

# Alberto Vecchio

## List of Publications by Year in descending order

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309  
papers

63,280  
citations

2669

95  
h-index

764

249  
g-index

315  
all docs

315  
docs citations

315  
times ranked

18220  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of Gravitational Waves from a Binary Black Hole Merger. <i>Physical Review Letters</i> , 2016, 116, 061102.	2.9	8,753
2	GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. <i>Physical Review Letters</i> , 2017, 119, 161101.	2.9	6,413
3	Multi-messenger Observations of a Binary Neutron Star Merger <sup>*</sup> . <i>Astrophysical Journal Letters</i> , 2017, 848, L12.	3.0	2,805
4	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2016, 116, 241103.	2.9	2,701
5	Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. <i>Astrophysical Journal Letters</i> , 2017, 848, L13.	3.0	2,314
6	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. <i>Physical Review Letters</i> , 2017, 118, 221101.	2.9	1,987
7	Advanced LIGO. <i>Classical and Quantum Gravity</i> , 2015, 32, 074001.	1.5	1,929
8	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2017, 119, 141101.	2.9	1,600
9	Tests of General Relativity with GW150914. <i>Physical Review Letters</i> , 2016, 116, 221101.	2.9	1,224
10	The Einstein Telescope: a third-generation gravitational wave observatory. <i>Classical and Quantum Gravity</i> , 2010, 27, 194002.	1.5	1,211
11	Characterization of the LIGO detectors during their sixth science run. <i>Classical and Quantum Gravity</i> , 2015, 32, 115012.	1.5	1,029
12	LIGO: the Laser Interferometer Gravitational-Wave Observatory. <i>Reports on Progress in Physics</i> , 2009, 72, 076901.	8.1	971
13	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. <i>Astrophysical Journal Letters</i> , 2017, 851, L35.	3.0	968
14	Predictions for the rates of compact binary coalescences observable by ground-based gravitational-wave detectors. <i>Classical and Quantum Gravity</i> , 2010, 27, 173001.	1.5	956
15	Binary Black Hole Mergers in the First Advanced LIGO Observing Run. <i>Physical Review X</i> , 2016, 6, .	2.8	898
16	Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. <i>Nature Photonics</i> , 2013, 7, 613-619.	15.6	825
17	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2018, 21, 3.	8.2	808
18	Exploring the sensitivity of next generation gravitational wave detectors. <i>Classical and Quantum Gravity</i> , 2017, 34, 044001.	1.5	735

#	ARTICLE	IF	CITATIONS
19	Parameter estimation for compact binaries with ground-based gravitational-wave observations using the LALInference software library. <i>Physical Review D</i> , 2015, 91, .	1.6	674
20	A gravitational-wave standard siren measurement of the Hubble constant. <i>Nature</i> , 2017, 551, 85-88.	13.7	674
21	Properties of the Binary Black Hole Merger GW150914. <i>Physical Review Letters</i> , 2016, 116, 241102.	2.9	673
22	Sensitivity studies for third-generation gravitational wave observatories. <i>Classical and Quantum Gravity</i> , 2011, 28, 094013.	1.5	644
23	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. <i>Astrophysical Journal Letters</i> , 2016, 818, L22.	3.0	633
24	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , 2016, 116, 131103.	2.9	466
25	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2020, 23, 3.	8.2	447
26	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. <i>Living Reviews in Relativity</i> , 2016, 19, 1.	8.2	427
27	European Pulsar Timing Array limits on an isotropic stochastic gravitational-wave background. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 2577-2599.	1.6	380
28	Gravitational waves from hot young rapidly rotating neutron stars. <i>Physical Review D</i> , 1998, 58, .	1.6	367
29	Scientific objectives of Einstein Telescope. <i>Classical and Quantum Gravity</i> , 2012, 29, 124013.	1.5	355
30	High-precision timing of 42 millisecond pulsars with the European Pulsar Timing Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 3341-3380.	1.6	351
31	The International Pulsar Timing Array: First data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 1267-1288.	1.6	332
32	The stochastic gravitational-wave background from massive black hole binary systems: implications for observations with Pulsar Timing Arrays. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 390, 192-209.	1.6	331
33	GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. <i>Physical Review D</i> , 2016, 93, .	1.6	315
34	An upper limit on the stochastic gravitational-wave background of cosmological origin. <i>Nature</i> , 2009, 460, 990-994.	13.7	303
35	The third generation of gravitational wave observatories and their science reach. <i>Classical and Quantum Gravity</i> , 2010, 27, 084007.	1.5	287
36	Sensitivity of the Advanced LIGO detectors at the beginning of gravitational wave astronomy. <i>Physical Review D</i> , 2016, 93, .	1.6	286

#	ARTICLE	IF	CITATIONS
37	The GEO 600 gravitational wave detector. <i>Classical and Quantum Gravity</i> , 2002, 19, 1377-1387.	1.5	284
38	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. <i>Physical Review Letters</i> , 2016, 116, 131102.	2.9	269
39	Detector description and performance for the first coincidence observations between LIGO and GEO. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 517, 154-179.	0.7	259
40	THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. <i>Astrophysical Journal Letters</i> , 2016, 833, L1.	3.0	230
41	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016, 33, 134001.	1.5	225
42	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. <i>Astrophysical Journal Letters</i> , 2016, 826, L13.	3.0	210
43	Distinguishing spin-aligned and isotropic black hole populations with gravitational waves. <i>Nature</i> , 2017, 548, 426-429.	13.7	208
44	Bayesian coherent analysis of in-spiral gravitational wave signals with a detector network. <i>Physical Review D</i> , 2010, 81, .	1.6	206
45	Gravitational waves from resolvable massive black hole binary systems and observations with Pulsar Timing Arrays. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 394, 2255-2265.	1.6	201
46	Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017, 118, 121101.	2.9	194
47	The International Pulsar Timing Array: second data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 4666-4687.	1.6	191
48	Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017, 851, L16.	3.0	189
49	Search for gravitational waves from low mass compact binary coalescence in LIGO's sixth science run and Virgo's science runs 2 and 3. <i>Physical Review D</i> , 2012, 85, .	1.6	185
50	Common-red-signal analysis with 24-yr high-precision timing of the European Pulsar Timing Array: inferences in the stochastic gravitational-wave background search. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 4970-4993.	1.6	184
51	Towards a generic test of the strong field dynamics of general relativity using compact binary coalescence. <i>Physical Review D</i> , 2012, 85, .	1.6	176
52	The International Pulsar Timing Array second data release: Search for an isotropic gravitational wave background. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 4873-4887.	1.6	174
53	GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. <i>Physical Review Letters</i> , 2018, 120, 091101.	2.9	166
54	Setting upper limits on the strength of periodic gravitational waves from PSRJ1939+2134 using the first science data from the GEO 600 and LIGO detectors. <i>Physical Review D</i> , 2004, 69, .	1.6	165

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55	Beating the Spin-Down Limit on Gravitational Wave Emission from the Crab Pulsar. <i>Astrophysical Journal</i> , 2008, 683, L45-L49.	1.6	160
56	THE FIRST TWO YEARS OF ELECTROMAGNETIC FOLLOW-UP WITH ADVANCED LIGO AND VIRGO. <i>Astrophysical Journal</i> , 2014, 795, 105.	1.6	159
57	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L39.	3.0	156
58	SEARCHES FOR GRAVITATIONAL WAVES FROM KNOWN PULSARS WITH SCIENCE RUN 5 LIGO DATA. <i>Astrophysical Journal</i> , 2010, 713, 671-685.	1.6	155
59	LISA observations of rapidly spinning massive black hole binary systems. <i>Physical Review D</i> , 2004, 70, .	1.6	150
60	European Pulsar Timing Array limits on continuous gravitational waves from individual supermassive black hole binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 1665-1679.	1.6	149
61	UPPER LIMITS ON THE RATES OF BINARY NEUTRON STAR AND NEUTRON STAR-BLACK HOLE MERGERS FROM ADVANCED LIGO'S FIRST OBSERVING RUN. <i>Astrophysical Journal Letters</i> , 2016, 832, L21.	3.0	146
62	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. <i>Astrophysical Journal</i> , 2021, 909, 218.	1.6	144
63	Implications for the Origin of GRB 070201 from LIGO Observations. <i>Astrophysical Journal</i> , 2008, 681, 1419-1430.	1.6	143
64	Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory. <i>Astrophysical Journal Letters</i> , 2017, 850, L35.	3.0	135
65	The GEO-HF project. <i>Classical and Quantum Gravity</i> , 2006, 23, S207-S214.	1.5	133
66	Parameter estimation for compact binary coalescence signals with the first generation gravitational-wave detector network. <i>Physical Review D</i> , 2013, 88, .	1.6	132
67	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , 2017, 839, 12.	1.6	131
68	Limits on Gravitational-Wave Emission from Selected Pulsars Using LIGO Data. <i>Physical Review Letters</i> , 2005, 94, 181103.	2.9	130
69	Searches for periodic gravitational waves from unknown isolated sources and Scorpius X-1: Results from the second LIGO science run. <i>Physical Review D</i> , 2007, 76, .	1.6	128
70	Search for gravitational waves from binary inspirals in S3 and S4 LIGO data. <i>Physical Review D</i> , 2008, 77, .	1.6	126
71	GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. <i>Astrophysical Journal</i> , 2014, 785, 119.	1.6	125
72	Status of the GEO600 detector. <i>Classical and Quantum Gravity</i> , 2006, 23, S71-S78.	1.5	123

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73	Observation of a kilogram-scale oscillator near its quantum ground state. <i>New Journal of Physics</i> , 2009, 11, 073032.	1.2	123
74	Update on quadruple suspension design for Advanced LIGO. <i>Classical and Quantum Gravity</i> , 2012, 29, 235004.	1.5	123
75	Upper limits on gravitational wave emission from 78 radio pulsars. <i>Physical Review D</i> , 2007, 76, .	1.6	121
76	Searching for a Stochastic Background of Gravitational Waves with the Laser Interferometer Gravitational-Wave Observatory. <i>Astrophysical Journal</i> , 2007, 659, 918-930.	1.6	120
77	Search for gravitational waves from low mass binary coalescences in the first year of LIGO's S5 data. <i>Physical Review D</i> , 2009, 79, .	1.6	120
78	Calibration of the LIGO gravitational wave detectors in the fifth science run. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 624, 223-240.	0.7	120
79	Observing gravitational-wave transient GW150914 with minimal assumptions. <i>Physical Review D</i> , 2016, 93, .	1.6	119
80	PARAMETER ESTIMATION FOR BINARY NEUTRON-STAR COALESCENCES WITH REALISTIC NOISE DURING THE ADVANCED LIGO ERA. <i>Astrophysical Journal</i> , 2015, 804, 114.	1.6	117
81	Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1. <i>Physical Review D</i> , 2010, 82, .	1.6	111
82	All-sky search for periodic gravitational waves in LIGO S4 data. <i>Physical Review D</i> , 2008, 77, .	1.6	110
83	Testing gravitational-wave searches with numerical relativity waveforms: results from the first Numerical INjection Analysis (NINJA) project. <i>Classical and Quantum Gravity</i> , 2009, 26, 165008.	1.5	110
84	First upper limits from LIGO on gravitational wave bursts. <i>Physical Review D</i> , 2004, 69, .	1.6	108
85	All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run. <i>Physical Review D</i> , 2010, 81, .	1.6	107
86	All-sky search for gravitational-wave bursts in the second joint LIGO-Virgo run. <i>Physical Review D</i> , 2012, 85, .	1.6	107
87	Improved Analysis of GW150914 Using a Fully Spin-Precessing Waveform Model. <i>Physical Review X</i> , 2016, 6, .	2.8	106
88	Search for gravitational waves from low mass compact binary coalescence in 186 days of LIGO's fifth science run. <i>Physical Review D</i> , 2009, 80, .	1.6	105
89	FIRST SEARCH FOR GRAVITATIONAL WAVES FROM THE YOUNGEST KNOWN NEUTRON STAR. <i>Astrophysical Journal</i> , 2010, 722, 1504-1513.	1.6	104
90	SEARCH FOR GRAVITATIONAL WAVES ASSOCIATED WITH GAMMA-RAY BURSTS DURING LIGO SCIENCE RUN 6 AND VIRGO SCIENCE RUNS 2 AND 3. <i>Astrophysical Journal</i> , 2012, 760, 12.	1.6	104

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91	Identification and mitigation of narrow spectral artifacts that degrade searches for persistent gravitational waves in the first two observing runs of Advanced LIGO. <i>Physical Review D</i> , 2018, 97, .	1.6	104
92	Directly comparing GW150914 with numerical solutions of Einstein's equations for binary black hole coalescence. <i>Physical Review D</i> , 2016, 94, .	1.6	102
93	Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , 2017, 34, 104002.	1.5	98
94	Gravitational Radiation from Newborn Magnetars in the Virgo Cluster. <i>Astrophysical Journal</i> , 2005, 634, L165-L168.	1.6	97
95	Characterizing gravitational wave stochastic background anisotropy with pulsar timing arrays. <i>Physical Review D</i> , 2013, 88, .	1.6	97
96	Analysis of first LIGO science data for stochastic gravitational waves. <i>Physical Review D</i> , 2004, 69, .	1.6	96
97	Parameter estimation of spinning binary inspirals using Markov chain Monte Carlo. <i>Classical and Quantum Gravity</i> , 2008, 25, 184011.	1.5	95
98	Measuring the parameters of massive black hole binary systems with pulsar timing array observations of gravitational waves. <i>Physical Review D</i> , 2010, 81, .	1.6	94
99	Directional Limits on Persistent Gravitational Waves Using LIGO S5 Science Data. <i>Physical Review Letters</i> , 2011, 107, 271102.	2.9	94
100	Effects of data quality vetoes on a search for compact binary coalescences in Advanced LIGO's first observing run. <i>Classical and Quantum Gravity</i> , 2018, 35, 065010.	1.5	94
101	Search for gravitational waves from binary black hole inspiral, merger, and ringdown in LIGO-Virgo data from 2009-2010. <i>Physical Review D</i> , 2013, 87, .	1.6	92
102	High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube. <i>Physical Review D</i> , 2016, 93, .	1.6	92
103	Einstein@Home all-sky search for periodic gravitational waves in LIGO S5 data. <i>Physical Review D</i> , 2013, 87, .	1.6	91
104	Upper limit map of a background of gravitational waves. <i>Physical Review D</i> , 2007, 76, .	1.6	90
105	SEARCH FOR GRAVITATIONAL-WAVE INSPIRAL SIGNALS ASSOCIATED WITH SHORT GAMMA-RAY BURSTS DURING LIGO'S FIFTH AND VIRGO'S FIRST SCIENCE RUN. <i>Astrophysical Journal</i> , 2010, 715, 1453-1461.	1.6	90
106	Upper Limits on a Stochastic Background of Gravitational Waves. <i>Physical Review Letters</i> , 2005, 95, 221101.	2.9	89
107	Gravitational-Wave Astronomy with Inspiral Signals of Spinning Compact-Object Binaries. <i>Astrophysical Journal</i> , 2008, 688, L61-L64.	1.6	89
108	BEATING THE SPIN-DOWN LIMIT ON GRAVITATIONAL WAVE EMISSION FROM THE VELA PULSAR. <i>Astrophysical Journal</i> , 2011, 737, 93.	1.6	89

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109	Constraints on cosmic strings using data from the first Advanced LIGO observing run. <i>Physical Review D</i> , 2018, 97, .	1.6	88
110	Improved Upper Limits on the Stochastic Gravitational-Wave Background from 2009â€“2010 LIGO and Virgo Data. <i>Physical Review Letters</i> , 2014, 113, 231101.	2.9	86
111	Status of GEO 600. <i>Classical and Quantum Gravity</i> , 2004, 21, S417-S423.	1.5	85
112	Search for gravitational waves from binary black hole inspiral, merger, and ringdown. <i>Physical Review D</i> , 2011, 83, .	1.6	85
113	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018, 120, 201102.	2.9	85
114	Directional Limits on Persistent Gravitational Waves from Advanced LIGOâ€™s First Observing Run. <i>Physical Review Letters</i> , 2017, 118, 121102.	2.9	84
115	Implementation and testing of the first prompt search for gravitational wave transients with electromagnetic counterparts. <i>Astronomy and Astrophysics</i> , 2012, 539, A124.	2.1	84
116	All-Sky LIGO Search for Periodic Gravitational Waves in the Early Fifth-Science-Run Data. <i>Physical Review Letters</i> , 2009, 102, 111102.	2.9	83
117	Triple Michelson interferometer for a third-generation gravitational wave detector. <i>Classical and Quantum Gravity</i> , 2009, 26, 085012.	1.5	83
118	Einstein@Home search for periodic gravitational waves in LIGO S4 data. <i>Physical Review D</i> , 2009, 79, .	1.6	83
119	The Mock LISA Data Challenges: from challenge 3 to challenge 4. <i>Classical and Quantum Gravity</i> , 2010, 27, 084009.	1.5	83
120	From spin noise to systematics: stochastic processes in the first International Pulsar Timing Array data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 2161-2187.	1.6	82
121	Search for gravitational waves from primordial black hole binary coalescences in the galactic halo. <i>Physical Review D</i> , 2005, 72, .	1.6	79
122	Search for gravitational-wave bursts in the first year of the fifth LIGO science run. <i>Physical Review D</i> , 2009, 80, .	1.6	79
123	Estimating parameters of coalescing compact binaries with proposed advanced detector networks. <i>Physical Review D</i> , 2012, 85, .	1.6	79
124	Search for gravitational-wave bursts in LIGO data from the fourth science run. <i>Classical and Quantum Gravity</i> , 2007, 24, 5343-5369.	1.5	78
125	Einstein@Home search for periodic gravitational waves in early S5 LIGO data. <i>Physical Review D</i> , 2009, 80, .	1.6	78
126	Exploring the sensitivity of gravitational wave detectors to neutron star physics. <i>Physical Review D</i> , 2019, 99, .	1.6	78



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127	Improving astrophysical parameter estimation via offline noise subtraction for Advanced LIGO. <i>Physical Review D</i> , 2019, 99, .	1.6	77
128	The LISA verification binaries. <i>Classical and Quantum Gravity</i> , 2006, 23, S809-S817.	1.5	76
129	Search for gravitational waves from binary black hole inspirals in LIGO data. <i>Physical Review D</i> , 2006, 73, .	1.6	75
130	First low-latency LIGO+Virgo search for binary inspirals and their electromagnetic counterparts. <i>Astronomy and Astrophysics</i> , 2012, 541, A155.	2.1	75
131	The characterization of Virgo data and its impact on gravitational-wave searches. <i>Classical and Quantum Gravity</i> , 2012, 29, 155002.	1.5	73
132	Search for intermediate mass black hole binaries in the first observing run of Advanced LIGO. <i>Physical Review D</i> , 2017, 96, .	1.6	73
133	On the Progenitor of Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L40.	3.0	73
134	Calibration of the Advanced LIGO detectors for the discovery of the binary black-hole merger GW150914. <i>Physical Review D</i> , 2017, 95, .	1.6	72
135	Testing general relativity using Bayesian model selection: Applications to observations of gravitational waves from compact binary systems. <i>Physical Review D</i> , 2011, 83, .	1.6	70
136	Search for Gravitational-Wave Bursts from Soft Gamma Repeaters. <i>Physical Review Letters</i> , 2008, 101, 211102.	2.9	69
137	All-sky search for short gravitational-wave bursts in the first Advanced LIGO run. <i>Physical Review D</i> , 2017, 95, .	1.6	69
138	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017, 529, 1600209.	0.9	69
139	Constraints on Cosmic Strings from the LIGO-Virgo Gravitational-Wave Detectors. <i>Physical Review Letters</i> , 2014, 112, 131101.	2.9	68
140	PARAMETER ESTIMATION ON GRAVITATIONAL WAVES FROM NEUTRON-STAR BINARIES WITH SPINNING COMPONENTS. <i>Astrophysical Journal</i> , 2016, 825, 116.	1.6	68
141	First Search for Nontensorial Gravitational Waves from Known Pulsars. <i>Physical Review Letters</i> , 2018, 120, 031104.	2.9	68
142	All-sky search for periodic gravitational waves in the full S5 LIGO data. <i>Physical Review D</i> , 2012, 85, .	1.6	66
143	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. <i>Astrophysical Journal</i> , 2015, 813, 39.	1.6	66
144	Sensors and actuators for the Advanced LIGO mirror suspensions. <i>Classical and Quantum Gravity</i> , 2012, 29, 115005.	1.5	65

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145	Directed search for continuous gravitational waves from the Galactic center. <i>Physical Review D</i> , 2013, 88, .	1.6	65
146	The Mock LISA Data Challenges: from Challenge 1B to Challenge 3. <i>Classical and Quantum Gravity</i> , 2008, 25, 184026.	1.5	64
147	All-sky search for periodic gravitational waves in the O1 LIGO data. <i>Physical Review D</i> , 2017, 96, .	1.6	64
148	SUPPLEMENT: “THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914” (2016, <i>ApJL</i> , 833, L1). <i>Astrophysical Journal, Supplement Series</i> , 2016, 227, 14.	3.0	63
149	SWIFT FOLLOW-UP OBSERVATIONS OF CANDIDATE GRAVITATIONAL-WAVE TRANSIENT EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2012, 203, 28.	3.0	62
150	Search for gravitational waves associated with 39 gamma-ray bursts using data from the second, third, and fourth LIGO runs. <i>Physical Review D</i> , 2008, 77, .	1.6	60
151	SEARCH FOR GRAVITATIONAL-WAVE BURSTS ASSOCIATED WITH GAMMA-RAY BURSTS USING DATA FROM LIGO SCIENCE RUN 5 AND VIRGO SCIENCE RUN 1. <i>Astrophysical Journal</i> , 2010, 715, 1438-1452.	1.6	60
152	IMPLICATIONS FOR THE ORIGIN OF GRB 051103 FROM LIGO OBSERVATIONS. <i>Astrophysical Journal</i> , 2012, 755, 2.	1.6	60
153	First all-sky search for continuous gravitational waves from unknown sources in binary systems. <i>Physical Review D</i> , 2014, 90, .	1.6	60
154	First targeted search for gravitational-wave bursts from core-collapse supernovae in data of first-generation laser interferometer detectors. <i>Physical Review D</i> , 2016, 94, .	1.6	60
155	First low-frequency Einstein@Home all-sky search for continuous gravitational waves in Advanced LIGO data. <i>Physical Review D</i> , 2017, 96, .	1.6	60
156	Search for gravitational waves from Scorpius X-1 in the first Advanced LIGO observing run with a hidden Markov model. <i>Physical Review D</i> , 2017, 95, .	1.6	59
157	Massive black hole binary systems and the NANOGrav 12.5 yr results. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2021, 502, L99-L103.	1.2	58
158	Upper limits on gravitational wave bursts in LIGO’s second science run. <i>Physical Review D</i> , 2005, 72, .	1.6	57
159	FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 211, 7.	3.0	57
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