

# Uwe R Fischer

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7121223/publications.pdf>

Version: 2024-02-01

27  
papers

955  
citations

516710

16  
h-index

526287

27  
g-index

27  
all docs

27  
docs citations

27  
times ranked

667  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inherent nonlinearity of fluid motion and acoustic gravitational wave memory. <i>Physical Review D</i> , 2022, 105, .	4.7	3
2	Analogue gravitational field from nonlinear fluid dynamics. <i>Classical and Quantum Gravity</i> , 2022, 39, 075018.	4.0	3
3	Testing the upper bound on the speed of scrambling with an analogue of Hawking radiation using trapped ions. <i>European Physical Journal C</i> , 2022, 82, 1.	3.9	13
4	Existence of steady-state black hole analogs in finite quasi-one-dimensional Bose-Einstein condensates. <i>Physical Review D</i> , 2022, 105, .	4.7	4
5	Benchmarking the multiconfigurational Hartree method by the exact wavefunction of two harmonically trapped bosons with contact interaction. <i>Annals of Physics</i> , 2021, 434, 168592.	2.8	3
6	Stoner-Wohlfarth switching of the condensate magnetization in a dipolar spinor gas and the metrology of excitation damping. <i>Physical Review A</i> , 2020, 102, .	2.5	2
7	Exact surface-wave spectrum of a dilute quantum liquid. <i>Physical Review B</i> , 2019, 99, .	3.2	2
8	Self-consistent determination of the many-body state of ultracold bosonic atoms in a one-dimensional harmonic trap. <i>Annals of Physics</i> , 2019, 405, 274-288.	2.8	10
9	Implementation-independent sufficient condition of the Knill-Laflamme type for the autonomous protection of logical qudits by strong engineered dissipation. <i>Physical Review A</i> , 2018, 98, .	2.5	22
10	Roton entanglement in quenched dipolar Bose-Einstein condensates. <i>Physical Review A</i> , 2018, 97, .	2.5	19
11	Probing the Scale Invariance of the Inflationary Power Spectrum in Expanding Quasi-Two-Dimensional Dipolar Condensates. <i>Physical Review Letters</i> , 2017, 118, 130404.	7.8	39
12	Condensate fragmentation as a sensitive measure of the quantum many-body behavior of bosons with long-range interactions. <i>Physical Review A</i> , 2015, 91, .	2.5	51
13	“Photonic” Cat States from Strongly Interacting Matter Waves. <i>Physical Review Letters</i> , 2015, 115, 260404.	7.8	22
14	Truncated many-body dynamics of interacting bosons: A variational principle with error monitoring. <i>International Journal of Modern Physics B</i> , 2014, 28, 1550021.	2.0	16
15	Revealing Single-Trap Condensate Fragmentation by Measuring Density-Density Correlations after Time of Flight. <i>Physical Review Letters</i> , 2014, 113, 140404.	7.8	30
16	Stability of spherically trapped three-dimensional Bose-Einstein condensates against macroscopic fragmentation. <i>Physical Review A</i> , 2013, 87, .	2.5	4
17	Ultrafast Quantum Random Access Memory Utilizing Single Rydberg Atoms in a Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2013, 111, 240504.	7.8	27
18	Interacting trapped bosons yield fragmented condensate states in low dimensions. <i>Physical Review A</i> , 2010, 82, .	2.5	32

#	ARTICLE	IF	CITATIONS
19	Maximal length of trapped one-dimensional Bose-Einstein condensates. Journal of Low Temperature Physics, 2005, 138, 723-728.	1.4	7
20	Quantum backreaction in dilute Bose-Einstein condensates. Physical Review D, 2005, 72, .	4.7	19
21	Quantum simulation of cosmic inflation in two-component Bose-Einstein condensates. Physical Review A, 2004, 70, .	2.5	109
22	“Cosmological” quasiparticle production in harmonically trapped superfluid gases. Physical Review A, 2004, 69, .	2.5	101
23	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
24	Gibbons-Hawking Effect in the Sonic deSitter Space-Time of an Expanding Bose-Einstein-Condensed Gas. Physical Review Letters, 2003, 91, 240407.	7.8	154
25	Vortex States of Rapidly Rotating Dilute Bose-Einstein Condensates. Physical Review Letters, 2003, 90, 140402.	7.8	160
26	Riemannian Geometry of Irrotational Vortex Acoustics. Physical Review Letters, 2002, 88, 110201.	7.8	52
27	Existence of Long-Range Order for Trapped Interacting Bosons. Physical Review Letters, 2002, 89, 280402.	7.8	23