113-3122.	0.6	4
347	Thermophysical Properties of Alkali Metal Vapours, Part I " Theoretical Calculation of the Properties of Monatomic Systems. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1990, 94, 53-59.	0.9	30
348	Atom-molecule dispersion-energy coefficients and their dependence on the intramolecular coordinate: A-H ₂ systems. <i>Molecular Physics</i> , 1990, 70, 623-644.	0.8	30
349	Curve fitting to a continuous function: A useful tool in theoretical chemistry. <i>Journal of Chemical Education</i> , 1990, 67, 28.	1.1	6
350	Recalibration of a single-valued double many-body expansion potential energy surface for ground-state hydroperoxy and dynamics calculations for the oxygen atom + hydroxyl .fwdarw. oxygen + hydrogen atom reaction. <i>The Journal of Physical Chemistry</i> , 1990, 94, 8073-8080.	2.9	244
351	Reaction rates of H(H ₂), D(H ₂), and H(D ₂) van der Waals molecules and the threshold behavior of the bimolecular gas-phase rate coefficient. <i>Journal of Chemical Physics</i> , 1989, 91, 3492-3503.	1.2	59
352	A semiempirical method for correcting configuration interaction potential energy surfaces. <i>Journal of Chemical Physics</i> , 1989, 90, 4379-4391.	1.2	83
353	Accurate diatomic curves for Ne ₂ , Ar ₂ , Kr ₂ and Xe ₂ form the extended Hartree-Fock approximate correlation energy model. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1989, 85, 1851-1875.	1.1	19
354	Dynamics of the Li + Li ₂ ? Li ₂ + Li isoergic exchange reaction. A comparative study on two potential-energy surfaces. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1989, 85, 1.	1.1	10
355	The dependence of the C ₆ atom-diatom dispersion energy coefficient on the diatomic vibrational coordinate: A-H ₂ interactions. <i>Chemical Physics Letters</i> , 1988, 148, 149-157.	1.2	6
356	Double many-body expansion of molecular potential energy functions and the role of long-range forces in the rates of chemical reactions. <i>Computational and Theoretical Chemistry</i> , 1988, 166, 59-74.	1.5	39
357	A realistic HFACE potential function for Kr ₂ (X ¹ Σ ^g +) from spectroscopic and thermophysical data. <i>Computational and Theoretical Chemistry</i> , 1988, 166, 187-192.	1.5	2
358	Thermal rate coefficients for the 18O+16O ₂ →18O16O+16O reaction based on a single-valued DMBE potential energy surface for ground-state ozone. <i>Computational and Theoretical Chemistry</i> , 1988, 166, 335-338.	1.5	8
359	A realistic double many-body expansion (DMBE) potential energy surface for ground-state O ₃ from a multiproperty fit toab initio calculations, and to experimental spectroscopic, inelastic scattering, and kinetic isotope thermal rate data. <i>Molecular Physics</i> , 1988, 65, 843-860.	0.8	138
360	Quasiclassical trajectory calculations of the thermal rate coefficient for the oxygen atom + hydroxyl .fwdarw. oxygen + hydrogen atom reaction on realistic double many-body expansion potential energy surfaces for ground-state hydroperoxy. <i>The Journal of Physical Chemistry</i> , 1988, 92, 4552-4555.	2.9	51

#	ARTICLE	IF	CITATIONS
361	A realistic hydroperoxo($\sim X_2A''$) potential energy surface from the double many-body expansion method. <i>The Journal of Physical Chemistry</i> , 1988, 92, 3732-3742.	2.9	83
362	A double many-body expansion of the two lowest-energy potential surfaces and nonadiabatic coupling for H ₃ . <i>Journal of Chemical Physics</i> , 1987, 86, 6258-6269.	1.2	373
363	On the relation of dispersion to induction energies, and to their damping functions. <i>Molecular Physics</i> , 1987, 60, 527-539.	0.8	70
364	Are the reactions Li + Na ₂ and Na + K ₂ direct or indirect? A dynamics study of semiempirical valence-bond potential-energy surfaces. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1987, 83, 2247.	1.1	8
365	The rational fraction representation of diatomic potentials. <i>Theoretica Chimica Acta</i> , 1987, 71, 459-465.	0.9	8
366	The double many-body expansion of potential energy surfaces from interacting 2S atoms. <i>International Journal of Quantum Chemistry</i> , 1987, 32, 563-574.	1.0	20
367	A useful triangular plot of triatomic potential energy surfaces. <i>Chemical Physics Letters</i> , 1987, 138, 455-461.	1.2	89
368	Ab initio study of the He(1S)-Li ₂ ($X^1\Sigma_g^+$) interaction by the SCF and MP2 methods. <i>Journal of Computational Chemistry</i> , 1987, 8, 761-771.	1.5	3
369	Non-Bonding Atom-Diatom Potentials via A Double Many-Body Expansion Method. , 1987, , 357-371.		5
370	Hartree-Fock approximate correlation energy (HFACE) potential for diatomic interactions. Molecules and van der Waals molecules. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1986, 82, 593-608.	1.1	58
371	A general inter-relationship between transition-state bond extensions and the energy barrier to reaction. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1986, 82, 953.	1.1	54
372	Transition state bond extensions and activation energy in hydrogen atom transfer reactions. <i>Journal of the Chemical Society Chemical Communications</i> , 1986, , 163.	2.0	17
373	On the stability of a hydrogen-like atom: The particle in a spherical box revisited. <i>Journal of Chemical Education</i> , 1986, 63, 485.	1.1	3
374	A double many-body expansion of molecular potential energy functions. <i>Molecular Physics</i> , 1986, 57, 387-414.	0.8	57
375	The many-body expansion of multi-valued surfaces. <i>Molecular Physics</i> , 1986, 57, 415-420.	0.8	13
376	Semiempirical valence bond potential energy surfaces for the alkali trimers. <i>Molecular Physics</i> , 1986, 58, 285-297.	0.8	15
377	Semiclassical variational transition state calculations for the reactions of H and D with thermal and vibrationally excited H ₂ . <i>International Journal of Chemical Kinetics</i> , 1986, 18, 1065-1077.	1.0	47
378	On the third virial coefficient for the alkali metal vapours. <i>Chemical Physics Letters</i> , 1985, 113, 192-196.	1.2	3

#	ARTICLE	IF	CITATIONS
379	A general approach to the potential energy functions of small polyatomic systems: Molecules and van der Waals molecules. Computational and Theoretical Chemistry, 1985, 120, 401-424.	1.5	100
380	A double many-body expansion of molecular potential energy functions. Molecular Physics, 1984, 53, 1303-1325.	0.8	56
381	On the use of the rotational isomeric state approximation in studies of internal rotation. Canadian Journal of Chemistry, 1983, 61, 163-170.	0.6	4
382	Explicit three-body non-additive triple-dipole dispersion energy term including charge-overlap effects. Molecular Physics, 1983, 49, 817-828.	0.8	16
383	Semi-empirical valence bond potential energy surfaces for homonuclear alkali trimers. Molecular Physics, 1982, 47, 1241-1251.	0.8	29
384	A simple semi-empirical approach to the intermolecular potential of van der Waals systems. Molecular Physics, 1982, 45, 857-875.	0.8	67
385	Analytical potentials for triatomic molecules. Molecular Physics, 1982, 45, 1053-1066.	0.8	87
386	Diffusion coefficient of hydrogen atoms and molecules from accurate spherically averaged H-H ₂ interaction potentials. Molecular Physics, 1982, 45, 317-329.	0.8	3
387	Dipole moments and conformation energies for substituted ethanes. Canadian Journal of Chemistry, 1982, 60, 2049-2056.	0.6	1
388	An analytical expression for the minimum of the effective potential of a rotating-vibrating diatomic molecule. Chemical Physics Letters, 1982, 89, 368-370.	1.2	3
389	Dynamics of the 18O + 16O ₂ ($\hat{v}=0$) exchange reaction on a new potential energy surface for ground-state ozone. Chemical Physics Letters, 1982, 88, 1-6.	1.2	50
390	Quasiclassical trajectory calculations for H + H ₂ ($\hat{v}=0, 1$) on a potential energy surface from force field data. Chemical Physics, 1982, 69, 295-304.	0.9	10
391	On the isotropic and leading anisotropic terms of the H-H ₂ potential energy surface. Chemical Physics Letters, 1981, 77, 151-157.	1.2	16
392	Choosing points in potential energy surfaces for fitting polynomial functions: application of permutational symmetry. Chemical Physics Letters, 1981, 84, 440-445.	1.2	30
393	The use of vicinal H _i -H coupling constants in rotational isomerism studies, I. Journal of Magnetic Resonance, 1981, 43, 28-39.	0.5	1
394	Zeroth-order exchange energy as a criterion for optimized atomic basis sets in interatomic force calculations. Application to He ₂ . Chemical Physics Letters, 1980, 69, 222-224.	1.2	11
395	Hybrid potential function for bound diatomic molecules. Journal of the Chemical Society, Faraday Transactions 2, 1980, 76, 129.	1.1	23
396	Chercher le croisement. Chemical Physics Letters, 1979, 61, 431-434.	1.2	68

#	ARTICLE	IF	CITATIONS
397	A LEPS potential for H ₃ from force field data. <i>Journal of Chemical Physics</i> , 1979, 70, 3786-3795.	1.2	36
398	Analytical potentials for triatomic molecules from spectroscopic data. <i>Molecular Physics</i> , 1978, 35, 1325-1336.	0.8	32
399	Analytical potentials for triatomic molecules from spectroscopic data. <i>Molecular Physics</i> , 1977, 34, 947-962.	0.8	59
400	Potential for the ground state of ammonia. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1977, 73, 939.	1.1	13
401	A many-body expansion of polyatomic potential energy surfaces: application to H _n systems. <i>Faraday Discussions of the Chemical Society</i> , 1977, 62, 92.	2.2	96
402	The potential energy surface for the lowest quartet state of H ₃ . <i>Molecular Physics</i> , 1976, 31, 1129-1135.	0.8	13
403	Analytical potentials for triatomic molecules from spectroscopic data. <i>Molecular Physics</i> , 1976, 32, 1359-1372.	0.8	249
404	Perturbation calculations of rare-gas potentials near the van der Waals minimum. <i>Molecular Physics</i> , 1975, 30, 223-236.	0.8	44
405	The calculation of dynamic polarizabilities and long-range dispersion energy coefficients. <i>Chemical Physics Letters</i> , 1974, 26, 197-199.	1.2	8
406	On the calculation of the relativistic long-range coefficient W ₄ . <i>Chemical Physics Letters</i> , 1974, 27, 433-435.	1.2	0
407	The calculation of the octopole dynamic polarizability and of the dipole-octopole contribution to the dispersion energy. <i>Molecular Physics</i> , 1973, 26, 241-242.	0.8	6
408	The calculation of dynamic polarizabilities and of the dipole-dipole and dipole-quadrupole contributions to the dispersion energy. <i>Molecular Physics</i> , 1973, 25, 1185-1192.	0.8	15
409	CHAPTER 17. Putting Together the Pieces: A Global Description of Valence and Long-Range Forces via Combined Hyperbolic Inverse Power Representation of the Potential Energy Surface. <i>RSC Theoretical and Computational Chemistry Series</i> , 0, , 408-445.	0.7	6