

Eric Oelker

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4270660/eric-oelker-publications-by-year.pdf>

Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

22 papers	5,744 citations	17 h-index	25 g-index
25 ext. papers	6,973 ext. citations	14.4 avg, IF	4.02 L-index

#	Paper	IF	Citations
22	Resolving the gravitational redshift across a millimetre-scale atomic sample.. <i>Nature</i> , 2022 , 602, 420-424	50.4	15
21	Thermal noise and mechanical loss of SiO ₂ /TaO optical coatings at cryogenic temperatures. <i>Optics Letters</i> , 2021 , 46, 592-595	3	4
20	Half-minute-scale atomic coherence and high relative stability in a tweezer clock. <i>Nature</i> , 2020 , 588, 408-411	41.3	33
19	Optical atomic clock comparison through turbulent air. <i>Physical Review Research</i> , 2020 , 2,	3.9	4
18	Precision Metrology Meets Cosmology: Improved Constraints on Ultralight Dark Matter from Atom-Cavity Frequency Comparisons. <i>Physical Review Letters</i> , 2020 , 125, 201302	7.4	37
17	Seconds-scale coherence on an optical clock transition in a tweezer array. <i>Science</i> , 2019 , 366, 93-97	33.3	43
16	Demonstration of 4.8×10^{-17} stability at 1 s for two independent optical clocks. <i>Nature Photonics</i> , 2019 , 13, 714-719	33.9	143
15	Demonstration of a Timescale Based on a Stable Optical Carrier. <i>Physical Review Letters</i> , 2019 , 123, 173204	20.1	17
14	JILA Sr optical lattice clock with uncertainty of 2.0×10^{-18} s. <i>Metrologia</i> , 2019 , 56, 065004	2.1	70
13	Crystalline optical cavity at 4 K with thermal-noise-limited instability and ultralow drift. <i>Optica</i> , 2019 , 6, 240	8.6	57
12	Quantum-Enhanced Advanced LIGO Detectors in the Era of Gravitational-Wave Astronomy. <i>Physical Review Letters</i> , 2019 , 123, 231107	7.4	182
11	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2018 , 21, 3	32.5	543
10	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA 2018 , 21, 1		2
9	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017 , 529, 1600209	2.6	45
8	Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. <i>Astrophysical Journal</i> , 2017 , 841, 89	4.7	42
7	Ultrastable Silicon Cavity in a Continuously Operating Closed-Cycle Cryostat at 4K. <i>Physical Review Letters</i> , 2017 , 119, 243601	7.4	43
6	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. <i>Physical Review Letters</i> , 2017 , 118, 221101	7.4	1609

5	Audio-Band Frequency-Dependent Squeezing for Gravitational-Wave Detectors. <i>Physical Review Letters</i> , 2016 , 116, 041102	7.4	61
4	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2016 , 116, 241103	7.4	2136
3	Ultra-low phase noise squeezed vacuum source for gravitational wave detectors. <i>Optica</i> , 2016 , 3, 682	8.6	43
2	Squeezed light for advanced gravitational wave detectors and beyond. <i>Optics Express</i> , 2014 , 22, 21106-21133	3.3	43
1	Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. <i>Nature Photonics</i> , 2013 , 7, 613-619	33.9	572