

# Ad van der Avoird

## List of Publications by Year in descending order

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197  
papers

8,297  
citations

38660

50  
h-index

58464

82  
g-index

203  
all docs

203  
docs citations

203  
times ranked

3761  
citing authors

#	ARTICLE	IF	CITATIONS
1	Collision-induced spin-orbit relaxation of highly vibrationally excited NO near 1 K. <i>Natural Sciences</i> , 2022, 2, e20210074.	1.0	5
2	Mapping partial wave dynamics in scattering resonances by rotational de-excitation collisions. <i>Nature Chemistry</i> , 2022, 14, 538-544.	6.6	6
3	Ammonia dimer: extremely fluxional but still hydrogen bonded. <i>Nature Communications</i> , 2022, 13, 1470.	5.8	7
4	Glory scattering in deeply inelastic molecular collisions. <i>Nature Chemistry</i> , 2022, 14, 664-669.	6.6	11
5	The He-H <sub>3</sub> <sup>+</sup> complex. I. Vibration-rotation-tunneling states and transition probabilities. <i>Journal of Chemical Physics</i> , 2022, 156, 144307.	1.2	2
6	The He-H <sub>3</sub> <sup>+</sup> complex. II. Infrared predissociation spectrum and energy term diagram. <i>Journal of Chemical Physics</i> , 2022, 156, 144308.	1.2	3
7	Vibration-Rotation-Tunneling Levels and Spectra of Van der Waals Molecules. , 2022, , 194-234.		2
8	Efficient computational methods for rovibrational transition rates in molecular collisions. <i>Journal of Chemical Physics</i> , 2022, 157, .	1.2	2
9	Determining the nature of quantum resonances by probing elastic and reactive scattering in cold collisions. <i>Nature Chemistry</i> , 2021, 13, 94-98.	6.6	37
10	Intermolecular dynamics of NH <sub>3</sub> -rare gas complexes in the $\hat{1}/2$ umbrella region of NH <sub>3</sub> investigated by rovibrational laser jet-cooled spectroscopy and <i>ab initio</i> calculations. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 10864-10874.	1.3	4
11	Rotational spectroscopy and bound state calculations of deuterated NH <sub>3</sub> -H <sub>2</sub> van der Waals complexes. <i>Journal of Molecular Spectroscopy</i> , 2021, 377, 111442.	0.4	3
12	Vibrational spectroscopy of H <sub>2</sub> He <sup>+</sup> and D <sub>2</sub> He <sup>+</sup> . <i>Journal of Molecular Spectroscopy</i> , 2021, 377, 111423.	0.4	8
13	Quantifying the interplay between fine structure and geometry of an individual molecule on a surface. <i>Physical Review B</i> , 2021, 103, .	1.1	25
14	Multi-channel distorted-wave Born approximation for rovibrational transition rates in molecular collisions. <i>Journal of Chemical Physics</i> , 2021, 155, 034105.	1.2	4
15	Ab initio study of the O <sub>3</sub> -N <sub>2</sub> complex: Potential energy surface and rovibrational states. <i>Journal of Chemical Physics</i> , 2021, 155, 054308.	1.2	3
16	Para-ortho hydrogen conversion: Solving a 90-year old mystery. <i>Natural Sciences</i> , 2021, 1, e10002.	1.0	11
17	Molecular square dancing in CO-CO collisions. <i>Science</i> , 2020, 369, 307-309.	6.0	13
18	Potential energy surface and bound states of the H <sub>2</sub> O-HF complex. <i>Journal of Chemical Physics</i> , 2020, 153, 214301.	1.2	13

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19	Correlations in rotational energy transfer for NO <sup>+</sup> D <sub>2</sub> inelastic collisions. Journal of Chemical Physics, 2020, 153, 064301.	1.2	5
20	Rotational-vibrational resonance states. Physical Chemistry Chemical Physics, 2020, 22, 15081-15104.	1.3	10
21	Imaging the onset of the resonance regime in low-energy NO-He collisions. Science, 2020, 368, 626-630.	6.0	68
22	State-to-state scattering of highly vibrationally excited NO at broadly tunable energies. Nature Chemistry, 2020, 12, 528-534.	6.6	20
23	Ab initio potential energy surface and microwave spectrum of the NH <sub>3</sub> -N <sub>2</sub> van der Waals complex. Journal of Chemical Physics, 2020, 152, 234304.	1.2	3
24	Experimental and theoretical investigation of resonances in low-energy NO <sup>+</sup> H <sub>2</sub> collisions. Journal of Chemical Physics, 2020, 153, 244302.	1.2	5
25	Direct observation of product-pair correlations in rotationally inelastic collisions of ND <sub>3</sub> with D <sub>2</sub> . Physical Chemistry Chemical Physics, 2019, 21, 14033-14041.	1.3	14
26	The water-carbon monoxide dimer: new infrared spectra, <i>ab initio</i> rovibrational energy level calculations, and an interesting in-termolecular mode. Physical Chemistry Chemical Physics, 2019, 21, 14911-14922.	1.3	14
27	Differential Cross Sections for State-to-State Collisions of NO( <i>v</i> = 10) in Near-Copropagating Beams. Journal of Physical Chemistry Letters, 2019, 10, 2422-2427.	2.1	17
28	Update of the HITRAN collision-induced absorption section. Icarus, 2019, 328, 160-175.	1.1	105
29	Imaging inelastic scattering of CO with argon: polarization dependent differential cross sections. Physical Chemistry Chemical Physics, 2019, 21, 9200-9211.	1.3	3
30	Near dissociation states for H <sub>2</sub> <sup>+</sup> He on MRCI and FCI potential energy surfaces. Physical Chemistry Chemical Physics, 2019, 21, 24976-24983.	1.3	30
31	<i>Ab initio</i> potential and rotational spectra of the CO-N <sub>2</sub> complex. Journal of Chemical Physics, 2018, 148, 044313.	1.2	13
32	Diabatic states, nonadiabatic coupling, and the counterpoise procedure for weakly interacting open-shell molecules. Journal of Chemical Physics, 2018, 148, .	1.2	8
33	Correlated energy transfer in rotationally and spin-orbit inelastic collisions of NO(X <sup>2</sup> <sub>1/2</sub> , <i>j</i> = 1/2f) with O <sub>2</sub> (X <sup>3</sup> <sub>g</sub> <sup>+</sup> ). Physical Chemistry Chemical Physics, 2018, 20, 12444-12453.	1.3	11
34	O <sub>2</sub> <sup>+</sup> O <sub>2</sub> and O <sub>2</sub> <sup>+</sup> N <sub>2</sub> collision-induced absorption mechanisms unravelled. Nature Chemistry, 2018, 10, 549-554.	6.6	29
35	Scattering resonances in bimolecular collisions between NO radicals and H <sub>2</sub> challenge the theoretical gold standard. Nature Chemistry, 2018, 10, 435-440.	6.6	56
36	Observation of correlated excitations in bimolecular collisions. Nature Chemistry, 2018, 10, 469-473.	6.6	32

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37	Characterization of methanol as a magnetic field tracer in star-forming regions. <i>Nature Astronomy</i> , 2018, 2, 145-150.	4.2	23
38	Cold Collisions in a Molecular Synchrotron. <i>Physical Review Letters</i> , 2018, 120, 033402.	2.9	22
39	Interaction of H <sub>2</sub> O with CO: potential energy surface, bound states and scattering calculations. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 5469-5477.	1.3	24
40	Molecules in confinement in clusters, quantum solvents and matrices: general discussion. <i>Faraday Discussions</i> , 2018, 212, 569-601.	1.6	4
41	Concluding remarks. <i>Faraday Discussions</i> , 2018, 212, 603-607.	1.6	0
42	Energy dependent parity-pair behavior in NO + He collisions. <i>Journal of Chemical Physics</i> , 2018, 149, 084306.	1.2	2
43	Rovibrational laser jet-cooled spectroscopy of the NH <sub>3</sub> -Ar complex in the $\nu_1/\nu_2$ umbrella region of NH <sub>3</sub> : comparison between new infrared data and an <i>ab initio</i> calculated spectrum. <i>Molecular Physics</i> , 2018, 116, 3642-3655.	0.8	5
44	Near infrared overtone ( $\nu_{OH} = 2 \hat{+}0$ ) spectroscopy of Ne-H <sub>2</sub> O clusters. <i>Journal of Chemical Physics</i> , 2017, 146, 104204.	1.2	9
45	Rotational Spectroscopy of the NH <sub>3</sub> -H <sub>2</sub> Molecular Complex. <i>Astrophysical Journal</i> , 2017, 838, 27.	1.6	17
46	Potential energy and dipole moment surfaces of the triplet states of the O <sub>2</sub> ( $X^3\Sigma_g^-$ ) $\hat{+}$ O <sub>2</sub> ( $X^3\Sigma_g^-, a^1\Pi_g, b^1\Sigma_g^+$ ) complex. <i>Journal of Chemical Physics</i> , 2017, 147, 084306.	1.2	14
47	Line-shape theory of the $X^3\Sigma_g^- \hat{+} a^1\Pi_g, b^1\Sigma_g^+$ transitions in O <sub>2</sub> -O <sub>2</sub> collision-induced absorption. <i>Journal of Chemical Physics</i> , 2017, 147, 084307.	1.2	9
48	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> . <i>Journal of Physical Chemistry A</i> , 2017, 121, 7446-7454.	1.1	13
49	Imaging diffraction oscillations for inelastic collisions of NO radicals with He and D <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2017, 147, 013918.	1.2	16
50	Imaging quantum stereodynamics through Fraunhofer scattering of NO radicals with rare-gas atoms. <i>Nature Chemistry</i> , 2017, 9, 226-233.	6.6	50
51	Directly probing anisotropy in atom-molecule collisions through quantum scattering resonances. <i>Nature Physics</i> , 2017, 13, 35-38.	6.5	99
52	Using a direct simulation Monte Carlo approach to model collisions in a buffer gas cell. <i>Journal of Chemical Physics</i> , 2017, 146, 044302.	1.2	10
53	Nuclear spin/parity dependent spectroscopy and predissociation dynamics in $\nu_{OH} = 2 \hat{+}0$ overtone excited Ne-H <sub>2</sub> O clusters: Theory and experiment. <i>Journal of Chemical Physics</i> , 2017, 147, 214304.	1.2	5
54	Quantum-Chemical calculations revealing the effects of magnetic fields on methanol masers. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 23-26.	0.0	0

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55	Rotational energy transfer in collisions of ammonia with rare gas atoms and H <sub>2</sub> . Journal of Physics: Conference Series, 2017, 875, 102034.	0.3	0
56	Hyperfine interactions and internal rotation in methanol. Journal of Chemical Physics, 2016, 145, 244301.	1.2	16
57	Stark Interference of Electric and Magnetic Dipole Transitions in the $A^2\Pi$ Band of OH. Physical Review Letters, 2016, 116, 153001.	2.9	2
58	Communication: Multiple-property-based diabaticization for open-shell van der Waals molecules. Journal of Chemical Physics, 2016, 144, 121101.	1.2	16
59	Probing Scattering Resonances in (Ultra)Cold Inelastic NO+He Collisions. Journal of Physical Chemistry A, 2016, 120, 4770-4777.	1.1	10
60	QUANTUM CALCULATION OF INELASTIC CO COLLISIONS WITH H. III. RATE COEFFICIENTS FOR RO-VIBRATIONAL TRANSITIONS. Astrophysical Journal, 2015, 813, 96.	1.6	12
61	Resonances in rotationally inelastic scattering of NH <sub>3</sub> and ND <sub>3</sub> with H <sub>2</sub> . Journal of Chemical Physics, 2015, 143, 044312.	1.2	34
62	The elusive S <sub>2</sub> state, the S <sub>1</sub> /S <sub>2</sub> splitting, and the excimer states of the benzene dimer. Journal of Chemical Physics, 2015, 142, 234306.	1.2	9
63	Scattering of NH <sub>3</sub> and ND <sub>3</sub> with rare gas atoms at low collision energy. Journal of Chemical Physics, 2015, 143, 184303.	1.2	24
64	Collision-induced absorption with exchange effects and anisotropic interactions: Theory and application to H <sub>2</sub> + H <sub>2</sub> . Journal of Chemical Physics, 2015, 142, 084305.	1.2	19
65	Rotational study of the NH <sub>3</sub> +CO complex: Millimeter-wave measurements and ab initio calculations. Journal of Chemical Physics, 2015, 142, 114308.	1.2	14
66	Imaging resonances in low-energy NO-He inelastic collisions. Science, 2015, 350, 787-790.	6.0	115
67	Rotationally inelastic scattering of ND <sub>3</sub> with H <sub>2</sub> as a probe of the intermolecular potential energy surface. Molecular Physics, 2015, 113, 3925-3933.	0.8	18
68	Rotationally Inelastic Scattering of Quantum-State-Selected ND <sub>3</sub> with Ar. Journal of Physical Chemistry A, 2015, 119, 5979-5987.	1.1	10
69	Resolving rainbows with superimposed diffraction oscillations in NO + rare gas scattering: experiment and theory. New Journal of Physics, 2015, 17, 055019.	1.2	28
70	Quantum dynamical resonances in low-energy CO(j=0, k=0)+He inelastic collisions. Nature Chemistry, 2015, 7, 349-353.	6.6	72
71	QUANTUM CALCULATION OF INELASTIC CO COLLISIONS WITH H. II. PURE ROTATIONAL QUENCHING OF HIGH ROTATIONAL LEVELS. Astrophysical Journal, 2015, 811, 27.	1.6	18
72	Simulating rotationally inelastic collisions using a direct simulation Monte Carlo method. Molecular Physics, 2015, 113, 3972-3978.	0.8	12

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73	Quantum mechanical calculation of the collision-induced absorption spectra of N <sub>2</sub> with anisotropic interactions. <i>Journal of Chemical Physics</i> , 2015, 142, 084306.	1.2	26
74	Rotationally inelastic scattering of OH by molecular hydrogen: Theory and experiment. <i>Journal of Chemical Physics</i> , 2015, 142, 204310.	1.2	34
75	Quantum scattering calculations for ro-vibrational de-excitation of CO by hydrogen atoms. <i>Journal of Chemical Physics</i> , 2015, 142, 204303.	1.2	11
76	Inelastic Scattering of CO with He: Polarization Dependent Differential State-to-State Cross Sections. <i>Journal of Physical Chemistry A</i> , 2015, 119, 12526-12537.	1.1	14
77	Direct Extraction of Alignment Moments from Inelastic Scattering Images. <i>Journal of Physical Chemistry A</i> , 2015, 119, 5925-5931.	1.1	10
78	Rotational study of the CH <sub>4</sub> -CO complex: Millimeter-wave measurements and ab initio calculations. <i>Journal of Chemical Physics</i> , 2015, 143, 154303.	1.2	11
79	High-Resolution Imaging of Velocity-Controlled Molecular Collisions Using Counterpropagating Beams. <i>Physical Review Letters</i> , 2014, 113, 263202.	2.9	36
80	Comment on "Communication: Benzene dimer" [J. Chem. Phys. 139, 201102 (2013)]. <i>Journal of Chemical Physics</i> , 2014, 140, 227101.	1.2	8
81	Potential energy surface and bound states of the NH <sub>3</sub> -Ar and ND <sub>3</sub> -Ar complexes. <i>Journal of Chemical Physics</i> , 2014, 141, 224303.	1.2	25
82	The interaction of OH(X <sup>2</sup> Π) with H <sub>2</sub> : Ab initio potential energy surfaces and bound states. <i>Journal of Chemical Physics</i> , 2014, 141, 174309.	1.2	26
83	A theoretical and experimental study of pressure broadening of the oxygen A-band by helium. <i>Journal of Chemical Physics</i> , 2014, 140, 204314.	1.2	8
84	DYNAMICS OF CO IN AMORPHOUS WATER-ICE ENVIRONMENTS. <i>Astrophysical Journal</i> , 2014, 781, 16.	1.6	52
85	State-resolved diffraction oscillations imaged for inelastic collisions of NO radicals with He, Ne and Ar. <i>Nature Chemistry</i> , 2014, 6, 216-221.	6.6	101
86	Predictions for water clusters from a first-principles two- and three-body force field. <i>Journal of Chemical Physics</i> , 2014, 140, 194101.	1.2	61
87	Quantum Resonance Scattering in Ultracold NH <sub>3</sub> -X <sup>2</sup> Π	2.9	50
88	Three-Dimensional Ab Initio Potential Energy Surface for H <sub>2</sub> -CO(X <sup>2</sup> Π <sub>f</sub> ) <sup>2</sup> . <i>Journal of Physical Chemistry A</i> , 2013, 117, 7571-7579.	1.1	27
89	Overtone vibrational spectroscopy in H <sub>2</sub> -H <sub>2</sub> O complexes: A combined high level theoretical ab initio, dynamical and experimental study. <i>Journal of Chemical Physics</i> , 2012, 137, 084301.	1.2	27
90	Scattering resonances in slow NH <sub>3</sub> -He collisions. <i>Journal of Chemical Physics</i> , 2012, 136, 074301.	1.2	51

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91	Quantum-State Resolved Bimolecular Collisions of Velocity-Controlled OH with NO Radicals. <i>Science</i> , 2012, 338, 1060-1063.	6.0	114
92	Resonances in rotationally inelastic scattering of OH( $\nu_2=2$ ) with helium and neon. <i>Journal of Chemical Physics</i> , 2012, 136, 144308.	1.2	24
93	Cold and ultracold NH-NH collisions in magnetic fields. <i>Physical Review A</i> , 2011, 83, .	1.0	38
94	Rovibrational states of the H <sub>2</sub> O-H <sub>2</sub> complex: An <i>ab initio</i> calculation. <i>Journal of Chemical Physics</i> , 2011, 134, 044314.	1.2	67
95	Comment on: The molecular symmetry group of the CO dimer and the assignments of the intermolecular vibrations, by: K.M.T. Yamada, <i>J. Mol. Spectrosc.</i> 254 (2009) 87. <i>Journal of Molecular Spectroscopy</i> , 2010, 259, 60-61.	0.4	2
96	Vibration-rotation-tunneling states of the benzene dimer: an <i>ab initio</i> study. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 8219.	1.3	72
97	Bound states of the OH( $\nu_2=2$ )-HCl complex on <i>ab initio</i> diabatic potentials. <i>Journal of Chemical Physics</i> , 2009, 131, 124307.	1.2	24
98	Water trimer torsional spectrum from accurate <i>ab initio</i> and semiempirical potentials. <i>Journal of Chemical Physics</i> , 2008, 128, 014302.	1.2	29
99	Higher Energy States in the CO Dimer: Millimeter-Wave Spectra and Rovibrational Calculations. <i>Journal of Physical Chemistry A</i> , 2007, 111, 12238-12247.	1.1	35
100	Predictions of the Properties of Water from First Principles. <i>Science</i> , 2007, 315, 1249-1252.	6.0	382
101	<i>Ab initio</i> potential-energy surface and rovibrational states of the HCN-HCl complex. <i>Journal of Chemical Physics</i> , 2006, 124, 204315.	1.2	13
102	New CO-CO interaction potential tested by rovibrational calculations. <i>Journal of Chemical Physics</i> , 2005, 122, 054306.	1.2	54
103	<i>Ab initio</i> computed diabatic potential energy surfaces of OH-HCl. <i>Journal of Chemical Physics</i> , 2005, 122, 244325.	1.2	40
104	Jahn-Teller effect in van der Waals complexes; Ar-C <sub>6</sub> H <sub>6</sub> <sup>+</sup> and Ar-C <sub>6</sub> D <sub>6</sub> <sup>+</sup> . <i>Journal of Chemical Physics</i> , 2004, 120, 10069-10083.	1.2	4
105	Theoretical study of the He-HF <sup>+</sup> complex. II. Rovibronic states from coupled diabatic potential energy surfaces. <i>Journal of Chemical Physics</i> , 2004, 120, 103-116.	1.2	8
106	Rovibronic spectroscopy of the van der Waals complex He-HCl <sup>+</sup> . <i>Molecular Physics</i> , 2004, 102, 2285-2295.	0.8	4
107	Method for the <i>ab initio</i> calculation of intermolecular potentials of ionic clusters: Test on Rg-CO <sup>+</sup> , Rg=He, Ne, Ar. <i>Journal of Chemical Physics</i> , 2003, 118, 1110-1118.	1.2	16
108	An <i>ab initio</i> CO dimer interaction potential and the computation of the rovibrational spectrum of (CO) <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 4767.	1.3	38

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109	Diabatic intermolecular potentials and bound states of open-shell atom-molecule dimers: Application to the $F([sup 2]P) \hat{=} H[sub 2]$ complex. <i>Journal of Chemical Physics</i> , 2003, 118, 7340.	1.2	22
110	Spectrum and vibrational predissociation of the HF dimer. II. Photodissociation cross sections and product state distributions. <i>Journal of Chemical Physics</i> , 2003, 119, 286-292.	1.2	13
111	Singlet-triplet excitation spectrum of the CO-He complex. II. Photodissociation and bound-free CO( $\hat{=}S_3^+ \hat{=}S_1^+$ ) transitions. <i>Journal of Chemical Physics</i> , 2003, 119, 141-148.	1.2	9
112	Singlet-triplet excitation spectrum of the CO-He complex. I. Potential surfaces and bound-bound CO( $\hat{=}S_3^+ \hat{=}S_1^+$ ) transitions. <i>Journal of Chemical Physics</i> , 2003, 119, 131-140.	1.2	18
113	Spectrum and vibrational predissociation of the HF dimer. I. Bound and quasibound states. <i>Journal of Chemical Physics</i> , 2003, 119, 277-285.	1.2	28
114	Photodissociation of the methane-argon complex. I. Ab initio intermolecular potential depending on the methane vibrational coordinates. <i>Journal of Chemical Physics</i> , 2002, 117, 7551-7561.	1.2	13
115	Terahertz vibration-rotation-tunneling spectroscopy of water clusters in the translational band region of liquid water. <i>Journal of Chemical Physics</i> , 2001, 114, 3994-4004.	1.2	40
116	The 583.2 GHz torsional hot-band of (D <sub>2</sub> O) <sub>3</sub> . <i>Journal of Chemical Physics</i> , 2001, 114, 3988-3993.	1.2	19
117	Ab initio prediction of the vibration-rotation-tunneling spectrum of HCl-(H <sub>2</sub> O) <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2001, 115, 3604-3613.	1.2	7
118	Intramonomer correlation contributions to first-order exchange nonadditivity in trimers. <i>Journal of Chemical Physics</i> , 2000, 112, 3159-3169.	1.2	14
119	Water pair potential of near spectroscopic accuracy. II. Vibration-rotation-tunneling levels of the water dimer. <i>Journal of Chemical Physics</i> , 2000, 113, 6702-6715.	1.2	109
120	Water Pair and Three-Body Potential of Spectroscopic Quality from Ab Initio Calculations. <i>Physical Review Letters</i> , 2000, 84, 4072-4075.	2.9	102
121	Water pair potential of near spectroscopic accuracy. I. Analysis of potential surface and virial coefficients. <i>Journal of Chemical Physics</i> , 2000, 113, 6687-6701.	1.2	164
122	Intermolecular Potentials, Internal Motions, and Spectra of van der Waals and Hydrogen-Bonded Complexes. <i>Chemical Reviews</i> , 2000, 100, 4109-4144.	23.0	161
123	Pseudorotation tunneling in several water trimer isotopomers. <i>Journal of Chemical Physics</i> , 1999, 110, 823-831.	1.2	24
124	Quantitative characterization of the (D <sub>2</sub> O) <sub>3</sub> torsional manifold by terahertz laser spectroscopy and theoretical analysis. <i>Journal of Chemical Physics</i> , 1999, 110, 4369-4381.	1.2	53
125	Quantitative characterization of the water trimer torsional manifold by terahertz laser spectroscopy and theoretical analysis. II. (H <sub>2</sub> O) <sub>3</sub> . <i>Journal of Chemical Physics</i> , 1999, 111, 7789-7800.	1.2	49
126	Density functional calculations of molecular hyperfine interactions in the zero order regular approximation for relativistic effects. <i>Journal of Chemical Physics</i> , 1998, 108, 4783-4796.	1.2	322



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127	Infrared spectroscopy and ab initio potential energy surface for Ne <sup>+</sup> C <sub>2</sub> H <sub>2</sub> and Ne <sup>+</sup> C <sub>2</sub> HD complexes. <i>Journal of Chemical Physics</i> , 1998, 109, 8968-8979.	1.2	41
128	Vibrational overtones in the electronic ground state of the benzene-Ar complex: A combined experimental and theoretical analysis. <i>Journal of Chemical Physics</i> , 1998, 108, 8408-8417.	1.2	31
129	High-resolution spectroscopy of 4-fluorostyrene-rare gas van der Waals complexes: Results and comparison with theoretical calculations. <i>Journal of Chemical Physics</i> , 1998, 108, 1836-1850.	1.2	17
130	Symmetry-adapted perturbation theory of nonadditive three-body interactions in van der Waals molecules. II. Application to the Ar <sub>2</sub> <sup>+</sup> HF interaction. <i>Journal of Chemical Physics</i> , 1998, 108, 579-589.	1.2	29
131	Vibrational predissociation of the ND <sub>3</sub> -Ar Van der Waals complex: Comparison with NH <sub>3</sub> -Ar. <i>Journal of Chemical Physics</i> , 1997, 106, 9141-9154.	1.2	8
132	Ab initio potential-energy surface and rotationally inelastic integral cross sections of the Ar <sup>+</sup> CH <sub>4</sub> complex. <i>Journal of Chemical Physics</i> , 1997, 107, 902-913.	1.2	62
133	Density functional calculations of molecular g-tensors in the zero-order regular approximation for relativistic effects. <i>Journal of Chemical Physics</i> , 1997, 107, 2488-2498.	1.2	283
134	A new He <sup>+</sup> CO interaction energy surface with vibrational coordinate dependence. I. Ab initio potential and infrared spectrum. <i>Journal of Chemical Physics</i> , 1997, 107, 9921-9928.	1.2	109
135	Entrance Channel Effects in the Reaction of Aligned Ca(1P) with HCl. <i>Journal of Physical Chemistry A</i> , 1997, 101, 7558-7566.	1.1	11
136	Ab Initio Potential Energy Surface and Infrared Spectrum of the Ne <sup>+</sup> CO Complex. <i>Journal of Physical Chemistry A</i> , 1997, 101, 4690-4698.	1.1	48
137	Differential cross sections for rotational excitation of NH <sub>3</sub> by collisions with Ar and He: Close coupling results and comparison with experiment. <i>Journal of Chemical Physics</i> , 1996, 105, 3079-3088.	1.2	19
138	Ab initio collision-induced polarizability, polarized and depolarized Raman spectra, and second dielectric virial coefficient of the helium diatom. <i>Journal of Chemical Physics</i> , 1996, 104, 6997-7007.	1.2	64
139	Tunneling dynamics, symmetry, and far-infrared spectrum of the rotating water trimer. II. Calculations and experiments. <i>Journal of Chemical Physics</i> , 1996, 105, 8051-8063.	1.2	72
140	Unambiguous assignment of the van der Waals modes of benzene <sup>+</sup> Ar by analysis of the rotationally resolved UV spectra and comparison with multidimensional calculations. <i>Journal of Chemical Physics</i> , 1996, 104, 882-898.	1.2	53
141	Semiclassical calculations on the energy dependence of the steric effect for the reaction Ca(1D)+CH <sub>3</sub> F(jkm=111) <sup>+</sup> CaF+CH <sub>3</sub> . <i>Journal of Chemical Physics</i> , 1996, 105, 2247-2262.	1.2	7
142	Vibration and rotation of CO in C <sub>60</sub> and predicted infrared spectrum. <i>Journal of Chemical Physics</i> , 1996, 104, 832-847.	1.2	37
143	Tunneling dynamics, symmetry, and far-infrared spectrum of the rotating water trimer. I. Hamiltonian and qualitative model. <i>Journal of Chemical Physics</i> , 1996, 105, 8034-8050.	1.2	68
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