## Gerrit C Groenenboom

List of Publications by Year in descending order

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164 papers 5,384 citations

38 h-index 65 g-index

174 all docs

174 docs citations

times ranked

174

3097 citing authors

#	Article	IF	CITATIONS
1	Predictions of the Properties of Water from First Principles. Science, 2007, 315, 1249-1252.	12.6	382
2	Near-Threshold Inelastic Collisions Using Molecular Beams with a Tunable Velocity. Science, 2006, 313, 1617-1620.	12.6	213
3	Water pair potential of near spectroscopic accuracy. I. Analysis of potential surface and virial coefficients. Journal of Chemical Physics, 2000, 113, 6687-6701.	3.0	164
4	Theoretical transition probabilities for the OH Meinel system. Journal of Chemical Physics, 2007, 126, 114314.	3.0	126
5	Combining the discrete variable representation with the Sâ€matrix Kohn method for quantum reactive scattering. Journal of Chemical Physics, 1993, 99, 9681-9696.	3.0	122
6	Imaging resonances in low-energy NO-He inelastic collisions. Science, 2015, 350, 787-790.	12.6	115
7	Quantum-State Resolved Bimolecular Collisions of Velocity-Controlled OH with NO Radicals. Science, 2012, 338, 1060-1063.	12.6	114
8	Water pair potential of near spectroscopic accuracy. II. Vibration–rotation–tunneling levels of the water dimer. Journal of Chemical Physics, 2000, 113, 6702-6715.	3.0	109
9	Update of the HITRAN collision-induced absorption section. Icarus, 2019, 328, 160-175.	2.5	105
10	New <i>ab initio</i> potential energy surface and the vibration-rotation-tunneling levels of (H2O)2 and (D2O)2. Journal of Chemical Physics, 2008, 128, 034312.	3.0	104
11	Water Pair and Three-Body Potential of Spectroscopic Quality fromAb InitioCalculations. Physical Review Letters, 2000, 84, 4072-4075.	7.8	102
12	State-resolved diffraction oscillations imaged for inelastic collisions of NO radicals with He, Ne and Ar. Nature Chemistry, 2014, 6, 216-221.	13.6	101
13	Vibrations, Tunneling, and Transition Dipole Moments in the Water Dimer. Journal of Physical Chemistry A, 2001, 105, 6212-6225.	2.5	100
14	Direct Measurement of the Radiative Lifetime of Vibrationally Excited OH Radicals. Physical Review Letters, 2005, 95, 013003.	7.8	93
15	The radiative lifetime of metastable CO (aî3, v=). Journal of Chemical Physics, 2007, 127, 221102.	3.0	93
16	Polarizable interaction potential for water from coupled cluster calculations. I. Analysis of dimer potential energy surface. Journal of Chemical Physics, 2008, 128, 094313.	3.0	91
17	Polarizable interaction potential for water from coupled cluster calculations. II. Applications to dimer spectra, virial coefficients, and simulations of liquid water. Journal of Chemical Physics, 2008, 128, 094314.	3.0	85
18	Photoinduced Two-Body Loss of Ultracold Molecules. Physical Review Letters, 2019, 123, 123402.	7.8	84

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19	New applications of the genetic algorithm for the interpretation of high-resolution spectra. Canadian Journal of Chemistry, 2004, 82, 804-819.	1.1	81
20	The He–CaH([sup 2]Σ[sup +]) interaction. II. Collisions at cold and ultracold temperatures. Journal of Chemical Physics, 2003, 118, 7386.	3.0	75
21	Electronic Interaction Anisotropy between Atoms in Arbitrary Angular Momentum Statesâ€. Journal of Physical Chemistry A, 2004, 108, 8941-8948.	2.5	75
22	Interaction of NH(X룉^'3) with He: Potential energy surface, bound states, and collisional Zeeman relaxation. Journal of Chemical Physics, 2005, 122, 094307.	3.0	74
23	Imaging the onset of the resonance regime in low-energy NO-He collisions. Science, 2020, 368, 626-630.	12.6	68
24	Spin-flipping transitions in $2\hat{l} \pm molecules$ induced by collisions with structureless atoms. Physical Review A, 2003, 67, .	2.5	65
25	Interaction potential for water dimer from symmetry-adapted perturbation theory based on density functional description of monomers. Journal of Chemical Physics, 2006, 125, 044301.	3.0	61
26	Scattering resonances in bimolecular collisions between NO radicals and H2 challenge the theoretical gold standard. Nature Chemistry, 2018, 10, 435-440.	13.6	56
27	Size consistent multireference single and double excitation configuration interaction calculations. The multireference coupled electronâ€pair approximation. Journal of Chemical Physics, 1991, 94, 7212-7220.	3.0	55
28	Three-dimensional ab initio potential energy surface for He–O2. Journal of Chemical Physics, 2000, 113, 9562-9566.	3.0	52
29	Scattering resonances in slow NH3–He collisions. Journal of Chemical Physics, 2012, 136, 074301.  Quantum Reactive Scattering of Ultracold <mml:math< td=""><td>3.0</td><td>51</td></mml:math<>	3.0	51
30	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mi>NH</mml:mi> <mml:mo stretchy="false">(</mml:mo> <mml:mi>X</mml:mi> <mml:mtext> </mml:mtext> <mml:mmultiscripts><mml:< td=""><td>mi&gt;Σ<td>nl:mi&gt;<mml: 50</mml: </td></td></mml:<></mml:mmultiscripts>	mi>Σ <td>nl:mi&gt;<mml: 50</mml: </td>	nl:mi> <mml: 50</mml: 
31	Imaging quantum stereodynamics through Fraunhofer scattering of NO radicals with rare-gas atoms. Nature Chemistry, 2017, 9, 226-233.	13.6	50
32	Quasiclassical method for calculating the density of states of ultracold collision complexes. Physical Review A, 2019, 100, .	2.5	50
33	O(3PJ) Alignment from the Photodissociation of SO2at 193 nmâ€. Journal of Physical Chemistry A, 2004, 108, 7965-7976.	2.5	49
34	Time-Domain Measurement of Spontaneous Vibrational Decay of Magnetically Trapped NH. Physical Review Letters, 2008, 100, 083003.	7.8	48
35	Dynamic polarizabilities of rare-earth-metal atoms and dispersion coefficients for their interaction with helium atoms. Physical Review A, 2007, 75, .	2.5	43
36	State-to-state reaction probabilities for Hâ^' + H2, D2 collisions. Chemical Physics Letters, 1993, 209, 309-314.	2.6	42

#	Article	IF	Citations
37	Ab initio potential energy surfaces for NH(Σ3â^')–NH(Σ3â^') with analytical long range. Journal of Chemical Physics, 2009, 131, 224314.	3.0	42
38	Ab initio computed diabatic potential energy surfaces of OH–HCl. Journal of Chemical Physics, 2005, 122, 244325.	3.0	40
39	Cold and ultracold NH-NH collisions in magnetic fields. Physical Review A, 2011, 83, .	2.5	38
40	Scattering of Stark-decelerated OH radicals with rare-gas atoms. European Physical Journal D, 2011, 65, 189-198.	1.3	38
41	Photodissociation of O2 in the Herzberg continuum. II. Calculation of fragment polarization and angular distribution. Journal of Chemical Physics, 2002, 116, 1965-1975.	3.0	37
42	The He–CaH ([sup 2]Σ[sup +]) interaction. I. Three-dimensional ab initio potential energy surface. Journal of Chemical Physics, 2003, 118, 7380.	3.0	37
43	High-Resolution Imaging of Velocity-Controlled Molecular Collisions Using Counterpropagating Beams. Physical Review Letters, 2014, 113, 263202.	7.8	36
44	Dynamical calculations on the photoisomerization of small polyenes in a nonadiabatic formalism. Journal of Chemical Physics, 1987, 86, 4895-4909.	3.0	35
45	A quantum chemical study on the mechanism of cis-trans isomerization in retinal-like protonated Schiff bases. Journal of the American Chemical Society, 1988, 110, 1406-1415.	13.7	35
46	Steric asymmetry and lambda-doublet propensities in state-to-state rotationally inelastic scattering of NO( $2\hat{1}/2$ ) with He. Journal of Chemical Physics, 2004, 121, 11691-11701.	3.0	34
47	Six-dimensional potential energy surface for NaK–NaK collisions: Gaussian process representation with correct asymptotic form. Journal of Chemical Physics, 2019, 150, 064106.	3.0	34
48	Photodissociation of singlet oxygen in the UV region. Physical Chemistry Chemical Physics, 2014, 16, 3305.	2.8	33
49	Observation of correlated excitations in bimolecular collisions. Nature Chemistry, 2018, 10, 469-473.	13.6	32
50	Photodissociation of O2 in the Herzberg continuum. I.Ab initiocalculation of potential energy curves and properties. Journal of Chemical Physics, 2002, 116, 1954-1964.	3.0	31
51	Ab initio calculation of the NH( $\hat{l}$ £ $\hat{a}$ 2) $\hat{a}$ 2)interaction potentials in the quintet, triplet, and singlet states. Journal of Chemical Physics, 2005, 123, 184302.	3.0	31
52	Line strengths of rovibrational and rotational transitions within the ${m X}^3Sigma m ^-}$X3Σa^' ground state of NH. Journal of Chemical Physics, 2014, 141, 054310.$	3.0	31
53	O2â^'O2 and O2â^'N2 collision-induced absorption mechanisms unravelled. Nature Chemistry, 2018, 10, 549-554.	13.6	29
54	Solving the discretized timeâ€independent Schrödinger equation with the Lanczos procedure. Journal of Chemical Physics, 1990, 92, 4374-4379.	3.0	28

#	Article	IF	CITATIONS
55	Spectrum and vibrational predissociation of the HF dimer. I. Bound and quasibound states. Journal of Chemical Physics, 2003, 119, 277-285.	3.0	28
56	Resolving rainbows with superimposed diffraction oscillations in NO + rare gas scattering: experiment and theory. New Journal of Physics, 2015, 17, 055019.	2.9	28
57	Three-Dimensional Ab Initio Potential Energy Surface for H–CO( <i>X̃</i> <sup>2</sup> <i>A</i> ′). Journal of Physical Chemistry A, 2013, 117, 7571-7579.	2.5	27
58	Photodissociation Imaging of Diatomic Sulfur (S <sub>2</sub> ). Journal of Physical Chemistry A, 2009, 113, 14995-15005.	2.5	26
59	Water dimer vibration–rotation tunnelling levels from vibrationally averaged monomer wavefunctions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 1262-1276.	2.3	26
60	Quantum mechanical calculation of the collision-induced absorption spectra of N2–N2 with anisotropic interactions. Journal of Chemical Physics, 2015, 142, 084306.	3.0	26
61	Quantifying the interplay between fine structure and geometry of an individual molecule on a surface. Physical Review B, 2021, 103, .	3.2	25
62	Bound states of the OH(Î2)–HCl complex on <i>ab initio</i> diabatic potentials. Journal of Chemical Physics, 2009, 131, 124307.	3.0	24
63	Resonances in rotationally inelastic scattering of OH( $<$ i> $>$ X $>$ 2Î) with helium and neon. Journal of Chemical Physics, 2012, 136, 144308.	3.0	24
64	On the eigenvalues of the s-state radial equation of a spiked harmonic oscillator. Journal of Physics A, 1992, 25, 3427-3433.	1.6	23
65	Photolysis of NO2 at multiple wavelengths in the spectral region 200–205Ânm. European Physical Journal D, 2006, 38, 151-162.	1.3	23
66	Dynamics of OH(2Î)–He collisions in combined electric and magnetic fields. Faraday Discussions, 2009, 142, 127.	3.2	23
67	Characterization of methanol as a magnetic field tracer in star-forming regions. Nature Astronomy, 2018, 2, 145-150.	10.1	23
68	Diabatic intermolecular potentials and bound states of open-shell atomâ€"molecule dimers: Application to the F([sup 2]P)â€"H[sub 2] complex. Journal of Chemical Physics, 2003, 118, 7340.	3.0	22
69	Vibrational predissociation in the HCl dimer. Journal of Chemical Physics, 2004, 120, 9487-9498.	3.0	22
70	The photodissociation dynamics of ozone at 193nm: An O(D21) angular momentum polarization study. Journal of Chemical Physics, 2006, 125, 133308.	3.0	22
71	Polarizabilities of Sc and Ti atoms and dispersion coefficients for their interaction with helium atoms. Physical Review A, 2005, 72, .	2.5	21
72	Photodissociation dynamics of the A Σ2+ state of SH and SD radicals. Journal of Chemical Physics, 2009, 130, 034307.	3.0	21

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73	Product pair correlation in CH <sub>3</sub> OH photodissociation at 157 nm: the OH + CH <sub>3</sub> channel. Physical Chemistry Chemical Physics, 2011, 13, 2350-2355.	2.8	21
74	Reassignment of the O2 spectrum just below dissociation threshold based on ab initio calculations. Journal of Chemical Physics, 2002, 117, 5240-5251.	3.0	20
75	Bound States of the Cl(2P)â^'HCl van der Waals Complex from Coupled ab Initio Potential Energy Surfaces. Journal of Physical Chemistry A, 2003, 107, 5110-5121.	2.5	20
76	Cold Collisions of OH( $\langle \sup \rangle 2 \langle   \sup \rangle \hat{I}$ ) Molecules with He Atoms in External Fields. Journal of Physical Chemistry A, 2009, 113, 14670-14680.	2.5	20
77	Cold and ultracold NH–NH collisions: The field-free case. Journal of Chemical Physics, 2011, 134, 124309.	3.0	20
78	State-to-state scattering of highly vibrationally excited NO at broadly tunable energies. Nature Chemistry, 2020, 12, 528-534.	13.6	20
79	Collision-induced absorption with exchange effects and anisotropic interactions: Theory and application to H2 $\hat{a}^{-1}$ H2. Journal of Chemical Physics, 2015, 142, 084305.	3.0	19
80	Discrete variational quantum reactive scattering method with optimal distorted waves. II. Application to the reaction H+O2â†' OH+O. Journal of Chemical Physics, 1998, 108, 5677-5682.	3.0	18
81	Singlet–triplet excitation spectrum of the CO–He complex. I. Potential surfaces and bound–bound CO(a 3Îâ†X 1Σ+) transitions. Journal of Chemical Physics, 2003, 119, 131-140.	3.0	18
82	Towards the complete experiment: measurement of S(1D2) polarization in correlation with single rotational states of CO(J) from the photodissociation of oriented OCS( $v2 = 1 \mid JIM = 111$ ). Physical Chemistry Chemical Physics, 2011, 13, 8549.	2.8	18
83	Time-dependent density-functional-theory calculation of high-order-harmonic generation of H <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:msub><mml:mrow></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:msub></mml:math> . Physical Review A, 2012, 85, .	2.5	18
84	QUANTUM CALCULATION OF INELASTIC CO COLLISIONS WITH H. II. PURE ROTATIONAL QUENCHING OF HIGH ROTATIONAL LEVELS. Astrophysical Journal, 2015, 811, 27.	4.5	18
85	Ab initiopotential-energy surface for the reaction Ca+HClâ†'CaCl+H. Journal of Chemical Physics, 2005, 122, 204307.	3.0	17
86	Contributions of inner-valence molecular orbitals and multiphoton resonances to high-order-harmonic generation of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:msub> <mml:mi mathvariant="normal"> N </mml:mi> <mml:mn> 2 </mml:mn> </mml:msub> </mml:math> : A time-dependent	2.5	17
87	density-functional-theory study. Physical Review A, 2016, 93, . Differential Cross Sections for State-to-State Collisions of NO( $\langle i \rangle v \langle j \rangle = 10$ ) in Near-Copropagating Beams. Journal of Physical Chemistry Letters, 2019, 10, 2422-2427.	4.6	17
88	Controlling the nature of a charged impurity in a bath of Feshbach dimers. Physical Review Research, 2020, 2, .	3.6	17
89	Photodissociation of vibrationally excited SH and SD radicals at 288 and 291nm: The S(D21) channel. Journal of Chemical Physics, 2007, 126, 094304.	3.0	16
90	Electronic anisotropy between open shell atoms in first and second order perturbation theory. Journal of Chemical Physics, 2007, 126, 204306.	3.0	16

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91	On the role of the magnetic dipolar interaction in cold and ultracold collisions: numerical and analytical results for NH(3 $\hat{1}$ £ $\hat{a}$ ?) + NH(3 $\hat{1}$ £ $\hat{a}$ ?). European Physical Journal D, 2011, 65, 177-187.	1.3	16
92	Hyperfine interactions and internal rotation in methanol. Journal of Chemical Physics, 2016, 145, 244301.	3.0	16
93	Communication: Multiple-property-based diabatization for open-shell van der Waals molecules. Journal of Chemical Physics, 2016, 144, 121101.	3.0	16
94	Imaging diffraction oscillations for inelastic collisions of NO radicals with He and D2. Journal of Chemical Physics, 2017, 147, 013918.	3.0	16
95	Competition between photodetachment and photodissociation in O2â°'. Journal of Chemical Physics, 2003, 119, 8864-8872.	3.0	15
96	Photodissociation of the OD radical at 226 and 243 nm. Journal of Chemical Physics, 2003, 119, 9341-9343.	3.0	15
97	Ab initiocalculation of (2+1) resonance enhanced multiphoton ionization spectra and lifetimes of the $(D,3)$ î£â°'2 states of OH and OD. Journal of Chemical Physics, 2005, 123, 074310.	3.0	15
98	Photodissociation of vibrationally excited OH/OD radicals. Molecular Physics, 2008, 106, 557-572.	1.7	15
99	Inelastic Scattering of CO with He: Polarization Dependent Differential State-to-State Cross Sections. Journal of Physical Chemistry A, 2015, 119, 12526-12537.	2.5	14
100	Potential energy and dipole moment surfaces of the triplet states of the O2(X3Σgâ^') â^' O2(X3Σgâ^',a1Î"g,b1Σg complex. Journal of Chemical Physics, 2017, 147, 084306.	(+) 3.0	14
101	On the energy dependence of the steric effect for atom–molecule reactive scattering. II. The reaction Ca(1D)+CH3F(JKM=111)→CaF(2Î)+CH3. Journal of Chemical Physics, 1994, 101, 7603-7617.	3.0	13
102	Semiclassical Calculations on the Energy Dependence of the Steric Effect for the Reactions Ca (1D) + CH3X (jkm= $111$ ) $\hat{a}^{\dagger}$ CaX + CH3with X = F, Cl, Br. The Journal of Physical Chemistry, 1996, 100, 16072-16081.	2.9	13
103	Spectrum and vibrational predissociation of the HF dimer. II. Photodissociation cross sections and product state distributions. Journal of Chemical Physics, 2003, 119, 286-292.	3.0	13
104	Spin-orbit relaxation of Cl(P1â-•22) and F(P1â-•22) in a gas of H2. Journal of Chemical Physics, 2007, 126, 184303.	3.0	13
105	(2+1)REMPI on molecular nitrogen through the 1Σg+ (II)-state. Chemical Physics Letters, 2007, 435, 242-246.	2.6	13
106	State-to-State Differential Cross Sections for Inelastic Collisions of NO Radicals with <i>para</i> -H <sub>2</sub> and <i>ortho</i> -D <sub>2</sub> . Journal of Physical Chemistry A, 2017, 121, 7446-7454.	2.5	13
107	Lossy quantum defect theory of ultracold molecular collisions. Physical Review A, 2021, 104, .	2.5	13
108	On the energy dependence of the steric effect in atom–molecule reactive scattering. I. A quasiclassical approach. Journal of Chemical Physics, 1994, 101, 7592-7602.	3.0	12

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109	Heî—,HF scattering cross sections from an ab initio SAPT potential: confrontation with experiment. Chemical Physics Letters, 1996, 263, 107-112.	2.6	12
110	Ab Initio Treatment of the Chemical Reaction Precursor Complex Cl(2P)â^'HF. 2. Bound States and Infrared Spectrumâ€. Journal of Physical Chemistry A, 2006, 110, 5280-5288.	2.5	12
111	Communication: Magnetic dipole transitions in the OH <i>A</i> 2Σ+ ↕ <i>X</i> 2Πsystem. Journal of Chemical Physics, 2012, 137, 101102.	3.0	12
112	QUANTUM CALCULATION OF INELASTIC CO COLLISIONS WITH H. III. RATE COEFFICIENTS FOR RO-VIBRATIONAL TRANSITIONS. Astrophysical Journal, 2015, 813, 96.	4.5	12
113	Entrance Channel Effects in the Reaction of Aligned Ca(1P) with HCl. Journal of Physical Chemistry A, 1997, 101, 7558-7566.	2.5	11
114	Quantum scattering calculations for ro-vibrational de-excitation of CO by hydrogen atoms. Journal of Chemical Physics, 2015, 142, 204303.	3.0	11
115	Correlated energy transfer in rotationally and spin–orbit inelastic collisions of NO(X <sup>2</sup> Îcsub>1/2, <i>j</i> = 1/2f) with O <sub>2</sub> (X <sup>3</sup> Σ <sub>g</sub> <sup>â^'</sup> ). Physical Chemistry Chemical Physics, 2018, 20. 12444-12453.	2.8	11
116	Paraâ€ortho hydrogen conversion: Solving a 90â€year old mystery. Natural Sciences, 2021, 1, e10002.	2.1	11
117	Glory scattering in deeply inelastic molecular collisions. Nature Chemistry, 2022, 14, 664-669.	13.6	11
118	Angular momentum polarisation in the O( $\langle \sup 1 \langle \sup D \rangle$ ) products of O $\langle \sup 2 \langle \sup P \rangle$ photolysis via the B state. Molecular Physics, 2010, 108, 1145-1157.	1.7	10
119	Producing translationally cold, ground-state CO molecules. Journal of Chemical Physics, 2011, 135, 114201.	3.0	10
120	Role of resonance-enhanced multiphoton excitation in high-harmonic generation of N2: A time-dependent density-functional-theory study. Physical Review A, 2013, 87, .	2.5	10
121	Direct Extraction of Alignment Moments from Inelastic Scattering Images. Journal of Physical Chemistry A, 2015, 119, 5925-5931.	2.5	10
122	Probing Scattering Resonances in (Ultra)Cold Inelastic NO–He Collisions. Journal of Physical Chemistry A, 2016, 120, 4770-4777.	2.5	10
123	Rotational–vibrational resonance states. Physical Chemistry Chemical Physics, 2020, 22, 15081-15104.	2.8	10
124	Singlet–triplet excitation spectrum of the CO–He complex. II. Photodissociation and bound-free CO(a 3Îâ†X 1Σ+) transitions. Journal of Chemical Physics, 2003, 119, 141-148.	3.0	9
125	Bound States of the Cl(2P)â^'HCl van der Waals Complex from Coupled ab Initio Potential Energy Surfaces. Journal of Physical Chemistry A, 2004, 108, 9319-9322.	2.5	9
126	Vibrational state-dependent predissociation dynamics of CIO (A2Î3/2): Insight from correlated fine structure branching ratios. Physical Chemistry Chemical Physics, 2006, 8, 2964-2971.	2.8	9

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127	Cold magnetically trapped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msup><mml:mrow></mml:mrow><mml:mn>2</mml:mn></mml:msup><mml:msub>D<mml:mi>g</mml:mi></mml:msub><td>m<b>ni:</b>mrow</td><td>&gt;</td></mml:mrow></mml:math>	m <b>ni:</b> mrow	>
128	A renormalized potential-following propagation algorithm for solving the coupled-channels equations. Journal of Chemical Physics, 2014, 141, 064102.	3.0	9
129	Line-shape theory of the X3Σgâ^â†'a1Î"g,b1Σg+ transitions in O2â€"O2 collision-induced absorption. Journal of Chemical Physics, 2017, 147, 084307.	3.0	9
130	Theoretical study of the He–HF+ complex. II. Rovibronic states from coupled diabatic potential energy surfaces. Journal of Chemical Physics, 2004, 120, 103-116.	3.0	8
131	Experimental and theoretical investigation of the A3ΖX3ΣⰒtransition of NH/D–Ne. Physical Chemistry Chemical Physics, 2005, 7, 846-854.	2.8	8
132	Correlated fine structure branching ratios arising from state-selected predissociation of ClO (A2Î3/2). Physical Chemistry Chemical Physics, 2009, 11, 4770.	2.8	8
133	Control and imaging of O(1D2) precession. Nature Chemistry, 2011, 3, 28-33.	13.6	8
134	A theoretical and experimental study of pressure broadening of the oxygen A-band by helium. Journal of Chemical Physics, 2014, 140, 204314.	3.0	8
135	Diabatic states, nonadiabatic coupling, and the counterpoise procedure for weakly interacting open-shell molecules. Journal of Chemical Physics, 2018, 148, .	3.0	8
136	Quantum spin systems versus Schroedinger operators: A case study in spontaneous symmetry breaking. SciPost Physics, 2020, 8, .	4.9	8
137	Semiclassical calculations on the energy dependence of the steric effect for the reaction Ca(1D)+CH3F(jkm=111)â†'CaF+CH3. Journal of Chemical Physics, 1996, 105, 2247-2262.	3.0	7
138	Ab initio prediction of the vibration-rotation-tunneling spectrum of HCl–(H2O)2. Journal of Chemical Physics, 2001, 115, 3604-3613.	3.0	7
139	Molecular Dynamics Simulations of Energy Dissipation on Amorphous Solid Water: Testing the Validity of Equipartition. ACS Earth and Space Chemistry, 2021, 5, 2032-2041.	2.7	7
140	Predissociation of the A2Σ+ (v′ = 3) state of the OH radical. Physical Chemistry Chemical Physics, 2009, 11, 4754.	2.8	6
141	Mapping partial wave dynamics in scattering resonances by rotational de-excitation collisions. Nature Chemistry, 2022, 14, 538-544.	13.6	6
142	Correlations in rotational energy transfer for NO–D2 inelastic collisions. Journal of Chemical Physics, 2020, 153, 064301.	3.0	5
143	Experimental and theoretical investigation of resonances in low-energy NO–H2 collisions. Journal of Chemical Physics, 2020, 153, 244302.	3.0	5
144	Collisionâ€induced spinâ€orbit relaxation of highly vibrationally excited NO near 1 K. Natural Sciences, 2022, 2, e20210074.	2.1	5

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145	Rovibronic spectroscopy of the van der Waals complex He–HCl+. Molecular Physics, 2004, 102, 2285-2295.	1.7	4
146	Cold magnetically trapped2Dgscandium atoms. II. Scattering dynamics. Physical Review A, 2014, 90, .	2.5	4
147	Time-dependent density-functional-theory study of the suppressed tunneling ionization of vanadium. Physical Review A, 2016, 94, .	2.5	4
148	Multi-channel distorted-wave Born approximation for rovibrational transition rates in molecular collisions. Journal of Chemical Physics, 2021, 155, 034105.	3.0	4
149	Correlated rotational excitations in NO-CO inelastic collisions. Journal of Chemical Physics, 0, , .	3.0	4
150	Discrete variational quantum reactive scattering method with optimal distorted waves. I. Theory. Journal of Chemical Physics, 1998, 108, 5670-5676.	3.0	3
151	Raman association of H2 in the early universe. Faraday Discussions, 2006, 133, 43.	3.2	3
152	Laser ionisation detection of O( $\langle \sup 3 \langle \sup \rangle \langle i \rangle P \langle  i \rangle \langle \sup \rangle \langle i \rangle  i \rangle \langle \sup \rangle$ ) atoms in the VUV; application to photodissociation of O $\langle \sup 2 \langle \sup \rangle$ . Molecular Physics, 2022, 120, .	1.7	3
153	Ab initio study of the reactivity of ultracold RbSr + RbSr collisions. New Journal of Physics, 2022, 24, 055001.	2.9	3
154	Semiclassical calculation of the vibrational structure of theBÌf 1BuRydberg state oftransâ€diâ€imide fromabinitioconfiguration interaction potential energy surfaces. Journal of Chemical Physics, 1989, 91, 3027-3035.	3.0	2
155	Ab Initio Treatment of the Chemical Reaction Precursor Complex Br(2P)â^HCN. 2. Bound-State Calculations and Infrared Spectraâ€. Journal of Physical Chemistry A, 2007, 111, 7270-7281.	2.5	2
156	Stark Interference of Electric and Magnetic Dipole Transitions in the <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>A</mml:mi><mml:mo><mml:mi>X</mml:mi>X</mml:mo></mml:mrow> of OH. Physical Review Letters, 2016, 116, 153001.</mml:math>	< <b>7;8</b> ml:ma⁴	th>Band
157	Tunneling ionization of the F4 and D6 states of vanadium: Exchange blockade. Physical Review A, 2017, 96, .	2.5	2
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