

Craig Cahillane

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

39,943
citations

109264

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docs citations

48
times ranked

16085
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | CW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , 2016, 116, 131103. | 2.9 | 466 |
| 20 | Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2020, 23, 3. | 8.2 | 447 |
| 21 | Quantum-Enhanced Advanced LIGO Detectors in the Era of Gravitational-Wave Astronomy. <i>Physical Review Letters</i> , 2019, 123, 231107. | 2.9 | 359 |
| 22 | Sensitivity and performance of the Advanced LIGO detectors in the third observing run. <i>Physical Review D</i> , 2020, 102, . | 1.6 | 196 |
| 23 | A guide to LIGO's Virgo detector noise and extraction of transient gravitational-wave signals. <i>Classical and Quantum Gravity</i> , 2020, 37, 055002. | 1.5 | 188 |
| 24 | LIGO detector characterization in the second and third observing runs. <i>Classical and Quantum Gravity</i> , 2021, 38, 135014. | 1.5 | 128 |
| 25 | Characterization of systematic error in Advanced LIGO calibration. <i>Classical and Quantum Gravity</i> , 2020, 37, 225008. | 1.5 | 98 |
| 26 | Calibration uncertainty for Advanced LIGO's first and second observing runs. <i>Physical Review D</i> , 2017, 96, . | 1.6 | 97 |
| 27 | Calibration of the Advanced LIGO detectors for the discovery of the binary black-hole merger GW150914. <i>Physical Review D</i> , 2017, 95, . | 1.6 | 72 |
| 28 | The Advanced LIGO photon calibrators. <i>Review of Scientific Instruments</i> , 2016, 87, 114503. | 0.6 | 65 |
| 29 | Approaching the motional ground state of a 10-kg object. <i>Science</i> , 2021, 372, 1333-1336. | 6.0 | 59 |
| 30 | Search for Lensing Signatures in the Gravitational-Wave Observations from the First Half of LIGO's Virgo's Third Observing Run. <i>Astrophysical Journal</i> , 2021, 923, 14. | 1.6 | 59 |
| 31 | Reconstructing the calibrated strain signal in the Advanced LIGO detectors. <i>Classical and Quantum Gravity</i> , 2018, 35, 095015. | 1.5 | 57 |
| 32 | Reducing scattered light in LIGO's third observing run. <i>Classical and Quantum Gravity</i> , 2021, 38, 025016. | 1.5 | 49 |
| 33 | All-sky search in early O3 LIGO data for continuous gravitational-wave signals from unknown neutron stars in binary systems. <i>Physical Review D</i> , 2021, 103, . | 1.6 | 43 |
| 34 | Searches for Continuous Gravitational Waves from Young Supernova Remnants in the Early Third Observing Run of Advanced LIGO and Virgo. <i>Astrophysical Journal</i> , 2021, 921, 80. | 1.6 | 39 |
| 35 | Environmental noise in advanced LIGO detectors. <i>Classical and Quantum Gravity</i> , 2021, 38, 145001. | 1.5 | 38 |
| 36 | All-sky search for short gravitational-wave bursts in the third Advanced LIGO and Advanced Virgo run. <i>Physical Review D</i> , 2021, 104, . | 1.6 | 33 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Narrowband Searches for Continuous and Long-duration Transient Gravitational Waves from Known Pulsars in the LIGO-Virgo Third Observing Run. <i>Astrophysical Journal</i> , 2022, 932, 133. | 1.6 | 33 |
| 38 | Search for intermediate-mass black hole binaries in the third observing run of Advanced LIGO and Advanced Virgo. <i>Astronomy and Astrophysics</i> , 2022, 659, A84. | 2.1 | 32 |
| 39 | Review of the Advanced LIGO Gravitational Wave Observatories Leading to Observing Run Four. <i>Galaxies</i> , 2022, 10, 36. | 1.1 | 28 |
| 40 | Physical approach to the marginalization of LIGO calibration uncertainties. <i>Physical Review D</i> , 2021, 103, . | 1.6 | 27 |
| 41 | Improving LIGO calibration accuracy by tracking and compensating for slow temporal variations. <i>Classical and Quantum Gravity</i> , 2017, 34, 015002. | 1.5 | 25 |
| 42 | Point absorbers in Advanced LIGO. <i>Applied Optics</i> , 2021, 60, 4047. | 0.9 | 24 |
| 43 | Search of the early O3 LIGO data for continuous gravitational waves from the Cassiopeia A and Vela Jr. supernova remnants. <i>Physical Review D</i> , 2022, 105, . | 1.6 | 21 |
| 44 | LIGO's quantum response to squeezed states. <i>Physical Review D</i> , 2021, 104, . | 1.6 | 19 |
| 45 | Laser frequency noise in next generation gravitational-wave detectors. <i>Optics Express</i> , 2021, 29, 42144. | 1.7 | 14 |
| 46 | Improving the robustness of the advanced LIGO detectors to earthquakes. <i>Classical and Quantum Gravity</i> , 2020, 37, 235007. | 1.5 | 11 |
| 47 | Systematic calibration error requirements for gravitational-wave detectors via the Cram r-Rao bound. <i>Classical and Quantum Gravity</i> , 2019, 36, 205006. | 1.5 | 6 |
| 48 | Point Absorber Limits to Future Gravitational-Wave Detectors. <i>Physical Review Letters</i> , 2021, 127, 241102. | 2.9 | 3 |