Jeremy M Hutson

List of Publications by Year in Descending Order

231 papers	10,353 citations	55 h-index	89 g-index
241 ext. papers	11,245 ext. citations	4.4 avg, IF	6.43 L-index

#	Paper	IF	Citations
231	Toward a coherent ultracold chemistry.. *Science*, **2022**, 375, 975-976	33.3	
230	Collisions between Ultracold Molecules and Atoms in a Magnetic Trap. *Physical Review Letters*, **2021**, 126, 153401	7.4	13
229	Preparation of one 87Rb and one 133Cs atom in a single optical tweezer. *New Journal of Physics*, **2021**, 23, 065002	2.9	6
228	Collisions in a dual-species magneto-optical trap of molecules and atoms. *New Journal of Physics*, **2021**, 23, 075004	2.9	2
227	Lee-Huang-Yang effects in the ultracold mixture of Na23 and Rb87 with attractive interspecies interactions. *Physical Review Research*, **2021**, 3,	3.9	4
226	Complexes formed in collisions between ultracold alkali-metal diatomic molecules and atoms. *New Journal of Physics*, **2021**, 23, 125008	2.9	2
225	Microwave coherent control of ultracold ground-state molecules formed by short-range photoassociation. *Physical Chemistry Chemical Physics*, **2020**, 22, 13002-13007	3.6	2
224	Robust entangling gate for polar molecules using magnetic and microwave fields. *Physical Review A* , **2020**, 101,	2.6	23
223	Forming a Single Molecule by Magnetoassociation in an Optical Tweezer. *Physical Review Letters*, **2020**, 124, 253401	7.4	17
222	Long Rotational Coherence Times of Molecules in a Magnetic Trap. *Physical Review Letters*, **2020**, 124, 063001	7.4	15
221	Characterizing quasibound states and scattering resonances. *Physical Review Research*, **2020**, 2,	3.9	2
220	Ultracold collisions in the Yb-Li mixture system. *Journal of Physics: Conference Series*, **2020**, 1412, 062005	0.3	
219	Controlling the ac Stark effect of RbCs with dc electric and magnetic fields. *Physical Review A*, **2020**, 102,	2.6	5
218	Ultracold polar molecules as qudits. *New Journal of Physics*, **2020**, 22, 013027	2.9	40
217	Prospects of Forming High-Spin Polar Molecules from Ultracold Atoms. *Physical Review X*, **2020**, 10,	9.1	3
216	Observation of Efimov Universality across a Nonuniversal Feshbach Resonance in ^{39}K. *Physical Review Letters*, **2020**, 125, 243401	7.4	4
215	Magnetic Feshbach resonances in ultracold collisions between Cs and Yb atoms. *Physical Review A*, **2019**, 100,	2.6	7

214	molscat: A program for non-reactive quantum scattering calculations on atomic and molecular collisions. *Computer Physics Communications*, **2019**, 241, 9-18	4.2	33
213	bound and field: Programs for calculating bound states of interacting pairs of atoms and molecules. *Computer Physics Communications*, **2019**, 241, 1-8	4.2	14
212	Ultracold collisions of Cs atoms in excited Zeeman and hyperfine states. *Physical Review A*, **2019**, 100,	2.6	3
211	Sticky collisions of ultracold RbCs molecules. *Nature Communications*, **2019**, 10, 3104	17.4	53
210	Time delays in ultracold atomic and molecular collisions. *Physical Review Research*, **2019**, 1,	3.9	4
209	Microwave shielding of ultracold polar molecules with imperfectly circular polarization. *Physical Review A*, **2019**, 100,	2.6	4
208	Ultracold molecules for quantum simulation: rotational coherences in CaF and RbCs. *Quantum Science and Technology*, **2019**, 4, 014010	5.5	53
207	Hyperfine structure of 2□molecules containing alkaline-earth-metal atoms. *Physical Review A*, **2018**, 97,	2.6	9
206	Observation of Feshbach resonances between alkali and closed-shell atoms. *Nature Physics*, **2018**, 14, 881-884	16.2	42
205	Near-threshold bound states of the dipole-dipole interaction. *Physical Review A*, **2018**, 98,	2.6	2
204	Microwave Shielding of Ultracold Polar Molecules. *Physical Review Letters*, **2018**, 121, 163401	7.4	28
203	Two-photon photoassociation spectroscopy of CsYb: Ground-state interaction potential and interspecies scattering lengths. *Physical Review A*, **2018**, 98,	2.6	17
202	Production of ultracold Cs*Yb molecules by photoassociation. *Physical Review A*, **2018**, 97,	2.6	17
201	Observation of interspecies Feshbach resonances in an ultracold K39□s133 mixture and refinement of interaction potentials. *Physical Review A*, **2017**, 95,	2.6	18
200	Characterizing Feshbach resonances in ultracold scattering calculations. *Physical Review A*, **2017**, 96,	2.6	7
199	Inelastic losses in radio-frequency-dressed traps for ultracold atoms. *Physical Review A*, **2017**, 96,	2.6	3
198	Atomic Clock Measurements of Quantum Scattering Phase Shifts Spanning Feshbach Resonances at Ultralow Fields. *Physical Review Letters*, **2017**, 119, 113401	7.4	3
197	ac Stark effect in ultracold polar Rb87Cs133 molecules. *Physical Review A*, **2017**, 96,	2.6	23

196	Interspecies thermalization in an ultracold mixture of Cs and Yb in an optical trap. *Physical Review A* , **2017**, 96,	2.6	14
195	Hyperfine structure of alkali-metal diatomic molecules. *Physical Review A*, **2017**, 96,	2.6	24
194	Deviations from Born-Oppenheimer mass scaling in spectroscopy and ultracold molecular physics. *Journal of Molecular Spectroscopy*, **2016**, 330, 43-56	1.3	17
193	Measurement of the binding energy of ultracold Rb87Cs133 molecules using an offset-free optical frequency comb. *Physical Review A*, **2016**, 94,	2.6	9
192	Quantum chaos in ultracold collisions between Yb(1S0) and Yb(3P2). *Physical Review A*, **2016**, 93,	2.6	13
191	Approach to chaos in ultracold atomic and molecular physics: Statistics of near-threshold bound states for Li+CaH and Li+CaF. *Physical Review A*, **2016**, 93,	2.6	18
190	Controlling the rotational and hyperfine state of ultracold Rb87Cs133 molecules. *Physical Review A*, **2016**, 94,	2.6	31
189	Creating Feshbach resonances for ultracold molecule formation with radio-frequency fields. *Physical Review A*, **2016**, 94,	2.6	9
188	Production of Ultracold Rb Cs in the Absolute Ground State: Complete Characterisation of the Stimulated Raman Adiabatic Passage Transfer. *ChemPhysChem*, **2016**, 17, 3811-3817	3.2	18
187	Cold atomic and molecular collisions: approaching the universal loss regime. *New Journal of Physics*, **2015**, 17, 045019	2.9	20
186	Modeling sympathetic cooling of molecules by ultracold atoms. *Physical Review A*, **2015**, 92,	2.6	41
185	Effective-range approximations for resonant scattering of cold atoms. *Physical Review A*, **2014**, 89,	2.6	22
184	Observation of the second triatomic resonance in Efimov's scenario. *Physical Review Letters*, **2014**, 112, 190401	7.4	100
183	Ultracold dense samples of dipolar RbCs molecules in the rovibrational and hyperfine ground state. *Physical Review Letters*, **2014**, 113, 205301	7.4	331
182	Production of optically trapped RbCs87 Feshbach molecules. *Physical Review A*, **2014**, 89,	2.6	43
181	Creation of ultracold ^{87}Rb^{133}Cs molecules in the rovibrational ground state. *Physical Review Letters*, **2014**, 113, 255301	7.4	283
180	Contrasting the wide Feshbach resonances in Li6 and Li7. *Physical Review A*, **2014**, 89,	2.6	23
179	Three-body parameter for Efimov states in Li6. *Physical Review A*, **2014**, 90,	2.6	20

178	Feshbach resonances, molecular bound states, and prospects of ultracold-molecule formation in mixtures of ultracold K and Cs. *Physical Review A*, **2014**, 90,	2.6	18
177	Reactions between cold methyl halide molecules and alkali-metal atoms. *Journal of Chemical Physics*, **2014**, 140, 014303	3.9	3
176	Collision cross sections for the thermalization of cold gases. *Physical Review A*, **2014**, 89,	2.6	9
175	Multichannel quantum defect theory for cold molecular collisions with a strongly anisotropic potential energy surface. *Physical Review A*, **2013**, 87,	2.6	3
174	Feshbach resonances, weakly bound molecular states, and coupled-channel potentials for cesium at high magnetic fields. *Physical Review A*, **2013**, 87,	2.6	69
173	Feshbach resonances in ultracold 85Rb. *Physical Review A*, **2013**, 87,	2.6	25
172	Ultracold hydrogen atoms: a versatile coolant to produce ultracold molecules. *Physical Review Letters*, **2013**, 111, 203004	7.4	12
171	Precise characterization of 6Li Feshbach resonances using trap-sideband-resolved RF spectroscopy of weakly bound molecules. *Physical Review Letters*, **2013**, 110, 135301	7.4	149
170	Prospects of forming ultracold molecules in 2Σstates by magnetoassociation of alkali-metal atoms with Yb. *Physical Review A*, **2013**, 87,	2.6	55
169	Sympathetic cooling of fluorine atoms with ultracold atomic hydrogen. *Physical Review A*, **2013**, 88,	2.6	6
168	Feshbach spectroscopy of an ultracold mixture of 85Rb and 133Cs. *Physical Review A*, **2013**, 87,	2.6	21
167	Magnetically tunable Feshbach resonances in Li+Yb(3PJ). *Physical Review A*, **2013**, 88,	2.6	20
166	Optimized multichannel quantum defect theory for cold molecular collisions. *Physical Review A*, **2012**, 86,	2.6	9
165	Towards the production of ultracold ground-state RbCs molecules: Feshbach resonances, weakly bound states, and the coupled-channel model. *Physical Review A*, **2012**, 85,	2.6	115
164	Magnetically tunable Feshbach resonances in ultracold Li-Yb mixtures. *Physical Review Letters*, **2012** , 108, 043201	7.4	61
163	Optically induced conical intersections in traps for ultracold atoms and molecules. *Physical Review A*, **2011**, 84,	2.6	4
162	Cold and ultracold NH-NH collisions in magnetic fields. *Physical Review A*, **2011**, 83,	2.6	36
161	Prospects for sympathetic cooling of molecules in electrostatic, ac and microwave traps. *European Physical Journal D*, **2011**, 65, 141-149	1.3	28

160	The prospects of sympathetic cooling of NH molecules with Li atoms. *European Physical Journal D*, **2011**, 65, 151-160	1.3	36
159	Cold collisions of N (4S) atoms and NH (3Σ) molecules in magnetic fields. *Physical Chemistry Chemical Physics*, **2011**, 13, 3669-80	3.6	33
158	Cold collisions of an open-shell S-state atom with a 2Σ molecule: N(4S) colliding with OH in a magnetic field. *Physical Chemistry Chemical Physics*, **2011**, 13, 19077-88	3.6	5
157	Effect of hyperfine interactions on ultracold molecular collisions: NH(3Σ) with Mg(1S) in magnetic fields. *Physical Review A*, **2011**, 84,	2.6	20
156	Multichannel quantum defect theory for cold molecular collisions. *Physical Review A*, **2011**, 84,	2.6	32
155	Large effects of electric fields on atom-molecule collisions at millikelvin temperatures. *Physical Review Letters*, **2011**, 106, 193201	7.4	56
154	Universality of the three-body parameter for Efimov states in ultracold cesium. *Physical Review Letters*, **2011**, 107, 120401	7.4	153
153	Interaction between LiH molecule and Li atom from state-of-the-art electronic structure calculations. *Journal of Chemical Physics*, **2011**, 134, 114109	3.9	35
152	Cold and ultracold NH-NH collisions: the field-free case. *Journal of Chemical Physics*, **2011**, 134, 124309	3.9	18
151	An ultracold high-density sample of rovibronic ground-state molecules in an optical lattice. *Nature Physics*, **2010**, 6, 265-270	16.2	271
150	Hyperfine structure in the microwave spectra of ultracold polar molecules. *New Journal of Physics*, **2010**, 12, 043015	2.9	17
149	Reactions of ultracold alkali-metal dimers. *Physical Review A*, **2010**, 81,	2.6	172
148	Ultracold RbSr molecules can be formed by magnetoassociation. *Physical Review Letters*, **2010**, 105, 153201	7.4	91
147	Chemistry. Ultracold chemistry. *Science*, **2010**, 327, 788-9	33.3	25
146	Dramatic reductions in inelastic cross sections for ultracold collisions near Feshbach resonances. *Physical Review Letters*, **2009**, 103, 163201	7.4	26
145	Manipulating ultracold polar molecules with microwave radiation: The influence of hyperfine structure. *Physical Review A*, **2009**, 80,	2.6	37
144	Conical intersections in laboratory coordinates with ultracold molecules. *Physical Review Letters*, **2009**, 103, 083201	7.4	14
143	Production of ultracold NH molecules by sympathetic cooling with Mg. *Physical Review Letters*, **2009**, 103, 183201	7.4	64

142	Stimulating the production of deeply bound RbCs molecules with laser pulses: the role of spin□orbit coupling in forming ultracold molecules. *New Journal of Physics*, **2009**, 11, 055011	2.9	35
141	Low-energy collisions of NH3 and ND3 with ultracold Rb atoms. *Physical Review A*, **2009**, 79,	2.6	51
140	Hyperfine energy levels of alkali-metal dimers: Ground-state homonuclear molecules in magnetic fields. *Physical Review A*, **2009**, 79,	2.6	30
139	Prospects for sympathetic cooling of polar molecules: NH with alkali-metal and alkaline-earth atoms--a new hope. *Faraday Discussions*, **2009**, 142, 191-201; discussion 221-55	3.6	38
138	Hyperfine energy levels of alkali-metal dimers: Ground-state polar molecules in electric and magnetic fields. *Physical Review A*, **2008**, 78,	2.6	85
137	Large-amplitude quantum mechanics in polyatomic hydrides. II. A particle-on-a-sphere model for XH(n) (n=4,5). *Journal of Chemical Physics*, **2008**, 128, 094306	3.9	22
136	Prospects for producing ultracold NH3 molecules by sympathetic cooling: A survey of interaction potentials. *Physical Review A*, **2008**, 78,	2.6	34
135	Avoided crossings between bound states of ultracold cesium dimers. *Physical Review A*, **2008**, 78,	2.6	33
134	Molecular collisions in ultracold atomic gases. *International Reviews in Physical Chemistry*, **2007**, 26, 1-28	7	64
133	Interactions and dynamics in Li+Li2 ultracold collisions. *Journal of Chemical Physics*, **2007**, 127, 074302	3.9	56
132	Cold collisions between OH and Rb: The field-free case. *Physical Review A*, **2007**, 75,	2.6	44
131	Feshbach resonances in ultracold atomic and molecular collisions: threshold behaviour and suppression of poles in scattering lengths. *New Journal of Physics*, **2007**, 9, 152-152	2.9	77
130	Ultracold atom-molecule collisions and bound states in magnetic fields: Tuning zero-energy Feshbach resonances in He□NH (□). *Physical Review A*, **2007**, 75,	2.6	74
129	Ab initio potential energy surfaces, bound states, and electronic spectrum of the Ar-SH complex. *Journal of Chemical Physics*, **2006**, 125, 184312	3.9	9
128	Ultracold Rb-OH collisions and prospects for sympathetic cooling. *Physical Review Letters*, **2006**, 97, 183201	7.4	90
127	Molecule formation in ultracold atomic gases. *International Reviews in Physical Chemistry*, **2006**, 25, 497-526	7	107
126	Long range intermolecular forces in triatomic systems: connecting the atom□diatom and atom□atom□atom representations. *Molecular Physics*, **2006**, 104, 23-31	1.7	30
125	Calculating energy levels of isomerizing tetra-atomic molecules. II. The vibrational states of acetylene and vinylidene. *Journal of Chemical Physics*, **2005**, 122, 064309	3.9	45

124	Ultracold Li + Li2 collisions: bosonic and fermionic cases. *Physical Review Letters*, **2005**, 94, 033201	7.4	90
123	Ultracold collisions involving heteronuclear alkali metal dimers. *Physical Review Letters*, **2005**, 94, 200402	7.4	69
122	Ultracold quantum dynamics: Spin-polarized K+K2 collisions with three identical bosons or fermions. *Physical Review A*, **2005**, 71,	2.6	67
121	Ar(n)HF van der Waals clusters revisited: II. Energetics and HF vibrational frequency shifts from diffusion Monte Carlo calculations on additive and nonadditive potential-energy surfaces for n=1-12. *Journal of Chemical Physics*, **2005**, 123, 054305	3.9	17
120	Interaction of NH(X3Sigma-) molecules with rubidium atoms: implications for sympathetic cooling and the formation of extremely polar molecules. *Physical Review Letters*, **2004**, 92, 163202	7.4	53
119	New vibration□otation code for tetraatomic molecules exhibiting wide-amplitude motion: WAVR4. *Computer Physics Communications*, **2004**, 163, 117-131	4.2	47
118	Calculating energy levels of isomerizing tetra-atomic molecules. I. The rovibrational bound states of Ar2HF. *Journal of Chemical Physics*, **2003**, 118, 4896-4904	3.9	24
117	Potential energy surfaces and bound states for the open-shell van der Waals cluster Br□HF. *Journal of Chemical Physics*, **2003**, 119, 8873-8881	3.9	22
116	Three-body nonadditive forces between spin-polarized alkali-metal atoms. *Physical Review A*, **2003**, 67,	2.6	61
115	Clusters containing open-shell molecules. III. Quantum five-dimensional/two-surface bound-state calculations on ArnOH van der Waals clusters (X2□n=4 to 12). *Journal of Chemical Physics*, **2002**, 117, 4787-4799	3.9	6
114	Quantum dynamics of ultracold Na+ Na2 collisions. *Physical Review Letters*, **2002**, 89, 153201	7.4	120
113	Clusters containing open-shell molecules. II. Equilibrium structures of ArnOH Van der Waals clusters (X2□n=1 to 15). *Journal of Chemical Physics*, **2002**, 117, 4777-4786	3.9	11
112	Microwave electronic spectrum of the Ne?Ne+ long-range complex: The interaction potential. *Journal of Chemical Physics*, **2002**, 116, 3662-3669	3.9	26
111	Near-dissociation states and coupled potential curves for the HeN+ complex. *Journal of Chemical Physics*, **2002**, 117, 3109-3119	3.9	4
110	Anisotropic intermolecular forces. I. Rare gas□ydrogen chloride systems. *Molecular Physics*, **2002**, 100, 151-164	1.7	
109	Morphing the He□OCS intermolecular potential. *Journal of Chemical Physics*, **2001**, 115, 5059-5065	3.9	50
108	Clusters containing open-shell molecules: minimum-energy structures and low-lying isomers of ArnCH (X 2 pi), n = 1 to 15. *Faraday Discussions*, **2001**, 405-17; discussion 419-31	3.6	11
107	Regular and irregular vibrational states: Localized anharmonic modes and transition-state spectroscopy of Na3. *Journal of Chemical Physics*, **2000**, 112, 3214-3219	3.9	5

106	On the long-range and short-range behavior of potentials from reproducing kernel Hilbert space interpolation. *Journal of Chemical Physics*, **2000**, 112, 4415-4416	3.9	63
105	Potential energy surfaces and properties of the Br–Br complex. *Physical Chemistry Chemical Physics*, **2000**, 2, 441-446	3.6	19
104	Intermolecular potential energy surfaces and bound states in F–F. *Journal of Chemical Physics*, **2000**, 112, 592-600	3.9	25
103	A failing of coupled-states calculations for inelastic and pressure-broadening cross sections: Calculations on CO2–Ar. *Journal of Chemical Physics*, **1999**, 111, 5824-5828	3.9	14
102	Regular and irregular vibrational states: Localized anharmonic modes in Ar3. *Journal of Chemical Physics*, **1999**, 110, 902-911	3.9	28
101	Predictions of microwave and far-infrared transitions in He-H+2. *Monthly Notices of the Royal Astronomical Society*, **1999**, 302, 790-792	4.3	8
100	Morphing ab initio potentials: A systematic study of Ne–F. *Journal of Chemical Physics*, **1999**, 110, 8338-8347	3.9	120
99	Nonadditive intermolecular forces in Arn–F van der Waals clusters: Effects on the HF vibrational frequency shift. *Journal of Chemical Physics*, **1999**, 111, 8378-8383	3.9	27
98	Properties of H+ 2 relevant to the He–H+ 2 intermolecular potential: asymptotically increasing multipole moments, polarizabilities and dispersion coefficients. *Molecular Physics*, **1999**, 96, 457-462	1.7	1
97	The potential energy surface and near-dissociation states of He-H2+. *Journal of Chemical Physics*, **1999**, 110, 3418-3427	3.9	37
96	Properties of H+2 relevant to the He-H2 intermolecular potential: asymptotically increasing multipole moments, polarizabilities and dispersion coefficients. *Molecular Physics*, **1999**, 96, 457-462	1.7	3
95	Phase Space Structures in 3 and 4 Degrees of Freedom: Application to Chemical Reactions **1999**, 295-299		1
94	Energy corrected sudden calculations of linewidths and line shapes based on coupled states cross sections: The test case of CO2–rgon. *Journal of Chemical Physics*, **1998**, 109, 6338-6345	3.9	13
93	Total differential cross sections for Ar–H4 from an ab initio potential. *Journal of Chemical Physics*, **1998**, 108, 4849-4853	3.9	10
92	Non-additive intermolecular forces from the spectroscopy of Van der Waals trimers: A comparison of Ar2–F and Ar2–Cl, including H/D isotope effects. *Journal of Chemical Physics*, **1997**, 106, 6288-6301	3.9	51
91	Line shape, transport and relaxation properties from intermolecular potential energy surfaces: The test case of CO2–Ar. *Journal of Chemical Physics*, **1997**, 107, 1824-1834	3.9	26
90	I-NoLLS: A program for interactive nonlinear least-squares fitting of the parameters of physical models. *Computer Physics Communications*, **1997**, 102, 252-268	4.2	55
89	The intermolecular potential energy surface for CO2–Ar: Fitting to high-resolution spectroscopy of Van der Waals complexes and second virial coefficients. *Journal of Chemical Physics*, **1996**, 105, 9130-9140	3.9	72

88	Rotationally inelastic scattering in CH4+He, Ne, and Ar: State-to-state cross sections via direct infrared laser absorption in crossed supersonic jets. *Journal of Chemical Physics*, **1996**, 105, 3497-3516	3.9	39
87	Observation of a microwave spectrum of the long-range He H2+ complex. *Chemical Physics Letters*, **1996**, 260, 395-405	2.5	31
86	An evaluation of existing potential energy surfaces for CO2 Ar: Pressure broadening and high-resolution spectroscopy of van der Waals complexes. *Journal of Chemical Physics*, **1996**, 104, 2156-2166	3.9	53
85	The potential energy surface of He HCN determined by fitting to high-resolution spectroscopic data. *Journal of Chemical Physics*, **1996**, 105, 440-450	3.9	40
84	Microwave spectroscopy and interaction potential of the long-range He?Kr+ ion: An example of Hund s case (e). *Journal of Chemical Physics*, **1996**, 105, 8602-8614	3.9	27
83	Calculations of line width and shift cross sections for HC1 in Ar. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **1995**, 53, 153-164	2.1	12
82	Microwave spectroscopy and interaction potential of the long-range He...Ar+ ion. *Journal of Chemical Physics*, **1995**, 102, 2379-2403	3.9	62
81	A classical trajectory study of Ar+Ar2 collisions: Phase space structures in three degrees of freedom. *Journal of Chemical Physics*, **1995**, 103, 9218-9227	3.9	8
80	Calculations of the spectra of rare gas dimers and trimers: Implications for additive and nonadditive intermolecular forces in Ne2 Ar, Ne2 Kr, Ne2 Xe, Ar2 Ne, Ar3, Ar2 Kr and Ar2 Xe. *Journal of Chemical Physics*, **1995**, 103, 3386-3391	3.9	27
79	Nonadditive intermolecular forces from the spectroscopy of van der Waals trimers: A theoretical study of Ar2-HF. *Physical Review A*, **1995**, 51, 239-250	2.6	64
78	A systematic model potential for Li+-H2O. *Molecular Physics*, **1995**, 84, 879-898	1.7	11
77	Calculating nuclear quadrupole coupling constants for van der Waals complexes. *Molecular Physics*, **1995**, 84, 185-199	1.7	32
76	Vibrational relaxation of CO (v=1) by inelastic collisions with 3He and 4He. *Journal of Chemical Physics*, **1995**, 103, 2528-2537	3.9	29
75	The influence of the ionisation potential on the simulated ion signal from femtosecond pump-probe experiments. *Chemical Physics Letters*, **1995**, 236, 547-552	2.5	3
74	Atom-Molecule van der Waals Complexes Containing Open-Shell Atoms. 2. The Bound States of Cl-HCl. *The Journal of Physical Chemistry*, **1994**, 98, 5844-5854		64
73	Wavepacket calculations of femtosecond pump-probe experiments on the sodium trimer. *The Journal of Physical Chemistry*, **1994**, 98, 11428-11438		15
72	Signatures of large amplitude motion in a weakly bound complex: High-resolution IR spectroscopy and quantum calculations for HeCO2. *Journal of Chemical Physics*, **1994**, 101, 8351-8363	3.9	85
71	Bound-state wave functions from coupled channel calculations using log-derivative propagators: Application to spectroscopic intensities in Ar HF. *Journal of Chemical Physics*, **1994**, 101, 5578-5584	3.9	25

70	On the choice of inertial axes for interpreting spectroscopic properties of van der Waals complexes. *Journal of Chemical Physics*, **1994**, 101, 5438-5440	3.9	23
69	Coupled channel methods for solving the bound-state Schrödinger equation. *Computer Physics Communications*, **1994**, 84, 1-18	4.2	123
68	On the rotational constants of floppy molecules. *Chemical Physics Letters*, **1994**, 222, 257-262	2.5	44
67	Atom–molecule van der Waals complexes containing open-shell atoms. I. General theory and bending levels. *Journal of Chemical Physics*, **1994**, 101, 1939-1958	3.9	85
66	Spectral line shape parameters for HF in a bath of Ar are accurately predicted by a potential inferred from spectra of the van der Waals dimer. *Journal of Chemical Physics*, **1994**, 100, 891-898	3.9	51
65	Atom-spherical top van der Waals complexes: A theoretical study. *Journal of Chemical Physics*, **1994**, 100, 2505-2521	3.9	39
64	Non-additive intermolecular forces from the spectroscopy of Van der Waals trimers: the effect of monomer vibrational excitation in Ar2–HF and Ar2–HCl. *Faraday Discussions*, **1994**, 97, 119-129	3.6	23
63	Non-additive intermolecular forces from the spectroscopy of van der Waals trimers: far-infrared spectra and calculations on Ar2-DCl. *Molecular Physics*, **1994**, 81, 579-598	1.7	41
62	Methods for calculating the bound state energies of van der Waals trimers: Applications to Ar3. *Journal of Chemical Physics*, **1993**, 98, 2160-2169	3.9	53
61	Physical origin of oscillations in the three-dimensional collision amplitudes of heavy–light–heavy systems. Semiclassical quantization of chaotic scattering. *Journal of Chemical Physics*, **1993**, 98, 3929-3944	3.9	24
60	The Ar–HF intermolecular potential: Overtone spectroscopy and ab initio calculations. *Journal of Chemical Physics*, **1993**, 99, 9337-9349	3.9	67
59	Nonadditive intermolecular forces from the spectroscopy of van der Waals trimers: Calculations on Ar2–HCl. *Journal of Chemical Physics*, **1993**, 98, 5337-5351	3.9	90
58	Potential energy surfaces for Ar–OH (X 2) obtained by fitting to high-resolution spectroscopy. *Journal of Chemical Physics*, **1993**, 99, 7477-7486	3.9	46
57	A new direct infrared laser absorption method for state-to-state rotational energy transfer in crossed supersonic jets: Experimental results and quantum scattering analysis for Ar+CH4. *Journal of Chemical Physics*, **1993**, 98, 9513-9521	3.9	15
56	Vibrational dependence of the anisotropic intermolecular potential of argon-hydrogen chloride. *The Journal of Physical Chemistry*, **1992**, 96, 4237-4247		163
55	Vibrational dependence of the anisotropic intermolecular potential of Ar–HF. *Journal of Chemical Physics*, **1992**, 96, 6752-6767	3.9	265
54	A spectroscopic puzzle in ArHF solved: The test of a new potential. *Journal of Chemical Physics*, **1992**, 97, 8009-8018	3.9	46
53	Parity doubling in open-shell van der Waals complexes. *Chemical Physics Letters*, **1992**, 193, 355-363	2.5	46

52	The intermolecular potential of Ar-acetylene. Information from infrared and microwave spectroscopy. *Chemical Physics Letters*, **1992**, 198, 1-8	2.5	28
51	Classical Path Methods for Lineshape Cross Sections **1992**, 57-72		
50	The dynamics of open-shell Van der Waals complexes. *Journal of Chemical Physics*, **1991**, 94, 7602-7618	3.9	150
49	Exact and approximate calculations for the effect of potential anisotropy on integral and differential cross-sections: Ar–N2 rotationally inelastic scattering. *Journal of the Chemical Society, Faraday Transactions*, **1990**, 86, 1649-1657		10
48	Atom–symmetric top van der Waals complexes: Angular momentum coupling in Ar–H2O. *Journal of Chemical Physics*, **1990**, 92, 157-168	3.9	102
47	Dynamics of Van der Waals Complexes: Beyond Atom-Diatom Systems. *NATO ASI Series Series B: Physics*, **1990**, 67-79		
46	Anisotropic intermolecular potentials. III. Rare-gas–hydrogen bromide systems. *Journal of Chemical Physics*, **1989**, 91, 4455-4461	3.9	54
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