

Chris J Messenger

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137
papers

15,143
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145
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17,964
ext. citations

6.3
avg, IF

5.64
L-index

#	Paper	IF	Citations
137	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2016 , 116, 241103	7.4	2136
136	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
135	GW170817: Measurements of Neutron Star Radii and Equation of State. <i>Physical Review Letters</i> , 2018 , 121, 161101	7.4	867
134	Characterization of the LIGO detectors during their sixth science run. <i>Classical and Quantum Gravity</i> , 2015 , 32, 115012	3.3	790
133	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
132	A gravitational wave observatory operating beyond the quantum shot-noise limit. <i>Nature Physics</i> , 2011 , 7, 962-965	16.2	554
131	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
130	Properties of the Binary Black Hole Merger GW150914. <i>Physical Review Letters</i> , 2016 , 116, 241102	7.4	515
129	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 818, L22	7.9	512
128	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
127	Binary Black Hole Population Properties Inferred from the First and Second Observing Runs of Advanced LIGO and Advanced Virgo. <i>Astrophysical Journal Letters</i> , 2019 , 882, L24	7.9	381
126	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , 2016 , 116, 131103	7.4	328
125	An upper limit on the stochastic gravitational-wave background of cosmological origin. <i>Nature</i> , 2009 , 460, 990-4	50.4	267
124	Black holes, gravitational waves and fundamental physics: a roadmap. <i>Classical and Quantum Gravity</i> , 2019 , 36, 143001	3.3	248
123	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	1.2	229
122	THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 833, L1	7.9	209
121	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. <i>Physical Review Letters</i> , 2016 , 116, 131102	7.4	188

120	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016 , 33,	3.3	155
119	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
118	SEARCHES FOR GRAVITATIONAL WAVES FROM KNOWN PULSARS WITH SCIENCE RUN 5 LIGO DATA. <i>Astrophysical Journal</i> , 2010 , 713, 671-685	4.7	140
117	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. <i>Physical Review D</i> , 2004 , 69,	4.9	135
116	Measuring a cosmological distance-redshift relationship using only gravitational wave observations of binary neutron star coalescences. <i>Physical Review Letters</i> , 2012 , 108, 091101	7.4	129
115	Implications for the Origin of GRB 070201 from LIGO Observations. <i>Astrophysical Journal</i> , 2008 , 681, 1419-1430	4.7	126
114	Analysis of LIGO data for gravitational waves from binary neutron stars. <i>Physical Review D</i> , 2004 , 69,	4.9	122
113	The GEO-HF project. <i>Classical and Quantum Gravity</i> , 2006 , 23, S207-S214	3.3	121
112	Status of the GEO600 detector. <i>Classical and Quantum Gravity</i> , 2006 , 23, S71-S78	3.3	120
111	GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. <i>Astrophysical Journal</i> , 2014 , 785, 119	4.7	109
110	Limits on gravitational-wave emission from selected pulsars using LIGO data. <i>Physical Review Letters</i> , 2005 , 94, 181103	7.4	109
109	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
108	FIRST SEARCH FOR GRAVITATIONAL WAVES FROM THE YOUNGEST KNOWN NEUTRON STAR. <i>Astrophysical Journal</i> , 2010 , 722, 1504-1513	4.7	95
107	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
106	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. <i>Astrophysical Journal Letters</i> , 2019 , 876, L7	7.9	91
105	Search for gravitational waves from galactic and extra-galactic binary neutron stars. <i>Physical Review D</i> , 2005 , 72,	4.9	88
104	First upper limits from LIGO on gravitational wave bursts. <i>Physical Review D</i> , 2004 , 69,	4.9	87
103	Directional limits on persistent gravitational waves using LIGO S5 science data. <i>Physical Review Letters</i> , 2011 , 107, 271102	7.4	85

102	Matching Matched Filtering with Deep Networks for Gravitational-Wave Astronomy. <i>Physical Review Letters</i> , 2018 , 120, 141103	7.4	83
101	Status of GEO 600. <i>Classical and Quantum Gravity</i> , 2004 , 21, S417-S423	3.3	81
100	GLADE: A galaxy catalogue for multimessenger searches in the advanced gravitational-wave detector era. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 479, 2374-2381	4.3	81
99	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
98	A Standard Siren Measurement of the Hubble Constant from GW170817 without the Electromagnetic Counterpart. <i>Astrophysical Journal Letters</i> , 2019 , 871, L13	7.9	77
97	All-sky LIGO search for periodic gravitational waves in the early fifth-science-run data. <i>Physical Review Letters</i> , 2009 , 102, 111102	7.4	77
96	BEATING THE SPIN-DOWN LIMIT ON GRAVITATIONAL WAVE EMISSION FROM THE VELA PULSAR. <i>Astrophysical Journal</i> , 2011 , 737, 93	4.7	75
95	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
94	Analysis of first LIGO science data for stochastic gravitational waves. <i>Physical Review D</i> , 2004 , 69,	4.9	71
93	Search for gravitational waves associated with the gamma ray burst GRB030329 using the LIGO detectors. <i>Physical Review D</i> , 2005 , 72,	4.9	70
92	First all-sky upper limits from LIGO on the strength of periodic gravitational waves using the Hough transform. <i>Physical Review D</i> , 2005 , 72,	4.9	69
91	Upper limits on a stochastic background of gravitational waves. <i>Physical Review Letters</i> , 2005 , 95, 221101	7.4	69
90	Search for Subsolar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. <i>Physical Review Letters</i> , 2019 , 123, 161102	7.4	68
89	Search for gravitational waves from binary black hole inspirals in LIGO data. <i>Physical Review D</i> , 2006 , 73,	4.9	68
88	Search for gravitational waves from primordial black hole binary coalescences in the galactic halo. <i>Physical Review D</i> , 2005 , 72,	4.9	66
87	Searching for gravitational waves from Cassiopeia A with LIGO. <i>Classical and Quantum Gravity</i> , 2008 , 25, 235011	3.3	64
86	Search for gravitational-wave bursts from soft gamma repeaters. <i>Physical Review Letters</i> , 2008 , 101, 211102	7.4	64
85	Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015-2017 LIGO Data. <i>Astrophysical Journal</i> , 2019 , 879, 10	4.7	63

84	Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal</i> , 2019 , 875, 160	4.7	60
83	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018 , 120, 201102	7.4	60
82	Constraints on cosmic strings from the LIGO-Virgo gravitational-wave detectors. <i>Physical Review Letters</i> , 2014 , 112, 131101	7.4	59
81	The characterization of Virgo data and its impact on gravitational-wave searches. <i>Classical and Quantum Gravity</i> , 2012 , 29, 155002	3.3	59
80	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. <i>Astrophysical Journal</i> , 2015 , 813, 39	4.7	58
79	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	4.7	54
78	IMPLICATIONS FOR THE ORIGIN OF GRB 051103 FROM LIGO OBSERVATIONS. <i>Astrophysical Journal</i> , 2012 , 755, 2	4.7	53
77	FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2014 , 211, 7	8	51
76	Low-latency Gravitational-wave Alerts for Multimessenger Astronomy during the Second Advanced LIGO and Virgo Observing Run. <i>Astrophysical Journal</i> , 2019 , 875, 161	4.7	49
75	Upper limits on gravitational wave bursts in LIGO's second science run. <i>Physical Review D</i> , 2005 , 72,	4.9	49
74	Search for Substellar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2018 , 121, 231103	7.4	49
73	SEARCH FOR GRAVITATIONAL WAVE BURSTS FROM SIX MAGNETARS. <i>Astrophysical Journal Letters</i> , 2011 , 734, L35	7.9	47
72	THEINSTEIN@HOMESearch FOR RADIO PULSARS AND PSR J2007+2722 DISCOVERY. <i>Astrophysical Journal</i> , 2013 , 773, 91	4.7	46
71	Random template banks and relaxed lattice coverings. <i>Physical Review D</i> , 2009 , 79,	4.9	46
70	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
69	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017 , 529, 1600209	2.6	45
68	Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO. <i>Astrophysical Journal</i> , 2019 , 875, 122	4.7	45
67	Upper limits from the LIGO and TAMA detectors on the rate of gravitational-wave bursts. <i>Physical Review D</i> , 2005 , 72,	4.9	44

66	Deep-learning continuous gravitational waves. <i>Physical Review D</i> , 2019 , 100,	4.9	42
65	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
64	The long-term evolution of the accreting millisecond X-ray pulsar Swift J1756.9-508. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 , 403, 1426-1432	4.3	40
63	Pulsar discovery by global volunteer computing. <i>Science</i> , 2010 , 329, 1305	33.3	40
62	STACKED SEARCH FOR GRAVITATIONAL WAVES FROM THE 2006 SGR 1900+14 STORM. <i>Astrophysical Journal</i> , 2009 , 701, L68-L74	4.7	40
61	SUPPLEMENT: LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914 (2016, ApJL, 826, L13). <i>Astrophysical Journal, Supplement Series</i> , 2016 , 225, 8	8	38
60	Cosmological inference using only gravitational wave observations of binary neutron stars. <i>Physical Review D</i> , 2017 , 95,	4.9	38
59	A BAYESIAN APPROACH TO MULTI-MESSENGER ASTRONOMY: IDENTIFICATION OF GRAVITATIONAL-WAVE HOST GALAXIES. <i>Astrophysical Journal</i> , 2014 , 795, 43	4.7	38
58	Joint LIGO and TAMA300 search for gravitational waves from inspiralling neutron star binaries. <i>Physical Review D</i> , 2006 , 73,	4.9	38
57	Search for Eccentric Binary Black Hole Mergers with Advanced LIGO and Advanced Virgo during Their First and Second Observing Runs. <i>Astrophysical Journal</i> , 2019 , 883, 149	4.7	36
56	Gravitational waves from Scorpius X-1: A comparison of search methods and prospects for detection with advanced detectors. <i>Physical Review D</i> , 2015 , 92,	4.9	36
55	The radiative efficiency of a radiatively inefficient accretion flow. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 449, 2803-2817	4.3	36
54	Search for gravitational-wave bursts in LIGO's third science run. <i>Classical and Quantum Gravity</i> , 2006 , 23, S29-S39	3.3	36
53	Cosmological inference using gravitational wave standard sirens: A mock data analysis. <i>Physical Review D</i> , 2020 , 101,	4.9	36
52	Upper Limits on Gravitational Waves from Scorpius X-1 from a Model-based Cross-correlation Search in Advanced LIGO Data. <i>Astrophysical Journal</i> , 2017 , 847, 47	4.7	35
51	Search method for long-duration gravitational-wave transients from neutron stars. <i>Physical Review D</i> , 2011 , 84,	4.9	35
50	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
49	Report on the second Mock LISA data challenge. <i>Classical and Quantum Gravity</i> , 2008 , 25, 114037	3.3	34

48	Source Redshifts from Gravitational-Wave Observations of Binary Neutron Star Mergers. <i>Physical Review X</i> , 2014 , 4,	9.1	33
47	Binary neutron star mergers and third generation detectors: Localization and early warning. <i>Physical Review D</i> , 2018 , 97,	4.9	31
46	Report on the first round of the Mock LISA Data Challenges. <i>Classical and Quantum Gravity</i> , 2007 , 24, S529-S539	3.3	29
45	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
44	Astrophysically triggered searches for gravitational waves: status and prospects. <i>Classical and Quantum Gravity</i> , 2008 , 25, 114051	3.3	24
43	Search for Multimessenger Sources of Gravitational Waves and High-energy Neutrinos with Advanced LIGO during Its First Observing Run, ANTARES, and IceCube. <i>Astrophysical Journal</i> , 2019 , 870, 134	4.7	23
42	Implementation of the frequency-modulated sideband search method for gravitational waves from low mass x-ray binaries. <i>Physical Review D</i> , 2014 , 89,	4.9	23
41	A fast search strategy for gravitational waves from low-mass x-ray binaries. <i>Classical and Quantum Gravity</i> , 2007 , 24, S469-S480	3.3	23
40	A Fermi Gamma-Ray Burst Monitor Search for Electromagnetic Signals Coincident with Gravitational-wave Candidates in Advanced LIGO's First Observing Run. <i>Astrophysical Journal</i> , 2019 , 871, 90	4.7	22
39	ARECIBO PALFA SURVEY AND EINSTEIN@HOME: BINARY PULSAR DISCOVERY BY VOLUNTEER COMPUTING. <i>Astrophysical Journal Letters</i> , 2011 , 732, L1	7.9	22
38	The very faint X-ray binary IGR J17062-6143: a truncated disc, no pulsations, and a possible outflow. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 475, 2027-2044	4.3	21
37	Search for Gravitational-wave Signals Associated with Gamma-Ray Bursts during the Second Observing Run of Advanced LIGO and Advanced Virgo. <i>Astrophysical Journal</i> , 2019 , 886, 75	4.7	21
36	The status of GEO 600. <i>Classical and Quantum Gravity</i> , 2005 , 22, S193-S198	3.3	20
35	First joint search for gravitational-wave bursts in LIGO and GEO 600 data. <i>Classical and Quantum Gravity</i> , 2008 , 25, 245008	3.3	19
34	Avoiding selection bias in gravitational wave astronomy. <i>New Journal of Physics</i> , 2013 , 15, 053027	2.9	18
33	MAXIMIZING THE DETECTION PROBABILITY OF KILONOVAE ASSOCIATED WITH GRAVITATIONAL WAVE OBSERVATIONS. <i>Astrophysical Journal</i> , 2017 , 834, 84	4.7	17
32	Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced LIGO's Second Observing Run. <i>Astrophysical Journal</i> , 2019 , 874, 163	4.7	17
31	Semicoherent search strategy for known continuous wave sources in binary systems. <i>Physical Review D</i> , 2011 , 84,	4.9	16

30	Accretion-induced spin-wandering effects on the neutron star in Scorpius X-1: Implications for continuous gravitational wave searches. <i>Physical Review D</i> , 2018 , 97,	4.9	15
29	Systematic errors in estimation of gravitational-wave candidate significance. <i>Physical Review D</i> , 2017 , 96,	4.9	15
28	Commissioning, characterization and operation of the dual-recycled GEO 600. <i>Classical and Quantum Gravity</i> , 2004 , 21, S1737-S1745	3.3	15
27	Detection and classification of supernova gravitational wave signals: A deep learning approach. <i>Physical Review D</i> , 2020 , 102,	4.9	13
26	Inference on white dwarf binary systems using the first round Mock LISA Data Challenges data sets. <i>Classical and Quantum Gravity</i> , 2007 , 24, S541-S549	3.3	12
25	Inference on inspiral signals using LISA MLDC data. <i>Classical and Quantum Gravity</i> , 2007 , 24, S521-S527	3.3	11
24	A SEMI-COHERENT SEARCH FOR WEAK PULSATIONS IN AQUILA X α . <i>Astrophysical Journal</i> , 2015 , 806, 261	4.7	10
23	Generalized application of the Viterbi algorithm to searches for continuous gravitational-wave signals. <i>Physical Review D</i> , 2019 , 100,	4.9	9
22	Hierarchical Bayesian method for detecting continuous gravitational waves from an ensemble of pulsars. <i>Physical Review D</i> , 2018 , 98,	4.9	9
21	Strategies for the follow-up of gravitational wave transients with the Cherenkov Telescope Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 477, 639-647	4.3	8
20	Astrophysical calibration of gravitational-wave detectors. <i>Physical Review D</i> , 2016 , 93,	4.9	7
19	Probing Intrinsic Properties of Short Gamma-Ray Bursts with Gravitational Waves. <i>Physical Review Letters</i> , 2017 , 119, 181102	7.4	7
18	Bayesian parameter estimation using conditional variational autoencoders for gravitational-wave astronomy. <i>Nature Physics</i> , 2022 , 18, 112-117	16.2	7
17	Robust machine learning algorithm to search for continuous gravitational waves. <i>Physical Review D</i> , 2020 , 102,	4.9	6
16	A Bayesian parameter estimation approach to pulsar time-of-arrival analysis. <i>Classical and Quantum Gravity</i> , 2011 , 28, 055001	3.3	5
15	Nested sampling with normalizing flows for gravitational-wave inference. <i>Physical Review D</i> , 2021 , 103,	4.9	5
14	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
13	Method to detect gravitational waves from an ensemble of known pulsars. <i>Physical Review D</i> , 2016 , 94,	4.9	4

12	Upper limits on the strength of periodic gravitational waves from PSR J1939+2134. <i>Classical and Quantum Gravity</i> , 2004 , 21, S671-S676	3-3	4
11	A Deep Pulse Search in 11 Low Mass X-Ray Binaries. <i>Astrophysical Journal</i> , 2018 , 859, 112	4-7	3
10	Are stellar-mass binary black hole mergers isotropically distributed?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 501, 970-977	4-3	3
9	Enhancing the sensitivity of transient gravitational wave searches with Gaussian mixture models. <i>Physical Review D</i> , 2020 , 102,	4-9	2
8	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA 2018 , 21, 1		2
7	Data analysis methods for testing alternative theories of gravity with LISA Pathfinder. <i>Physical Review D</i> , 2014 , 89,	4-9	1
6	Searching for gravitational waves from low mass x-ray binaries. <i>Classical and Quantum Gravity</i> , 2004 , 21, S729-S734	3-3	0
5	Generalised gravitational wave burst generation with generative adversarial networks. <i>Classical and Quantum Gravity</i> , 2021 , 38, 155005	3-3	0
4	Strategies for the Follow-up of Gravitational Wave Transients at Very High-Energy Gamma Rays with the Cherenkov Telescope Array. <i>Nuclear and Particle Physics Proceedings</i> , 2019 , 306-308, 69-73	0-4	
3	C7 multi-messenger astronomy of GW sources. <i>General Relativity and Gravitation</i> , 2014 , 46, 1	2-3	
2	Upper limit to the transverse to longitudinal motion coupling of a waveguide mirror. <i>Classical and Quantum Gravity</i> , 2015 , 32, 175005	3-3	
1	Detector characterization in GEO 600. <i>Classical and Quantum Gravity</i> , 2003 , 20, S731-S739	3-3	