

# Jeremy M Hutson

## List of Publications by Year in descending order

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240  
papers

12,105  
citations

20817

60  
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34986

98  
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241  
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241  
docs citations

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times ranked

3351  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved characterization of Feshbach resonances and interaction potentials between $\text{Na}^{23}$ and $\text{Rb}^{87}$ atoms. Physical Review A, 2022, 105, .	2.5	5
2	Feshbach resonances and molecule formation in ultracold mixtures of Rb and Yb(P3) atoms. Physical Review A, 2022, 105, .	2.5	2
3	Toward a coherent ultracold chemistry. Science, 2022, 375, 975-976.	12.6	1
4	Collisions between Ultracold Molecules and Atoms in a Magnetic Trap. Physical Review Letters, 2021, 126, 153401.	7.8	31
5	Preparation of one $^{87}\text{Rb}$ and one $^{133}\text{Cs}$ atom in a single optical tweezer. New Journal of Physics, 2021, 23, 065002.	2.9	17
6	Collisions in a dual-species magneto-optical trap of molecules and atoms. New Journal of Physics, 2021, 23, 075004.	2.9	7
7	Coherent Optical Creation of a Single Molecule. Physical Review X, 2021, 11, .	8.9	8
8	Robust storage qubits in ultracold polar molecules. Nature Physics, 2021, 17, 1149-1153.	16.7	38
9	Lee-Huang-Yang effects in the ultracold mixture of $\text{Na}^{23}$ and $\text{Rb}^{87}$ with attractive interspecies interactions. Physical Review Research, 2021, 3, .	3.6	36
10	Magnetic Feshbach resonances in collisions of $^{23}\text{Na}^{40}\text{K}$ with $^{40}\text{K}$ . New Journal of Physics, 2021, 23, 115010.	2.9	25
11	Molecule-atom collisions with ultracold RbCs molecules. New Journal of Physics, 2021, 23, 125004.	2.9	20
12	Complexes formed in collisions between ultracold alkali-metal diatomic molecules and atoms. New Journal of Physics, 2021, 23, 125008.	2.9	14
13	Ultracold polar molecules as qubits. New Journal of Physics, 2020, 22, 013027.	2.9	84
14	Prospects of Forming High-Spin Polar Molecules from Ultracold Atoms. Physical Review X, 2020, 10, .	8.9	5
15	Observation of Efimov Universality across a Nonuniversal Feshbach Resonance in $\text{K}^{39}$ . Physical Review Letters, 2020, 125, 243401.	7.8	23
16	Microwave coherent control of ultracold ground-state molecules formed by short-range photoassociation. Physical Chemistry Chemical Physics, 2020, 22, 13002-13007.	2.8	5
17	Robust entangling gate for polar molecules using magnetic and microwave fields. Physical Review A, 2020, 101, .	2.5	47
18	Forming a Single Molecule by Magnetoassociation in an Optical Tweezer. Physical Review Letters, 2020, 124, 253401.	7.8	46

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19	Long Rotational Coherence Times of Molecules in a Magnetic Trap. <i>Physical Review Letters</i> , 2020, 124, 063001.	7.8	28
20	Controlling the ac Stark effect of RbCs with dc electric and magnetic fields. <i>Physical Review A</i> , 2020, 102, .	2.5	14
21	Characterizing quasibound states and scattering resonances. <i>Physical Review Research</i> , 2020, 2, .	3.6	6
22	Ultracold collisions in the Yb-Li mixture system. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 062005.	0.4	0
23	Inelastic collisions in radiofrequency-dressed mixtures of ultracold atoms. <i>Physical Review Research</i> , 2020, 2, .	3.6	2
24	Ultracold collisions of Cs atoms in excited Zeeman and hyperfine states. <i>Physical Review A</i> , 2019, 100, .	2.5	5
25	Sticky collisions of ultracold RbCs molecules. <i>Nature Communications</i> , 2019, 10, 3104.	12.8	79
26	Magnetic Feshbach resonances in ultracold collisions between Cs and Yb atoms. <i>Physical Review A</i> , 2019, 100, .	2.5	12
27	molscat: A program for non-reactive quantum scattering calculations on atomic and molecular collisions. <i>Computer Physics Communications</i> , 2019, 241, 9-18.	7.5	71
28	bound&and field: Programs for calculating bound states of interacting pairs of atoms and molecules. <i>Computer Physics Communications</i> , 2019, 241, 1-8.	7.5	29
29	Microwave shielding of ultracold polar molecules with imperfectly circular polarization. <i>Physical Review A</i> , 2019, 100, .	2.5	17
30	Ultracold molecules for quantum simulation: rotational coherences in CaF and RbCs. <i>Quantum Science and Technology</i> , 2019, 4, 014010.	5.8	96
31	Time delays in ultracold atomic and molecular collisions. <i>Physical Review Research</i> , 2019, 1, .	3.6	5
32	Hyperfine structure of $\text{Cs}_2$ molecules containing alkaline-earth-metal atoms. <i>Physical Review A</i> , 2018, 97, .	2.5	14
33	Near-threshold bound states of the dipole-dipole interaction. <i>Physical Review A</i> , 2018, 98, .	2.5	4
34	Microwave Shielding of Ultracold Polar Molecules. <i>Physical Review Letters</i> , 2018, 121, 163401.	7.8	66
35	Two-photon photoassociation spectroscopy of CsYb: Ground-state interaction potential and interspecies scattering lengths. <i>Physical Review A</i> , 2018, 98, .	2.5	29
36	Production of ultracold $\text{Cs}_2$ molecules by photoassociation. <i>Physical Review A</i> , 2018, 97, .	2.5	28

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37	Observation of Feshbach resonances between alkali and closed-shell atoms. Nature Physics, 2018, 14, 881-884.	16.7	70
38	Observation of interspecies Feshbach resonances in an ultracold $K$ mixture and refinement of interaction potentials. Physical Review A, 2017, 95, .	2.5	24
39	Characterizing Feshbach resonances in ultracold scattering calculations. Physical Review A, 2017, 96, .	2.5	14
40	Inelastic losses in radio-frequency-dressed traps for ultracold atoms. Physical Review A, 2017, 96, .	2.5	4
41	Atomic Clock Measurements of Quantum Scattering Phase Shifts Spanning Feshbach Resonances at Ultralow Fields. Physical Review Letters, 2017, 119, 113401.	7.8	5
42	ac Stark effect in ultracold polar $Rb$ molecules. Physical Review A, 2017, 96, .	2.5	27
43	Interspecies thermalization in an ultracold mixture of Cs and Yb in an optical trap. Physical Review A, 2017, 96, .	2.5	19
44	Hyperfine structure of alkali-metal diatomic molecules. Physical Review A, 2017, 96, .	2.5	34
45	Creating Feshbach resonances for ultracold molecule formation with radio-frequency fields. Physical Review A, 2016, 94, .	2.5	12
46	Production of Ultracold $^{87}Rb^{133}Cs$ in the Absolute Ground State: Complete Characterisation of the Stimulated Raman Adiabatic Passage Transfer. ChemPhysChem, 2016, 17, 3811-3817.	2.1	26
47	Deviations from Born-Oppenheimer mass scaling in spectroscopy and ultracold molecular physics. Journal of Molecular Spectroscopy, 2016, 330, 43-56.	1.2	26
48	Measurement of the binding energy of ultracold $Rb$ molecules using an offset-free optical frequency comb. Physical Review A, 2016, 93, .	2.5	16
49	Measurement of the binding energy of ultracold $Yb$ molecules using an offset-free optical frequency comb. Physical Review A, 2016, 93, .	2.5	15
50	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, .	2.5	24
51	Controlling the rotational and hyperfine state of ultracold $Rb$ molecules. Physical Review A, 2016, 93, .	2.5	41
52	Modeling sympathetic cooling of molecules by ultracold atoms. Physical Review A, 2015, 92, .	2.5	47
53	Cold atomic and molecular collisions: approaching the universal loss regime. New Journal of Physics, 2015, 17, 045019.	2.9	25
54	Creation of Ultracold $Rb$ Molecules. Physical Review A, 2015, 92, .	7.8	369

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55	Contrasting the wide Feshbach resonances in Li6 and Li7. Physical Review A, 2014, 89, .	2.5	40
56	Three-body parameter for Efimov states in $^6\text{Li}$ . Physical Review A, 2014, 90, .	2.5	23
57	Feshbach resonances, molecular bound states, and prospects of ultracold-molecule formation in mixtures of ultracold K and Cs. Physical Review A, 2014, 90, .	2.5	22
58	Reactions between cold methyl halide molecules and alkali-metal atoms. Journal of Chemical Physics, 2014, 140, 014303.	3.0	3
59	Collision cross sections for the thermalization of cold gases. Physical Review A, 2014, 89, .	2.5	9
60	Effective-range approximations for resonant scattering of cold atoms. Physical Review A, 2014, 89, .	2.5	29
61	Observation of the Second Triatomic Resonance in Efimov's Scenario. Physical Review Letters, 2014, 112, 190401.	7.8	120
62	Ultracold Dense Samples of Dipolar RbCs Molecules in the Rovibrational and Hyperfine Ground State. Physical Review Letters, 2014, 113, 205301.	7.8	419
63	Production of optically trapped RbCs Feshbach molecules. Physical Review A, 2014, 89, .	2.5	55
64	Multichannel quantum defect theory for cold molecular collisions with a strongly anisotropic potential energy surface. Physical Review A, 2013, 87, .	2.5	3
65	Feshbach resonances, weakly bound molecular states, and coupled-channel potentials for cesium at high magnetic fields. Physical Review A, 2013, 87, .	2.5	88
66	Feshbach resonances in ultracold $^85\text{Rb}$ . Physical Review A, 2013, 87, .	2.5	31
67	Ultracold Hydrogen Atoms: A Versatile Coolant to Produce Ultracold Molecules. Physical Review Letters, 2013, 111, 203004.	7.8	12
68	Precise Characterization of $^6\text{Li}$ Feshbach Resonances Using Trap-Sideband-Resolved RF Spectroscopy of Weakly Bound Molecules. Physical Review Letters, 2013, 110, 115301.	7.8	183
69	Prospects of forming ultracold molecules in $^6\text{Li}$ states by magnetoassociation of alkali-metal atoms with Yb. Physical Review A, 2013, 87, .	2.5	67
70	Sympathetic cooling of fluorine atoms with ultracold atomic hydrogen. Physical Review A, 2013, 88, .	2.5	7
71	Feshbach spectroscopy of an ultracold mixture of $^85\text{Rb}$ and $^6\text{Li}$ . Physical Review A, 2013, 87, .	2.5	25
72	Magnetically tunable Feshbach resonances in $^6\text{Li}$ . Physical Review A, 2013, 87, .	2.5	21

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73	Optimized multichannel quantum defect theory for cold molecular collisions. <i>Physical Review A</i> , 2012, 86, .	2.5	10
74	Towards the production of ultracold ground-state RbCs molecules: Feshbach resonances, weakly bound states, and the coupled-channel model. <i>Physical Review A</i> , 2012, 85, .	2.5	131
75	Magnetically Tunable Feshbach Resonances in Ultracold Li-Yb Mixtures. <i>Physical Review Letters</i> , 2012, 108, 043201.	7.8	71
76	Cold collisions of N ( $^4S$ ) atoms and NH ( $^3\hat{\Sigma}$ ) molecules in magnetic fields. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 3669-3680.	2.8	35
77	Cold collisions of an open-shell S-state atom with a $2\hat{\Sigma}$ molecule: N( $4S$ ) colliding with OH in a magnetic field. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 19077.	2.8	5
78	Optically induced conical intersections in traps for ultracold atoms and molecules. <i>Physical Review A</i> , 2011, 84, .	2.5	5
79	Cold and ultracold NH-NH collisions in magnetic fields. <i>Physical Review A</i> , 2011, 83, .	2.5	38
80	Prospects for sympathetic cooling of molecules in electrostatic, ac and microwave traps. <i>European Physical Journal D</i> , 2011, 65, 141-149.	1.3	29
81	The prospects of sympathetic cooling of NH molecules with Li atoms. <i>European Physical Journal D</i> , 2011, 65, 151-160.	1.3	40
82	Topical issue on cold quantum matter. <i>European Physical Journal D</i> , 2011, 65, 1-2.	1.3	2
83	Effect of hyperfine interactions on ultracold molecular collisions: NH( $3\hat{\Sigma}^+$ ) with Mg( $1S$ ) in magnetic fields. <i>Physical Review A</i> , 2011, 84, .	2.5	24
84	Multichannel quantum defect theory for cold molecular collisions. <i>Physical Review A</i> , 2011, 84, .	2.5	35
85	Large Effects of Electric Fields on Atom-Molecule Collisions at Millikelvin Temperatures. <i>Physical Review Letters</i> , 2011, 106, 193201.	7.8	58
86	Universality of the Three-Body Parameter for Efimov States in Ultracold Cesium. <i>Physical Review Letters</i> , 2011, 107, 120401.	7.8	180
87	Interaction between LiH molecule and Li atom from state-of-the-art electronic structure calculations. <i>Journal of Chemical Physics</i> , 2011, 134, 114109.	3.0	36
88	Cold and ultracold NH $\leftrightarrow$ NH collisions: The field-free case. <i>Journal of Chemical Physics</i> , 2011, 134, 124309.	3.0	20
89	Ultracold Chemistry. <i>Science</i> , 2010, 327, 788-789.	12.6	32
90	An ultracold high-density sample of rovibronic ground-state molecules in an optical lattice. <i>Nature Physics</i> , 2010, 6, 265-270.	16.7	308

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91	Hyperfine structure in the microwave spectra of ultracold polar molecules. <i>New Journal of Physics</i> , 2010, 12, 043015.	2.9	18
92	Reactions of ultracold alkali-metal dimers. <i>Physical Review A</i> , 2010, 81, .	2.5	202
93	Ultracold RbSr Molecules Can Be Formed by Magnetoassociation. <i>Physical Review Letters</i> , 2010, 105, 153201.	7.8	105
94	Dramatic Reductions in Inelastic Cross Sections for Ultracold Collisions near Feshbach Resonances. <i>Physical Review Letters</i> , 2009, 103, 163201.	7.8	29
95	Manipulating ultracold polar molecules with microwave radiation: The influence of hyperfine structure. <i>Physical Review A</i> , 2009, 80, .	2.5	40
96	Conical Intersections in Laboratory Coordinates with Ultracold Molecules. <i>Physical Review Letters</i> , 2009, 103, 083201.	7.8	17
97	Production of Ultracold NH Molecules by Sympathetic Cooling with Mg. <i>Physical Review Letters</i> , 2009, 103, 183201.	7.8	74
98	Stimulating the production of deeply bound RbCs molecules with laser pulses: the role of spin-orbit coupling in forming ultracold molecules. <i>New Journal of Physics</i> , 2009, 11, 055011.	2.9	36
99	Low-energy collisions of ultracold Rb atoms. <i>Physical Review A</i> , 2009, 79, .	2.5	54
100	Hyperfine energy levels of alkali-metal dimers: Ground-state homonuclear molecules in magnetic fields. <i>Physical Review A</i> , 2009, 79, .	2.5	35
101	Prospects for sympathetic cooling of polar molecules: NH with alkali-metal and alkaline-earth atoms – a new hope. <i>Faraday Discussions</i> , 2009, 142, 191.	3.2	40
102	Theory of Cold Atomic and Molecular Collisions. , 2009, , .		1
103	Hyperfine energy levels of alkali-metal dimers: Ground-state polar molecules in electric and magnetic fields. <i>Physical Review A</i> , 2008, 78, .	2.5	100
104	Large-amplitude quantum mechanics in polyatomic hydrides. II. A particle-on-a-sphere model for $XH_n$ ( $n=4,5$ ). <i>Journal of Chemical Physics</i> , 2008, 128, 094306.	3.0	24
105	Prospects for producing ultracold $NH_3$ molecules by sympathetic cooling: A survey of interaction potentials. <i>Physical Review A</i> , 2008, 78, .	2.5	38
106	Avoided crossings between bound states of ultracold cesium dimers. <i>Physical Review A</i> , 2008, 78, .	2.5	40
107	Interactions and dynamics in $Li+Li_2$ ultracold collisions. , <i>Journal of Chemical Physics</i> , 2007, 127, 074302.	3.0	61
108	Cold collisions between OH and Rb: The field-free case. <i>Physical Review A</i> , 2007, 75, .	2.5	49

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109	Feshbach resonances in ultracold atomic and molecular collisions: threshold behaviour and suppression of poles in scattering lengths. <i>New Journal of Physics</i> , 2007, 9, 152-152.	2.9	105
110	Ultracold atom-molecule collisions and bound states in magnetic fields: Tuning zero-energy Feshbach resonances in $\text{He} \sim \text{NH}(\tilde{1}\tilde{\Lambda}^{\sim}3)$ . <i>Physical Review A</i> , 2007, 75, .	2.5	79
111	Molecular collisions in ultracold atomic gases. <i>International Reviews in Physical Chemistry</i> , 2007, 26, 1-28.	2.3	68
112	Long range intermolecular forces in triatomic systems: connecting the atomâ€“diatom and atomâ€“atomâ€“atom representations. <i>Molecular Physics</i> , 2006, 104, 23-31.	1.7	31
113	Roger E. Miller. <i>International Reviews in Physical Chemistry</i> , 2006, 25, 1-3.	2.3	1
114	Ab initio potential energy surfaces, bound states, and electronic spectrum of the $\text{Ar} \sim \text{SH}$ complex. <i>Journal of Chemical Physics</i> , 2006, 125, 184312.	3.0	10
115	Ultracold Rb-OH Collisions and Prospects for Sympathetic Cooling. <i>Physical Review Letters</i> , 2006, 97, 183201.	7.8	97
116	Molecule formation in ultracold atomic gases. <i>International Reviews in Physical Chemistry</i> , 2006, 25, 497-526.	2.3	114
117	Calculating energy levels of isomerizing tetra-atomic molecules. II. The vibrational states of acetylene and vinylidene. <i>Journal of Chemical Physics</i> , 2005, 122, 064309.	3.0	48
118	Ultracold $\text{Li} + \text{Li}_2$ Collisions: Bosonic and Fermionic Cases. <i>Physical Review Letters</i> , 2005, 94, 033201.	7.8	96
119	Ultracold Collisions Involving Heteronuclear Alkali Metal Dimers. <i>Physical Review Letters</i> , 2005, 94, 200402.	7.8	71
120	Ultracold quantum dynamics: Spin-polarized $\text{K} + \text{K}_2$ collisions with three identical bosons or fermions. <i>Physical Review A</i> , 2005, 71, .	2.5	72
121	$\text{Ar} \sim \text{HF}$ 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 $n=1-12$ . <i>Journal of Chemical Physics</i> , 2005, 123, 054305.	3.0	18
122	Interaction of $\text{NH}(\tilde{X} \sim \tilde{1}\tilde{\Lambda}^{\sim}3)$ Molecules with Rubidium Atoms: Implications for Sympathetic Cooling and the Formation of Extremely Polar Molecules. <i>Physical Review Letters</i> , 2004, 92, 163202.	7.8	57
123	New vibrationâ€“rotation code for tetraatomic molecules exhibiting wide-amplitude motion: WAVR4. <i>Computer Physics Communications</i> , 2004, 163, 117-131.	7.5	53
124	Calculating energy levels of isomerizing tetra-atomic molecules. I. The rovibrational bound states of $\text{Ar}_2\text{HF}$ . <i>Journal of Chemical Physics</i> , 2003, 118, 4896-4904.	3.0	26
125	Potential energy surfaces and bound states for the open-shell van der Waals cluster $\text{Br} \sim \text{HF}$ . <i>Journal of Chemical Physics</i> , 2003, 119, 8873-8881.	3.0	22
126	Three-body nonadditive forces between spin-polarized alkali-metal atoms. <i>Physical Review A</i> , 2003, 67, .	2.5	71



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127	Clusters containing open-shell molecules. III. Quantum five-dimensional/two-surface bound-state calculations on Ar <sub>n</sub> OH van der Waals clusters (X <sup>2</sup> Σ <sup>+</sup> , n=4 to 12). Journal of Chemical Physics, 2002, 117, 4787-4799.	3.0	6
128	Quantum Dynamics of Ultracold Na + Na <sub>2</sub> Collisions. Physical Review Letters, 2002, 89, 153201.	7.8	131
129	Clusters containing open-shell molecules. II. Equilibrium structures of Ar <sub>n</sub> OH Van der Waals clusters (X <sup>2</sup> Σ <sup>+</sup> , n=1 to 15). Journal of Chemical Physics, 2002, 117, 4777-4786.	3.0	11
130	Microwave electronic spectrum of the Ne <sup>-</sup> Ne <sup>+</sup> long-range complex: The interaction potential. Journal of Chemical Physics, 2002, 116, 3662-3669.	3.0	26
131	Near-dissociation states and coupled potential curves for the HeN <sup>+</sup> complex. Journal of Chemical Physics, 2002, 117, 3109-3119.	3.0	7
132	Anisotropic intermolecular forces. I. Rare gas-hydrogen chloride systems. Molecular Physics, 2002, 100, 151-164.	1.7	0
133	Clusters containing open-shell molecules: Minimum-energy structures and low-lying isomers of Ar <sub>n</sub> CH (X <sup>2</sup> Σ <sup>+</sup> ), n=1 to 15. Faraday Discussions, 2001, 118, 405-417.	3.2	11
134	Morphing the He-OCS intermolecular potential. Journal of Chemical Physics, 2001, 115, 5059-5065.	3.0	52
135	Regular and irregular vibrational states: Localized anharmonic modes and transition-state spectroscopy of Na <sub>3</sub> . Journal of Chemical Physics, 2000, 112, 3214-3219.	3.0	6
136	On the long-range and short-range behavior of potentials from reproducing kernel Hilbert space interpolation. Journal of Chemical Physics, 2000, 112, 4415-4416.	3.0	76
137	Potential energy surfaces and properties of the Br-HBr complex. Physical Chemistry Chemical Physics, 2000, 2, 441-446.	2.8	19
138	Intermolecular potential energy surfaces and bound states in F-HF. Journal of Chemical Physics, 2000, 112, 592-600.	3.0	25
139	A failing of coupled-states calculations for inelastic and pressure-broadening cross sections: Calculations on CO <sub>2</sub> -Ar. Journal of Chemical Physics, 1999, 111, 5824-5828.	3.0	19
140	Regular and irregular vibrational states: Localized anharmonic modes in Ar <sub>3</sub> . Journal of Chemical Physics, 1999, 110, 902-911.	3.0	29
141	Predictions of microwave and far-infrared transitions in He-H <sub>2</sub> . Monthly Notices of the Royal Astronomical Society, 1999, 302, 790-792.	4.4	9
142	Morphing ab initio potentials: A systematic study of Ne-HF. Journal of Chemical Physics, 1999, 110, 8338-8347.	3.0	131
143	Nonadditive intermolecular forces in Ar <sub>n</sub> -HF van der Waals clusters: Effects on the HF vibrational frequency shift. Journal of Chemical Physics, 1999, 111, 8378-8383.	3.0	31
144	Properties of H <sub>2</sub> relevant to the He-H <sub>2</sub> intermolecular potential: asymptotically increasing multipole moments, polarizabilities and dispersion coefficients. Molecular Physics, 1999, 96, 457-462.	1.7	1

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145	The potential energy surface and near-dissociation states of He-H <sub>2</sub> <sup>+</sup> . Journal of Chemical Physics, 1999, 110, 3418-3427.	3.0	44
146	Properties of H <sub>2</sub> relevant to the He-H <sub>2</sub> intermolecular potential: asymptotically increasing multipole moments, polarizabilities and dispersion coefficients. Molecular Physics, 1999, 96, 457-462.	1.7	3
147	Phase Space Structures in 3 and 4 Degrees of Freedom: Application to Chemical Reactions. , 1999, , 295-299.		1
148	Energy corrected sudden calculations of linewidths and line shapes based on coupled states cross sections: The test case of CO <sub>2</sub> -argon. Journal of Chemical Physics, 1998, 109, 6338-6345.	3.0	18
149	Total differential cross sections for Ar-CH <sub>4</sub> from an ab initio potential. Journal of Chemical Physics, 1998, 108, 4849-4853.	3.0	11
150	Non-additive intermolecular forces from the spectroscopy of Van der Waals trimers: A comparison of Ar <sub>2</sub> -HF and Ar <sub>2</sub> -HCl, including H/D isotope effects. Journal of Chemical Physics, 1997, 106, 6288-6301.	3.0	55
151	Line shape, transport and relaxation properties from intermolecular potential energy surfaces: The test case of CO <sub>2</sub> -Ar. Journal of Chemical Physics, 1997, 107, 1824-1834.	3.0	30
152	I-NoLLS: A program for interactive nonlinear least-squares fitting of the parameters of physical models. Computer Physics Communications, 1997, 102, 252-268.	7.5	56
153	The intermolecular potential energy surface for CO <sub>2</sub> -Ar: Fitting to high-resolution spectroscopy of Van der Waals complexes and second virial coefficients. Journal of Chemical Physics, 1996, 105, 9130-9140.	3.0	80
154	Rotationally inelastic scattering in CH <sub>4</sub> +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.	3.0	43
155	Observation of a microwave spectrum of the long-range He-H <sub>2</sub> <sup>+</sup> complex. Chemical Physics Letters, 1996, 260, 395-405.	2.6	36
156	An evaluation of existing potential energy surfaces for CO <sub>2</sub> -Ar: Pressure broadening and high-resolution spectroscopy of van der Waals complexes. Journal of Chemical Physics, 1996, 104, 2156-2166.	3.0	60
157	The potential energy surface of He-HCN determined by fitting to high-resolution spectroscopic data. Journal of Chemical Physics, 1996, 105, 440-450.	3.0	43
158	Microwave spectroscopy and interaction potential of the long-range He-Kr <sup>+</sup> ion: An example of Hund's case (e). Journal of Chemical Physics, 1996, 105, 8602-8614.	3.0	33
159	The influence of the ionisation potential on the simulated ion signal from femtosecond pump-probe experiments. Chemical Physics Letters, 1995, 236, 547-552.	2.6	3
160	Calculations of line width and shift cross sections for HCl in Ar. Journal of Quantitative Spectroscopy and Radiative Transfer, 1995, 53, 153-164.	2.3	14
161	Microwave spectroscopy and interaction potential of the long-range He...Ar-ion. Journal of Chemical Physics, 1995, 102, 2379-2403.	3.0	69
162	A classical trajectory study of Ar+Ar <sub>2</sub> collisions: Phase space structures in three degrees of freedom. Journal of Chemical Physics, 1995, 103, 9218-9227.	3.0	8

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163	Calculations of the spectra of rare gas dimers and trimers: Implications for additive and nonadditive intermolecular forces in Ne <sub>2</sub> -Ar, Ne <sub>2</sub> -Kr, Ne <sub>2</sub> -Xe, Ar <sub>2</sub> -Ne, Ar <sub>3</sub> , Ar <sub>2</sub> -Kr and Ar <sub>2</sub> -Xe. <i>Journal of Chemical Physics</i> , 1995, 103, 3386-3391.	3.0	28
164	Nonadditive intermolecular forces from the spectroscopy of van der Waals trimers: A theoretical study of Ar <sub>2</sub> -HF. <i>Physical Review A</i> , 1995, 51, 239-250.	2.5	66
165	A systematic model potential for Li <sup>+</sup> -H <sub>2</sub> O. <i>Molecular Physics</i> , 1995, 84, 879-898.	1.7	11
166	Calculating nuclear quadrupole coupling constants for van der Waals complexes. <i>Molecular Physics</i> , 1995, 84, 185-199.	1.7	36
167	Vibrational relaxation of CO (v=1) by inelastic collisions with 3He and 4He. <i>Journal of Chemical Physics</i> , 1995, 103, 2528-2537.	3.0	31
168	Atom-Molecule van der Waals Complexes Containing Open-Shell Atoms. 2. The Bound States of Cl-HCl. <i>The Journal of Physical Chemistry</i> , 1994, 98, 5844-5854.	2.9	70
169	Wavepacket calculations of femtosecond pump-probe experiments on the sodium trimer. <i>The Journal of Physical Chemistry</i> , 1994, 98, 11428-11438.	2.9	15
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