Alicia M Sintes

List of Publications by Year in Descending Order

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64 24,742 145 139 h-index g-index citations papers 6.5 5.64 30,030 145 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
139	Empirically estimating the distribution of the loudest candidate from a gravitational-wave search. <i>Physical Review D</i> , 2022 , 105,	4.9	2
138	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
137	Time-frequency track distance for comparing continuous gravitational wave signals. <i>Physical Review D</i> , 2021 , 103,	4.9	4
136	Diving below the Spin-down Limit: Constraints on Gravitational Waves from the Energetic Young Pulsar PSR J0537-6910. <i>Astrophysical Journal Letters</i> , 2021 , 913, L27	7.9	13
135	Population Properties of Compact Objects from the Second LIGOVirgo Gravitational-Wave Transient Catalog. <i>Astrophysical Journal Letters</i> , 2021 , 913, L7	7.9	194
134	Constraints on Cosmic Strings Using Data from the Third Advanced LIGO-Virgo Observing Run. <i>Physical Review Letters</i> , 2021 , 126, 241102	7.4	21
133	Open data from the first and second observing runs of Advanced LIGO and Advanced Virgo. <i>SoftwareX</i> , 2021 , 13, 100658	2.7	96
132	Application of a hierarchical MCMC follow-up to Advanced LIGO continuous gravitational-wave candidates. <i>Physical Review D</i> , 2021 , 104,	4.9	7
131	Search Methods for Continuous Gravitational-Wave Signals from Unknown Sources in the Advanced-Detector Era. <i>Universe</i> , 2021 , 7, 474	2.5	5
130	First All-Sky Search for Continuous Gravitational-Wave Signals from Unknown Neutron Stars in Binary Systems Using Advanced LIGO Data. <i>Physical Review Letters</i> , 2020 , 124, 191102	7.4	18
129	GW190814: Gravitational Waves from the Coalescence of a 23 Solar Mass Black Hole with a 2.6 Solar Mass Compact Object. <i>Astrophysical Journal Letters</i> , 2020 , 896, L44	7.9	571
128	GW190425: Observation of a Compact Binary Coalescence with Total Mass ~ 3.4 M?. <i>Astrophysical Journal Letters</i> , 2020 , 892, L3	7.9	591
127	Properties and Astrophysical Implications of the 150 M? Binary Black Hole Merger GW190521. <i>Astrophysical Journal Letters</i> , 2020 , 900, L13	7.9	207
126	Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. <i>Astrophysical Journal Letters</i> , 2020 , 902, L21	7.9	32
125	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
124	A Joint Fermi-GBM and LIGO/Virgo Analysis of Compact Binary Mergers from the First and Second Gravitational-wave Observing Runs. <i>Astrophysical Journal</i> , 2020 , 893, 100	4.7	9
123	GW190521: A Binary Black Hole Merger with a Total Mass of 150 M_{?}. <i>Physical Review Letters</i> , 2020 , 125, 101102	7.4	420

122	Site-selection criteria for the Einstein Telescope. Review of Scientific Instruments, 2020, 91, 094504	1.7	18
121	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
120	Adaptive transient Hough method for long-duration gravitational wave transients. <i>Physical Review D</i> , 2019 , 99,	4.9	10
119	Black holes, gravitational waves and fundamental physics: a roadmap. <i>Classical and Quantum Gravity</i> , 2019 , 36, 143001	3.3	248
118	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
117	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
116	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
115	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
114	First Measurement of the Hubble Constant from a Dark Standard Siren using the Dark Energy Survey Galaxies and the LIGO/Virgo BinaryBlack-hole Merger GW170814. <i>Astrophysical Journal Letters</i> , 2019 , 876, L7	7.9	91
113	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
112	Matched-filter study and energy budget suggest no detectable gravitational-wave Extended emission[From GW170817. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 485, 843-850	4.3	7
111	Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced LIGO Second Observing Run. <i>Astrophysical Journal</i> , 2019 , 874, 163	4.7	17
110	New method to search for continuous gravitational waves from unknown neutron stars in binary systems. <i>Physical Review D</i> , 2019 , 99,	4.9	10
109	Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 20152017 LIGO Data. <i>Astrophysical Journal</i> , 2019 , 879, 10	4.7	63
108	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
107	Search for Subsolar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. <i>Physical Review Letters</i> , 2019 , 123, 161102	7.4	68
106	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
105	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

104	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA 2018 , 21, 1		2
103	Search for Subsolar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2018 , 121, 231103	7.4	49
102	GW170817: Measurements of Neutron Star Radii and Equation of State. <i>Physical Review Letters</i> , 2018 , 121, 161101	7.4	867
101	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018 , 120, 201102	7.4	60
100	Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , 2017 , 34, 104002	3.3	74
99	Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017 , 118, 121101	7.4	137
98	Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017 , 118, 121102	7.4	65
97	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , 2017 , 839, 12	4.7	107
96	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017 , 529, 1600209	2.6	45
95	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2017 , 119, 141101	7.4	1270
94	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
93	A gravitational-wave standard siren measurement of the Hubble constant. <i>Nature</i> , 2017 , 551, 85-88	50.4	413
92	Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. <i>Astrophysical Journal Letters</i> , 2017 , 848, L13	7.9	1614
91	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
90	Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 851, L16	7.9	133
89	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 850, L39	7.9	127
88	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. <i>Physical Psychology of these 2017</i> , 119, 231101	7.4	1609
	Review Letters, 2017 , 118, 221101		

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86	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. <i>Astrophysical Journal Letters</i> , 2017 , 851, L35	7.9	809
85	UPPER LIMITS ON THE RATES OF BINARY NEUTRON STAR AND NEUTRON STAR B LACK HOLE MERGERS FROM ADVANCED LIGOS FIRST OBSERVING RUN. <i>Astrophysical Journal Letters</i> , 2016 , 832, L21	7.9	130
84	Impact of gravitational radiation higher order modes on single aligned-spin gravitational wave searches for binary black holes. <i>Physical Review D</i> , 2016 , 93,	4.9	52
83	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. <i>Physical Review Letters</i> , 2016 , 116, 131102	7.4	188
82	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , 2016 , 116, 131103	7.4	328
81	SUPPLEMENT: IOCALIZATION 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
80	Tests of General Relativity with GW150914. Physical Review Letters, 2016, 116, 221101	7.4	837
79	Properties of the Binary Black Hole Merger GW150914. Physical Review Letters, 2016, 116, 241102	7.4	515
78	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
77	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 818, L22	7.9	512
76	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. Classical and Quantum Gravity, 2016 , 33,	3.3	155
75	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
74	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
73			
72	Characterization of the LIGO detectors during their sixth science run. <i>Classical and Quantum Gravity</i> , 2015 , 32, 115012	3.3	790
71	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. <i>Astrophysical Journal</i> , 2015 , 813, 39	4.7	58
70	Implementation of an \$mathcal{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
69	GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. Astrophysical Journal, 2014 , 785, 119	4.7	109

68	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
67	FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. Astrophysical Journal, Supplement Series, 2014 , 211, 7	8	51
66	Constraints on cosmic strings from the LIGO-Virgo gravitational-wave detectors. <i>Physical Review Letters</i> , 2014 , 112, 131101	7.4	59
65	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
64	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
63	IMPLICATIONS FOR THE ORIGIN OF GRB 051103 FROM LIGO OBSERVATIONS. <i>Astrophysical Journal</i> , 2012 , 755, 2	4.7	53
62	Scientific objectives of Einstein Telescope. Classical and Quantum Gravity, 2012, 29, 124013	3.3	256
61	SWIFT FOLLOW-UP OBSERVATIONS OF CANDIDATE GRAVITATIONAL-WAVE TRANSIENT EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2012 , 203, 28	8	57
60	The characterization of Virgo data and its impact on gravitational-wave searches. <i>Classical and Quantum Gravity</i> , 2012 , 29, 155002	3.3	59
59	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
58	SEARCH FOR GRAVITATIONAL WAVE BURSTS FROM SIX MAGNETARS. <i>Astrophysical Journal Letters</i> , 2011 , 734, L35	7.9	47
57	BEATING THE SPIN-DOWN LIMIT ON GRAVITATIONAL WAVE EMISSION FROM THE VELA PULSAR. <i>Astrophysical Journal</i> , 2011 , 737, 93	4.7	75
56	Directional limits on persistent gravitational waves using LIGO S5 science data. <i>Physical Review Letters</i> , 2011 , 107, 271102	7.4	85
55	A gravitational wave observatory operating beyond the quantum shot-noise limit. <i>Nature Physics</i> , 2011 , 7, 962-965	16.2	554
54	SEARCHES FOR GRAVITATIONAL WAVES FROM KNOWN PULSARS WITH SCIENCE RUN 5 LIGO DATA. <i>Astrophysical Journal</i> , 2010 , 713, 671-685	4.7	140
53	The Einstein Telescope: a third-generation gravitational wave observatory. <i>Classical and Quantum Gravity</i> , 2010 , 27, 194002	3.3	675
52	Weak lensing effects in the measurement of the dark energy equation of state with LISA. <i>Physical Review D</i> , 2010 , 81,	4.9	14
51	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

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50	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	-4:461	79
49	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, 1438-14	452	54
48	FIRST SEARCH FOR GRAVITATIONAL WAVES FROM THE YOUNGEST KNOWN NEUTRON STAR. Astrophysical Journal, 2010 , 722, 1504-1513	4.7	95
47	The Search for Gravitational Waves: Opening a New Window into the Universe. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2010 , 65-76	0.3	
46	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
45	Massive black-hole binary inspirals: results from the LISA parameter estimation taskforce. <i>Classical and Quantum Gravity</i> , 2009 , 26, 094027	3.3	79
44	An upper limit on the stochastic gravitational-wave background of cosmological origin. <i>Nature</i> , 2009 , 460, 990-4	50.4	267
43	STACKED SEARCH FOR GRAVITATIONAL WAVES FROM THE 2006 SGR 1900+14 STORM. Astrophysical Journal, 2009 , 701, L68-L74	4.7	40
42	Template bank for gravitational waveforms from coalescing binary black holes: Nonspinning binaries. <i>Physical Review D</i> , 2008 , 77,	4.9	262
41	LISA observations of supermassive black holes: Parameter estimation using full post-Newtonian inspiral waveforms. <i>Physical Review D</i> , 2008 , 77,	4.9	51
40	Astrophysically triggered searches for gravitational waves: status and prospects. <i>Classical and Quantum Gravity</i> , 2008 , 25, 114051	3.3	24
39	A 🗗 veto for continuous gravitational wave searches. Classical and Quantum Gravity, 2008, 25, 184014	3.3	6
38	LISA parameter estimation of supermassive black holes. Classical and Quantum Gravity, 2008, 25, 18403	23.3	10
37	Searching for gravitational waves from Cassiopeia A with LIGO. <i>Classical and Quantum Gravity</i> , 2008 , 25, 235011	3.3	64
36	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
35	Search for gravitational-wave bursts from soft gamma repeaters. <i>Physical Review Letters</i> , 2008 , 101, 211102	7.4	64
34	Implications for the Origin of GRB 070201 from LIGO Observations. <i>Astrophysical Journal</i> , 2008 , 681, 1419-1430	4.7	126
33	Report on an all-sky LIGO search for periodic gravitational waves in the S4 data. <i>Journal of Physics:</i> Conference Series, 2008 , 122, 012033	0.3	

32	Beating the Spin-Down Limit on Gravitational Wave Emission from the Crab Pulsar. <i>Astrophysical Journal</i> , 2008 , 683, L45-L49	4.7	148
31	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
30	A phenomenological template family for black-hole coalescence waveforms. <i>Classical and Quantum Gravity</i> , 2007 , 24, S689-S699	3.3	194
29	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
28	The GEO-HF project. Classical and Quantum Gravity, 2006, 23, S207-S214	3.3	121
27	Status of the GEO600 detector. Classical and Quantum Gravity, 2006, 23, S71-S78	3.3	120
26	Search for gravitational-wave bursts in LIGO's third science run. <i>Classical and Quantum Gravity</i> , 2006 , 23, S29-S39	3.3	36
25	Parameter estimation of compact binaries using the inspiral and ringdown waveforms. <i>Classical and Quantum Gravity</i> , 2006 , 23, 3763-3782	3.3	13
24	Recent results on the search for continuous sources with LIGO and GEO 600. <i>Journal of Physics: Conference Series</i> , 2006 , 39, 36-38	0.3	5
23	Improved Hough search for gravitational wave pulsars. <i>Journal of Physics: Conference Series</i> , 2006 , 32, 206-211	0.3	16
22	The status of GEO 600. Classical and Quantum Gravity, 2005, 22, S193-S198	3.3	20
21	Upper limits on a stochastic background of gravitational waves. <i>Physical Review Letters</i> , 2005 , 95, 22110) † .4	69
20	Status of GEO 600. Classical and Quantum Gravity, 2004, 21, S417-S423	3.3	81
19	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
18	Commissioning, characterization and operation of the dual-recycled GEO 600. <i>Classical and Quantum Gravity</i> , 2004 , 21, S1737-S1745	3.3	15
17	Hough transform search for continuous gravitational waves. <i>Physical Review D</i> , 2004 , 70,	4.9	111
16	The status of GEO 600 2004 ,		2
15	A report on the status of the GEO 600 gravitational wave detector. <i>Classical and Quantum Gravity</i> , 2003 , 20, S581-S591	3.3	14

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14	Detector characterization in GEO 600. Classical and Quantum Gravity, 2003, 20, S731-S739	3.3	
13	Status of the GEO600 gravitational wave detector 2003 ,		2
12	The GEO 600 gravitational wave detector. Classical and Quantum Gravity, 2002, 19, 1377-1387	3.3	260
11	Data acquisition and detector characterization of GEO600. Classical and Quantum Gravity, 2002, 19, 139	95.1340	7 14
10	Infinite Kinematic Self-Similarity and Perfect Fluid Spacetimes. <i>General Relativity and Gravitation</i> , 2001 , 33, 1863-1895	2.3	8
9	Removing nonstationary, nonharmonic external interference from gravitational wave interferometer data. <i>Physical Review D</i> , 1999 , 60,	4.9	5
8	Lie Groups of Conformal Motions Acting on Null Orbits. <i>General Relativity and Gravitation</i> , 1998 , 30, 15	1-1.57	1
7	Coherent line removal: Filtering out harmonically related line interference from experimental data, with application to gravitational wave detectors. <i>Physical Review D</i> , 1998 , 58,	4.9	20
6	Kinematic self-similar locally rotationally symmetric models. <i>Classical and Quantum Gravity</i> , 1998 , 15, 3689-3700	3.3	9
5	Homothetic perfect fluid spacetimes. <i>Classical and Quantum Gravity</i> , 1997 , 14, 1183-1205	3.3	24
4	Space-times admitting a three-dimensional conformal group. <i>General Relativity and Gravitation</i> , 1996 , 28, 311-337	2.3	14
3	Self-similar static solutions admitting a 2-space of constant curvature. <i>Classical and Quantum Gravity</i> , 1994 , 11, L125-L128	3.3	3
2	Spacelimes admitting a three-parameter similarity group. <i>Journal of Mathematical Physics</i> , 1994 , 35, 3560-3570	1.2	8
1	LIGO detector characterization in the second and third observing runs. <i>Classical and Quantum Gravity</i> ,	3.3	31