

Paul S Julienne

List of Publications by Year in descending order

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232
papers

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12303

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#	ARTICLE	IF	CITATIONS
1	Feshbach resonances in ultracold gases. <i>Reviews of Modern Physics</i> , 2010, 82, 1225-1286.	16.4	2,905
2	A High Phase-Space-Density Gas of Polar Molecules. <i>Science</i> , 2008, 322, 231-235.	6.0	1,570
3	Production of cold molecules via magnetically tunable Feshbach resonances. <i>Reviews of Modern Physics</i> , 2006, 78, 1311-1361.	16.4	895
4	Experiments and theory in cold and ultracold collisions. <i>Reviews of Modern Physics</i> , 1999, 71, 1-85.	16.4	808
5	Quantum-State Controlled Chemical Reactions of Ultracold Potassium-Rubidium Molecules. <i>Science</i> , 2010, 327, 853-857.	6.0	775
6	Ultracold photoassociation spectroscopy: Long-range molecules and atomic scattering. <i>Reviews of Modern Physics</i> , 2006, 78, 483-535.	16.4	724
7	Two-orbital $SU(N)$ magnetism with ultracold alkaline-earth atoms. <i>Nature Physics</i> , 2010, 6, 289-295.	6.5	572
8	Four-wave mixing with matter waves. <i>Nature</i> , 1999, 398, 218-220.	13.7	406
9	Ultracold Molecules under Control!. <i>Chemical Reviews</i> , 2012, 112, 4949-5011.	23.0	342
10	Laser-induced photoassociation of ultracold sodium atoms. <i>Physical Review Letters</i> , 1987, 58, 2420-2423.	2.9	338
11	Efficient state transfer in an ultracold dense gas of heteronuclear molecules. <i>Nature Physics</i> , 2008, 4, 622-626.	6.5	258
12	Precise Determination of Li_6 Cold Collision Parameters by Radio-Frequency Spectroscopy on Weakly Bound Molecules. <i>Physical Review Letters</i> , 2005, 94, 103201.	2.9	234
13	Semianalytic theory of laser-assisted resonant cold collisions. <i>Physical Review A</i> , 1999, 60, 414-425.	1.0	195
14	Two-color photoassociation spectroscopy of ytterbium atoms and the precise determinations of s -wave scattering lengths. <i>Physical Review A</i> , 2008, 77, .	1.0	195
15	A spectroscopic determination of scattering lengths for sodium atom collisions. <i>Journal of Research of the National Institute of Standards and Technology</i> , 1996, 101, 505.	0.4	191
16	Manipulation of Feshbach resonances in ultracold atomic collisions using time-dependent magnetic fields. <i>Physical Review A</i> , 2000, 61, .	1.0	186
17	Feshbach resonances in fermionic Li_6 . <i>Physical Review A</i> , 2005, 71, .	1.0	185
18	Precise Characterization of Li_6 Feshbach Resonances Using Trap-Sideband-Resolved RF Spectroscopy of Weakly Bound Molecules. <i>Physical Review Letters</i> , 2013, 110, 135301.	2.9	183

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19	Universality of the Three-Body Parameter for Efimov States in Ultracold Cesium. <i>Physical Review Letters</i> , 2011, 107, 120401.	2.9	180
20	Collisions of ultracoldtrapped atoms. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1989, 6, 2257.	0.9	173
21	Universal Rate Constants for Reactive Collisions of Ultracold Molecules. <i>Physical Review Letters</i> , 2010, 104, 113202.	2.9	173
22	Measurement of the Coherence of a Bose-Einstein Condensate. <i>Physical Review Letters</i> , 1999, 83, 3112-3115.	2.9	169
23	Cold hybrid ion-atom systems. <i>Reviews of Modern Physics</i> , 2019, 91, .	16.4	163
24	Cold collisions of ground- and excited-state alkali-metal atoms. <i>Physical Review A</i> , 1991, 44, 4464-4485.	1.0	161
25	Effective-scattering-length model of ultracold atomic collisions and Feshbach resonances in tight harmonic traps. <i>Physical Review A</i> , 2002, 66, .	1.0	153
26	Prospects for influencing scattering lengths with far-off-resonant light. <i>Physical Review A</i> , 1997, 56, 1486-1491.	1.0	148
27	Photoassociation of Sodium in a Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2002, 88, 120403.	2.9	147
28	Creation of a Dipolar Superfluid in Optical Lattices. <i>Physical Review Letters</i> , 2003, 90, 110401.	2.9	147
29	Quantum computations with atoms in optical lattices: Marker qubits and molecular interactions. <i>Physical Review A</i> , 2004, 70, .	1.0	139
30	Predissociation of the Schumann-Runge bands of O ₂ . <i>Journal of Molecular Spectroscopy</i> , 1975, 56, 270-308.	0.4	137
31	Line Shapes of High Resolution Photoassociation Spectra of Optically Cooled Atoms. <i>Physical Review Letters</i> , 1994, 73, 1352-1355.	2.9	134
32	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, .	1.0	131
33	Collision Properties of Ultracold C ¹³ S Atoms. <i>Physical Review Letters</i> , 2000, 85, 2721-2724.	2.9	130
34	Photoassociative Spectroscopy of Laser-Cooled Atoms. <i>Annual Review of Physical Chemistry</i> , 1995, 46, 423-452.	4.8	129
35	Theoretical determination of bound-free absorption cross sections in Ar ⁺ . <i>Journal of Chemical Physics</i> , 1977, 67, 2860.	1.2	121
36	Observation of associative ionization of ultracold laser-trapped sodium atoms. <i>Physical Review Letters</i> , 1988, 60, 788-791.	2.9	121

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37	Measurement of the atomic Na(3 P) lifetime and of retardation in the interaction between two atoms bound in a molecule. Europhysics Letters, 1996, 35, 85-90.	0.7	121
38	Ultracold-molecule production by laser-cooled atom photoassociation. Physical Review A, 1995, 51, R4317-R4320.	1.0	120
39	Collisional Stability of Double Bose Condensates. Physical Review Letters, 1997, 78, 1880-1883.	2.9	112
40	Estimating bounds on collisional relaxation rates of spin-polarized 87Rb atoms at ultracold temperatures. Journal of Research of the National Institute of Standards and Technology, 1996, 101, 521.	0.4	106
41	Quantum theory of ultracold atom-ion collisions. Physical Review A, 2009, 79, .	1.0	104
42	Stimulated Raman molecule production in Bose-Einstein condensates. Physical Review A, 1998, 58, R797-R800.	1.0	101
43	Optical tuning of the scattering length of cold alkaline-earth-metal atoms. Physical Review A, 2005, 71, .	1.0	101
44	Probing Interactions Between Ultracold Fermions. Science, 2009, 324, 360-363.	6.0	99
45	Narrow Line Photoassociation in an Optical Lattice. Physical Review Letters, 2006, 96, 203201.	2.9	98
46	Quantum Logic via the Exchange Blockade in Ultracold Collisions. Physical Review Letters, 2007, 98, 070501.	2.9	95
47	Ultracold polar molecules near quantum degeneracy. Faraday Discussions, 2009, 142, 351.	1.6	95
48	Adiabatic association of ultracold molecules via magnetic-field tunable interactions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 3457-3500.	0.6	92
49	Heteronuclear molecules in an optical dipole trap. Physical Review A, 2008, 78, .	1.0	92
50	Cascade and radiation trapping effects on atmospheric atomic oxygen emission excited by electron impact. Journal of Geophysical Research, 1976, 81, 1397-1403.	3.3	88
51	Feshbach resonances, weakly bound molecular states, and coupled-channel potentials for cesium at high magnetic fields. Physical Review A, 2013, 87, .	1.0	88
52	Cold binary atomic collisions in a light field. Journal of Research of the National Institute of Standards and Technology, 1996, 101, 487.	0.4	87
53	A multichannel quantum defect analysis of two- ϵ state couplings in diatomic molecules. Journal of Chemical Physics, 1984, 80, 2526-2536.	1.2	85
54	Theory of four-wave mixing of matter waves from a Bose-Einstein condensate. Physical Review A, 2000, 62, .	1.0	85

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55	Theory of Collisions between Laser Cooled Atoms. <i>Advances in Atomic, Molecular and Optical Physics</i> , 1992, 30, 141-198.	2.3	81
56	Quantum encounters of the cold kind. <i>Nature</i> , 2002, 416, 225-232.	13.7	81
57	The aeronomy of odd nitrogen in the thermosphere. <i>Journal of Geophysical Research</i> , 1975, 80, 3068-3076.	3.3	79
58	Semianalytic treatment of two-color photoassociation spectroscopy and control of cold atoms. <i>Physical Review A</i> , 1996, 54, R4637-R4640.	1.0	79
59	Universal Rates for Reactive Ultracold Polar Molecules in Reduced Dimensions. <i>Physical Review Letters</i> , 2010, 105, 073202.	2.9	79
60	Ab initio calculation of the KRb dipole moments. <i>Physical Review A</i> , 2003, 68, .	1.0	77
61	Imaging of s and d Partial-Wave Interference in Quantum Scattering of Identical Bosonic Atoms. <i>Physical Review Letters</i> , 2004, 93, 173201.	2.9	77
62	coupling in the O ₂ predissociation. <i>Journal of Molecular Spectroscopy</i> , 1976, 63, 60-79.	0.4	76
63	Atom loss from Bose-Einstein condensates due to Feshbach resonance. <i>Physical Review A</i> , 1999, 60, R765-R768.	1.0	76
64	Multichannel quantum-defect theory for slow atomic collisions. <i>Physical Review A</i> , 2005, 72, .	1.0	75
65	Radio-frequency transitions on weakly bound ultracold molecules. <i>Physical Review A</i> , 2005, 71, .	1.0	74
66	Universal ultracold collision rates for polar molecules of two alkali-metal atoms. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 19114.	1.3	74
67	Interacting atoms under strong quantum confinement. <i>Physical Review A</i> , 2000, 61, .	1.0	71
68	Ultracold mixtures of atomic ^6Li and ^{133}Cs with tunable interactions. <i>Physical Review A</i> , 2013, 87, .	1.0	70
69	Nonadiabatic theory of collision-broadened atomic line profiles. <i>Physical Review A</i> , 1982, 26, 3299-3317.	1.0	69
70	Photoassociative spectroscopy of highly excited vibrational levels of alkali-metal dimers: Green-function approach for eigenvalue solvers. <i>Physical Review A</i> , 1998, 57, 4257-4267.	1.0	69
71	Multichannel quantum-defect theory for ultracold atom-ion collisions. <i>New Journal of Physics</i> , 2011, 13, 083005.	1.2	69
72	Collisional loss rate in a magneto-optical trap for sodium atoms: Light-intensity dependence. <i>Physical Review A</i> , 1993, 47, R4563-R4566.	1.0	68

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73	Simple quantum model of ultracold polar molecule collisions. <i>Physical Review A</i> , 2010, 82, .	1.0	66
74	Elastic Scattering Loss of Atoms from Colliding Bose-Einstein Condensate Wave Packets. <i>Physical Review Letters</i> , 2000, 84, 5462-5465.	2.9	63
75	Nonadiabatic theory of atomic line broadening: Redistribution calculations for Sr($1P+1S$)+Ar. <i>Physical Review A</i> , 1986, 34, 3792-3808.	1.0	61
76	A model of the Ba ϵ + \hat{D} ϵ + Rydberg ϵ valence predissociating interaction in the CO molecule. <i>Journal of Chemical Physics</i> , 1992, 96, 6735-6745.	1.2	61
77	State-to-state chemistry for three-body recombination in an ultracold rubidium gas. <i>Science</i> , 2017, 358, 921-924.	6.0	61
78	Collision-induced O $1D_2$ - $1S_0$ emission near 5577 Å... in argon. <i>Chemical Physics Letters</i> , 1976, 38, 374-381.	1.2	60
79	Excited Thomas-Efimov levels in ultracold gases. <i>Physical Review A</i> , 2007, 76, .	1.0	60
80	Universal van der Waals physics for three cold atoms near Feshbach resonances. <i>Nature Physics</i> , 2014, 10, 768-773.	6.5	60
81	Laser-Driven Collisions between Atoms in a Bose-Einstein Condensed Gas. <i>Physical Review Letters</i> , 1996, 77, 1416-1419.	2.9	59
82	Broad universal Feshbach resonances in the chaotic spectrum of dysprosium atoms. <i>Physical Review A</i> , 2015, 92, .	1.0	59
83	Ultracold Collision Properties of Metastable Alkaline-Earth Atoms. <i>Physical Review Letters</i> , 2003, 90, 063002.	2.9	58
84	Pseudopotential model of ultracold atomic collisions in quasi-one- and two-dimensional traps. <i>Physical Review A</i> , 2003, 68, .	1.0	58
85	Molecular hyperfine structure in the photoassociation spectroscopy of laser cooled atoms. <i>Journal of Chemical Physics</i> , 1994, 101, 2634-2637.	1.2	56
86	Ground-state scattering lengths for potassium isotopes determined by double-resonance photoassociative spectroscopy of ultracold ^{39}K . <i>Physical Review A</i> , 2000, 62, .	1.0	56
87	Optical Suppression of Photoassociative Ionization in a Magneto-Optical Trap. <i>Physical Review Letters</i> , 1994, 73, 1911-1914.	2.9	54
88	Collisional Frequency Shifts in ^{133}Cs Fountain Clocks. <i>Physical Review Letters</i> , 2001, 86, 3743-3746.	2.9	54
89	Calculations of collisions between cold alkaline-earth-metal atoms in a weak laser field. <i>Physical Review A</i> , 2001, 64, .	1.0	53
90	Scattering lengths in isotopologues of the RbYb system. <i>Physical Review A</i> , 2013, 88, .	1.0	53

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109	Fitting line shapes in photoassociation spectroscopy of ultracold atoms: A useful approximation. Physical Review A, 1999, 61, .	1.0	42
110	Scattering length of the ground-state Mg+Mg collision. Physical Review A, 2002, 65, .	1.0	42
111	Spontaneous Dissociation of Long-Range Feshbach Molecules. Physical Review Letters, 2005, 94, 020402.	2.9	42
112	Feshbach resonances in the 6Li-40K Fermi-Fermi mixture: elastic versus inelastic interactions. European Physical Journal D, 2011, 65, 55-65.	0.6	42
113	doublon dynamics and polar molecule production in an optical lattice. Nature Communications, 2016, 7, 11279.	5.8	42
114	Designing neutral-atom nanotraps with integrated optical waveguides. Physical Review A, 2002, 65, .	1.0	41
115	Quantum effects on curve crossing in a Bose-Einstein condensate. Physical Review A, 2002, 65, .	1.0	40
116	Avoided crossings between bound states of ultracold cesium dimers. Physical Review A, 2008, 78, .	1.0	40
117	Contrasting the wide Feshbach resonances in Li6 and Li7. Physical Review A, 2014, 89, .	1.0	40
118	Spatial separation in a thermal mixture of ultracold Yb and Rb . Physical Review A, 2015, 92, .	1.0	39
119	Optical Feshbach resonances: Field-dressed theory and comparison with experiments. Physical Review A, 2015, 92, .	1.0	39
120	Nonadiabatic theory of fine-structure branching cross sections for Na-He, Na-Ne, and Na-Ar optical collisions. Physical Review A, 1986, 34, 1856-1868.	1.0	38
121	Laser Modification of Ultracold Atomic Collisions in Optical Traps. Physical Review Letters, 1988, 61, 698-701.	2.9	37
122	Intensity effects in ultracold photoassociation line shapes. Physical Review A, 2002, 66, .	1.0	37
123	Precision Test of the Limits to Universality in Few-Body Physics. Physical Review Letters, 2019, 123, 233402.	2.9	37
124	Spin polarization and quantum-statistical effects in ultracold ionizing collisions. Physical Review A, 1999, 59, 1926-1935.	1.0	36
125	Line shapes of optical Feshbach resonances near the intercombination transition of bosonic ytterbium. Physical Review A, 2009, 80, .	1.0	36
126	Theory of rare gas $^1S \rightarrow ^1D$ collision-induced transitions. Journal of Chemical Physics, 1978, 68, 32.	1.2	35

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127	Mass effects in the theoretical determination of nuclear-spin relaxation rates for atomic hydrogen and deuterium. <i>Physical Review A</i> , 1993, 47, 1524-1527.	1.0	35
128	Multichannel quantum defect theory for cold molecular collisions. <i>Physical Review A</i> , 2011, 84, .	1.0	35
129	Auroral NO concentrations?. <i>Journal of Geophysical Research</i> , 1976, 81, 4765-4769.	3.3	34
130	Complex-potential model of collisions of laser-cooled atoms. <i>Physical Review A</i> , 1994, 49, 3890-3896.	1.0	33
131	Laser modification of ultracold atomic collisions: Theory. <i>Physical Review Letters</i> , 1991, 67, 2135-2138.	2.9	32
132	Determination of the scattering lengths of ^{39}K from 1 μ photoassociation line shapes. <i>Physical Review A</i> , 1999, 60, 4427-4438.	1.0	32
133	Analytical model of overlapping Feshbach resonances. <i>Physical Review A</i> , 2013, 88, .	1.0	32
134	Mass scaling and nonadiabatic effects in photoassociation spectroscopy of ultracold strontium atoms. <i>Physical Review A</i> , 2014, 90, .	1.0	32
135	Nonadiabatic effects in the B, C, \tilde{B}^{∞} , and D states of H_2 . <i>Journal of Molecular Spectroscopy</i> , 1973, 48, 508-529.	0.4	31
136	Radio-frequency output coupling of the Bose-Einstein condensate for atom lasers. <i>Physical Review A</i> , 1999, 59, 3823-3831.	1.0	31
137	Near-threshold photoassociation of $^{87}\text{Rb}_2$. <i>Physical Review A</i> , 2004, 69, .	1.0	31
138	Measurement and modeling of hyperfine- and rotation-induced state mixing in large weakly bound sodium dimers. <i>Physical Review A</i> , 2005, 71, .	1.0	31
139	Two-channel R-matrix analysis of magnetic-field-induced Feshbach resonances. <i>Physical Review A</i> , 2006, 73, .	1.0	31
140	Prediction of Feshbach resonances from three input parameters. <i>Physical Review A</i> , 2009, 79, .	1.0	31
141	Creation and manipulation of Feshbach resonances with radiofrequency radiation. <i>New Journal of Physics</i> , 2010, 12, 083031.	1.2	31
142	Theory of laser-induced associative ionization of ultracold Na. <i>Physical Review A</i> , 1993, 47, 1887-1906.	1.0	30
143	Ultracold collisions and optical shielding in metastable xenon. <i>Physical Review A</i> , 1996, 53, 1678-1689.	1.0	29
144	Effective-range approximations for resonant scattering of cold atoms. <i>Physical Review A</i> , 2014, 89, .	1.0	29

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145	Collisions of cold magnesium atoms in a weak laser field. <i>Physical Review A</i> , 1999, 59, R4113-R4116.	1.0	28
146	Making cold molecules by time-dependent feshbach resonances. <i>Journal of Modern Optics</i> , 2004, 51, 1787-1806.	0.6	28
147	Excited-state survival probabilities for cold collisions in a weak laser field. <i>Physical Review A</i> , 1994, 49, 3897-3902.	1.0	27
148	Quantum and semiclassical calculations of cold-atom collisions in light fields. <i>Physical Review A</i> , 1998, 57, 3724-3738.	1.0	27
149	Reflection approximation in photoassociation spectroscopy. <i>Physical Review A</i> , 2000, 62, .	1.0	27
150	Photoassociative formation of ultracold polar KRb molecules. <i>European Physical Journal D</i> , 2004, 31, 189-194.	0.6	27
151	Optical Feshbach resonances of alkaline-earth-metal atoms in a one- or two-dimensional optical lattice. <i>Physical Review A</i> , 2006, 74, .	1.0	27
152	Controlling nuclear spin exchange via optical Feshbach resonances in Y . <i>Physical Review A</i> , 2009, 80, .	1.0	27
153	First observation of the $v=3$ level of the $B^1\Sigma^+$ Rydberg state of CO. <i>Journal of Chemical Physics</i> , 1995, 102, 3956-3961.	1.2	26
154	Hyperfine structure of the $Na_2^{\tilde{A}0g^{\sim}}$ long-range molecular state. <i>Physical Review A</i> , 1996, 53, R1939-R1942.	1.0	26
155	A simple sum rule for total radiative decay rates: Comparison of quantal and classical methods for diatomics. <i>Journal of Chemical Physics</i> , 1984, 81, 5779-5785.	1.2	25
156	Feshbach spectroscopy of an ultracold mixture of Rb and Cs . <i>Physical Review A</i> , 2013, 87, .	1.0	25
157	Cold atomic and molecular collisions: approaching the universal loss regime. <i>New Journal of Physics</i> , 2015, 17, 045019.	1.2	25
158	Weakly bound molecules as sensors of new gravitylike forces. <i>Scientific Reports</i> , 2019, 9, 14807.	1.6	25
159	Role of angular momentum for atomic scattering in intense laser fields. <i>Physical Review A</i> , 1982, 25, 3399-3402.	1.0	24
160	Multi-channel modelling of the formation of vibrationally cold polar KRb molecules. <i>New Journal of Physics</i> , 2009, 11, 055043.	1.2	24
161	Improving the efficiency of ultracold dipolar molecule formation by first loading onto an optical lattice. <i>Physical Review A</i> , 2010, 81, .	1.0	24
162	Observation of interspecies Feshbach resonances in an ultracold Cs mixture and refinement of interaction potentials. <i>Physical Review A</i> , 2017, 95, .	1.0	24

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163	Intersystem crossing in collisions of aligned Ca(4s5p 1P)+He: A half collision analysis using multichannel quantum defect theory. Journal of Chemical Physics, 1990, 93, 8784-8792.	1.2	23
164	A multichannel quantum defect half-collision analysis of K ₂ photodissociation through the $\tilde{1}\Sigma^+$ state. Journal of Chemical Physics, 1991, 95, 4177-4187.	1.2	23
165	Observation of Feshbach Universality across a Nonuniversal Feshbach Resonance in K . K Physical Review Letters, 2020, 125, 243401.	2.9	23
166	Decay and revival of phase coherence of a Bose-Einstein condensate in a one-dimensional lattice. Physical Review A, 2003, 67, .	1.0	22
167	Analysis of dynamical tunneling experiments with a Bose-Einstein condensate. Physical Review A, 2004, 70, .	1.0	21
168	Observation of the pure long-range $\tilde{1}\Sigma^+$ state of an alkali-metal dimer by photoassociative spectroscopy. Physical Review A, 1998, 57, 4600-4603.	1.0	20
169	Quantum-defect model of a reactive collision at finite temperature. Physical Review A, 2014, 90, .	1.0	20
170	Molecular Production in Two Component Atomic Fermi Gases. Physical Review Letters, 2004, 93, 260403.	2.9	19
171	Beyond-Born-Oppenheimer effects in sub-kHz-precision photoassociation spectroscopy of ytterbium atoms. Physical Review A, 2017, 96, .	1.0	19
172	Nonadiabatic dynamics in evaporative cooling of trapped atoms by a radio-frequency field. Physical Review A, 1998, 58, 3983-3992.	1.0	17
173	Ultracold dimer association induced by a far-off-resonance optical lattice. Physical Review A, 2005, 71, .	1.0	16
174	Stationary phase approximation for the strength of optical Feshbach resonances. Physical Review A, 2006, 74, .	1.0	16
175	Reactive collisions in confined geometries. New Journal of Physics, 2015, 17, 035007.	1.2	16
176	Semiclassical theory of collision-induced loss from optical traps. Physical Review A, 1992, 46, 4091-4099.	1.0	15
177	Vortices in atomic-molecular Bose-Einstein condensates. Journal of Optics B: Quantum and Semiclassical Optics, 2002, 4, S33-S38.	1.4	15
178	Really cool molecules. Nature, 2003, 424, 24-25.	18.7	14
179	Simple Theoretical Models for Resonant Cold Atom Interactions. AIP Conference Proceedings, 2006, , .	0.3	14
180	Photoassociative production of ultracold heteronuclear ytterbium molecules. Physical Review A, 2011, 84, .	1.0	14

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181	Collision-Induced Radiative Transitions at Optical Frequencies. , 1985, , 749-771.		14
182	Accuracy of molecular data in the understanding of ultracold collisions. Physical Review A, 1994, 49, 607-610.	1.0	13
183	Quantum state-selected photodissociation of $K_2(B^1u_g^+X^1\Sigma_g^+)$: A case study of final state alignment in all-optical multiple resonance photodissociation. Journal of Chemical Physics, 1995, 102, 2440-2451.	1.2	13
184	Subthermal linewidths in photoassociation spectra of cold alkaline-earth-metal atoms. Physical Review A, 2002, 65, .	1.0	13
185	Two-Body Transients in Coupled Atomic-Molecular Bose-Einstein Condensates. Physical Review Letters, 2008, 100, 093001.	2.9	13
186	Resonant control of polar molecules in individual sites of an optical lattice. Physical Review A, 2012, 85, .	1.0	12
187	Rydberg optical Feshbach resonances in cold gases. Physical Review A, 2017, 96, .	1.0	12
188	Probing open- and closed-channel $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -wave resonances. Physical Review Research, 2021, 3, .	1.3	12
189	Theory of gain and saturation for collision-induced lasing transitions. Journal of Applied Physics, 1977, 48, 4140-4148.	1.1	11
190	Chaotic scattering in the presence of a dense set of overlapping Feshbach resonances. Physical Review A, 2015, 92, .	1.0	11
191	Quantum scattering of distinguishable bosons using an ultracold-atom collider. Physical Review A, 2007, 75, .	1.0	10
192	Optimized multichannel quantum defect theory for cold molecular collisions. Physical Review A, 2012, 86, .	1.0	10
193	Determination of Cs-Cs interaction parameters using Feshbach spectroscopy. Comptes Rendus Physique, 2001, 2, 633-639.	0.1	9
194	FEW-BODY PHYSICS OF ULTRACOLD ATOMS AND MOLECULES WITH LONG-RANGE INTERACTIONS. Annual Review of Cold Atoms and Molecules, 2015, , 77-134.	2.8	9
195	Cool ion chemistry. Nature Physics, 2012, 8, 642-643.	6.5	8
196	Single-Atom Transistor as a Precise Magnetic Field Sensor. Physical Review Letters, 2018, 120, 013401.	2.9	8
197	Cold atoms see the light. Physics World, 1995, 8, 42-48.	0.0	7
198	Collisional cooling of ultracold-atom ensembles using Feshbach resonances. Physical Review A, 2009, 80, .	1.0	7

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199	Spin-Conservation Propensity Rule for Three-Body Recombination of Ultracold Rb Atoms. Physical Review Letters, 2022, 128, 133401.	2.9	7
200	Trapped Electrons in Ice. Molecular Crystals, 1968, 5, 135-139.	1.2	6
201	Four-wave mixing in Bose-Einstein condensate systems with multiple spin states. Physical Review A, 2004, 70, .	1.0	6
202	Loading Bose-Einstein-condensed atoms into the ground state of an optical lattice. Physical Review A, 2005, 72, .	1.0	6
203	Ultracold atoms in quasi-one-dimensional traps: A step beyond the Lieb-Liniger model. Physical Review A, 2017, 95, .	1.0	6
204	Excitation of O ₂ 1 ^g by electron impact. Journal of Research of the National Bureau of Standards Section A Physics and Chemistry, 1972, 76A, 661.	0.6	6
205	Emission and predissociation of Li+22 ^u . Chemical Physics Letters, 1982, 87, 240-243.	1.2	5
206	Beam-loss spectroscopy of cold collisions in a bright sodium beam. Physical Review A, 2004, 69, .	1.0	5
207	Quo vadis now, cold molecules?. Nature Physics, 2018, 14, 873-874.	6.5	5
208	Complexity of Fermionic Dissipative Interactions and Applications to Quantum Computing. PRX Quantum, 2021, 2, .	3.5	5
209	Making cold molecules by time-dependent feshbach resonances. , 0, .		5
210	Efimov resonance position near a narrow Feshbach resonance in a LiCs mixture. Physical Review A, 2022, 105, .	1.0	5
211	Excitons in complex quantum nanostructures. Surface Science, 1996, 361-362, 801-804. Hyperfine and vibrational structure of weakly bound levels of the lowest Li^1g state of molecular Rb .	0.8	4
212	Chaos in the cold. Nature, 2014, 507, 440-441.	1.0	3
213	Photoassociation of spin-polarized chromium. Physical Review A, 2016, 93, .	13.7	3
214	Optical collisions in ultracold atom traps: Two-photon distorted-wave theory. Physical Review A, 1995, 52, 4029-4042.	1.0	3
215	Vibrational and electronic oscillator strengths of LiO. Journal of Research of the National Bureau of Standards Section A Physics and Chemistry, 1972, 76A, 665.	1.0	2
216		0.6	2

#	ARTICLE	IF	CITATIONS
217	Impurity States in a Linear Molecular Crystal. <i>Journal of Chemical Physics</i> , 1968, 49, 3704-3705.	1.2	1
218	Exciton binding and delocalization in T-shaped quantum wires. <i>Physica B: Condensed Matter</i> , 1996, 227, 390-392.	1.3	1
219	Cold Collisions between Laser-Cooled Magnesium Atoms. <i>Physica Scripta</i> , 2001, T95, 58.	1.2	1
220	Laser Modification of Ultracold Atomic Collisions in Optical Traps. <i>Physical Review Letters</i> , 1988, 61, 2280-2280.	2.9	0
221	Fine-structure branching ratios and atoms polarization in Na-Xe optical collisions. <i>AIP Conference Proceedings</i> , 1990, , .	0.3	0
222	Ultracold collisions: Exploring the quantum threshold regime. , 1999, , .		0
223	Nonlinear atom optics: four-wave mixing. , 2000, 3928, 272.		0
224	<title>Nonlinear atom optics: four-wave mixing</title>. , 2000, 3927, 90.		0
225	Non-linear atom optics: solitons and four-wave-mixing in a Bose-Einstein condensate. , 0, , .		0
226	Trapping atoms with evanescent light fields from integrated optical waveguides. , 2001, , .		0
227	Ultra-Cold Collisions of Atoms and Molecules. , 2002, , 1043-1067.		0
228	Cool molecules. <i>Nature</i> , 2012, 492, 364-365.	13.7	0
229	Mass scaling in photoassociation of spin-singlet atoms. <i>Journal of Physics: Conference Series</i> , 2015, 635, 092140.	0.3	0
230	Treasure of the past X - A spectroscopic determination of scattering lengths for sodium atom		