

List of Publications by Citations

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

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|-------------------|-------------------------|-----------------|-----------------|
| 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 | 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 |
| 21 | 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 |
| 20 | 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 |
| 19 | 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 |
| 18 | Quantum-Enhanced Advanced LIGO Detectors in the Era of Gravitational-Wave Astronomy. <i>Physical Review Letters</i> , 2019 , 123, 231107 | 7.4 | 182 |
| 17 | Demonstration of 4.8×10^{-7} stability at 1 s for two independent optical clocks. <i>Nature Photonics</i> , 2019 , 13, 714-719 | 33.9 | 143 |
| 16 | JILA Sr optical lattice clock with uncertainty of 2.0×10^{-18} . <i>Metrologia</i> , 2019 , 56, 065004 | 2.1 | 70 |
| 15 | Audio-Band Frequency-Dependent Squeezing for Gravitational-Wave Detectors. <i>Physical Review Letters</i> , 2016 , 116, 041102 | 7.4 | 61 |
| 14 | Crystalline optical cavity at 4 K with thermal-noise-limited instability and ultralow drift. <i>Optica</i> , 2019 , 6, 240 | 8.6 | 57 |
| 13 | The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017 , 529, 1600209 | 2.6 | 45 |
| 12 | Seconds-scale coherence on an optical clock transition in a tweezer array. <i>Science</i> , 2019 , 366, 93-97 | 33.3 | 43 |
| 11 | Ultra-low phase noise squeezed vacuum source for gravitational wave detectors. <i>Optica</i> , 2016 , 3, 682 | 8.6 | 43 |
| 10 | Ultrastable Silicon Cavity in a Continuously Operating Closed-Cycle Cryostat at 4K. <i>Physical Review Letters</i> , 2017 , 119, 243601 | 7.4 | 43 |
| 9 | Squeezed light for advanced gravitational wave detectors and beyond. <i>Optics Express</i> , 2014 , 22, 21106-21133 | 21.3 | 43 |
| 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 | 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 |
| 6 | Half-minute-scale atomic coherence and high relative stability in a tweezer clock. <i>Nature</i> , 2020 , 588, 408-413 | 56.4 | 33 |

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| 5 | Demonstration of a Timescale Based on a Stable Optical Carrier. <i>Physical Review Letters</i> , 2019 , 123, 173201 | 17 |
| 4 | Resolving the gravitational redshift across a millimetre-scale atomic sample.. <i>Nature</i> , 2022 , 602, 420-424 | 15 |
| 3 | Optical atomic clock comparison through turbulent air. <i>Physical Review Research</i> , 2020 , 2, | 3.9 4 |
| 2 | Thermal noise and mechanical loss of SiO/TaO optical coatings at cryogenic temperatures. <i>Optics Letters</i> , 2021 , 46, 592-595 | 3 4 |
| 1 | Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA 2018 , 21, 1 | 2 |