

# Eite Tiesinga

## List of Publications by Year in descending order

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37  
papers

4,623  
citations

430874

18  
h-index

361022

35  
g-index

37  
all docs

37  
docs citations

37  
times ranked

2958  
citing authors

#	ARTICLE	IF	CITATIONS
1	Feshbach resonances in ultracold gases. <i>Reviews of Modern Physics</i> , 2010, 82, 1225-1286.	45.6	2,905
2	Ultracold photoassociation spectroscopy: Long-range molecules and atomic scattering. <i>Reviews of Modern Physics</i> , 2006, 78, 483-535.	45.6	724
3	Data and analysis for the CODATA 2017 special fundamental constants adjustment. <i>Metrologia</i> , 2018, 55, 125-146.	1.2	135
4	Adiabatic association of ultracold molecules via magnetic-field tunable interactions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, 3457-3500.	1.5	92
5	Quantum encounters of the cold kind. <i>Nature</i> , 2002, 416, 225-232.	27.8	81
6	CODATA Recommended Values of the Fundamental Physical Constants: 2018. <i>Journal of Physical and Chemical Reference Data</i> , 2021, 50, .	4.2	81
7	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.	2.5	69
8	Anisotropy-Induced Feshbach Resonances in a Quantum Dipolar Gas of Highly Magnetic Atoms. <i>Physical Review Letters</i> , 2012, 109, 103002.	7.8	60
9	Elastic and Inelastic Collisions of Cold Spin-Polarized $^{133}\text{Cs}$ Atoms. <i>Physical Review Letters</i> , 1998, 81, 1389-1392.	7.8	49
10	Effective-range description of a Bose gas under strong one- or two-dimensional confinement. <i>New Journal of Physics</i> , 2007, 9, 19-19.	2.9	49
11	Development of a new UHV/XHV pressure standard (cold atom vacuum standard). <i>Metrologia</i> , 2017, 54, S125-S132.	1.2	43
12	Fitting line shapes in photoassociation spectroscopy of ultracold atoms: A useful approximation. <i>Physical Review A</i> , 1999, 61, .	2.5	42
13	Challenges to miniaturizing cold atom technology for deployable vacuum metrology. <i>Metrologia</i> , 2018, 55, S182-S193.	1.2	37
14	Feshbach Resonances in $^6\text{Li}$ -Wave Three-Body Recombination within Fermi-Fermi Mixtures of Open-Shell	8.9	33
15	Making cold molecules by time-dependent feshbach resonances. <i>Journal of Modern Optics</i> , 2004, 51, 1787-1806.	1.3	28
16	Hyperfine structure of the $\text{Na}_2^{\infty}$ long-range molecular state. <i>Physical Review A</i> , 1996, 53, R1939-R1942.	2.5	26
17	Observation of the pure long-range $1$ state of an alkali-metal dimer by photoassociative spectroscopy. <i>Physical Review A</i> , 1998, 57, 4600-4603.	2.5	20
18	Elastic rate coefficients for $^6\text{Li}$ collisions in the calibration of a cold-atom vacuum standard. <i>Physical Review A</i> , 2019, 99, .	2.5	19

#	ARTICLE	IF	CITATIONS
19	Two-color photoassociation spectroscopy of the lowest triplet potential of Na <sub>2</sub> . Journal of Chemical Physics, 2003, 119, 2062-2074.	3.0	16
20	Collisions of room-temperature helium with ultracold lithium and the van der Waals bound state of HeLi. Physical Review A, 2020, 101, .	2.5	13
21	Above-threshold scattering about a Feshbach resonance for ultracold atoms in an optical collider. Nature Communications, 2017, 8, 452.	12.8	12
22	Observation of bound state self-interaction in a nano-eV atom collider. Nature Communications, 2018, 9, 4895.	12.8	12
23	Prospects for assembling ultracold radioactive molecules from laser-cooled atoms. New Journal of Physics, 2022, 24, 025005.	2.9	10
24	Dispersive optical detection of magnetic Feshbach resonances in ultracold gases. Physical Review A, 2017, 96, .	2.5	9
25	Comparison of two multiplexed portable cold-atom vacuum standards. AVS Quantum Science, 2022, 4, .	4.9	9
26	Pendular trapping conditions for ultracold polar molecules enforced by external electric fields. Physical Review A, 2017, 95, .	2.5	7
27	Fractal universality in near-threshold magnetic lanthanide dimers. Science Advances, 2018, 4, eaap8308.	10.3	7
28	Relativistic aspects of orbital and magnetic anisotropies in the chemical bonding and structure of lanthanide molecules. New Journal of Physics, 2021, 23, 085007.	2.9	7
29	Adaptive grid refinement for a model of two confined and interacting atoms. Applied Numerical Mathematics, 2005, 52, 235-250.	2.1	6
30	Publisher's Note: Ultracold photoassociation spectroscopy: Long-range molecules and atomic scattering [Rev. Mod. Phys.78, 483 (2006)]. Reviews of Modern Physics, 2006, 78, 1041-1041.	45.6	6
31	Orbital quantum magnetism in spin dynamics of strongly interacting magnetic lanthanide atoms. Physical Review A, 2018, 97, .	2.5	6
32	Wannier functions using a discrete variable representation for optical lattices. Physical Review A, 2016, 94, .	2.5	4
33	Optimization of collisional Feshbach cooling of an ultracold nondegenerate gas. Physical Review A, 2015, 91, .	2.5	2
34	Sudden-quench dynamics of Bardeen-Cooper-Schrieffer states in deep optical lattices. Physical Review A, 2016, 94, .	2.5	2
35	Elastic rate coefficients for Li+H collisions in the calibration of a cold-atom vacuum standard. Physical Review A, 2019, 99, .	2.5	2
36	A semiclassical theory of phase-space dynamics of interacting bosons. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 185302.	1.5	0

#	ARTICLE	IF	CITATIONS
37	The importance of being fundamental. Nature Physics, 2022, 18, 474-474.	16.7	0