

Jan W Jwt Thomsen

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

1,957
citations

361045
20
h-index

243296
44
g-index

59
all docs

59
docs citations

59
times ranked

1352
citing authors

#	ARTICLE	IF	CITATIONS
1	Sr Lattice Clock at 1 Å^{-10} Fractional Uncertainty by Remote Optical Evaluation with a Ca Clock. <i>Science</i> , 2008, 319, 1805-1808.	6.0	500
2	New Limits on Coupling of Fundamental Constants to Gravity Using $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Sr} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} / \rangle \langle \text{mml:none} / \rangle \langle \text{mml:mn} \rangle 87 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle$ Optical Lattice Clocks. <i>Physical Review Letters</i> , 2008, 100, 140801.	2.9	261
3	The absolute frequency of the 87Sr optical clock transition. <i>Metrologia</i> , 2008, 45, 539-548.	0.6	139
4	Rabi spectroscopy and excitation inhomogeneity in a one-dimensional optical lattice clock. <i>Physical Review A</i> , 2009, 80, .	1.0	124
5	Measurement of Optical Feshbach Resonances in an Ideal Gas. <i>Physical Review Letters</i> , 2011, 107, 073202.	2.9	111
6	Probing Interactions Between Ultracold Fermions. <i>Science</i> , 2009, 324, 360-363.	6.0	99
7	Collision spectroscopy with aligned and oriented atoms. VI. A complete density matrix determination for the $\text{H}^{++}\text{Na}(3p)$ to $\text{H}(n=2)+\text{Na}+$ process. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1993, 26, 723-743.	0.6	68
8	Photoassociation Spectroscopy of Cold $\text{He}(23\text{S})$ Atoms. <i>Physical Review Letters</i> , 2000, 84, 1874-1877.	2.9	66
9	Optical Collisions of Cold, Metastable Helium Atoms. <i>Physical Review Letters</i> , 1998, 80, 5516-5519.	2.9	46
10	Photoionization of ultracold and Bose-Einstein-condensed Rb atoms. <i>Physical Review A</i> , 2002, 66, .	1.0	42
11	Amplification and ASE suppression in a polarization-maintaining ytterbium-doped all-solid photonic bandgap fibre. <i>Optics Express</i> , 2008, 16, 13657.	1.7	40
12	Optical Feshbach resonances: Field-dressed theory and comparison with experiments. <i>Physical Review A</i> , 2015, 92, .	1.0	39
13	Observation of Motion-Dependent Nonlinear Dispersion with Narrow-Linewidth Atoms in an Optical Cavity. <i>Physical Review Letters</i> , 2015, 114, 093002.	2.9	26
14	Two-photon cooling of magnesium atoms. <i>Physical Review A</i> , 2005, 72, .	1.0	24
15	Measurements on photo-ionization of $3s3p1P1$ magnesium atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000, 33, 4981-4988.	0.6	23
16	Investigations of a two-level atom in a magneto-optical trap using magnesium. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2004, 6, 81-85.	1.4	23
17	Nonlinear spectroscopy of Sr atoms in an optical cavity for laser stabilization. <i>Physical Review A</i> , 2015, 92, .	1.0	22
18	Measurement of absolute photo-ionization cross sections using magnesium magneto-optical traps. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2002, 35, 2173-2181.	0.6	21

#	ARTICLE	IF	CITATIONS
19	An experimental determination of the complete transition matrix for the electron transfer process. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, 5459-5473.	0.6	20
20	Spatial dependence of electron transfer from optically prepared states: $\text{Li}^{++} \text{Na}(3p) \rightarrow \text{Li}(2p) + \text{Na}^+$. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 5189-5204.	0.6	20
21	Orbital alignment dependence of electron transfer cross sections. II. 1-15 keV He ⁺ -Na(3p) collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, L93-L99.	0.6	17
22	Construction of a low velocity metastable helium atomic beam. Review of Scientific Instruments, 2001, 72, 3842-3847.	0.6	17
23	State propensities in electron transfer processes from optically prepared states. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, 3059-3075.	0.6	16
24	Electron transfer in keV collisions: III. Experiments on initial orbital alignment dependence. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, 1093-1100.	0.6	15
25	Photo induced collisions with laser cooled He* atoms. European Physical Journal D, 1998, 4, 131-137.	0.6	15
26	Coherent quantum engineering of free-space laser cooling. Physical Review A, 2007, 76, .	1.0	14
27	P-state-to-P-state transitions in optically prepared atomic collisions: III. A complete analysis of $\text{Li}^+ + \text{Na}(3p) \rightarrow \text{Li}(2p) + \text{Na}^+$ differential scattering. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 2051-2068.	0.6	13
28	Experimental Determination of the $\langle \sigma \rangle$ for $\text{Mg} + \text{Li}^+$ Collisions. Physical Review A, 2008, 77, .	2.9	13
29	Measurement of the $\langle \sigma \rangle$ for $\text{Mg} + \text{Li}^+$ Collisions. Physical Review A, 2008, 77, .	1.0	11
30	Laser stabilization using saturated absorption in a cavity-QED system. Physical Review A, 2015, 92, .	1.0	10
31	Left-right scattering asymmetries for electron transfer from oriented and tilted aligned Na(3p) states to H(n=2,3). Physical Review A, 1996, 54, 970-973.	1.0	9
32	Precision measurement of fermionic collisions using an ^{87}Sr optical lattice clock with 1 Å–10 ⁻¹⁶ accuracy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 574-582.	1.7	9
33	Effects of excitation and orbital alignment on electron transfer in Na^+ collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 3429-3437.	0.6	8
34	Alignment effects in electron transfer: Experimental studies for singly charged ion collisions with Na(3p) atoms. Canadian Journal of Physics, 1996, 74, 950-954.	0.4	7
35	Final state alignment for electron transfer. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 3419-3428.	0.6	7
36	Compact, CO ₂ -stabilized tuneable laser at 205 microns. Optics Express, 2016, 24, 4872.	1.7	7

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37	Energy distributions of He ⁺ and He ²⁺ ions formed in ultracold He(23S1)+He(23P2) collisions. Physical Review A, 2002, 66, .	1.0	5
38	Resonant energy transfer in Bose-Einstein condensates. Physica D: Nonlinear Phenomena, 2008, 237, 2476-2481.	1.3	5
39	Ultracold strontium clock: Applications to the measurement of fundamental constant variations. European Physical Journal: Special Topics, 2008, 163, 9-18.	1.2	5
40	A classroom demonstration of reciprocal space. American Journal of Physics, 2013, 81, 274-279.	0.3	5
41	Modulation-free frequency stabilization of a dye laser by polarization spectroscopy. Measurement Science and Technology, 1995, 6, 170-173.	1.4	4
42	Measurement of the spin-forbidden decay rate $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle$		

