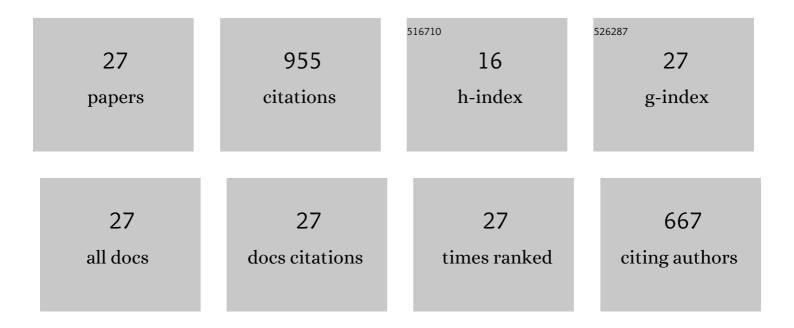
Uwe R Fischer

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Vortex States of Rapidly Rotating Dilute Bose-Einstein Condensates. Physical Review Letters, 2003, 90, 140402.	7.8	160
2	Gibbons-Hawking Effect in the Sonic deÂSitter Space-Time of an Expanding Bose-Einstein-Condensed Gas. Physical Review Letters, 2003, 91, 240407.	7.8	154
3	Quantum simulation of cosmic inflation in two-component Bose-Einstein condensates. Physical Review A, 2004, 70, .	2.5	109
4	"Cosmological―quasiparticle production in harmonically trapped superfluid gases. Physical Review A, 2004, 69, .	2.5	101
5	Riemannian Geometry of Irrotational Vortex Acoustics. Physical Review Letters, 2002, 88, 110201.	7.8	52
6	Condensate fragmentation as a sensitive measure of the quantum many-body behavior of bosons with long-range interactions. Physical Review A, 2015, 91, .	2.5	51
7	Probing the Scale Invariance of the Inflationary Power Spectrum in Expanding Quasi-Two-Dimensional Dipolar Condensates. Physical Review Letters, 2017, 118, 130404.	7.8	39
8	Interacting trapped bosons yield fragmented condensate states in low dimensions. Physical Review A, 2010, 82, .	2.5	32
9	Revealing Single-Trap Condensate Fragmentation by Measuring Density-Density Correlations after Time of Flight. Physical Review Letters, 2014, 113, 140404.	7.8	30
10	On the space-time curvature experienced by quasiparticle excitations in the Painlevé–Gullstrand effective geometry. Annals of Physics, 2003, 304, 22-39.	2.8	28
11	Ultrafast Quantum Random Access Memory Utilizing Single Rydberg Atoms in a Bose-Einstein Condensate. Physical Review Letters, 2013, 111, 240504.	7.8	27
12	Existence of Long-Range Order for Trapped Interacting Bosons. Physical Review Letters, 2002, 89, 280402.	7.8	23
13	"Photonic―Cat States from Strongly Interacting Matter Waves. Physical Review Letters, 2015, 115, 260404.	7.8	22
14	Implementation-independent sufficient condition of the Knill-Laflamme type for the autonomous protection of logical qudits by strong engineered dissipation. Physical Review A, 2018, 98, .	2.5	22
15	Quantum backreaction in dilute Bose-Einstein condensates. Physical Review D, 2005, 72, .	4.7	19
16	Roton entanglement in quenched dipolar Bose-Einstein condensates. Physical Review A, 2018, 97, .	2.5	19
17	Truncated many-body dynamics of interacting bosons: A variational principle with error monitoring. International Journal of Modern Physics B, 2014, 28, 1550021.	2.0	16
18	Testing the upper bound on the speed of scrambling with an analogue of Hawking radiation using trapped ions. European Physical Journal C, 2022, 82, 1.	3.9	13

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#	Article	IF	CITATIONS
19	Self-consistent determination of the many-body state of ultracold bosonic atoms in a one-dimensional harmonic trap. Annals of Physics, 2019, 405, 274-288.	2.8	10
20	Maximal length of trapped one-dimensional Bose-Einstein condensates. Journal of Low Temperature Physics, 2005, 138, 723-728.	1.4	7
21	Stability of spherically trapped three-dimensional Bose-Einstein condensates against macroscopic fragmentation. Physical Review A, 2013, 87, .	2.5	4
22	Existence of steady-state black hole analogs in finite quasi-one-dimensional Bose-Einstein condensates. Physical Review D, 2022, 105, .	4.7	4
23	Benchmarking the multiconfigurational Hartree method by the exact wavefunction of two harmonically trapped bosons with contact interaction. Annals of Physics, 2021, 434, 168592.	2.8	3
24	Inherent nonlinearity of fluid motion and acoustic gravitational wave memory. Physical Review D, 2022, 105, .	4.7	3
25	Analogue gravitational field from nonlinear fluid dynamics. Classical and Quantum Gravity, 2022, 39, 075018.	4.0	3
26	Exact surface-wave spectrum of a dilute quantum liquid. Physical Review B, 2019, 99, .	3.2	2
27	Stoner-Wohlfarth switching of the condensate magnetization in a dipolar spinor gas and the metrology of excitation damping. Physical Review A, 2020, 102, .	2.5	2