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California Institute of Technology
Gravitational Waves

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TITLE	CITED BY	YEAR
Search for subsolar-mass black hole binaries in the second part of Advanced LIGO's and Advanced Virgo's third observing run R Abbott, H Abe, F Acernese, K Ackley, S Adhicary, N Adhikari, ... Monthly Notices of the Royal Astronomical Society, stad588		2023
Open data from the third observing run of LIGO, Virgo, KAGRA and GEO R Abbott, H Abe, F Acernese, K Ackley, S Adhicary, N Adhikari, ... arXiv preprint arXiv:2302.03676		2023
All-sky search for continuous gravitational waves from isolated neutron stars using Advanced LIGO and Advanced Virgo O3 data R Abbott, H Abe, F Acernese, K Ackley, N Adhikari, RX Adhikari, ... Physical Review D 106 (10), 102008	18	2022
Search for gravitational-wave transients associated with magnetar bursts in Advanced LIGO and Advanced Virgo data from the third observing run R Abbott, H Abe, F Acernese, K Ackley, N Adhikari, RX Adhikari, ... arXiv preprint arXiv:2210.10931	1	2022
Search for gravitational waves from Scorpius X-1 with a hidden Markov model in O3 LIGO data R Abbott, H Abe, F Acernese, K Ackley, N Adhikari, RX Adhikari, ... Physical Review D 106 (6), 062002	6	2022
Search for continuous gravitational wave emission from the Milky Way center in O3 LIGO-Virgo data R Abbott, H Abe, F Acernese, K Ackley, N Adhikari, RX Adhikari, ... Physical Review D 106 (4), 042003	10	2022
Search for Subsolar-Mass Binaries in the First Half of Advanced LIGO's and Advanced Virgo's Third Observing Run R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, N Adhikari, ... Physical review letters 129 (6), 061104	13	2022
All-sky, all-frequency directional search for persistent gravitational waves from Advanced LIGO's and Advanced Virgo's first three observing runs R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, N Adhikari, ... Physical Review D 105 (12), 122001	12	2022
First joint observation by the underground gravitational-wave detector KAGRA with GEO 600 LIGO Scientific Collaboration, Virgo Collaboration, KAGRA Collaboration, ... Progress of Theoretical and Experimental Physics 2022 (6), 063F01	18	2022

TITLE	CITED BY	YEAR
Narrowband searches for continuous and long-duration transient gravitational waves from known pulsars in the LIGO-Virgo third observing run R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, N Adhikari, ... The Astrophysical Journal 932 (2), 133	23	2022
All-sky search for gravitational wave emission from scalar boson clouds around spinning black holes in LIGO O3 data R Abbott, H Abe, F Acernese, K Ackley, N Adhikari, RX Adhikari, ... Physical Review D 105 (10), 102001	33	2022
Search of the early O3 LIGO data for continuous gravitational waves from the Cassiopeia A and Vela Jr. supernova remnants R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, N Adhikari, ... Physical Review D 105 (8), 082005	12	2022
Search for gravitational waves associated with gamma-ray bursts detected by Fermi and Swift during the LIGO–Virgo run O3b R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, N Adhikari, ... The Astrophysical Journal 928 (2), 186	15	2022
Constraints on dark photon dark matter using data from LIGO's and Virgo's third observing run R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, N Adhikari, ... Physical review D 105 (6), 063030	23	2022
Piezo-deformable mirrors for active mode matching in advanced LIGO V Srivastava, G Mansell, C Makarem, M Noh, R Abbott, S Ballmer, ... Optics Express 30 (7), 10491-10501	4	2022
arXiv: Search for Gravitational Waves Associated with Fast Radio Bursts Detected by CHIME/FRB During the LIGO--Virgo Observing Run O3a R Abbott, ML Chiofalo, C North, R Bhandare, A Amato, B Haskell, ...		2022
Search for Gravitational Waves Associated with Fast Radio Bursts Detected by CHIME/FRB During the LIGO--Virgo Observing Run O3a R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, N Adhikari, ... arXiv preprint arXiv:2203.12038		2022
Search for intermediate-mass black hole binaries in the third observing run of Advanced LIGO and Advanced Virgo R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, N Adhikari, ... Astronomy & Astrophysics 659, A84	29	2022
Search for continuous gravitational waves from 20 accreting millisecond x-ray pulsars in O3 LIGO data R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, N Adhikari, ... Physical Review D 105 (2), 022002	33	2022
Erratum: "A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo" (2021,	3	2021

TITLE	CITED BY	YEAR
ApJ, 909, 218 BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... The Astrophysical Journal 923 (2), 279		
All-sky search for short gravitational-wave bursts in the third Advanced LIGO and Advanced Virgo run R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, N Adhikari, ... Physical Review D 104 (12), 122004	42	2021
arXiv: Tests of General Relativity with GWTC-3 R Abbott, ML Chiofalo, C North, R Bhandare, D Chen, B Haskell, ...		2021
Tests of general relativity with GWTC-3 R Abbott, H Abe, F Acernese, K Ackley, N Adhikari, RX Adhikari, ... arXiv preprint arXiv:2112.06861	58	2021
Search for lensing signatures in the gravitational-wave observations from the first half of LIGO–Virgo’s third observing run R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, A Adams, ... The Astrophysical Journal 923 (1), 14	45	2021
Point absorber limits to future gravitational-wave detectors W Jia, H Yamamoto, K Kuns, A Effler, M Evans, P Fritschel, R Abbott, ... Physical Review Letters 127 (24), 241102	2	2021
Erratum: Search for gravitational waves from Scorpius X-1 in the second Advanced LIGO observing run with an improved hidden Markov model [Phys. Rev. D 100, 122002 (2019)] BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... Physical Review D 104 (10), 109903	1	2021
Constraints from LIGO O3 Data on Gravitational-wave Emission Due to R-modes in the Glitching Pulsar PSR J0537–6910 R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, A Adams, ... The Astrophysical Journal 922 (1), 71	22	2021
GWTC-3: compact binary coalescences observed by LIGO and Virgo during the second part of the third observing run R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, N Adhikari, ... arXiv preprint arXiv:2111.03606	236	2021
The population of merging compact binaries inferred using gravitational waves through GWTC-3 R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, N Adhikari, ... arXiv preprint arXiv:2111.03634	75	2021
Constraints on the cosmic expansion history from GWTC-3 R Abbott, H Abe, F Acernese, K Ackley, N Adhikari, RX Adhikari, ... arXiv preprint arXiv:2111.03604	21	2021

TITLE	CITED BY	YEAR
Searches for continuous gravitational waves from young supernova remnants in the early third observing run of Advanced LIGO and Virgo R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, A Adams, ... The Astrophysical Journal 921 (1), 80	33	2021
All-sky search for continuous gravitational waves from isolated neutron stars in the early O3 LIGO data R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, A Adams, ... Physical Review D 104 (8), 082004	42	2021
Erratum: "Searches for Continuous Gravitational Waves from Nine Young Supernova Remnants" (2015, ApJ, 813, 39) J Aasi, BP Abbott, R Abbott, T Abbott, MR Abernathy, F Acernese, ... The Astrophysical Journal 918 (2), 90		2021
Erratum: "Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO" (2019, ApJ, 875, 122) BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... The Astrophysical Journal 918 (2), 91		2021
LIGO's quantum response to squeezed states L McCuller, SE Dwyer, AC Green, H Yu, K Kuns, L Barsotti, CD Blair, ... Physical Review D 104 (6), 062006	20	2021
GWTC-2.1: Deep extended catalog of compact binary coalescences observed by LIGO and Virgo during the first half of the third observing run R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, N Adhikari, ... arXiv preprint arXiv:2108.01045	81	2021
Search for anisotropic gravitational-wave backgrounds using data from Advanced LIGO and Advanced Virgo's first three observing runs R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, A Adams, ... Physical Review D 104 (2), 022005	56	2021
Upper limits on the isotropic gravitational-wave background from Advanced LIGO and Advanced Virgo's third observing run R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, A Adams, ... Physical Review D 104 (2), 022004	175	2021
Search for gravitational waves associated with gamma-ray bursts detected by Fermi and Swift during the LIGO–Virgo run O3a R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, C Adams, ... The Astrophysical Journal 915 (2), 86	29	2021
Observation of gravitational waves from two neutron star–black hole coalescences R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, A Adams, ... The Astrophysical journal letters 915 (1), L5	448	2021
Approaching the motional ground state of a 10-kg object C Whittle, ED Hall, S Dwyer, N Mavalvala, V Sudhir, R Abbott, ...	55	2021

TITLE	CITED BY	YEAR
Science 372 (6548), 1333-1336		
Constraints on cosmic strings using data from the third Advanced LIGO–Virgo observing run R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, A Adams, ... Physical review letters 126 (24), 241102	92	2021
Environmental noise in advanced LIGO detectors P Nguyen, RMS Schofield, A Effler, C Austin, V Adya, M Ball, S Banagiri, ... Classical and Quantum Gravity 38 (14), 145001	39	2021
Tests of general relativity with binary black holes from the second LIGO–Virgo gravitational-wave transient catalog R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, A Adams, ... Physical review D 103 (12), 122002	352	2021
GWTC-2: compact binary coalescences observed by LIGO and Virgo during the first half of the third observing run R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, A Adams, ... Physical Review X 11 (2), 021053	1307	2021
LIGO detector characterization in the second and third observing runs D Davis, JS Areeda, BK Berger, R Bruntz, A Effler, RC Essick, RP Fisher, ... Classical and Quantum Gravity 38 (13), 135014	133	2021
Diving below the spin-down limit: Constraints on gravitational waves from the energetic young pulsar PSR J0537-6910 R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, A Adams, ... The Astrophysical Journal Letters 913 (2), L27	31	2021
Population properties of compact objects from the second LIGO–Virgo Gravitational-Wave Transient Catalog R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, A Adams, ... The Astrophysical journal letters 913 (1), L7	462	2021
Point absorbers in Advanced LIGO AF Brooks, G Vajente, H Yamamoto, R Abbott, C Adams, RX Adhikari, ... Applied Optics 60 (13), 4047-4063	36	2021
A gravitational-wave measurement of the Hubble constant following the second observing run of Advanced LIGO and Virgo BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... The Astrophysical Journal 909 (2), 218	178	2021
All-sky search in early O3 LIGO data for continuous gravitational-wave signals from unknown neutron stars in binary systems R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, A Adams, ... Physical Review D 103 (6), 064017	45	2021
Open data from the first and second observing runs of Advanced LIGO and Advanced Virgo R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, C Adams, ...	278	2021

TITLE	CITED BY	YEAR
SoftwareX 13, 100658		
Searches for Continuous Gravitational Waves from Nine Young Supernova Remnants [Erratum: 2015, ApJ, 813, 39] J Aasi, BP Abbott, R Abbott, T Abbott, MR Abernathy, F Acernese, ... Astrophysical Journal 918 (2)		2021
Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO [Erratum: 2019, ApJ, 875, 122] BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... The Astrophysical Journal 918 (2)		2021
Reducing scattered light in LIGO's third observing run S Soni, C Austin, A Effler, RMS Schofield, G González, VV Frolov, ... Classical and Quantum Gravity 38 (2), 025016	59	2020
Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... Living reviews in relativity 23, 1-69	1375	2020
Improving the robustness of the advanced LIGO detectors to earthquakes E Schwartz, A Pele, J Warner, B Lantz, J Betzwieser, KL Dooley, ... Classical and Quantum Gravity 37 (23), 235007	14	2020
VizieR Online Data Catalog: 2015-2017 LIGO obs. analysis for 221 pulsars (Abbott+, 2019) BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... VizieR Online Data Catalog, J/ApJ/879/10		2020
Gravitational-wave constraints on the equatorial ellipticity of millisecond pulsars R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, A Adams, ... The Astrophysical journal letters 902 (1), L21	73	2020
Sensitivity and performance of the Advanced LIGO detectors in the third observing run A Buikema, C Cahillane, GL Mansell, CD Blair, R Abbott, C Adams, ... Physical Review D 102 (6), 062003	262	2020
GW190521: A Binary Black Hole Merger with a Total Mass of $150 M_{\odot}$ R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, C Adams, ... Physical review letters 125 (10), 101102	841	2020
Properties and astrophysical implications of the $150 M_{\odot}$ binary black hole merger GW190521 R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, C Adams, ... The Astrophysical Journal Letters 900 (1), L13	410	2020

TITLE	CITED BY	YEAR
GW190412: Observation of a binary-black-hole coalescence with asymmetric masses R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, C Adams, ... Physical Review D 102 (4), 043015	450	2020
Sensitivity and Performance of the Advanced LIGO Detectors in the Third Observing Run L List, A Buikema, C Cahillane, GL Mansell, CD Blair, R Abbott, C Adams, ... arXiv preprint arXiv:2008.01301		2020
A cryogenic silicon interferometer for gravitational-wave detection RX Adhikari, K Arai, AF Brooks, C Wipf, O Aguiar, P Altin, B Barr, L Barsotti, ... Classical and Quantum Gravity 37 (16), 165003	159	2020
GW190814: gravitational waves from the coalescence of a 23 solar mass black hole with a 2.6 solar mass compact object R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, C Adams, ... The Astrophysical Journal Letters 896 (2), L44	1055	2020
A joint Fermi-GBM and LIGO/Virgo analysis of compact binary mergers from the first and second gravitational-wave observing runs R Hamburg, C Fletcher, E Burns, A Goldstein, E Bissaldi, MS Briggs, ... The Astrophysical Journal 893 (2), 100	21	2020
Optically targeted search for gravitational waves emitted by core-collapse supernovae during the first and second observing runs of advanced LIGO and advanced Virgo BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... Physical Review D 101 (8), 084002	79	2020
GW190425: Observation of a compact binary coalescence with total mass~3.4 M$\odot$ BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... The Astrophysical Journal 892 (1), L3	1053	2020
Model comparison from LIGO–Virgo data on GW170817's binary components and consequences for the merger remnant BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... Classical and Quantum Gravity 37 (4), 045006	127	2020
A guide to LIGO–Virgo detector noise and extraction of transient gravitational-wave signals BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... Classical and Quantum Gravity 37 (5), 055002	244	2020
Active optical mode matching for the quantum squeezing cavities and upcoming ligo upgrades M Noh, HT Cao, S Ng, V Srivastava, W Jia, G Mansell, D Griffith, C Torrie, ... 6th ASPE Spring Topical Meeting on Design and Control of Precision ...	2	2020

TITLE	CITED BY	YEAR
GW190521: A Binary Black Hole Merger with a Total Mass of 150 M_{circle} dot GH Ogin, JJ Oh, SH Oh, F Ohme, H Ohta, MA Okada, M Oliver, ... PHYSICAL REVIEW LETTERS 125 (10)		2020
Quantum-enhanced advanced LIGO detectors in the era of gravitational-wave astronomy M Tse, H Yu, N Kijbunchoo, A Fernandez-Galiana, P Dupej, L Barsotti, ... Physical Review Letters 123 (23), 231107	404	2019
Search for gravitational waves from Scorpius X-1 in the second Advanced LIGO observing run with an improved hidden Markov model BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... Physical Review D 100 (12), 122002	52	2019
Search for gravitational-wave signals associated with gamma-ray bursts during the second observing run of Advanced LIGO and Advanced Virgo BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... The Astrophysical Journal 886 (1), 75	46	2019
Tests of general relativity with the binary black hole signals from the LIGO-Virgo catalog GWTC-1 BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... Physical Review D 100 (10), 104036	564	2019
Search for subsolar mass ultracompact binaries in Advanced LIGO's second observing run BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... Physical review letters 123 (16), 161102	149	2019
Search for eccentric binary black hole mergers with advanced LIGO and advanced virgo during their first and second observing runs BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... The Astrophysical Journal 883 (2), 149	87	2019
Search for intermediate mass black hole binaries in the first and second observing runs of the Advanced LIGO and Virgo network BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... Physical Review D 100 (6), 064064	70	2019
Binary black hole population properties inferred from the first and second observing runs of Advanced LIGO and Advanced Virgo BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... The Astrophysical Journal Letters 882 (2), L24	586	2019
Directional limits on persistent gravitational waves using data from Advanced LIGO's first two observing runs BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... Physical Review D 100 (6), 062001	70	2019

TITLE	CITED BY	YEAR
Search for the isotropic stochastic background using data from Advanced LIGO's second observing run L Scientific, BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, ... Physical Review D 100 (6), 061101	272	2019
GWTC-1: a gravitational-wave transient catalog of compact binary mergers observed by LIGO and Virgo during the first and second observing runs BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... Physical Review X 9 (3), 031040	2775	2019
All-sky search for short gravitational-wave bursts in the second Advanced LIGO and Advanced Virgo run BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... Physical Review D 100 (2), 024017	91	2019
Cosmic explorer: the US contribution to gravitational-wave astronomy beyond LIGO D Reitze, RX Adhikari, S Ballmer, B Barish, L Barsotti, GL Billingsley, ... arXiv preprint arXiv:1907.04833	710	2019
All-sky search for continuous gravitational waves from isolated neutron stars using Advanced LIGO O2 data BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... Physical Review D 100 (2), 024004	138	2019
Tests of general relativity with GW170817 BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... Physical review letters 123 (1), 011102	443	2019
Narrow-band search for gravitational waves from known pulsars using the second LIGO observing run BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... Physical Review D 99 (12), 122002	85	2019
Searches for gravitational waves from known pulsars at two harmonics in 2015–2017 LIGO data BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... The Astrophysical Journal 879 (1), 10	99	2019
All-sky search for long-duration gravitational-wave transients in the second Advanced LIGO observing run BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... Physical Review D 99 (10), 104033	41	2019
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 M Soares-Santos, A Palmese, W Hartley, J Annis, J Garcia-Bellido, ... The Astrophysical Journal Letters 876 (1), L7	223	2019

TITLE	CITED BY	YEAR
Low-latency gravitational-wave alerts for multimessenger astronomy during the second Advanced LIGO and virgo observing run BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... The Astrophysical Journal 875 (2), 161	97	2019
Search for gravitational waves from a long-lived remnant of the binary neutron star merger GW170817 BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... The Astrophysical Journal 875 (2), 160	118	2019
Searches for continuous gravitational waves from 15 supernova remnants and Fomalhaut b with advanced LIGO BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... The Astrophysical Journal 875 (2), 122	56	2019
Search for transient gravitational-wave signals associated with magnetar bursts during Advanced LIGO's second observing run BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... The Astrophysical Journal 874 (2), 163	44	2019
The US program in ground-based gravitational wave science: Contribution from the LIGO Laboratory D Reitze, R Abbott, C Adams, R Adhikari, N Aggarwal, S Anand, ... arXiv preprint arXiv:1903.04615	38	2019
Improving astrophysical parameter estimation via offline noise subtraction for Advanced LIGO JC Driggers, S Vitale, AP Lundgren, M Evans, K Kawabe, SE Dwyer, ... Physical Review D 99 (4), 042001	115	2019
Constraining the p-Mode-g-Mode Tidal Instability with GW170817 BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... Physical review letters 122 (6), 061104	50	2019
A fermi gamma-ray burst monitor search for electromagnetic signals coincident with gravitational-wave candidates in advanced LIGO's first observing run E Burns, A Goldstein, CM Hui, L Blackburn, MS Briggs, V Connaughton, ... The Astrophysical Journal 871 (1), 90	34	2019
Search for multimessenger sources of gravitational waves and high-energy neutrinos with advanced LIGO during its first observing run, ANTARES, and IceCube A Albert, M André, M Anghinolfi, M Ardid, JJ Aubert, J Aublin, T Avgitas, ... The Astrophysical Journal 870 (2), 134	54	2019
Properties of the binary neutron star merger GW170817 BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... Physical Review X 9 (1), 011001	1024	2019

TITLE	CITED BY	YEAR
Searches for Continuous Gravitational Waves from Fifteen Supernova Remnants and Fomalhaut b with Advanced LIGO BP Abbott, R Abbott, TD Abbott, S Abraham, F Acernese, K Ackley, ... arXiv preprint arXiv:1812.11656	2	2018
Search for subsolar-mass ultracompact binaries in Advanced LIGO's first observing run BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... Physical review letters 121 (23), 231103	106	2018
GW170817: Measurements of neutron star radii and equation of state BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... Physical review letters 121 (16), 161101	1553	2018
Search for tensor, vector, and scalar polarizations in the stochastic gravitational-wave background BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... Physical review letters 120 (20), 201102	113	2018
Full band all-sky search for periodic gravitational waves in the O1 LIGO data BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... Physical Review D 97 (10), 102003	50	2018
Constraints on cosmic strings using data from the first Advanced LIGO observing run BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... Physical Review D 97 (10), 102002	158	2018
Identification and mitigation of narrow spectral artifacts that degrade searches for persistent gravitational waves in the first two observing runs of Advanced LIGO PB Covas, A Effler, E Goetz, PM Meyers, A Neunzert, M Oliver, ... Physical Review D 97 (8), 082002	143	2018
GW170817: implications for the stochastic gravitational-wave background from compact binary coalescences BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... Physical review letters 120 (9), 091101	235	2018
Effect of elevated substrate temperature deposition on the mechanical losses in tantala thin film coatings G Vajente, R Birney, A Ananyeva, S Angelova, R Asselin, B Baloukas, ... Classical and Quantum Gravity 35 (7), 075001	34	2018
All-sky search for long-duration gravitational wave transients in the first Advanced LIGO observing run BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... Classical and Quantum Gravity 35 (6), 065009	26	2018

TITLE	CITED BY	YEAR
Effects of data quality vetoes on a search for compact binary coalescences in Advanced LIGO's first observing run BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... Classical and Quantum Gravity 35 (6), 065010	133	2018
First search for nontensorial gravitational waves from known pulsars BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... Physical review letters 120 (3), 031104	82	2018
First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... Physical Review D 96 (12), 122006	64	2017
GW170608: observation of a 19 solar-mass binary black hole coalescence BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... The Astrophysical Journal Letters 851 (2), L35	1149	2017
First low-frequency Einstein@ Home all-sky search for continuous gravitational waves in Advanced LIGO data BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... Physical Review D 96 (12), 122004	82	2017
Search for post-merger gravitational waves from the remnant of the binary neutron star merger GW170817 BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... The Astrophysical Journal Letters 851 (1), L16	192	2017
On the progenitor of binary neutron star merger GW170817 BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... The Astrophysical Journal Letters 850 (2), L40	90	2017
Estimating the contribution of dynamical ejecta in the kilonova associated with GW170817 BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... The Astrophysical Journal Letters 850 (2), L39	187	2017
Effects of transients in LIGO suspensions on searches for gravitational waves M Walker, TD Abbott, SM Aston, G González, DM Macleod, J McIver, ... Review of Scientific Instruments 88 (12), 124501	5	2017
VizieR Online Data Catalog: Gravitational waves search from known PSR with LIGO (Abbott+, 2017) BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... VizieR Online Data Catalog, J/ApJ/839/12		2017
Search for high-energy neutrinos from binary neutron star merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory A Albert, M André, M Anghinolfi, M Ardid, JJ Aubert, J Aublin, T Avgitas, ... arXiv preprint arXiv:1710.05839	188	2017

TITLE	CITED BY	YEAR
Gravitational waves and gamma-rays from a binary neutron star merger: GW170817 and GRB 170817A BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... The Astrophysical Journal Letters 848 (2), L13	2588	2017
GW170817: observation of gravitational waves from a binary neutron star inspiral BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... Physical review letters 119 (16), 161101	7843	2017
GW170814: a three-detector observation of gravitational waves from a binary black hole coalescence BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... Physical review letters 119 (14), 141101	2149	2017
Upper limits on gravitational waves from Scorpius X-1 from a model-based cross-correlation search in advanced LIGO data BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... The Astrophysical Journal 847 (1), 47	70	2017
All-sky search for periodic gravitational waves in the O1 LIGO data BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... Physical Review D 96 (6), 062002	90	2017
Search for high-energy neutrinos from gravitational wave event GW151226 and candidate LVT151012 with ANTARES and IceCube A Albert, M André, M Anghinolfi, G Anton, M Ardid, JJ Aubert, T Avgitas, ... Physical Review D 96 (2), 022005	75	2017
Search for intermediate mass black hole binaries in the first observing run of Advanced LIGO BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... Physical Review D 96 (2), 022001	115	2017
A high throughput instrument to measure mechanical losses in thin film coatings G Vajente, A Ananyeva, G Billingsley, E Gustafson, A Heptonstall, ... Review of Scientific Instruments 88 (7), 073901	35	2017
Search for gravitational waves from Scorpius X-1 in the first Advanced LIGO observing run with a hidden Markov model BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, C Adams, T Adams, ... Physical Review D 95 (12), 122003	82	2017
GW170104: observation of a 50-solar-mass binary black hole coalescence at redshift 0.2 L Scientific, BP Abbott, R Abbott, TD Abbott, F Acernese, K Ackley, ... Physical review letters 118 (22), 221101	2623	2017
VizieR Online Data Catalog: Gravitational waves from known pulsars (Aasi+, 2014)		2017

TITLE	CITED BY	YEAR
J Aasi, J Abadie, BP Abbott, R Abbott, T Abbott, MR Abernathy, T Accadia, ... VizieR Online Data Catalog, J/ApJ/785/119		
Search for gravitational waves associated with gamma-ray bursts during the first Advanced LIGO observing run and implications for the origin of GRB 150906B BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... The Astrophysical Journal 841 (2), 89	96	2017
Quantum correlation measurements in interferometric gravitational-wave detectors DV Martynov, VV Frolov, S Kandhasamy, K Izumi, H Miao, N Mavalvala, ... Physical Review A 95 (4), 043831	29	2017
Search for continuous gravitational waves from neutron stars in globular cluster NGC 6544 BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... Physical Review D 95 (8), 082005	21	2017
Effects of waveform model systematics on the interpretation of GW150914 BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... Classical and Quantum Gravity 34 (10), 104002	139	2017
First demonstration of electrostatic damping of parametric instability at Advanced LIGO C Blair, S Gras, R Abbott, S Aston, J Betzwieser, D Blair, R DeRosa, ... Physical review letters 118 (15), 151102	43	2017
First search for gravitational waves from known pulsars with Advanced LIGO BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... The Astrophysical Journal 839 (1), 12	168	2017
Design of a tuned mass damper for high quality factor suspension modes in Advanced LIGO NA Robertson, P Fritschel, B Shapiro, CI Torrie, M Evans Review of Scientific Instruments 88 (3), 035117	5	2017
Calibration of the Advanced LIGO detectors for the discovery of the binary black-hole merger GW150914 BP Abbott, R Abbott, TD Abbott, MR Abernathy, K Ackley, C Adams, ... Physical Review D 95 (6), 062003	124	2017
Directional limits on persistent gravitational waves from Advanced LIGO's first observing run BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... Physical review letters 118 (12), 121102	117	2017

TITLE	CITED BY	YEAR
Upper limits on the stochastic gravitational-wave background from Advanced LIGO's first observing run BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... Physical review letters 118 (12), 121101	262	2017
Optic Green Light Illumination System CI Torrie, KE Gushwa, G Billingsley, BP Abbott, EJ Sanchez US Patent App. 15/267,064		2017
All-sky search for short gravitational-wave bursts in the first Advanced LIGO run BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... Physical Review D 95 (4), 042003	100	2017
Exploring the sensitivity of next generation gravitational wave detectors BP Abbott, R Abbott, TD Abbott, MR Abernathy, K Ackley, C Adams, ... Classical and Quantum Gravity 34 (4), 044001	967	2017
Multi-messenger observations of a binary neutron star merger TD Abbott, F Acernese, K Ackley, C Adams, T Adams, P Addesso, ... The Astrophysical Journal Letters 848 (2), L12	11	2017
Calibration of the Advanced LIGO detectors for the discovery of the binary black-hole merger GW150914 S Chao, P Charlton, HY Chen, Y Chen, C Cheng, HS Cho, M Cho, ...		2017
The basic physics of the binary black hole merger GW150914 LIGO Scientific and VIRGO collaborations, BP Abbott, R Abbott, TD Abbott, ... Annalen der Physik 529 (1-2), 1600209	141	2017
Multi-messenger observations of a binary neutron star merger FGB Monitor, C Collaborations, CN JAGWAR, NC TTU-NRAO, OD Aguiar, ... Astrophysical Journal Letters 848 (2)	1	2017
The rate of binary black hole mergers inferred from Advanced LIGO observations surrounding GW150914 BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... The Astrophysical journal letters 833 (1), L1	342	2016
Upper limits on the rates of binary neutron star and neutron star–black hole mergers from advanced LIGO's first observing run BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... The Astrophysical Journal Letters 832 (2), L21	187	2016
Results of the deepest all-sky survey for continuous gravitational waves on LIGO S6 data running on the Einstein@ Home volunteer distributed computing project BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... Physical Review D 94 (10), 102002	45	2016

TITLE	CITED BY	YEAR
First targeted search for gravitational-wave bursts from core-collapse supernovae in data of first-generation laser interferometer detectors BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... Physical Review D 94 (10), 102001	101	2016
Improved analysis of GW150914 using a fully spin-precessing waveform model BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... Physical Review X 6 (4), 041014	170	2016
Binary black hole mergers in the first advanced LIGO observing run BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... Physical Review X 6 (4), 041015	1653	2016
Directly comparing GW150914 with numerical solutions of Einstein's equations for binary black hole coalescence BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... Physical Review D 94 (6), 064035	139	2016
Comprehensive all-sky search for periodic gravitational waves in the sixth science run LIGO data BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... Physical Review D 94 (4), 042002	51	2016
Assessing accuracy of waveform models to best interpret GW150914 BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ...		2016
Searches for continuous gravitational waves from Scorpius X-1 and XTE J1705-305 BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ...		2016
Searches for continuous gravitational waves from Cas A BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ...		2016
Localization and broadband follow-up of the gravitational-wave transient GW150914 BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... The Astrophysical journal letters 826 (1), L13	268	2016
Supplement: "localization and broadband follow-up of the gravitational-wave transient GW150914" (2016, ApJL, 826, L13) BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... The Astrophysical Journal Supplement Series 225 (1), 8	44	2016
High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube S Adrián-Martínez, A Albert, M André, M Anghinolfi, G Anton, M Ardid, ... Physical Review D 93 (12), 122010	169	2016
Search for transient gravitational waves in coincidence with short-duration radio transients during 2007–2013	36	2016

TITLE	CITED BY	YEAR
BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... Physical Review D 93 (12), 122008		
GW151226: observation of gravitational waves from a 22-solar-mass binary black hole coalescence BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... Physical review letters 116 (24), 241103	3611	2016
Properties of the binary black hole merger GW150914 BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... Physical review letters 116 (24), 241102	929	2016
Observing gravitational-wave transient GW150914 with minimal assumptions BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... Physical Review D 93 (12), 122004	208	2016
GW150914: First results from the search for binary black hole coalescence with Advanced LIGO BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... Physical Review D 93 (12), 122003	459	2016
Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914 BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... Classical and Quantum Gravity 33 (13), 134001	393	2016
Sensitivity of the Advanced LIGO detectors at the beginning of gravitational wave astronomy DV Martynov, ED Hall, BP Abbott, R Abbott, TD Abbott, C Adams, ... Physical Review D 93 (11), 112004	479	2016
Tests of general relativity with GW150914 L Scientific, V Collaborations, BP Abbott, R Abbott, TD Abbott, ... Physical review letters 116 (22), 221101	1477	2016
GW150914: Implications for the stochastic gravitational-wave background from binary black holes BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... Physical review letters 116 (13), 131102	388	2016
GW150914: The Advanced LIGO detectors in the era of first discoveries BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... Physical review letters 116 (13), 131103	667	2016
First low frequency all-sky search for continuous gravitational wave signals J Aasi, BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, ... Physical Review D 93 (4), 042007	41	2016
Search of the Orion spur for continuous gravitational waves using a loosely coherent algorithm on data from LIGO interferometers J Aasi, BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, ...	22	2016

TITLE	CITED BY	YEAR
Physical Review D 93 (4), 042006		
All-sky search for long-duration gravitational wave transients with initial LIGO BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... Physical Review D 93 (4), 042005	46	2016
Observation of gravitational waves from a binary black hole merger BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... Physical review letters 116 (6), 061102	13319	2016
Astrophysical implications of the binary black hole merger GW150914 BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... The Astrophysical Journal Letters 818 (2), L22	754	2016
Properties of the Binary Black Hole Merger GW150914 V Boschi, S Bose, Y Bouffanais, A Bozzi, C Bradaschia, PR Brady, ...		2016
Prospects for observing and localizing gravitational-wave transients with Advanced LIGO and Advanced Virgo J Aasi, J Abadie, BP Abbott, R Abbott, TD Abbott, M Abernathy, T Accadia, ... Living Reviews in Relativity 19	83	2016
Improved Analysis of GW150914 Using a Fully Spin-Precessing Waveform Model PR Brady, VB Braginsky, M Branchesi, JE Brau, T Briant, A Brillet, ...		2016
Recent results and conclusions from tests of the UIM blade non-magnetic damper N Robertson, C Torrie, LS Collaboration LIGO Document: LIGO-T1600046	3	2016
SUPPLEMENT: THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914 (2016, ApJL, 833, L1) S Bose, Y Bouffanais, A Bozzi, C Bradaschia, PR Brady, VB Braginsky, ...		2016
Directly comparing GW150914 with numerical solutions of Einstein's equations for binary black hole coalescence VB Braginsky, M Branchesi, JE Brau, T Briant, A Brillet, M Brinkmann, ...		2016
First low frequency all-sky search for continuous gravitational wave signals J Chow, G Mansell, D McClelland, T Nguyen, D Rabeling, SM Scott, ... American Physical Society		2016
Observation of Gravitational Waves from a Binary Black Hole Merger R Bonnard, BA Boom, R Bork, V Boschi, S Bose, Y Bouffanais, A Bozzi, ...		2016
Binary Black Hole Mergers in the First Advanced LIGO Observing Run PR Brady, VB Braginsky, M Branchesi, JE Brau, T Briant, A Brillet, ...		2016

TITLE	CITED BY	YEAR
Observing gravitational-wave transient GW150914 with minimal assumptions V Boschi, S Bose, Y Bouffanais, A Bozzi, C Bradaschia, PR Brady, ...		2016
ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914 V Boschi, S Bose, Y Bouffanais, A Bozzi, C Bradaschia, PR Brady, ...		2016
LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914 BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ... American Astronomical Society		2016
GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence PR Brady, VB Braginsky, M Branchesi, JE Brau, T Briant, A Brillet, ...		2016
GW150914: The Advanced LIGO Detectors in the Era of First Discoveries S Bose, Y Bouffanais, A Bozzi, C Bradaschia, PR Brady, VB Braginsky, ...		2016
Supplement:“Localization and Broadband Follow-up of the Gravitational-wave Transient GW150914”(2016, ApJS, 225, 8) BP Abbott, R Abbott, TD Abbott, MR Abernathy, F Acernese, K Ackley, ...		2016
Searches for continuous gravitational waves from nine young supernova remnants J Aasi, BP Abbott, R Abbott, T Abbott, MR Abernathy, F Acernese, ... The Astrophysical Journal 813 (1), 39	91	2015
Characterization of the LIGO detectors during their sixth science run J Aasi, J Abadie, BP Abbott, R Abbott, T Abbott, MR Abernathy, T Accadia, ... Classical and Quantum Gravity 32 (11), 115012	511	2015
Directed search for gravitational waves from Scorpius X-1 with initial LIGO data J Aasi, BP Abbott, R Abbott, T Abbott, MR Abernathy, F Acernese, ... Physical Review D 91 (6), 062008	72	2015
Advanced ligo J Aasi, BP Abbott, R Abbott, T Abbott, MR Abernathy, K Ackley, C Adams, ... Classical and quantum gravity 32 (7), 074001	3271	2015
Narrow-band search of continuous gravitational-wave signals from Crab and Vela pulsars in Virgo VSR4 data J Aasi, BP Abbott, R Abbott, T Abbott, MR Abernathy, F Acernese, ... Physical Review D 91 (2), 022004	61	2015
Searching for stochastic gravitational waves using data from the two colocated LIGO Hanford detectors J Aasi, J Abadie, BP Abbott, R Abbott, T Abbott, MR Abernathy, T Accadia, ... Physical Review D 91 (2), 022003	64	2015

TITLE	CITED BY	YEAR
Improved upper limits on the stochastic gravitational-wave background from 2009–2010 LIGO and Virgo data J Aasi, BP Abbott, R Abbott, T Abbott, MR Abernathy, T Accadia, ... Physical Review Letters 113 (23), 231101	134	2014
Multimessenger search for sources of gravitational waves and high-energy neutrinos: Initial results for LIGO-Virgo and IceCube MG Aartsen, M Ackermann, J Adams, JA Aguilar, M Ahlers, M Ahrens, ... Physical Review D 90 (10), 102002	54	2014
Coming clean: understanding and mitigating optical contamination and laser induced damage in advanced LIGO KE Gushwa, CI Torrie Laser-Induced Damage in Optical Materials: 2014 9237, 923702	11	2014
First all-sky search for continuous gravitational waves from unknown sources in binary systems J Aasi, BP Abbott, R Abbott, T Abbott, MR Abernathy, T Accadia, ... Physical Review D 90 (6), 062010	88	2014
Implementation of an-statistic all-sky search for continuous gravitational waves in virgo vsr1 data J Aasi, BP Abbott, R Abbott, T Abbott, MR Abernathy, T Accadia, ... Classical and quantum gravity 31 (16), 165014	55	2014
Protective devices and methods for precision application of cleaning polymer to optics MH Phelps, KE Gushwa, EJ Sanchez, CI Torrie US Patent App. 14/150,421	1	2014
Search for Gravitational Waves Associated with γ-ray Bursts Detected by the Interplanetary Network J Aasi, BP Abbott, R Abbott, T Abbott, MR Abernathy, F Acernese, ... Physical review letters 113 (1), 011102	60	2014
Methods and results of a search for gravitational waves associated with gamma-ray bursts using the GEO 600, LIGO, and Virgo detectors J Aasi, BP Abbott, R Abbott, T Abbott, MR Abernathy, F Acernese, ... Physical Review D 89 (12), 122004	52	2014
Search for gravitational radiation from intermediate mass black hole binaries in data from the second LIGO-Virgo joint science run J Aasi, BP Abbott, R Abbott, T Abbott, MR Abernathy, T Accadia, ... Physical Review D 89 (12), 122003	65	2014
Search for gravitational wave ringdowns from perturbed intermediate mass black holes in LIGO-Virgo data from 2005–2010 J Aasi, BP Abbott, R Abbott, T Abbott, MR Abernathy, F Acernese, ... Physical Review D 89 (10), 102006	54	2014

TITLE	CITED BY	YEAR
The NINJA-2 project: detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations J Aasi, BP Abbott, R Abbott, T Abbott, MR Abernathy, T Accadia, ... Classical and Quantum Gravity 31 (11), 115004	75	2014
Constraints on cosmic strings from the LIGO-Virgo gravitational-wave detectors J Aasi, J Abadie, BP Abbott, R Abbott, T Abbott, MR Abernathy, T Accadia, ... Physical Review Letters 112 (13), 131101	110	2014
Application of a Hough search for continuous gravitational waves on data from the fifth LIGO science run J Aasi, J Abadie, BP Abbott, R Abbott, T Abbott, MR Abernathy, T Accadia, ... Classical and Quantum Gravity 31 (8), 085014	44	2014
Gravitational waves from known pulsars: results from the initial detector era J Aasi, J Abadie, BP Abbott, R Abbott, T Abbott, MR Abernathy, T Accadia, ... The Astrophysical Journal 785 (2), 119	190	2014
First searches for optical counterparts to gravitational-wave candidate events J Aasi, J Abadie, BP Abbott, R Abbott, T Abbott, MR Abernathy, T Accadia, ... The Astrophysical Journal Supplement Series 211 (1), 7	102	2014
The NINJA-2 project: Detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations SW Ballmer, S Dhurandhar, A Bertolini, M Hanke, P Kwee, GS Davies, ...		2014
First searches for optical counterparts to gravitational-wave candidate events J Chow, S Chua, R Inta, D McClelland, J Miller, T Nguyen, SM Scott, ... Institute of Physics Publishing		2014
Implementation of an F-statistic all-sky search for continuous gravitational waves in Virgo VSR1 data J Chow, S Chua, D McClelland, T Nguyen, SM Scott, R Ward, ... Institute of Physics Publishing		2014
Search for long-lived gravitational-wave transients coincident with long gamma-ray bursts J Aasi, J Abadie, BP Abbott, R Abbott, T Abbott, MR Abernathy, T Accadia, ... Physical Review D 88 (12), 122004	47	2013
Directed search for continuous gravitational waves from the Galactic center J Aasi, J Abadie, BP Abbott, R Abbott, T Abbott, MR Abernathy, T Accadia, ... Physical Review D 88 (10), 102002	105	2013
Optical contamination control in the Advanced LIGO ultra-high vacuum system MH Phelps, KE Gushwa, CI Torrie Laser-Induced Damage in Optical Materials: 2013 8885, 314-327	8	2013

TITLE	CITED BY	YEAR
Parameter estimation for compact binary coalescence signals with the first generation gravitational-wave detector network J Aasi, J Abadie, BP Abbott, R Abbott, TD Abbott, M Abernathy, T Accadia, ... Physical Review D 88 (6), 062001	203	2013
Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light J Aasi, J Abadie, BP Abbott, R Abbott, TD Abbott, MR Abernathy, C Adams, ... Nature Photonics 7 (8), 613-619	1136	2013
A first search for coincident gravitational waves and high energy neutrinos using LIGO, Virgo and ANTARES data from 2007 S Adrián-Martínez, I Al Samarai, A Albert, M André, M Anghinolfi, G Anton, ... Journal of Cosmology and Astroparticle Physics 2013 (06), 008	70	2013
aLIGO Contamination Control Plan B Bland, J Fauver, M Heintze, C Torrie, D Coyne LIGO-E0900047-v21	2	2013
Einstein@ Home all-sky search for periodic gravitational waves in LIGO S5 data J Aasi, J Abadie, BP Abbott, R Abbott, TD Abbott, M Abernathy, T Accadia, ... Physical Review D 87 (4), 042001	137	2013
Search for gravitational waves from binary black hole inspiral, merger, and ringdown in LIGO-Virgo data from 2009–2010 J Aasi, J Abadie, BP Abbott, R Abbott, TD Abbott, M Abernathy, T Accadia, ... Physical Review D 87 (2), 022002	162	2013
HAM Small triple suspension final design document NA Robertson, M Barton, M Meyer, J Romie, C Torrie, J Kissel, ... LIGO, Internal Technical Document T0900435	4	2013
Search for long-lived gravitational-wave transients coincident with long gamma-ray bursts J Chow, S Chua, R Inta, D McClelland, J Miller, T Nguyen, SM Scott, ... American Physical Society		2013
Directed search for continuous gravitational waves from the Galactic center J Chow, S Chua, R Inta, D McClelland, J Miller, C Mow-Lowry, T Nguyen, ... American Physical Society		2013
Swift follow-up observations of candidate gravitational-wave transient events PA Evans, JK Fridriksson, N Gehrels, J Homan, JP Osborne, M Siegel, ... The Astrophysical Journal Supplement Series 203 (2), 28	48	2012
Search for gravitational waves associated with gamma-ray bursts during LIGO science run 6 and Virgo science runs 2 and 3 J Abadie, BP Abbott, R Abbott, TD Abbott, M Abernathy, T Accadia, ... The Astrophysical Journal 760 (1), 12	188	2012

TITLE	CITED BY	YEAR
Update on quadruple suspension design for Advanced LIGO SM Aston, MA Barton, AS Bell, N Beveridge, B Bland, AJ Brummitt, ... Classical and Quantum Gravity 29 (23), 235004	190	2012
Implications for the Origin of GRB 051103 from LIGO Observations J Abadie, BP Abbott, TD Abbott, R Abbott, M Abernathy, C Adams, ... The Astrophysical Journal 755 (1), 2	94	2012
The characterization of Virgo data and its impact on gravitational-wave searches J Aasi, J Abadie, BP Abbott, R Abbott, TD Abbott, M Abernathy, T Accadia, ... Classical and Quantum Gravity 29 (15), 155002	131	2012
All-sky search for gravitational-wave bursts in the second joint LIGO-Virgo run J Abadie, BP Abbott, R Abbott, TD Abbott, M Abernathy, T Accadia, ... Physical Review D 85 (12), 122007	184	2012
Upper limits on a stochastic gravitational-wave background using LIGO and Virgo interferometers at 600–1000 Hz J Abadie, BP Abbott, R Abbott, TD Abbott, M Abernathy, T Accadia, ... Physical Review D 85 (12), 122001	84	2012
Search for gravitational waves from intermediate mass binary black holes J Abadie, BP Abbott, R Abbott, TD Abbott, M Abernathy, T Accadia, ... Physical Review D 85 (10), 102004	98	2012
First low-latency LIGO+ Virgo search for binary inspirals and their electromagnetic counterparts J Abadie, BP Abbott, R Abbott, TD Abbott, M Abernathy, T Accadia, ... Astronomy & Astrophysics 541, A155	122	2012
Search for gravitational waves from low mass compact binary coalescence in LIGO's sixth science run and Virgo's science runs 2 and 3 J Abadie, BP Abbott, R Abbott, TD Abbott, M Abernathy, T Accadia, ... Physical Review D 85 (8), 082002	332	2012
Publisher's Note: All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run [Phys. Rev. D 81, 102001 (2010)] J Abadie, BP Abbott, R Abbott, T Accadia, F Acernese, R Adhikari, P Ajith, ... Physical Review D 85 (8), 089905		2012
Publisher's Note: Search for gravitational waves from binary black hole inspiral, merger, and ringdown [Phys. Rev. D 83, 122005 (2011)] J Abadie, BP Abbott, R Abbott, M Abernathy, T Accadia, F Acernese, ... Physical Review D 85 (8), 089904		2012
Publisher's Note: Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1 [Phys. Rev. D 82, 102001 (2010)] J Abadie, BP Abbott, R Abbott, M Abernathy, T Accadia, F Acernese, ...	1	2012

TITLE	CITED BY	YEAR
Physical Review D 85 (8), 089903		
Implementation and testing of the first prompt search for gravitational wave transients with electromagnetic counterparts J Abadie, BP Abbott, R Abbott, TD Abbott, M Abernathy, T Accadia, ... Astronomy & Astrophysics 539, A124	130	2012
Design and development of the advanced LIGO monolithic fused silica suspension AV Cumming, AS Bell, L Barsotti, MA Barton, G Cagnoli, D Cook, ... Classical and Quantum Gravity 29 (3), 035003	153	2012
All-sky search for periodic gravitational waves in the full S5 LIGO data J Abadie, BP Abbott, R Abbott, TD Abbott, M Abernathy, T Accadia, ... Physical Review D 85 (2), 022001	96	2012
Implementation and testing of the first prompt search for electromagnetic counterparts to gravitational wave transients J Abadie, BP Abbott, R Abbott, TD Abbott, M Abernathy, T Accadia, ... Astronomy and Astrophysics 539	27	2012
Directional limits on persistent gravitational waves using LIGO S5 science data J Abadie, BP Abbott, R Abbott, M Abernathy, T Accadia, F Acernese, ... Physical Review Letters 107 (27), 271102	143	2011
Beating the spin-down limit on gravitational wave emission from the Vela pulsar J Abadie, BP Abbott, R Abbott, M Abernathy, T Accadia, F Acernese, ... The Astrophysical Journal 737 (2), 93	147	2011
Search for gravitational waves from binary black hole inspiral, merger, and ringdown J Abadie, BP Abbott, R Abbott, M Abernathy, T Accadia, F Acernese, ... Physical Review D 83 (12), 122005	147	2011
Search for gravitational wave bursts from six magnetars J Abadie, BP Abbott, R Abbott, M Abernathy, T Accadia, F Acernese, ... The Astrophysical journal letters 734 (2), L35	88	2011
Search for gravitational waves associated with the August 2006 timing glitch of the Vela pulsar J Abadie, BP Abbott, R Abbott, R Adhikari, P Ajith, B Allen, G Allen, ... Physical Review D 83 (4), 042001	79	2011
Damping parametric instabilities in future gravitational wave detectors by means of electrostatic actuators J Miller, M Evans, L Barsotti, P Fritschel, M MacInnis, R Mittleman, ... Physics Letters A 375 (3), 788-794	53	2011

TITLE	CITED BY	YEAR
Models of the advanced ligo suspensions in matlab M Barton, C Torrie, K Strain, N Robertson Tech. Rep. LIGO-T080188	2	2011
Calibration of the LIGO gravitational wave detectors in the fifth science run J Abadie, BP Abbott, R Abbott, M Abernathy, C Adams, R Adhikari, P Ajith, ... Nuclear Instruments and Methods in Physics Research Section A: Accelerators ...	180	2010
Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1 J Abadie, BP Abbott, R Abbott, M Abernathy, T Accadia, F Acernese, ... Physical Review D 82 (10), 102001	172	2010
First search for gravitational waves from the youngest known neutron star J Abadie, BP Abbott, R Abbott, M Abernathy, C Adams, R Adhikari, P Ajith, ... The Astrophysical Journal 722 (2), 1504	153	2010
Re-evaluation of the mechanical loss factor of hydroxide-catalysis bonds and its significance for the next generation of gravitational wave detectors L Cunningham, PG Murray, A Cumming, EJ Elliffe, GD Hammond, ... Physics Letters A 374 (39), 3993-3998	43	2010
Predictions for the rates of compact binary coalescences observable by ground-based gravitational-wave detectors J Abadie, BP Abbott, R Abbott, M Abernathy, T Accadia, F Acernese, ... Classical and Quantum Gravity 27 (17), 173001	1366	2010
Search for gravitational-wave bursts associated with gamma-ray bursts using data from LIGO Science Run 5 and Virgo Science Run 1 BP Abbott, R Abbott, F Acernese, R Adhikari, P Ajith, B Allen, G Allen, ... The Astrophysical Journal 715 (2), 1438	136	2010
Search for gravitational-wave inspiral signals associated with short Gamma-Ray Bursts during LIGO's fifth and Virgo's first science run J Abadie, BP Abbott, R Abbott, T Accadia, F Acernese, R Adhikari, P Ajith, ... The Astrophysical Journal 715 (2), 1453	149	2010
All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run J Abadie, BP Abbott, R Abbott, T Accadia, F Acernese, R Adhikari, P Ajith, ... Physical Review D 81 (10), 102001	205	2010
Searches for gravitational waves from known pulsars with science run 5 LIGO data BP Abbott, R Abbott, F Acernese, R Adhikari, P Ajith, B Allen, G Allen, ... The Astrophysical Journal 713 (1), 671	244	2010
Sensitivity to gravitational waves from compact binary coalescences achieved during LIGO's fifth and VIRGO's first science run J Abadie, BP Abbott, R Abbott, M Abernathy, T Accadia, F Acernese, ... arXiv preprint arXiv:1003.2481	14	2010

TITLE	CITED BY	YEAR
Investigation of mechanical dissipation in CO2 laser-drawn fused silica fibres and welds A Heptonstall, M Barton, C Cantley, A Cumming, G Cagnoli, J Hough, ... Classical and Quantum Gravity 27 (3), 035013	32	2010
Searches for gravitational waves from known pulsars with science run 5 ligo data M Gray, PK Lam, D McClelland, K McKenzie, C Mow-Lowry, A Mullavey, ... IOP Publishing		2010
Calibration of the LIGO gravitational wave detectors in the fifth science run S Chua, R Inta, D McClelland, C Mow-Lowry, A Mullavey, M Satterthwaite, ... Elsevier		2010
First search for gravitational waves from the youngest known neutron star S Chua, R Inta, D McClelland, C Mow-Lowry, A Mullavey, M Satterthwaite, ... IOP Publishing		2010
Predictions for the rates of compact binary coalescences observable by ground-based gravitational-wave detectors S Chua, R Inta, D McClelland, C Mow-Lowry, A Mullavey, M Satterthwaite, ... Institute of Physics Publishing		2010
Search for high frequency gravitational-wave bursts in the first calendar year of LIGO's fifth science run BP Abbott, R Abbott, R Adhikari, P Ajith, B Allen, G Allen, RS Amin, ... Physical Review D 80 (10), 102002	59	2009
Search for gravitational-wave bursts in the first year of the fifth LIGO science run BP Abbott, R Abbott, R Adhikari, P Ajith, B Allen, G Allen, RS Amin, ... Physical Review D 80 (10), 102001	159	2009
ERRATUM:"BEATING THE SPIN-DOWN LIMIT ON GRAVITATIONAL WAVE EMISSION FROM THE CRAB PULSAR"(2008, ApJ, 683, L45) B Abbott, R Abbott, R Adhikari, P Ajith, B Allen, G Allen, R Amin, ... The Astrophysical Journal 706 (1), L203	9	2009
Finite element modelling of the mechanical loss of silica suspension fibres for advanced gravitational wave detectors A Cumming, A Heptonstall, R Kumar, W Cunningham, C Torrie, M Barton, ... Classical and Quantum Gravity 26 (21), 215012	52	2009
First LIGO search for gravitational wave bursts from cosmic (super) strings BP Abbott, R Abbott, R Adhikari, P Ajith, B Allen, G Allen, RS Amin, ... Physical Review D 80 (6), 062002	72	2009
Search for gravitational wave ringdowns from perturbed black holes in LIGO S4 data BP Abbott, R Abbott, R Adhikari, P Ajith, B Allen, G Allen, RS Amin, ... Physical Review D 80 (6), 062001	76	2009

TITLE	CITED BY	YEAR
Search for gravitational waves from low mass compact binary coalescence in 186 days of LIGO's fifth science run BP Abbott, R Abbott, R Adhikari, P Ajith, B Allen, G Allen, RS Amin, ... Physical Review D 80 (4), 047101	170	2009
Einstein@ Home search for periodic gravitational waves in early S5 LIGO data BP Abbott, R Abbott, R Adhikari, P Ajith, B Allen, G Allen, RS Amin, ... Physical review d 80 (4), 042003	151	2009
Stacked search for gravitational waves from the 2006 SGR 1900+ 14 storm BP Abbott, R Abbott, R Adhikari, P Ajith, B Allen, G Allen, RS Amin, ... The Astrophysical Journal 701 (2), L68	55	2009
Observation of a kilogram-scale oscillator near its quantum ground state B Abbott, R Abbott, R Adhikari, P Ajith, B Allen, G Allen, R Amin, ... New Journal of Physics 11 (7), 073032	199	2009
LIGO: the laser interferometer gravitational-wave observatory BP Abbott, R Abbott, R Adhikari, P Ajith, B Allen, G Allen, RS Amin, ... Reports on Progress in Physics 72 (7), 076901	1710	2009
Search for gravitational waves from low mass binary coalescences in the first year of LIGO's S5 data BP Abbott, R Abbott, R Adhikari, P Ajith, B Allen, G Allen, RS Amin, ... Physical Review D 79 (12), 122001	206	2009
All-sky LIGO search for periodic gravitational waves in the early fifth-science-run data BP Abbott, R Abbott, R Adhikari, P Ajith, B Allen, G Allen, RS Amin, ... Physical Review Letters 102 (11), 111102	119	2009
GAUGE: the grand unification and gravity explorer G Amelino-Camelia, K Aplin, M Arndt, JD Barrow, RJ Bingham, C Borde, ... Experimental Astronomy 23, 549-572	29	2009
Einstein@ Home search for periodic gravitational waves in LIGO S4 data B Abbott, R Abbott, R Adhikari, P Ajith, B Allen, G Allen, R Amin, ... Physical Review D 79 (2), 022001	131	2009
Search for high frequency gravitational-wave bursts in the first calendar year of LIGO's fifth science run A BP, R Abbott, R Adhikari, P Ajith, B Allen, G Allen, A RS, A SB, A WG, ... PHYSICAL REVIEW D, PARTICLES, FIELDS, GRAVITATION, AND COSMOLOGY		2009
First joint search for gravitational-wave bursts in LIGO and GEO 600 data B Abbott, R Abbott, R Adhikari, P Ajith, B Allen, G Allen, R Amin, ... Classical and Quantum Gravity 25 (24), 245008	37	2008

TITLE	CITED BY	YEAR
Search for gravitational-wave bursts from soft gamma repeaters B Abbott, R Abbott, R Adhikari, P Ajith, B Allen, G Allen, R Amin, ... Physical review letters 101 (21), 211102	115	2008
Search of S3 LIGO data for gravitational wave signals from spinning black hole and neutron star binary inspirals B Abbott, R Abbott, R Adhikari, J Agresti, P Ajith, B Allen, R Amin, ... Physical Review D 78 (4), 042002	78	2008
Beating the spin-down limit on gravitational wave emission from the Crab pulsar B Abbott, R Abbott, R Adhikari, P Ajith, B Allen, G Allen, R Amin, ... The Astrophysical Journal 683 (1), L45	205	2008
Implications for the Origin of GRB 070201 from LIGO Observations B Abbott, R Abbott, R Adhikari, J Agresti, P Ajith, B Allen, R Amin, ... The Astrophysical Journal 681 (2), 1419	272	2008
RECORD OF DECISION/AGREEMENT (RODA) J Romie, J Greenhalgh, D Coyne, N Robertson, C Cantley, C Torrie, ...		2008
Astrophysically triggered searches for gravitational waves: status and prospects B Abbott, R Abbott, R Adhikari, P Ajith, B Allen, G Allen, R Amin, ... Classical and Quantum Gravity 25 (11), 114051	35	2008
A joint search for gravitational wave bursts with AURIGA and LIGO L Baggio, M Bignotto, M Bonaldi, M Cerdonio, M De Rosa, P Falferi, ... Classical and Quantum Gravity 25 (9), 095004	35	2008
Search for gravitational waves associated with 39 gamma-ray bursts using data from the second, third, and fourth LIGO runs B Abbott, R Abbott, R Adhikari, J Agresti, P Ajith, B Allen, R Amin, ... Physical Review D 77 (6), 062004	124	2008
Search for gravitational waves from binary inspirals in S3 and S4 LIGO data B Abbott, R Abbott, R Adhikari, J Agresti, P Ajith, B Allen, R Amin, ... Physical Review D 77 (6), 062002	220	2008
Publisher's Note: Upper limits on gravitational wave emission from 78 radio pulsars (vol 76, art no 042001, 2007) B Abbott, R Abbott, R Adhikari, J Agresti, P Ajith, B Allen, R Amin, ... Physical Review D 77 (6)	3	2008
All-sky search for periodic gravitational waves in LIGO S4 data B Abbott, R Abbott, R Adhikari, J Agresti, P Ajith, B Allen, R Amin, ... Physical Review D 77 (2), 022001	177	2008
Beating the Spin-Down Limit On Gravitational Wave Emission from the Crab Pulsar		2008

TITLE	CITED BY	YEAR
J Abadie, B Abbott, R Abbott, R Adhikari, P Ajith, B Allen, G Allen, R Amin, ...		
Upper limit map of a background of gravitational waves B Abbott, R Abbott, R Adhikari, J Agresti, P Ajith, B Allen, R Amin, ... Physical Review D 76 (8), 082003	146	2007
Search for gravitational-wave bursts in LIGO data from the fourth science run B Abbott, R Abbott, R Adhikari, J Agresti, P Ajith, B Allen, R Amin, ... Classical and Quantum Gravity 24 (22), 5343	127	2007
Searches for periodic gravitational waves from unknown isolated sources and Scorpius X-1: Results from the second LIGO science run B Abbott, R Abbott, R Adhikari, J Agresti, P Ajith, B Allen, R Amin, ... Physical Review D 76 (8), 082001	204	2007
Search for gravitational wave radiation associated with the pulsating tail of the SGR 1806 – 20 hyperflare of 27 December 2004 using LIGO B Abbott, R Abbott, R Adhikari, J Agresti, P Ajith, B Allen, R Amin, ... Physical Review D 76 (6), 062003	105	2007
Upper limits on gravitational wave emission from 78 radio pulsars B Abbott, R Abbott, R Adhikari, J Agresti, P Ajith, B Allen, R Amin, ... Physical Review D 76 (4), 042001	212	2007
First cross-correlation analysis of interferometric and resonant-bar gravitational-wave data for stochastic backgrounds B Abbott, R Abbott, R Adhikari, J Agresti, P Ajith, B Allen, R Amin, ... Physical Review D 76 (2), 022001	75	2007
Searching for a stochastic background of gravitational waves with the laser interferometer gravitational-wave observatory B Abbott, R Abbott, R Adhikari, J Agresti, P Ajith, B Allen, R Amin, ... Astrophysical Journal 659 (2 I), 918-930	2	2007
Searching for a stochastic background of gravitational waves with the laser interferometer gravitational-wave observatory B Abbott, R Abbott, R Adhikari, J Agresti, P Ajith, B Allen, R Amin, ... The Astrophysical Journal 659 (2), 918	197	2007
Joint LIGO and TAMA300 search for gravitational waves from inspiralling neutron star binaries B Abbott, R Abbott, R Adhikari, A Ageev, J Agresti, P Ajith, B Allen, J Allen, ... Physical Review D 73 (10), 102002	72	2006
Design and prototype tests of a seismic attenuation system for the advanced-LIGO output mode cleaner A Bertolini, R DeSalvo, C Galli, G Gennaro, M Mantovani, S Márka, ... Classical and Quantum Gravity 23 (8), S111	18	2006

TITLE	CITED BY	YEAR
Search for gravitational-wave bursts in LIGO's third science run B Abbott, R Abbott, R Adhikari, J Agresti, P Ajith, B Allen, J Allen, R Amin, ... Classical and Quantum Gravity 23 (8), S29	85	2006
Search for gravitational waves from binary black hole inspirals in LIGO data B Abbott, R Abbott, R Adhikari, A Ageev, J Agresti, P Ajith, B Allen, J Allen, ... Physical Review D 73 (6), 062001	129	2006
LIGO Output Mode Cleaner HAM Seismic Attenuation System. A Bertolini, R DeSalvo, C Galli, G Gennaro, S Marka, V Sannibale, ... LIGO Internal Note T060037-00	1	2006
Upper limits from the LIGO and TAMA detectors on the rate of gravitational-wave bursts B Abbott, R Abbott, R Adhikari, A Ageev, J Agresti, P Ajith, B Allen, J Allen, ... Physical Review D 72 (12), 122004	88	2005
First all-sky upper limits from LIGO on the strength of periodic gravitational waves using the Hough transform B Abbott, R Abbott, R Adhikari, A Ageev, J Agresti, B Allen, J Allen, ... Physical Review D 72 (10), 102004	118	2005
Upper limits on a stochastic background of gravitational waves B Abbott, R Abbott, R Adhikari, J Agresti, P Ajith, B Allen, J Allen, R Amin, ... Physical review letters 95 (22), 221101	131	2005
Search for gravitational waves from primordial black hole binary coalescences in the galactic halo B Abbott, R Abbott, R Adhikari, A Ageev, B Allen, R Amin, SB Anderson, ... Physical Review D 72 (8), 082002	133	2005
Search for gravitational waves from galactic and extra-galactic binary neutron stars B Abbott, R Abbott, R Adhikari, A Ageev, B Allen, R Amin, SB Anderson, ... Physical Review D 72 (8), 082001	172	2005
Upper limits on gravitational wave bursts in LIGO's second science run B Abbott, R Abbott, R Adhikari, A Ageev, J Agresti, B Allen, J Allen, ... Physical Review D 72 (6), 062001	128	2005
Search for gravitational waves associated with the gamma ray burst GRB030329 using the LIGO detectors B Abbott, R Abbott, R Adhikari, A Ageev, B Allen, R Amin, SB Anderson, ... Physical Review D 72 (4), 042002	142	2005
Limits on gravitational-wave emission from selected pulsars using LIGO data B Abbott, R Abbott, R Adhikari, A Ageev, B Allen, R Amin, SB Anderson, ... Physical review letters 94 (18), 181103	196	2005

TITLE	CITED BY	YEAR
The ligo gravitational wave observatories: Recent results and future plans GM Harry, R Adhikari, S Ballmer, K Bayer, J Betzwieser, B Bochner, ... The Tenth Marcel Grossmann Meeting: On Recent Developments in Theoretical ...	1	2005
An investigation of eddy-current damping of multi-stage pendulum suspensions for use in interferometric gravitational wave detectors MV Plissi, CI Torrie, M Barton, NA Robertson, A Grant, CA Cantley, ... Review of scientific instruments 75 (11), 4516-4522	22	2004
Seismic isolation and suspension systems for Advanced LIGO NA Robertson, B Abbott, R Abbott, R Adhikari, GS Allen, H Armandula, ... Gravitational wave and particle astrophysics detectors 5500, 81-91	56	2004
Analysis of first LIGO science data for stochastic gravitational waves B Abbott, R Abbott, R Adhikari, A Ageev, B Allen, R Amin, SB Anderson, ... Physical Review D 69 (12), 122004	165	2004
Analysis of LIGO data for gravitational waves from binary neutron stars B Abbott, R Abbott, R Adhikari, A Ageev, B Allen, R Amin, SB Anderson, ... Physical Review D 69 (12), 122001	262	2004
First upper limits from LIGO on gravitational wave bursts B Abbott, R Abbott, R Adhikari, A Ageev, B Allen, R Amin, SB Anderson, ... Physical Review D 69 (10), 102001	180	2004
Setting upper limits on the strength of periodic gravitational waves from PSR J1939 + 2134 using the first science data from the GEO 600 and LIGO detectors B Abbott, R Abbott, R Adhikari, A Ageev, B Allen, R Amin, SB Anderson, ... Physical Review D 69 (8), 082004	257	2004
Upper limits on the strength of periodic gravitational waves from PSR J1939+ 2134 B Allen, G Woan, B Abbott, R Abbott, R Adhikari, R Amin, SB Anderson, ... Classical and quantum gravity 21 (5), S671	9	2004
Status of GEO 600 B Willke, P Aufmuth, C Aulbert, S Babak, R Balasubramanian, BW Barr, ... Classical and Quantum Gravity 21 (5), S417	129	2004
Detector description and performance for the first coincidence observations between LIGO and GEO B Abbott, R Abbott, R Adhikari, A Ageev, B Allen, R Amin, SB Anderson, ... Nuclear Instruments and Methods in Physics Research Section A: Accelerators ...	449	2004
LIGO: S1 Science Results and Plans Beyond B Abbott, F Abbott, R Adhikari, A Ageev, B Allen, R Amin, SB Anderson, ... Workshop on General Relativity and Gravitation in Japan, 1-16		2004
Introduction to Advanced LIGO Suspension Design and Development NA Robertson, CI Torrie		2003

TITLE	CITED BY	YEAR
Detector characterization in GEO 600 AM Sintes, P Aufmuth, C Aulbert, S Babak, R Balasubramanian, BW Barr, ... Classical and Quantum Gravity 20 (17), S731	3	2003
A report on the status of the GEO 600 gravitational wave detector M Hewitson, P Aufmuth, C Aulbert, S Babak, R Balasubramanian, ... Classical and Quantum Gravity 20 (17), S581	26	2003
Mode-cleaning and injection optics of the gravitational-wave detector GEO600 S Gossler, MM Casey, A Freise, A Grant, H Grote, G Heinzel, M Heurs, ... Review of scientific instruments 74 (8), 3787-3795	37	2003
Status of the GEO600 gravitational wave detector B Willke, P Aufmuth, C Aulbert, S Babak, R Balasubramanian, BW Barr, ... Gravitational-Wave Detection 4856, 238-246	3	2003
Quadruple suspension design for Advanced LIGO NA Robertson, G Cagnoli, DRM Crooks, E Elliffe, JE Faller, P Fritschel, ... Classical and Quantum gravity 19 (15), 4043	131	2002
Silica research in Glasgow C DRM, P MV, R DI, R NA, S KD, T CI Institute of Physics Publishing		2002
The GEO 600 gravitational wave detector C CN, C DRM, P MA, P MV, R DI, R NA, S BF, S KD, T CI Institute of Physics Publishing		2002
The modecleaner system and suspension aspects of GEO 600 S Gossler, MM Casey, A Freise, H Grote, H Lück, P McNamara, MV Plissi, ... Classical and Quantum Gravity 19 (7), 1835	29	2002
Silica research in Glasgow BW Barr, G Cagnoli, MM Casey, D Clubley, DRM Crooks, K Danzmann, ... Classical and Quantum Gravity 19 (7), 1655	22	2002
The GEO 600 gravitational wave detector B Willke, P Aufmuth, C Aulbert, S Babak, R Balasubramanian, BW Barr, ... Classical and Quantum Gravity 19 (7), 1377	461	2002
GEO 600-Research, Progress and Prospects J Hough, P Authmuth, R Balasubramanian, BW Barr, OS Brozec, ... The Ninth Marcel Grossmann Meeting: On Recent Developments in Theoretical ...		2002
Suspension design for GEO 600—an update NA Robertson, G Cagnoli, J Hough, ME Husman, S McIntosh, D Palmer, ... AIP Conference Proceedings 523 (1), 313-319	2	2000
The status of GEO600 H Lück, P Aufmuth, OS Brozec, K Danzmann, A Freise, S Goßler, A Grado, ... AIP Conference Proceedings 523 (1), 119-127	12	2000

TITLE	CITED BY	YEAR
GEO 600 triple pendulum suspension system: Seismic isolation and control MV Plissi, CI Torrie, ME Husman, NA Robertson, KA Strain, H Ward, ... Review of scientific instruments 71 (6), 2539-2545	131	2000
Modeling of multistage pendulums: Triple pendulum suspension for GEO 600 ME Husman, CI Torrie, MV Plissi, NA Robertson, KA Strain, J Hough Review of Scientific Instruments 71 (6), 2546-2551	27	2000
The status of GEO600 BF Schutz, H Lück, P Aufmuth, OS Brozek, K Danzmann, A Freise, ... Third Edoardo Amaldi Conference, 119-127	2	2000
The GEO 600 gravitational wave detector B Willke, P Aufmuth, R Balasubramanian, OS Brozek, G Cagnoli, ... 2nd TAMA International Workshop on Gravitational Wave Detection, 25-34	5	2000
Aspects of the Suspension and Isolation Systems for the Test Masses in GEO 600 J Hough, G Cagnoli, M Husman, S McIntosh, M Plissi, D Robertson, ... Gravitational Wave Detection II 32, 311		2000
Development of suspensions for the GEO 600 gravitational wave detector CIE Torrie PQDT-Global	28	1999
Design of Suspension System for GEO 600 MV Plissi, KA Strain, NA Robertson, J Hough, CI Torrie, S Rowan, ... Recent Developments in Theoretical and Experimental General Relativity ...		1999
Aspects of the suspension system for GEO 600 MV Plissi, KA Strain, CI Torrie, NA Robertson, S Killbourn, S Rowan, ... Review of scientific instruments 69 (8), 3055-3061	77	1998
GEO 600: Current status and some aspects of the design J Hough, GP Newton, NA Robertson, H Ward, M Plissi, D Robertson, ... 2nd TAMA Workshop on Gravitational Wave Detection, 175-182	15	1997
Quadruple Suspension Design for Advanced LIGO P020001-AR NA Robertson, G Cagnoli, DRM Crooks, E Elliffe, JE Faller, P Fritschel, ...		
LIGO-T080163-06 Development of model for AdLIGO thermal noise simulation L Cunningham, C Torrie, A Cumming		
Design and prototype tests of a Seismic Attenuation System for the Ad-LIGO Output Mode Cleaner A Bertolini, R DeSalvo, C Galli, G Gennaro, M Mantovani, S Márka, ... P050024-00-D		

TITLE	CITED BY	YEAR
This version is available at https://strathprints.strath.ac.uk/62954 H Overmier, JR Palamos, HR Paris, W Parker, A Pele, S Penn, M Phelps, ...		
Novel Piezo-Actuator Development for Miniaturized Deformable Mirrors E Uzgur, SS Kim, AMA van Veggel, C Torrie, S Reid, JMD Strachan, ...		