

# Joseph H Thywissen

## List of Publications by Year in descending order

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45  
papers

2,439  
citations

218662

26  
h-index

254170

43  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1832  
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing open- and closed-channel $p$ -wave resonances. Physical Review Research, 2021, 3, .	3.6	12
2	Collective P-Wave Orbital Dynamics of Ultracold Fermions. Physical Review Letters, 2021, 127, 143401.	7.8	2
3	No vacancy in the Fermi sea. Science, 2021, 374, 936-937.	12.6	1
4	Quantum Computation Toolbox for Decoherence-Free Qubits Using Multi-Band Alkali Atoms. Advanced Quantum Technologies, 2020, 3, 1900132.	3.9	6
5	Observation of a transition between dynamical phases in a quantum degenerate Fermi gas. Science Advances, 2019, 5, eaax1568.	10.3	69
6	Conductivity Spectrum of Ultracold Atoms in an Optical Lattice. Physical Review Letters, 2019, 122, 153602.	7.8	39
7	Universal Spin Transport and Quantum Bounds for Unitary Fermions. Annual Review of Condensed Matter Physics, 2019, 10, 85-106.	14.5	25
8	Special issue on addressing many-body problems with cold atoms and molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 020201.	1.5	3
9	Observation of Quantum-Limited Spin Transport in Strongly Interacting Two-Dimensional Fermi Gases. Physical Review Letters, 2017, 118, 130405.	7.8	41
10	Call for papers: addressing quantum many-body problems with cold atoms and molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 100201.	1.5	0
11	Spin correlations and entanglement in partially magnetised ensembles of fermions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 214002.	1.5	3
12	Evidence for universal relations describing a gas with p-wave interactions. Nature Physics, 2016, 12, 599-605.	16.7	79
13	Universal Relations for a Fermi Gas Close to a $p$ -Wave Interaction Resonance. Physical Review Letters, 2015, 115, 135304.	7.8	65
14	Observation of the Leggett-Rice Effect in a Unitary Fermi Gas. Physical Review Letters, 2015, 114, 015301.	7.8	42
15	Transverse Demagnetization Dynamics of a Unitary Fermi Gas. Science, 2014, 344, 722-724.	12.6	81
16	Low-temperature high-density magneto-optical trapping of potassium using the open $4S$ at $405\text{\AA}$ . Physical Review A, 2011, 84, .	2.5	49
17	Bragging rights. Physics Magazine, 2011, 4, .	0.1	2
18	Dynamics of a Tunable Superfluid Junction. Physical Review Letters, 2011, 106, 025302.	7.8	119

#	ARTICLE	IF	CITATIONS
19	Repulsive Fermi gas in a harmonic trap: Ferromagnetism and spin textures. <i>Physical Review A</i> , 2009, 80, .	2.5	60
20	Itinerant Ferromagnetism in a Fermi Gas of Ultracold Atoms. <i>Science</i> , 2009, 325, 1521-1524.	12.6	272
21	Species-specific optical lattices. <i>Physical Review A</i> , 2007, 75, .	2.5	153
22	Rapid sympathetic cooling to Fermi degeneracy on a chip. <i>Nature Physics</i> , 2006, 2, 384-387.	16.7	79
23	Demonstration of frequency encoding in neutral atom lithography. <i>New Journal of Physics</i> , 2005, 7, 47-47.	2.9	19
24	Coherence length of an elongated condensate. <i>European Physical Journal D</i> , 2005, 35, 155-163.	1.3	30
25	Trapping Fermionic 40K and Bosonic 87Rb on a Chip. <i>Journal of Low Temperature Physics</i> , 2005, 140, 377-396.	1.4	32
26	Using magnetic chip traps to study Tonks-Girardeau quantum gases. <i>European Physical Journal Special Topics</i> , 2004, 116, 265-274.	0.2	22
27	Experimental study of the thermodynamics of an interacting trapped Bose-Einstein condensed gas. <i>Physical Review A</i> , 2004, 70, .	2.5	80
28	Exponentially localized magnetic fields for single-spin quantum logic gates. <i>Journal of Applied Physics</i> , 2004, 96, 754-758.	2.5	24
29	One-dimensional behavior of elongated Bose-Einstein condensates. <i>European Physical Journal Special Topics</i> , 2004, 116, 219-226.	0.2	4
30	Longueur de coh�rence d'un condensat de Bose Einstein dans un pi�ge tr�s anisotrope. <i>European Physical Journal Special Topics</i> , 2004, 119, 193-194.	0.2	0
31	Self-Assembled Monolayers Exposed to Metastable Argon Beams Undergo Thiol Exchange Reactions. <i>Langmuir</i> , 2003, 19, 2201-2205.	3.5	16
32	Momentum distribution and correlation function of quasicondensates in elongated traps. <i>Physical Review A</i> , 2003, 67, .	2.5	51
33	Atom Laser Divergence. <i>Physical Review Letters</i> , 2001, 87, 170403.	7.8	67
34	Microfabrication of two layer structures of electrically isolated wires using self-assembly to guide the deposition of insulating organic polymer. <i>Sensors and Actuators A: Physical</i> , 2000, 86, 96-102.	4.1	11
35	Guiding Neutral Atoms on a Chip. <i>Physical Review Letters</i> , 2000, 84, 1124-1127.	7.8	243
36	Quantum Point Contacts for Neutral Atoms. <i>Physical Review Letters</i> , 1999, 83, 3762-3765.	7.8	56

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37	Properties of microelectromagnet mirrors as reflectors of cold Rb atoms. Physical Review A, 1999, 60, 4012-4015.	2.5	21
38	Localization of Metastable Atom Beams with Optical Standing Waves: Nanolithography at the Heisenberg Limit. Science, 1998, 280, 1583-1586.	12.6	260
39	Metastable-atom-activated growth of an ultrathin carbonaceous resist for reactive ion etching of SiO <sub>2</sub> and Si <sub>3</sub> N <sub>4</sub> . Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1998, 16, 1155.	1.6	14
40	Micro-electromagnets for atom manipulation. Applied Physics Letters, 1998, 72, 2906-2908.	3.3	104
41	Atomic Deflection Using an Adaptive Microelectromagnet Mirror. Physical Review Letters, 1998, 81, 1137-1141.	7.8	41
42	Nanofabrication using neutral atomic beams. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1997, 15, 2093.	1.6	34
43	Spin-rotation interaction of alkali-metal-He-atom pairs. Physical Review A, 1997, 56, 2090-2094.	2.5	27
44	<title>Using neutral metastable argon atoms and contamination lithography to form nanostructures in silicon, silicon dioxide, and gold</title>. , 1997, 2995, 97.		0
45	Using neutral metastable argon atoms and contamination lithography to form nanostructures in silicon, silicon dioxide, and gold. Applied Physics Letters, 1996, 69, 2773-2775.	3.3	56