

Eric Howell

List of Publications by Citations

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117
papers

16,169
citations

52
h-index

120
g-index

120
ext. papers

19,320
ext. citations

5.7
avg, IF

5.33
L-index

#	Paper	IF	Citations
117	Observation of Gravitational Waves from a Binary Black Hole Merger. <i>Physical Review Letters</i> , 2016 , 116, 061102	7.4	6108
116	Advanced LIGO. <i>Classical and Quantum Gravity</i> , 2015 , 32, 074001	3.3	1098
115	Predictions for the rates of compact binary coalescences observable by ground-based gravitational-wave detectors. <i>Classical and Quantum Gravity</i> , 2010 , 27, 173001	3.3	869
114	Characterization of the LIGO detectors during their sixth science run. <i>Classical and Quantum Gravity</i> , 2015 , 32, 115012	3.3	790
113	Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. <i>Nature Photonics</i> , 2013 , 7, 613-619	33.9	572
112	A gravitational wave observatory operating beyond the quantum shot-noise limit. <i>Nature Physics</i> , 2011 , 7, 962-965	16.2	554
111	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2018 , 21, 3	32.5	543
110	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. <i>Living Reviews in Relativity</i> , 2016 , 19, 1	32.5	393
109	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,	4.9	172
108	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016 , 33,	3.3	155
107	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2020 , 23, 3	32.5	144
106	The SURvey for Pulsars and Extragalactic Radio Bursts III. New FRB discoveries and their follow-up. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 475, 1427-1446	4.3	126
105	THE ULTRA-LONG GAMMA-RAY BURST 111209A: THE COLLAPSE OF A BLUE SUPERGIANT?. <i>Astrophysical Journal</i> , 2013 , 766, 30	4.7	126
104	Parameter estimation for compact binary coalescence signals with the first generation gravitational-wave detector network. <i>Physical Review D</i> , 2013 , 88,	4.9	122
103	Search for gravitational waves from binary inspirals in S3 and S4 LIGO data. <i>Physical Review D</i> , 2008 , 77,	4.9	117
102	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,	4.9	116
101	GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. <i>Astrophysical Journal</i> , 2014 , 785, 119	4.7	109

100	Upper limits on gravitational wave emission from 78 radio pulsars. <i>Physical Review D</i> , 2007 , 76,	4.9	109
99	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	1.2	108
98	Searching for a Stochastic Background of Gravitational Waves with the Laser Interferometer Gravitational-Wave Observatory. <i>Astrophysical Journal</i> , 2007 , 659, 918-930	4.7	107
97	Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1. <i>Physical Review D</i> , 2010 , 82,	4.9	100
96	The Swift short gamma-ray burst rate density: implications for binary neutron star merger rates. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 425, 2668-2673	4.3	100
95	Follow Up of GW170817 and Its Electromagnetic Counterpart by Australian-Led Observing Programmes. <i>Publications of the Astronomical Society of Australia</i> , 2017 , 34,	5.5	99
94	All-sky search for periodic gravitational waves in LIGO S4 data. <i>Physical Review D</i> , 2008 , 77,	4.9	98
93	Nuclear equation of state from observations of short gamma-ray burst remnants. <i>Physical Review D</i> , 2014 , 89,	4.9	96
92	All-sky search for gravitational-wave bursts in the second joint LIGO-Virgo run. <i>Physical Review D</i> , 2012 , 85,	4.9	96
91	FIRST SEARCH FOR GRAVITATIONAL WAVES FROM THE YOUNGEST KNOWN NEUTRON STAR. <i>Astrophysical Journal</i> , 2010 , 722, 1504-1513	4.7	95
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	4.7	94
89	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,	4.9	91
88	STOCHASTIC GRAVITATIONAL WAVE BACKGROUND FROM COALESCING BINARY BLACK HOLES. <i>Astrophysical Journal</i> , 2011 , 739, 86	4.7	89
87	Directional limits on persistent gravitational waves using LIGO S5 science data. <i>Physical Review Letters</i> , 2011 , 107, 271102	7.4	85
86	Upper limit map of a background of gravitational waves. <i>Physical Review D</i> , 2007 , 76,	4.9	85
85	Einstein@Home all-sky search for periodic gravitational waves in LIGO S5 data. <i>Physical Review D</i> , 2013 , 87,	4.9	84
84	All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run. <i>Physical Review D</i> , 2010 , 81,	4.9	81
83	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	4.7	79

82	Search for gravitational waves from binary black hole inspiral, merger, and ringdown. <i>Physical Review D</i> , 2011 , 83,	4.9	77
81	BEATING THE SPIN-DOWN LIMIT ON GRAVITATIONAL WAVE EMISSION FROM THE VELA PULSAR. <i>Astrophysical Journal</i> , 2011 , 737, 93	4.7	75
80	Improved upper limits on the stochastic gravitational-wave background from 2009-2010 LIGO and Virgo data. <i>Physical Review Letters</i> , 2014 , 113, 231101	7.4	74
79	Implementation and testing of the first prompt search for gravitational wave transients with electromagnetic counterparts. <i>Astronomy and Astrophysics</i> , 2012 , 539, A124	5.1	71
78	Search for gravitational-wave bursts in LIGO data from the fourth science run. <i>Classical and Quantum Gravity</i> , 2007 , 24, 5343-5369	3.3	70
77	First low-latency LIGO+Virgo search for binary inspirals and their electromagnetic counterparts. <i>Astronomy and Astrophysics</i> , 2012 , 541, A155	5.1	69
76	On the gravitational wave background from compact binary coalescences in the band of ground-based interferometers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 431, 882-899	4.3	65
75	All-sky search for periodic gravitational waves in the full S5 LIGO data. <i>Physical Review D</i> , 2012 , 85,	4.9	61
74	Constraints on cosmic strings from the LIGO-Virgo gravitational-wave detectors. <i>Physical Review Letters</i> , 2014 , 112, 131101	7.4	59
73	THE ULTRA-LONG GRB 111209A. II. PROMPT TO AFTERGLOW AND AFTERGLOW PROPERTIES. <i>Astrophysical Journal</i> , 2013 , 779, 66	4.7	59
72	The characterization of Virgo data and its impact on gravitational-wave searches. <i>Classical and Quantum Gravity</i> , 2012 , 29, 155002	3.3	59
71	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. <i>Astrophysical Journal</i> , 2015 , 813, 39	4.7	58
70	Directed search for continuous gravitational waves from the Galactic center. <i>Physical Review D</i> , 2013 , 88,	4.9	57
69	SWIFT FOLLOW-UP OBSERVATIONS OF CANDIDATE GRAVITATIONAL-WAVE TRANSIENT EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2012 , 203, 28	8	57
68	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,	4.9	55
67	First all-sky search for continuous gravitational waves from unknown sources in binary systems. <i>Physical Review D</i> , 2014 , 90,	4.9	54
66	IMPLICATIONS FOR THE ORIGIN OF GRB 051103 FROM LIGO OBSERVATIONS. <i>Astrophysical Journal</i> , 2012 , 755, 2	4.7	53
65	FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2014 , 211, 7	8	51

64	SEARCH FOR GRAVITATIONAL WAVE BURSTS FROM SIX MAGNETARS. <i>Astrophysical Journal Letters</i> , 2011 , 734, L35	7.9	47
63	Search for gravitational waves from intermediate mass binary black holes. <i>Physical Review D</i> , 2012 , 85,	4.9	46
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	4.7	46
61	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017 , 529, 1600209	2.6	45
60	Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. <i>Astrophysical Journal</i> , 2017 , 841, 89	4.7	42
59	The Swift gamma-ray burst redshift distribution: selection biases and optical brightness evolution at high z?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 432, 2141-2149	4.3	41
58	Upper limits on a stochastic gravitational-wave background using LIGO and Virgo interferometers at 600-1000 Hz. <i>Physical Review D</i> , 2012 , 85,	4.9	40
57	Search for gravitational waves associated with the August 2006 timing glitch of the Vela pulsar. <i>Physical Review D</i> , 2011 , 83,	4.9	40
56	Directed search for gravitational waves from Scorpius X-1 with initial LIGO data. <i>Physical Review D</i> , 2015 , 91,	4.9	38
55	Cosmology and dark energy from joint gravitational wave-GRB observations. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019 , 2019, 015-015	6.4	35
54	Capturing the electromagnetic counterparts of binary neutron star mergers through low-latency gravitational wave triggers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 459, 121-139	4.3	34
53	The NINJA-2 project: detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations. <i>Classical and Quantum Gravity</i> , 2014 , 31, 115004	3.3	34
52	First cross-correlation analysis of interferometric and resonant-bar gravitational-wave data for stochastic backgrounds. <i>Physical Review D</i> , 2007 , 76,	4.9	33
51	Search for gravitational radiation from intermediate mass black hole binaries in data from the second LIGO-Virgo joint science run. <i>Physical Review D</i> , 2014 , 89,	4.9	32
50	Narrow-band search of continuous gravitational-wave signals from Crab and Vela pulsars in Virgo VSR4 data. <i>Physical Review D</i> , 2015 , 91,	4.9	32
49	Search for gravitational waves associated with γ -ray bursts detected by the interplanetary network. <i>Physical Review Letters</i> , 2014 , 113, 011102	7.4	30
48	Search for long-lived gravitational-wave transients coincident with long gamma-ray bursts. <i>Physical Review D</i> , 2013 , 88,	4.9	30
47	A first search for coincident gravitational waves and high energy neutrinos using LIGO, Virgo and ANTARES data from 2007. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013 , 2013, 008-008	6.4	29

46	The first six months of the Advanced LIGO and Advanced Virgo third observing run with GRANDMA. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 492, 3904-3927	4-3	29
45	GRANDMA observations of advanced LIGO and advanced Virgo third observational campaign. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 497, 5518-5539	4-3	29
44	Implementation of an F -statistic all-sky search for continuous gravitational waves in Virgo VSR1 data. <i>Classical and Quantum Gravity</i> , 2014 , 31, 165014	3-3	27
43	Searching for stochastic gravitational waves using data from the two colocated LIGO Hanford detectors. <i>Physical Review D</i> , 2015 , 91,	4-9	26
42	Search for gravitational wave ringdowns from perturbed intermediate mass black holes in LIGO-Virgo data from 2005-2010. <i>Physical Review D</i> , 2014 , 89,	4-9	26
41	Gravitational wave background from sub-luminous GRBs: prospects for second- and third-generation detectors. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 410, 2123-2136	4-3	26
40	Methods and results of a search for gravitational waves associated with gamma-ray bursts using the GEO 600, LIGO, and Virgo detectors. <i>Physical Review D</i> , 2014 , 89,	4-9	25
39	Multimessenger search for sources of gravitational waves and high-energy neutrinos: Initial results for LIGO-Virgo and IceCube. <i>Physical Review D</i> , 2014 , 90,	4-9	25
38	The gravitational wave background from neutron star birth throughout the cosmos. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004 , 351, 1237-1246	4-3	25
37	The Zadko Telescope: A Southern Hemisphere Telescope for Optical Transient Searches, Multi-Messenger Astronomy and Education. <i>Publications of the Astronomical Society of Australia</i> , 2010 , 27, 331-339	5-5	23
36	Joint gravitational wave γ -ray burst detection rates in the aftermath of GW170817. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 485, 1435-1447	4-3	21
35	Observational upper limits on the gravitational wave production of core collapse supernovae. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010 , 409, L132-L136	4-3	21
34	A redshift-observation time relation for gamma-ray bursts: evidence of a distinct subluminal population. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 428, 167-181	4-3	20
33	The Science benefits and preliminary design of the southern hemisphere gravitational wave detector AIGO. <i>Journal of Physics: Conference Series</i> , 2008 , 122, 012001	0-3	20
32	Constraining the rate and luminosity function of Swift gamma-ray bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 444, 15-28	4-3	19
31	Application of a Hough search for continuous gravitational waves on data from the fifth LIGO science run. <i>Classical and Quantum Gravity</i> , 2014 , 31, 085014	3-3	18
30	Fall back accretion and energy injections in gamma-ray bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 446, 3642-3650	4-3	17
29	AIGO: a southern hemisphere detector for the worldwide array of ground-based interferometric gravitational wave detectors. <i>Classical and Quantum Gravity</i> , 2010 , 27, 084005	3-3	17

28	ACIGA's high optical power test facility. <i>Classical and Quantum Gravity</i> , 2004 , 21, S887-S893	3-3	17
27	A joint search for gravitational wave bursts with AURIGA and LIGO. <i>Classical and Quantum Gravity</i> , 2008 , 25, 095004	3-3	15
26	Search of the Orion spur for continuous gravitational waves using a loosely coherent algorithm on data from LIGO interferometers. <i>Physical Review D</i> , 2016 , 93,	4-9	14
25	Status of the Australian Consortium for Interferometric Gravitational Astronomy. <i>Classical and Quantum Gravity</i> , 2006 , 23, S41-S49	3-3	14
24	Towards an optimal search strategy of optical and gravitational wave emissions from binary neutron star coalescence. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2011 , 415, L26-L30	4-3	12
23	Advanced Gravitational Wave Detectors 2012 ,		12
22	Hunting Gravitational Waves with Multi-Messenger Counterparts: Australia's Role. <i>Publications of the Astronomical Society of Australia</i> , 2015 , 32,	5-5	9
21	The detection efficiency of on-axis short gamma-ray burst optical afterglows triggered by aLIGO/Virgo. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 445, 3575-3580	4-3	8
20	The gravitational wave 'probability event horizon' for double neutron star mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005 , 364, 807-812	4-3	7
19	Application of the probability event horizon filter to constrain the local rate density of binary black hole inspirals with advanced LIGO. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007 , 377, 719-730	4-3	5
18	An Improved Method for Estimating Source Densities Using the Temporal Distribution of Cosmological Transients. <i>Astrophysical Journal</i> , 2007 , 666, L65-L68	4-7	5
17	Technology developments for ACIGA high power test facility for advanced interferometry. <i>Classical and Quantum Gravity</i> , 2005 , 22, S199-S208	3-3	5
16	Host galaxy identification for binary black hole mergers with long baseline gravitational wave detectors. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 474, 4385-4395	4-3	5
15	The Zadko Telescope: Exploring the Transient Universe. <i>Publications of the Astronomical Society of Australia</i> , 2017 , 34,	5-5	4
14	Selection biases in the gamma-ray burst Eiso ^{Lopt} , X correlation. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2015 , 449, L6-L10	4-3	2
13	Network analysis and multi-messenger astronomy		89-110 2
12	Multi-messenger astrophysics with THESEUS in the 2030s. <i>Experimental Astronomy</i> , 1	1-3	2
11	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA 2018 , 21, 1		2

10	Fast response electromagnetic follow-ups from low latency GW triggers. <i>Journal of Physics: Conference Series</i> , 2016 , 716, 012009	0.3	2
9	Identifying deterministic signals in simulated gravitational wave data: algorithmic complexity and the surrogate data method. <i>Classical and Quantum Gravity</i> , 2006 , 23, 1801-1814	3.3	1
8	Australia's Role in Gravitational Wave Detection. <i>Publications of the Astronomical Society of Australia</i> , 2003 , 20, 223-241	5.5	1
7	The gravitational wave background from neutron star formation and bar-mode instabilities. <i>Classical and Quantum Gravity</i> , 2004 , 21, S551-S555	3.3	1
6	Status of ACIGA High Power Test Facility for advanced interferometry 2004 ,		1
5	Fast temporal evolution of a cosmic gravitational wave background spectrum. <i>Classical and Quantum Gravity</i> , 2005 , 22, 723-735	3.3	1
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1	GRB160203A: an exploration of lumpy space. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 504, 716-722	4.3	