# Odylio D Aguiar

## List of Publications by Citations



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|---|---|---|---|
| 198 papers | 35,920 citations | 59 h-index | 189 g-index |
| 223 ext. papers | 44,511 ext. citations | 5.2 avg, IF | 4.74 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 198 | Observation of Gravitational Waves from a Binary Black Hole Merger. *Physical Review Letters*, **2016**, 116, 061102 | 7.4 | 6108 |
| 197 | GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. *Physical Review Letters*, **2017**, 119, 161101 | 7.4 | 4272 |
| 196 | GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. *Physical Review Letters*, **2016**, 116, 241103 | 7.4 | 2136 |
| 195 | Multi-messenger Observations of a Binary Neutron Star Merger. *Astrophysical Journal Letters*, **2017**, 848, L12 | 7.9 | 1935 |
| 194 | Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. *Astrophysical Journal Letters*, **2017**, 848, L13 | 7.9 | 1614 |
| 193 | GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. *Physical Review Letters*, **2017**, 118, 221101 | 7.4 | 1609 |
| 192 | GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. *Physical Review Letters*, **2017**, 119, 141101 | 7.4 | 1270 |
| 191 | Advanced LIGO. *Classical and Quantum Gravity*, **2015**, 32, 074001 | 3.3 | 1098 |
| 190 | GW170817: Measurements of Neutron Star Radii and Equation of State. *Physical Review Letters*, **2018**, 121, 161101 | 7.4 | 867 |
| 189 | Tests of General Relativity with GW150914. *Physical Review Letters*, **2016**, 116, 221101 | 7.4 | 837 |
| 188 | GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. *Astrophysical Journal Letters*, **2017**, 851, L35 | 7.9 | 809 |
| 187 | Characterization of the LIGO detectors during their sixth science run. *Classical and Quantum Gravity* , **2015**, 32, 115012 | 3.3 | 790 |
| 186 | Binary Black Hole Mergers in the First Advanced LIGO Observing Run. *Physical Review X*, **2016**, 6, | 9.1 | 723 |
| 185 | GW190425: Observation of a Compact Binary Coalescence with Total Mass ~ 3.4 M ?. *Astrophysical Journal Letters*, **2020**, 892, L3 | 7.9 | 591 |
| 184 | Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. *Nature Photonics*, **2013**, 7, 613-619 | 33.9 | 572 |
| 183 | GW190814: Gravitational Waves from the Coalescence of a 23 Solar Mass Black Hole with a 2.6 Solar Mass Compact Object. *Astrophysical Journal Letters*, **2020**, 896, L44 | 7.9 | 571 |
| 182 | Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. *Living Reviews in Relativity*, **2018**, 21, 3 | 32.5 | 543 |

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|---|---|---|---|
| 181 | Properties of the Binary Black Hole Merger GW150914. *Physical Review Letters*, **2016**, 116, 241102 | 7.4 | 515 |
| 180 | ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. *Astrophysical Journal Letters*, **2016**, 818, L22 | 7.9 | 512 |
| 179 | Exploring the sensitivity of next generation gravitational wave detectors. *Classical and Quantum Gravity*, **2017**, 34, 044001 | 3.3 | 454 |
| 178 | GW190521: A Binary Black Hole Merger with a Total Mass of 150  M_{?}. *Physical Review Letters*, **2020**, 125, 101102 | 7.4 | 420 |
| 177 | Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. *Living Reviews in Relativity*, **2016**, 19, 1 | 32.5 | 393 |
| 176 | Binary Black Hole Population Properties Inferred from the First and Second Observing Runs of Advanced LIGO and Advanced Virgo. *Astrophysical Journal Letters*, **2019**, 882, L24 | 7.9 | 381 |
| 175 | GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. *Physical Review Letters*, **2016**, 116, 131103 | 7.4 | 328 |
| 174 | GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. *Physical Review D*, **2016**, 93, | 4.9 | 253 |
| 173 | THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. *Astrophysical Journal Letters*, **2016**, 833, L1 | 7.9 | 209 |
| 172 | Properties and Astrophysical Implications of the 150 M ? Binary Black Hole Merger GW190521. *Astrophysical Journal Letters*, **2020**, 900, L13 | 7.9 | 207 |
| 171 | Tests of General Relativity with GW170817. *Physical Review Letters*, **2019**, 123, 011102 | 7.4 | 204 |
| 170 | Population Properties of Compact Objects from the Second LIGO Virgo Gravitational-Wave Transient Catalog. *Astrophysical Journal Letters*, **2021**, 913, L7 | 7.9 | 194 |
| 169 | GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. *Physical Review Letters*, **2016**, 116, 131102 | 7.4 | 188 |
| 168 | LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. *Astrophysical Journal Letters*, **2016**, 826, L13 | 7.9 | 183 |
| 167 | Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. *Classical and Quantum Gravity*, **2016**, 33, | 3.3 | 155 |
| 166 | Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. *Living Reviews in Relativity*, **2020**, 23, 3 | 32.5 | 144 |
| 165 | Observation of Gravitational Waves from Two Neutron Star Black Hole Coalescences. *Astrophysical Journal Letters*, **2021**, 915, L5 | 7.9 | 142 |
| 164 | Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run. *Physical Review Letters*, **2017**, 118, 121101 | 7.4 | 137 |

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|---|---|---|---|
| 163 | Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. *Astrophysical Journal Letters*, **2017**, 851, L16 | 7.9 | 133 |
| 162 | UPPER LIMITS ON THE RATES OF BINARY NEUTRON STAR AND NEUTRON STAR–BLACK HOLE MERGERS FROM ADVANCED LIGO'S FIRST OBSERVING RUN. *Astrophysical Journal Letters*, **2016**, 832, L21 | 7.9 | 130 |
| 161 | Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. *Astrophysical Journal Letters*, **2017**, 850, L39 | 7.9 | 127 |
| 160 | GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. *Physical Review Letters*, **2018**, 120, 091101 | 7.4 | 120 |
| 159 | GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. *Astrophysical Journal*, **2014**, 785, 119 | 4.7 | 109 |
| 158 | First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. *Astrophysical Journal* , **2017**, 839, 12 | 4.7 | 107 |
| 157 | Observing gravitational-wave transient GW150914 with minimal assumptions. *Physical Review D*, **2016**, 93, | 4.9 | 94 |
| 156 | First Measurement of the Hubble Constant from a Dark Standard Siren using the Dark Energy Survey Galaxies and the LIGO/Virgo Binary–Black-hole Merger GW170814. *Astrophysical Journal Letters*, **2019**, 876, L7 | 7.9 | 91 |
| 155 | Improved Analysis of GW150914 Using a Fully Spin-Precessing Waveform Model. *Physical Review X*, **2016**, 6, | 9.1 | 89 |
| 154 | High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube. *Physical Review D*, **2016**, 93, | 4.9 | 80 |
| 153 | A guide to LIGO–Virgo detector noise and extraction of transient gravitational-wave signals. *Classical and Quantum Gravity*, **2020**, 37, 055002 | 3.3 | 78 |
| 152 | Directly comparing GW150914 with numerical solutions of Einstein's equations for binary black hole coalescence. *Physical Review D*, **2016**, 94, | 4.9 | 76 |
| 151 | Effects of waveform model systematics on the interpretation of GW150914. *Classical and Quantum Gravity*, **2017**, 34, 104002 | 3.3 | 74 |
| 150 | Improved upper limits on the stochastic gravitational-wave background from 2009-2010 LIGO and Virgo data. *Physical Review Letters*, **2014**, 113, 231101 | 7.4 | 74 |
| 149 | Model comparison from LIGO–Virgo data on GW170817's binary components and consequences for the merger remnant. *Classical and Quantum Gravity*, **2020**, 37, 045006 | 3.3 | 69 |
| 148 | Search for Subsolar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. *Physical Review Letters*, **2019**, 123, 161102 | 7.4 | 68 |
| 147 | Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. *Physical Review Letters*, **2017**, 118, 121102 | 7.4 | 65 |
| 146 | Search for intermediate mass black hole binaries in the first observing run of Advanced LIGO. *Physical Review D*, **2017**, 96, | 4.9 | 64 |

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| 145 | Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015–2017 LIGO Data. *Astrophysical Journal*, **2019**, 879, 10 | 4.7 | 63 |
| 144 | Effects of data quality vetoes on a search for compact binary coalescences in Advanced LIGO's first observing run. *Classical and Quantum Gravity*, **2018**, 35, 065010 | 3.3 | 62 |
| 143 | Calibration of the Advanced LIGO detectors for the discovery of the binary black-hole merger GW150914. *Physical Review D*, **2017**, 95, | 4.9 | 60 |
| 142 | Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. *Astrophysical Journal*, **2019**, 875, 160 | 4.7 | 60 |
| 141 | Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. *Physical Review Letters*, **2018**, 120, 201102 | 7.4 | 60 |
| 140 | Constraints on cosmic strings from the LIGO-Virgo gravitational-wave detectors. *Physical Review Letters*, **2014**, 112, 131101 | 7.4 | 59 |
| 139 | SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. *Astrophysical Journal*, **2015**, 813, 39 | 4.7 | 58 |
| 138 | Determination of astrophysical parameters from the spherical gravitational wave detector data. *Monthly Notices of the Royal Astronomical Society*, **1995**, 274, 670-678 | 4.3 | 58 |
| 137 | Directed search for continuous gravitational waves from the Galactic center. *Physical Review D*, **2013**, 88, | 4.9 | 57 |
| 136 | All-sky search for short gravitational-wave bursts in the first Advanced LIGO run. *Physical Review D*, **2017**, 95, | 4.9 | 54 |
| 135 | All-sky search for periodic gravitational waves in the O1 LIGO data. *Physical Review D*, **2017**, 96, | 4.9 | 54 |
| 134 | First all-sky search for continuous gravitational waves from unknown sources in binary systems. *Physical Review D*, **2014**, 90, | 4.9 | 54 |
| 133 | SUPPLEMENT: THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914 (2016, ApJL, 833, L1). *Astrophysical Journal, Supplement Series*, **2016**, 227, 14 | 8 | 52 |
| 132 | FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. *Astrophysical Journal, Supplement Series*, **2014**, 211, 7 | 8 | 51 |
| 131 | First Search for Nontensorial Gravitational Waves from Known Pulsars. *Physical Review Letters*, **2018**, 120, 031104 | 7.4 | 50 |
| 130 | On the Progenitor of Binary Neutron Star Merger GW170817. *Astrophysical Journal Letters*, **2017**, 850, L40 | 7.9 | 50 |
| 129 | Low-latency Gravitational-wave Alerts for Multimessenger Astronomy during the Second Advanced LIGO and Virgo Observing Run. *Astrophysical Journal*, **2019**, 875, 161 | 4.7 | 49 |
| 128 | Search for Subsolar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. *Physical Review Letters*, **2018**, 121, 231103 | 7.4 | 49 |

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|---|---|---|---|
| 127 | Search for gravitational waves from Scorpius X-1 in the first Advanced LIGO observing run with a hidden Markov model. *Physical Review D*, **2017**, 95, | 4.9 | 47 |
| 126 | A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. *Astrophysical Journal*, **2021**, 909, 218 | 4.7 | 46 |
| 125 | The basic physics of the binary black hole merger GW150914. *Annalen Der Physik*, **2017**, 529, 1600209 | 2.6 | 45 |
| 124 | Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO. *Astrophysical Journal*, **2019**, 875, 122 | 4.7 | 45 |
| 123 | First targeted search for gravitational-wave bursts from core-collapse supernovae in data of first-generation laser interferometer detectors. *Physical Review D*, **2016**, 94, | 4.9 | 43 |
| 122 | A Geometric Method for Location of Gravitational Wave Sources. *Astrophysical Journal*, **1997**, 475, 462-468 | 4.7 | 43 |
| 121 | Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. *Astrophysical Journal*, **2017**, 841, 89 | 4.7 | 42 |
| 120 | Possible Resonator Configurations for the Spherical Gravitational Wave Antenna. *General Relativity and Gravitation*, **1997**, 29, 1511-1525 | 2.3 | 40 |
| 119 | The Brazilian gravitational wave detector Mario Schenberg: status report. *Classical and Quantum Gravity*, **2006**, 23, S239-S244 | 3.3 | 40 |
| 118 | Directed search for gravitational waves from Scorpius X-1 with initial LIGO data. *Physical Review D*, **2015**, 91, | 4.9 | 38 |
| 117 | SUPPLEMENT: □OCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914□(2016, ApJL, 826, L13). *Astrophysical Journal, Supplement Series*, **2016**, 225, 8 | 8 | 38 |
| 116 | Search for Eccentric Binary Black Hole Mergers with Advanced LIGO and Advanced Virgo during Their First and Second Observing Runs. *Astrophysical Journal*, **2019**, 883, 149 | 4.7 | 36 |
| 115 | A noise model for the Brazilian gravitational wave detector ´Mario Schenberg´. *Classical and Quantum Gravity*, **2004**, 21, S1107-S1111 | 3.3 | 36 |
| 114 | Transducers for the Brazilian gravitational wave detector □Mario Schenberg□*Classical and Quantum Gravity*, **2002**, 19, 1961-1965 | 3.3 | 36 |
| 113 | Upper Limits on Gravitational Waves from Scorpius X-1 from a Model-based Cross-correlation Search in Advanced LIGO Data. *Astrophysical Journal*, **2017**, 847, 47 | 4.7 | 35 |
| 112 | Past, present and future of the Resonant-Mass gravitational wave detectors. *Research in Astronomy and Astrophysics*, **2011**, 11, 1-42 | 1.5 | 35 |
| 111 | The NINJA-2 project: detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations. *Classical and Quantum Gravity*, **2014**, 31, 115004 | 3.3 | 34 |
| 110 | The Brazilian spherical detector: progress and plans. *Classical and Quantum Gravity*, **2004**, 21, S457-S463 | 3.3 | 34 |

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|---|---|---|---|
| 109 | Search for gravitational radiation from intermediate mass black hole binaries in data from the second LIGO-Virgo joint science run. *Physical Review D*, **2014**, 89, | 4.9 | 32 |
| 108 | Search for high-energy neutrinos from gravitational wave event GW151226 and candidate LVT151012 with ANTARES and IceCube. *Physical Review D*, **2017**, 96, | 4.9 | 32 |
| 107 | Narrow-band search of continuous gravitational-wave signals from Crab and Vela pulsars in Virgo VSR4 data. *Physical Review D*, **2015**, 91, | 4.9 | 32 |
| 106 | The Brazilian gravitational wave detector Mario Schenberg: progress and plans. *Classical and Quantum Gravity*, **2005**, 22, S209-S214 | 3.3 | 32 |
| 105 | Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. *Astrophysical Journal Letters*, **2020**, 902, L21 | 7.9 | 32 |
| 104 | Search for gravitational waves associated with γ-ray bursts detected by the interplanetary network. *Physical Review Letters*, **2014**, 113, 011102 | 7.4 | 30 |
| 103 | Search for long-lived gravitational-wave transients coincident with long gamma-ray bursts. *Physical Review D*, **2013**, 88, | 4.9 | 30 |
| 102 | First low frequency all-sky search for continuous gravitational wave signals. *Physical Review D*, **2016**, 93, | 4.9 | 29 |
| 101 | Results of the deepest all-sky survey for continuous gravitational waves on LIGO S6 data running on the Einstein@Home volunteer distributed computing project. *Physical Review D*, **2016**, 94, | 4.9 | 29 |
| 100 | Comprehensive all-sky search for periodic gravitational waves in the sixth science run LIGO data. *Physical Review D*, **2016**, 94, | 4.9 | 28 |
| 99 | All-sky search for long-duration gravitational wave transients with initial LIGO. *Physical Review D*, **2016**, 93, | 4.9 | 27 |
| 98 | Implementation of an $mathcal{F}$-statistic all-sky search for continuous gravitational waves in Virgo VSR1 data. *Classical and Quantum Gravity*, **2014**, 31, 165014 | 3.3 | 27 |
| 97 | Searching for stochastic gravitational waves using data from the two colocated LIGO Hanford detectors. *Physical Review D*, **2015**, 91, | 4.9 | 26 |
| 96 | Search for gravitational wave ringdowns from perturbed intermediate mass black holes in LIGO-Virgo data from 2005–2010. *Physical Review D*, **2014**, 89, | 4.9 | 26 |
| 95 | Status Report of the Schenberg Gravitational Wave Antenna. *Journal of Physics: Conference Series*, **2012**, 363, 012003 | 0.3 | 26 |
| 94 | On the Massive Antenna Suspension System in the Brazilian Gravitational Wave Detector SCHENBERG. *Brazilian Journal of Physics*, **2016**, 46, 308-315 | 1.2 | 25 |
| 93 | Methods and results of a search for gravitational waves associated with gamma-ray bursts using the GEO 600, LIGO, and Virgo detectors. *Physical Review D*, **2014**, 89, | 4.9 | 25 |
| 92 | Multimessenger search for sources of gravitational waves and high-energy neutrinos: Initial results for LIGO-Virgo and IceCube. *Physical Review D*, **2014**, 90, | 4.9 | 25 |

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|---|---|---|---|
| 91 | The Schenberg spherical gravitational wave detector: the first commissioning runs. *Classical and Quantum Gravity*, **2008**, 25, 114042 | 3.3 | 25 |
| 90 | Tests with superconducting re-entrant cavities for transducer applications in gravitational wave detectors. *Classical and Quantum Gravity*, **2004**, 21, S1225-S1229 | 3.3 | 24 |
| 89 | Ultra-low phase noise 10 GHz oscillator to pump the parametric transducers of the Mario Schenberg gravitational wave detector. *Classical and Quantum Gravity*, **2004**, 21, S1215-S1219 | 3.3 | 23 |
| 88 | A Fermi Gamma-Ray Burst Monitor Search for Electromagnetic Signals Coincident with Gravitational-wave Candidates in Advanced LIGO's First Observing Run. *Astrophysical Journal*, **2019**, 871, 90 | 4.7 | 22 |
| 87 | Analysis and Simulation of Reentrant Cylindrical Cavities. *Journal of Infrared, Millimeter and Terahertz Waves*, **2005**, 26, 1071-1083 | | 22 |
| 86 | Stochastic background of gravitational waves. *Physical Review D*, **2000**, 61, | 4.9 | 22 |
| 85 | Constraining the p-Mode-g-Mode Tidal Instability with GW170817. *Physical Review Letters*, **2019**, 122, 061104 | 7.4 | 22 |
| 84 | Constraints on Cosmic Strings Using Data from the Third Advanced LIGO-Virgo Observing Run. *Physical Review Letters*, **2021**, 126, 241102 | 7.4 | 21 |
| 83 | Search for Gravitational-wave Signals Associated with Gamma-Ray Bursts during the Second Observing Run of Advanced LIGO and Advanced Virgo. *Astrophysical Journal*, **2019**, 886, 75 | 4.7 | 21 |
| 82 | The status of the Brazilian spherical detector. *Classical and Quantum Gravity*, **2002**, 19, 1949-1953 | 3.3 | 20 |
| 81 | Application of a Hough search for continuous gravitational waves on data from the fifth LIGO science run. *Classical and Quantum Gravity*, **2014**, 31, 085014 | 3.3 | 18 |
| 80 | Gravitational wave background from Population III black hole formation. *Monthly Notices of the Royal Astronomical Society*, **2002**, 330, 651-659 | 4.3 | 18 |
| 79 | Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced LIGO Second Observing Run. *Astrophysical Journal*, **2019**, 874, 163 | 4.7 | 17 |
| 78 | On the Cabling Seismic Isolation for the Microwave Transducers of the Schenberg Detector. *Brazilian Journal of Physics*, **2019**, 49, 133-139 | 1.2 | 17 |
| 77 | Cryogenically cooled ultra low vibration silicon mirrors for gravitational wave observatories. *Cryogenics*, **2017**, 81, 83-92 | 1.8 | 14 |
| 76 | Search of the Orion spur for continuous gravitational waves using a loosely coherent algorithm on data from LIGO interferometers. *Physical Review D*, **2016**, 93, | 4.9 | 14 |
| 75 | Searching for gravitational waves with a geostationary interferometer. *Astroparticle Physics*, **2013**, 48, 50-60 | 2.4 | 14 |
| 74 | Search for continuous gravitational waves from neutron stars in globular cluster NGC 6544. *Physical Review D*, **2017**, 95, | 4.9 | 14 |

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|---|---|---|---|
| 73 | Reentrant cavities as electromechanical transducers. *Review of Scientific Instruments*, **2004**, 75, 1000-1005 | 1.7 | 14 |
| 72 | Investigation of ultra-high sensitivity klystron cavity transducers for broadband resonant-mass gravitational wave detectors. *Journal of Physics: Conference Series*, **2008**, 122, 012028 | 0.3 | 13 |
| 71 | Gravitational wave background from black holes of the Springel & Hernquist star formation epoch. *Monthly Notices of the Royal Astronomical Society*, **2004**, 348, 1373-1378 | 4.3 | 13 |
| 70 | Diving below the Spin-down Limit: Constraints on Gravitational Waves from the Energetic Young Pulsar PSR J0537-6910. *Astrophysical Journal Letters*, **2021**, 913, L27 | 7.9 | 13 |
| 69 | All-sky search for long-duration gravitational wave transients in the first Advanced LIGO observing run. *Classical and Quantum Gravity*, **2018**, 35, 065009 | 3.3 | 12 |
| 68 | Challenges and opportunities of gravitational-wave searches at MHz to GHz frequencies. *Living Reviews in Relativity*, **2021**, 24, 1 | 32.5 | 12 |
| 67 | Response of the Brazilian gravitational wave detector to signals from a black hole ringdown. *Classical and Quantum Gravity*, **2004**, 21, S827-S832 | 3.3 | 11 |
| 66 | A cryogenic double-resonant parabridge motion transducer for resonant-mass gravitational wave detectors. *Review of Scientific Instruments*, **1991**, 62, 2523-2534 | 1.7 | 11 |
| 65 | Numerical analysis of the performance of a resonant gravity-wave detector. *Physical Review D*, **1989**, 40, 1741-1747 | 4.9 | 11 |
| 64 | Search for transient gravitational waves in coincidence with short-duration radio transients during 2007–2013. *Physical Review D*, **2016**, 93, | 4.9 | 10 |
| 63 | Detectability of f -mode unstable neutron stars by the Schenberg spherical antenna. *Classical and Quantum Gravity*, **2005**, 22, S471-S477 | 3.3 | 10 |
| 62 | Searches for Continuous Gravitational Waves from Young Supernova Remnants in the Early Third Observing Run of Advanced LIGO and Virgo. *Astrophysical Journal*, **2021**, 921, 80 | 4.7 | 10 |
| 61 | A Joint Fermi-GBM and LIGO/Virgo Analysis of Compact Binary Mergers from the First and Second Gravitational-wave Observing Runs. *Astrophysical Journal*, **2020**, 893, 100 | 4.7 | 9 |
| 60 | The Schenberg data acquisition and analysis: results from its first commissioning run. *Classical and Quantum Gravity*, **2008**, 25, 184002 | 3.3 | 8 |
| 59 | Constraints from LIGO O3 Data on Gravitational-wave Emission Due to R-modes in the Glitching Pulsar PSR J0537–6910. *Astrophysical Journal*, **2021**, 922, 71 | 4.7 | 8 |
| 58 | NON-RADIAL OSCILLATIONS OF NEUTRON STARS AND THE DETECTION OF GRAVITATIONAL WAVES. *International Journal of Modern Physics Conference Series*, **2012**, 18, 48-52 | 0.7 | 7 |
| 57 | Low-latency data analysis for the spherical detector Mario Schenberg. *Classical and Quantum Gravity*, **2014**, 31, 085012 | 3.3 | 6 |
| 56 | A perturbative solution for gravitational waves in quadratic gravity. *Classical and Quantum Gravity*, **2003**, 20, 2025-2031 | 3.3 | 6 |

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|---|---|---|---|
| 55 | Gravitational-Wave Bursts from Soft Gamma-Ray Repeaters: Can They Be Detected?. *Physical Review Letters*, **1998**, 80, 2988-2991 | 7.4 | 6 |
| 54 | Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGOVirgo Run O3a. *Astrophysical Journal*, **2021**, 915, 86 | 4.7 | 6 |
| 53 | Orbit analysis of a geostationary gravitational wave interferometer detector array. *Classical and Quantum Gravity*, **2015**, 32, 185017 | 3.3 | 5 |
| 52 | Remote coupling between a probe and a superconducting klystron cavity for use in gravitational wave detectors. *Journal of Instrumentation*, **2013**, 8, P08009-P08009 | 1 | 5 |
| 51 | Simulated Response of the MARIO SCHENBERG Detector to Gravitational Wave Signals with Noise. *Journal of Physics: Conference Series*, **2006**, 32, 18-22 | 0.3 | 5 |
| 50 | Gravitational wave background from stellar black holes in a scenario of structure formation. *Classical and Quantum Gravity*, **2004**, 21, S545-S549 | 3.3 | 5 |
| 49 | Background of gravitational waves from pre-galactic black hole formation. *Classical and Quantum Gravity*, **2002**, 19, 1335-1342 | 3.3 | 5 |
| 48 | The first phase of the Brazilian graviton project: The Mio Schenberg detector. *AIP Conference Proceedings*, **2000**, | 0 | 5 |
| 47 | Vibration isolation support system for a truncated icosahedral gravitational wave antenna. *Review of Scientific Instruments*, **2000**, 71, 2552-2559 | 1.7 | 5 |
| 46 | Timestamp Reliability of the Schenberg Gravitational Wave Detector Data Acquisition System. *IEEE Transactions on Instrumentation and Measurement*, **2015**, 64, 1987-1993 | 5.2 | 4 |
| 45 | High sensitivity niobium parametric transducer for the Mario Schenberg gravitational wave detector. *Journal of Instrumentation*, **2015**, 10, P03001-P03001 | 1 | 4 |
| 44 | A gravitational shock wave generated by a beam of null matter in quadratic gravity. *Classical and Quantum Gravity*, **2003**, 20, 1479-1487 | 3.3 | 4 |
| 43 | A proposal for improving the noise floor of the gravitational wave antenna Niob *Classical and Quantum Gravity*, **2002**, 19, 1967-1972 | 3.3 | 4 |
| 42 | Search for intermediate-mass black hole binaries in the third observing run of Advanced LIGO and Advanced Virgo. *Astronomy and Astrophysics*, | 5.1 | 4 |
| 41 | Possible Strong Gravitational Wave Sources for theLISAAntenna. *Astrophysical Journal*, **2001**, 550, 368-371 | 4.7 | 4 |
| 40 | Search for Lensing Signatures in the Gravitational-Wave Observations from the First Half of LIGOVirgo Third Observing Run. *Astrophysical Journal*, **2021**, 923, 14 | 4.7 | 4 |
| 39 | The Mario Schenberg Gravitational Wave Antenna. *Brazilian Journal of Physics*, **2016**, 46, 596-603 | 1.2 | 3 |
| 38 | Spherical gravitational wave detectors: MiniGRAIL and Mario Schenberg. *Journal of Physics: Conference Series*, **2014**, 484, 012012 | 0.3 | 3 |

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|---|---|---|---|
| 37 | High-Q superconducting niobium cavities for gravitational wave detectors. *Journal of Instrumentation*, **2014**, 9, P10001-P10001 | 1 | 3 |
| 36 | Astrophysics from data analysis of spherical gravitational wave detectors. *General Relativity and Gravitation*, **2008**, 40, 183-190 | 2.3 | 3 |
| 35 | Vibration isolation support design for the SCHENBERG detector. *Classical and Quantum Gravity*, **2002**, 19, 1985-1989 | 3.3 | 3 |
| 34 | Silicon emissivity as a function of temperature. *International Journal of Heat and Mass Transfer*, **2020**, 157, 119863 | 4.9 | 2 |
| 33 | Searching for monochromatic signals in the ALLEGRO gravitational wave detector data. *Journal of Physics: Conference Series*, **2010**, 228, 012007 | 0.3 | 2 |
| 32 | Solution of the inverse problem in spherical gravitational wave detectors using a model with independent bars. *Physical Review D*, **2008**, 78, | 4.9 | 2 |
| 31 | Excitation of Neutron Star f-mode in Low Mass X-ray Binaries. *Journal of Physics: Conference Series*, **2006**, 32, 1-5 | 0.3 | 2 |
| 30 | Can black-hole MACHO binaries be detected by the Brazilian spherical antenna?. *Classical and Quantum Gravity*, **2004**, 21, S521-S527 | 3.3 | 2 |
| 29 | Can a background of gravitational waves constrain the star formation history of the universe?. *Classical and Quantum Gravity*, **2004**, 21, S557-S562 | 3.3 | 2 |
| 28 | Overall mechanical transfer function calculated for a spherical resonant gravitational waves antenna. *Review of Scientific Instruments*, **2004**, 75, 2140-2143 | 1.7 | 2 |
| 27 | Cosmic-ray noise and gravitational wave antennas at the quantum limit. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2001**, 457, 175-179 | 1.2 | 2 |
| 26 | Perspectives on transducers for spherical gravitational wave detectors. *AIP Conference Proceedings*, **2000**, | 0 | 2 |
| 25 | Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA **2018**, 21, 1 | | 2 |
| 24 | The cosmic ray veto system of the Mario Schenberg gravitational wave detector. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2014**, 752, 65-70 | 1.2 | 1 |
| 23 | Development and measurement of 10 GHz oscillators with ultra-low phase noise. *Microwave and Optical Technology Letters*, **2009**, 51, 1120-1126 | 1.2 | 1 |
| 22 | Progress report on the development of a very high sensitivity parametric transducer for the Mario Schenberg Gravitational wave detector. *Journal of Physics: Conference Series*, **2006**, 32, 439-444 | 0.3 | 1 |
| 21 | Some results from a continuous wave search using the ALLEGRO antenna. *Classical and Quantum Gravity*, **2004**, 21, S787-S792 | 3.3 | 1 |
| 20 | Wave polarizations for a beam-like gravitational wave in quadratic curvature gravity. *Classical and Quantum Gravity*, **2004**, 21, S541-S544 | 3.3 | 1 |

| | | | |
|---|---|---|---|
| 19 | Experimental tests on re-entrant klystron cavity for a gravitational wave antenna. *Classical and Quantum Gravity*, **2004**, 21, S1221-S1224 | 3.3 | 1 |
| 18 | Excitation of the modes of a spherical antenna for gravitational waves by high energy particles. *Physical Review D*, **2001**, 64, | 4.9 | 1 |
| 17 | Fast cooling techniques for gravitational wave antennas. *Classical and Quantum Gravity*, **2002**, 19, 1973-1978 | 3.3 | 1 |
| 16 | Noise requirements of the cryogenic shielding for next generation cryocooled gravitational wave observatories: Newtonian noise. *Physical Review D*, **2021**, 104, | 4.9 | 1 |
| 15 | | | |
| 14 | Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGO–Virgo Run O3b. *Astrophysical Journal*, **2022**, 928, 186 | 4.7 | 1 |
| 13 | Sensitivity characterisation of a parametric transducer for gravitational wave detection through optical spring effect. *Classical and Quantum Gravity*, **2017**, 34, 175001 | 3.3 | |
| 12 | Do coupled nested pendula have the same eigenfrequencies as pendula in cascade?. *Journal of Instrumentation*, **2014**, 9, T08006-T08006 | 1 | |
| 11 | Single loop phase noise measurement of microwave oscillators. *Microwave and Optical Technology Letters*, **2014**, 56, 2304-2310 | 1.2 | |
| 10 | SEARCH FOR MONOCHROMATIC SIGNALS USING DATA FROM THE ALLEGRO GRAVITATIONAL WAVE DETECTOR. *International Journal of Modern Physics D*, **2010**, 19, 1293-1297 | 2.2 | |
| 9 | BROADBAND RESONANT MASS GRAVITATIONAL WAVE DETECTION. *International Journal of Modern Physics D*, **2009**, 18, 2317-2322 | 2.2 | |
| 8 | Perspectives for testing quantum aspects of gravity using LISA. *Journal of Physics: Conference Series* , **2009**, 154, 012042 | 0.3 | |
| 7 | Data Analysis of Monochromatic Signals from ALLEGRO GW Detector. *Nuclear Physics, Section B, Proceedings Supplements*, **2010**, 199, 353-356 | | |
| 6 | The antenna–transducer mechanical coupling design for the Schenberg detector. *Classical and Quantum Gravity*, **2004**, 21, S999-S1003 | 3.3 | |
| 5 | Response of spherical gravitational wave antenna modes to high-energy cosmic ray particles. *Classical and Quantum Gravity*, **2002**, 19, 1955-1960 | 3.3 | |
| 4 | Acoustic quality factor of vanadium. *Cryogenics*, **1996**, 36, 53-55 | 1.8 | |
| 3 | Design, calibration and sensitivity of a Passively Anti-Collimated (PAC) gamma-ray telescope. *Nuclear Instruments & Methods in Physics Research*, **1981**, 188, 613-617 | | |
| 2 | Thermal connection and vibrational isolation: an elegant solution for two problems. *Journal of Physics: Conference Series*, **2016**, 716, 012023 | 0.3 | |

1 Study of the effect of NbN on microwave Niobium cavities for gravitational wave detectors. *Journal of Instrumentation*, **2016**, 11, P07004-P07004 1