

# Lee Mcculler

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7588557/publications.pdf>

Version: 2024-02-01

20  
papers

1,501  
citations

687363

13  
h-index

752698

20  
g-index

20  
all docs

20  
docs citations

20  
times ranked

2159  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Squeezing in Gravitational Wave Detectors. <i>Galaxies</i> , 2022, 10, 46.  | 3.0  | 8         |
| 2  | Probing squeezing for gravitational-wave detectors with an audio-band field. <i>Physical Review D</i> , 2022, 105, .  | 4.7  | 3         |
| 3  | Tuning Advanced LIGO to kilohertz signals from neutron-star collisions. <i>Physical Review D</i> , 2021, 103, .   | 4.7  | 14        |
| 4  | Approaching the motional ground state of a 10-kg object. <i>Science</i> , 2021, 372, 1333-1336.   | 12.6 | 59        |
| 5  | Interferometric Constraints on Spacelike Coherent Rotational Fluctuations. <i>Physical Review Letters</i> , 2021, 126, 241301.  | 7.8  | 9         |
| 6  | Environmental noise in advanced LIGO detectors. <i>Classical and Quantum Gravity</i> , 2021, 38, 145001.  | 4.0  | 38        |
| 7  | LIGO's quantum response to squeezed states. <i>Physical Review D</i> , 2021, 104, .   | 4.7  | 19        |
| 8  | Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2020, 23, 3. | 26.7 | 447       |
| 9  | Demonstration of an amplitude filter cavity at gravitational-wave frequencies. <i>Physical Review D</i> , 2020, 102, .  | 4.7  | 5         |
| 10 | Sensitivity and performance of the Advanced LIGO detectors in the third observing run. <i>Physical Review D</i> , 2020, 102, .  | 4.7  | 196       |
| 11 | Quantum correlations between light and the kilogram-mass mirrors of LIGO. <i>Nature</i> , 2020, 583, 43-47.   | 27.8 | 102       |
| 12 | Frequency-Dependent Squeezing for Advanced LIGO. <i>Physical Review Letters</i> , 2020, 124, 171102.  | 7.8  | 99        |
| 13 | Low phase noise squeezed vacuum for future generation gravitational wave detectors. <i>Classical and Quantum Gravity</i> , 2020, 37, 185014.                          | 4.0  | 5         |
| 14 | Optimal detuning for quantum filter cavities. <i>Physical Review D</i> , 2020, 102, .   | 4.7  | 7         |
| 15 | Advanced LIGO squeezer platform for backscattered light and optical loss reduction. <i>Classical and Quantum Gravity</i> , 2020, 37, 215015.                          | 4.0  | 2         |
| 16 | Quantum-Enhanced Advanced LIGO Detectors in the Era of Gravitational-Wave Astronomy. <i>Physical Review Letters</i> , 2019, 123, 231107.                              | 7.8  | 359       |
| 17 | The Holometer: an instrument to probe Planckian quantum geometry. <i>Classical and Quantum Gravity</i> , 2017, 34, 065005.  | 4.0  | 23        |
| 18 | Interferometric constraints on quantum geometrical shear noise correlations. <i>Classical and Quantum Gravity</i> , 2017, 34, 165005.                                 | 4.0  | 25        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | MHz gravitational wave constraints with decameter Michelson interferometers. Physical Review D, 2017, 95, .                                    | 4.7 | 48        |
| 20 | First Measurements of High Frequency Cross-Spectra from a Pair of Large Michelson Interferometers. Physical Review Letters, 2016, 117, 111102. | 7.8 | 33        |