

# Ming-Sheng Zhan

## List of Publications by Year in descending order

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69  
papers

1,416  
citations

394390

19  
h-index

361001

35  
g-index

70  
all docs

70  
docs citations

70  
times ranked

979  
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect-Free Arbitrary-Geometry Assembly of Mixed-Species Atom Arrays. <i>Physical Review Letters</i> , 2022, 128, 083202.	7.8	30
2	High-fidelity entanglement of neutral atoms via a Rydberg-mediated single-modulated-pulse controlled-phase gate. <i>Physical Review A</i> , 2022, 105, .	2.5	25
3	Investigating the environmental dependence of ultralight scalar dark matter with atom interferometers. <i>General Relativity and Gravitation</i> , 2022, 54, 1.	2.0	2
4	Modular-assembled laser system for a long-baseline atom interferometer. <i>Applied Optics</i> , 2022, 61, 4648.	1.8	3
5	Phase-locking matter-wave interferometer of vortex states. <i>Npj Quantum Information</i> , 2022, 8, .	6.7	1
6	Efficient Two-Dimensional Defect-Free Dual-Species Atom Arrays Rearrangement Algorithm with Near-Fewest Atom Moves. <i>Chinese Physics Letters</i> , 2022, 39, 083701.	3.3	5
7	Self-alignment of a large-area dual-atom-interferometer gyroscope using parameter-decoupled phase-seeking calibrations. <i>Physical Review A</i> , 2021, 103, .	2.5	9
8	Probing multiple electric-dipole-forbidden optical transitions in highly charged nickel ions. <i>Physical Review A</i> , 2021, 103, .	2.5	13
9	Efficient preparation of two-dimensional defect-free atom arrays with near-fewest sorting-atom moves. <i>Physical Review Research</i> , 2021, 3, .	3.6	18
10	Infidelity Induced by Ground-Rydberg Decoherence of the Control Qubit in a Two-Qubit Rydberg-Blockade Gate. <i>Physical Review Applied</i> , 2021, 15, .	3.8	8
11	Phase shift of double-diffraction Raman interference due to high-order diffraction states. <i>Physical Review A</i> , 2021, 103, .	2.5	3
12	Spectral filtering of dual lasers with a high-finesse length-tunable cavity for rubidium atom Rydberg excitation*. <i>Chinese Physics B</i> , 2021, 30, 074203.	1.4	2
13	Joint mass-and-energy test of the equivalence principle at the $10^{-5}$ level using atoms with specified mass and internal energy. <i>Physical Review A</i> , 2021, 104, .	2.5	1
14	An actively compensated 8 nT-level magnetic shielding system for 10-m atom interferometer. <i>Review of Scientific Instruments</i> , 2021, 92, 083201.	1.3	4
15	ZAIGA: Zhaoshan long-baseline atom interferometer gravitation antenna. <i>International Journal of Modern Physics D</i> , 2020, 29, 1940005.	2.1	87
16	Coherently forming a single molecule in an optical trap. <i>Science</i> , 2020, 370, 331-335.	12.6	42
17	Laser frequency shift up to 5 GHz with a high-efficiency 12-pass 350-MHz acousto-optic modulator. <i>Review of Scientific Instruments</i> , 2020, 91, 033201.	1.3	10
18	High-Fidelity Manipulation of the Quantized Motion of a Single Atom via Stern-Gerlach Splitting*. <i>Chinese Physics Letters</i> , 2020, 37, 044209.	3.3	7

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19	Balanced Coherence Times of Atomic Qubits of Different Species in a Dual $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{/mml:mn} \rangle \langle \text{mml:mo} \rangle \text{Å} \langle \text{/mml:mo} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{/mml:mn} \rangle \langle \text{/mml:math} \rangle$ Magic-Intensity Optical Dipole Trap Array. <i>Physical Review Letters</i> , 2020, 124, 153201.	7.8	11
20	Suppression of Coriolis error in weak equivalence principle test using $\langle \text{sup} \rangle 85 \langle \text{/sup} \rangle \text{Rb}$ dual-species atom interferometer*. <i>Chinese Physics B</i> , 2020, 29, 070305.	1.4	6
21	Accuracy and stability evaluation of the $\langle \text{sup} \rangle 85 \langle \text{/sup} \rangle \text{Rb}$ atom gravimeter WAG-H5-1 at the 2017 International Comparison of Absolute Gravimeters. <i>Metrologia</i> , 2019, 56, 045012.	1.2	41
22	Ground-State Phase Diagram of a Spin-Orbital-Angular-Momentum Coupled Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2019, 122, 110402.	7.8	52
23	Preparation of a heteronuclear two-atom system in the three-dimensional ground state in an optical tweezer. <i>Physical Review A</i> , 2019, 100, .	2.5	23
24	Calibration of atomic trajectories in a large-area dual-atom-interferometer gyroscope. <i>Physical Review A</i> , 2018, 97, .	2.5	20
25	High-Fidelity Single-Qubit Gates on Neutral Atoms in a Two-Dimensional Magic-Intensity Optical Dipole Trap Array. <i>Physical Review Letters</i> , 2018, 121, 240501.	7.8	46
26	Note: A compact low-vibration high-performance optical shutter for precision measurement experiments. <i>Review of Scientific Instruments</i> , 2018, 89, 096111.	1.3	7
27	Stabilizing dual laser with a tunable high-finesse transfer cavity for single-atom Rydberg excitation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, 454.	2.1	11
28	Compact portable laser system for mobile cold atom gravimeters. <i>Applied Optics</i> , 2018, 57, 6545.	1.8	38
29	Entangling Two Individual Atoms of Different Isotopes via Rydberg Blockade. <i>Physical Review Letters</i> , 2017, 119, 160502.	7.8	111
30	Analysis and suppression of wave-front-aberration phase noise in weak-equivalence-principle tests using dual-species atom interferometers. <i>Physical Review A</i> , 2017, 96, .	2.5	10
31	Location-dependent Raman transition in gravity-gradient measurements using dual atom interferometers. <i>Physical Review A</i> , 2017, 95, .	2.5	18
32	Extracting the differential phase in dual atom interferometers by modulating magnetic fields. <i>Optics Communications</i> , 2016, 375, 34-37.	2.1	19
33	Coherence Preservation of a Single Neutral Atom Qubit Transferred between Magic-Intensity Optical Traps. <i>Physical Review Letters</i> , 2016, 117, 123201.	7.8	44
34	Continuous Dynamic Rotation Measurements Using a Compact Cold Atom Gyroscope. <i>Chinese Physics Letters</i> , 2016, 33, 083701.	3.3	13
35	Test of Equivalence Principle at $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{/mml:mn} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mn} \rangle 0 \langle \text{/mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \hat{\alpha} \langle \text{/mml:mo} \rangle \langle \text{mml:mn} \rangle 8 \langle \text{/mml:mn} \rangle$ by a Dual-Species Double-Diffraction Raman Atom Interferometer. <i>Physical Review Letters</i> , 2015, 115, 013004.	7.8	224
36	Influence of separating distance between atomic sensors for gravitational wave detection. <i>European Physical Journal D</i> , 2015, 69, 1.	1.3	2

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37	Interaction-induced decay of a heteronuclear two-atom system. <i>Nature Communications</i> , 2015, 6, 7803.	12.8	28
38	Qubit fidelity of a single atom transferred among the sites of a ring optical lattice. <i>Physical Review A</i> , 2014, 90, .	2.5	11
39	A programmable broadband low frequency active vibration isolation system for atom interferometry. <i>Review of Scientific Instruments</i> , 2014, 85, 093109.	1.3	40
40	Correlation, entropy, and information transfer in black hole radiation. <i>Science Bulletin</i> , 2014, 59, 1057-1065.	1.7	3
41	Suppressing phase decoherence of a single atom qubit with Carr-Purcell-Meiboom-Gill sequence. <i>Optics Express</i> , 2013, 21, 32130.	3.4	18
42	Towards experimentally testing the paradox of black hole information loss. <i>Physical Review D</i> , 2013, 87, .	4.7	12
43	INFORMATION CONSERVATION IS FUNDAMENTAL: RECOVERING THE LOST INFORMATION IN HAWKING RADIATION. <i>International Journal of Modern Physics D</i> , 2013, 22, 1341014.	2.1	42
44	Single atoms in the ring lattice for quantum information processing and quantum simulation. <i>Science Bulletin</i> , 2012, 57, 1931-1945.	1.7	13
45	Determination of the 5d6p 3F4-5d2 3F transition probabilities of Ba I. <i>Frontiers of Physics</i> , 2012, 7, 235-238.	5.0	0
46	Doppler-free spectroscopy of rubidium atoms driven by a control laser. <i>Frontiers of Physics</i> , 2012, 7, 311-314.	5.0	0
47	An interpretation for the entropy of a black hole. <i>General Relativity and Gravitation</i> , 2011, 43, 797-804.	2.0	9
48	Gravitational-wave detection with matter-wave interferometers based on standing light waves. <i>General Relativity and Gravitation</i> , 2011, 43, 2027-2036.	2.0	17
49	Measurement of Local Gravity via a Cold Atom Interferometer. <i>Chinese Physics Letters</i> , 2011, 28, 013701.	3.3	34
50	Thermodynamics inducing massive particles' tunneling and cosmic censorship. <i>European Physical Journal C</i> , 2010, 68, 561-566.	3.9	2
51	Cold atom interferometers and their applications in precision measurements. <i>Frontiers of Physics in China</i> , 2009, 4, 179-189.	1.0	14
52	Measurement of the quadratic Zeeman shift of 85Rb hyperfine sublevels using stimulated Raman transitions. <i>Optics Communications</i> , 2009, 282, 1340-1344.	2.1	25
53	Quantum gates with atomic ensembles on an atom chip. <i>Physical Review A</i> , 2008, 78, .	2.5	11
54	Core scattering of quadratic Zeeman orbits in barium. <i>Physical Review A</i> , 2007, 76, .	2.5	16

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55	Josephson effect and quantum merging of two Bose superfluids. Physical Review B, 2006, 73, .	3.2	11
56	Order parameter and Josephson effect of nonuniform molecular Bose-Einstein condensates. Physical Review A, 2006, 74, .	2.5	10
57	Approximate Disentanglement. International Journal of Theoretical Physics, 2004, 43, 21-26.	1.2	1
58	New Even and Odd Nonlinear Coherent States and Their Nonclassical Properties. International Journal of Theoretical Physics, 2003, 42, 89-98.	1.2	12
59	Phase Properties of New Even and Odd Nonlinear Coherent States. International Journal of Theoretical Physics, 2003, 42, 2855-2862.	1.2	4
60	Remote information concentration by a Greenberger-Horne-Zeilinger state and by a bound entangled state. Physical Review A, 2003, 68, .	2.5	45
61	Multi-output programmable quantum processor. Physical Review A, 2002, 66, .	2.5	19
62	Probabilistic deletion of copies of linearly independent quantum states. Physical Review A, 2002, 65, .	2.5	9
63	Nonclassical Properties of Orthonormalized Eigenstates of the Operator $(a + q f(N + q))k$ . International Journal of Theoretical Physics, 2002, 41, 2427-2437.	1.2	1
64	Quantum Fluctuations in a Mesoscopic Inductance Coupling Circuit. International Journal of Theoretical Physics, 2000, 39, 2013-2019.	1.2	13
65	Title is missing!. International Journal of Theoretical Physics, 2000, 39, 2595-2603.	1.2	4
66	Higher Order Squeezed States of Anharmonic Oscillators. International Journal of Theoretical Physics, 2000, 39, 2583-2593.	1.2	1
67	AEDGE: Atomic experiment for dark matter and gravity exploration in space. Experimental Astronomy, 0, , 1.	3.7	9
68	Ultralight scalar dark matter detection with ZAIGA. International Journal of Modern Physics D, 0, , .	2.1	1
69	1200x broadband modal converter using subwavelength self-focusing structure. Applied Optics, 0, , .	1.8	0