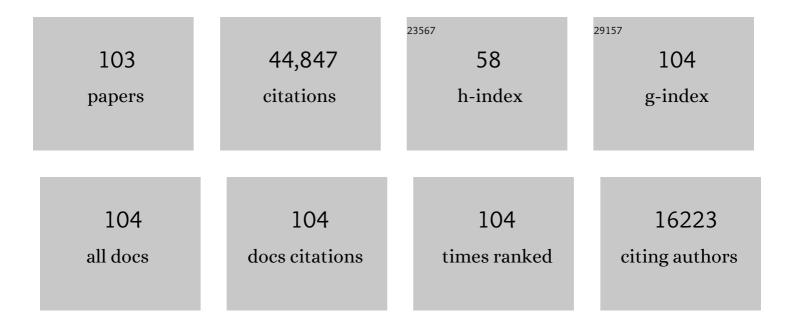
Simon P Stevenson

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Observation of Gravitational Waves from a Binary Black Hole Merger. Physical Review Letters, 2016, 116, 061102.	7.8	8,753
2	GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. Physical Review Letters, 2017, 119, 161101.	7.8	6,413
3	Multi-messenger Observations of a Binary Neutron Star Merger [*] . Astrophysical Journal Letters, 2017, 848, L12.	8.3	2,805
4	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. Physical Review Letters, 2016, 116, 241103.	7.8	2,701
5	Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. Astrophysical Journal Letters, 2017, 848, L13.	8.3	2,314
6	GWTC-1: A Gravitational-Wave Transient Catalog of Compact Binary Mergers Observed by LIGO and Virgo during the First and Second Observing Runs. Physical Review X, 2019, 9, .	8.9	2,022
7	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. Physical Review Letters, 2017, 118, 221101.	7.8	1,987
8	Advanced LIGO. Classical and Quantum Gravity, 2015, 32, 074001.	4.0	1,929
9	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. Physical Review Letters, 2017, 119, 141101.	7.8	1,600
10	GW170817: Measurements of Neutron Star Radii and Equation of State. Physical Review Letters, 2018, 121, 161101.	7.8	1,473
11	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. Astrophysical Journal Letters, 2017, 851, L35.	8.3	968
12	Binary Black Hole Mergers in the First Advanced LIGO Observing Run. Physical Review X, 2016, 6, .	8.9	898
13	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2018, 21, 3.	26.7	808
14	Properties of the Binary Neutron Star Merger GW170817. Physical Review X, 2019, 9, .	8.9	728
15	A gravitational-wave standard siren measurement of the Hubble constant. Nature, 2017, 551, 85-88.	27.8	674
16	Properties of the Binary Black Hole Merger GW150914. Physical Review Letters, 2016, 116, 241102.	7.8	673
17	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. Astrophysical Journal Letters, 2016, 818, L22.	8.3	633
18	Binary Black Hole Population Properties Inferred from the First and Second Observing Runs of Advanced LIGO and Advanced Virgo. Astrophysical Journal Letters, 2019, 882, L24.	8.3	566

#	Article	IF	CITATIONS
19	Tests of general relativity with the binary black hole signals from the LIGO-Virgo catalog GWTC-1. Physical Review D, 2019, 100, .	4.7	470
20	Tests of General Relativity with GW170817. Physical Review Letters, 2019, 123, 011102.	7.8	370
21	Formation of the first three gravitational-wave observations through isolated binary evolution. Nature Communications, 2017, 8, 14906.	12.8	270
22	THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. Astrophysical Journal Letters, 2016, 833, L1.	8.3	230
23	Distinguishing spin-aligned and isotropic black hole populations with gravitational waves. Nature, 2017, 548, 426-429.	27.8	208
24	Search for the isotropic stochastic background using data from Advanced LIGO's second observing run. Physical Review D, 2019, 100, .	4.7	200
25	Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run. Physical Review Letters, 2017, 118, 121101.	7.8	194
26	The effect of the metallicity-specific star formation history on double compact object mergers. Monthly Notices of the Royal Astronomical Society, 2019, 490, 3740-3759.	4.4	192
27	Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. Astrophysical Journal Letters, 2017, 851, L16.	8.3	189
28	On the formation history of Galactic double neutron stars. Monthly Notices of the Royal Astronomical Society, 2018, 481, 4009-4029.	4.4	189
29	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. Astrophysical Journal Letters, 2019, 876, L7.	8.3	179
30	GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. Physical Review Letters, 2018, 120, 091101.	7.8	166
31	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated withÂGW170817. Astrophysical Journal Letters, 2017, 850, L39.	8.3	156
32	The origin of spin in binary black holes. Astronomy and Astrophysics, 2020, 635, A97.	5.1	155
33	Hierarchical analysis of gravitational-wave measurements of binary black hole spin–orbit misalignments. Monthly Notices of the Royal Astronomical Society, 2017, 471, 2801-2811.	4.4	152
34	Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory. Astrophysical Journal Letters, 2017, 850, L35.	8.3	135
35	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. Astrophysical Journal, 2017, 839, 12.	4.5	131
36	Search for Subsolar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. Physical Review Letters, 2019, 123, 161102.	7.8	119

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37	The Impact of Pair-instability Mass Loss on the Binary Black Hole Mass Distribution. Astrophysical Journal, 2019, 882, 121.	4.5	114
38	Improved Analysis of GW150914 Using a Fully Spin-Precessing Waveform Model. Physical Review X, 2016, 6, .	8.9	106
39	Accuracy of inference on the physics of binary evolution from gravitational-wave observations. Monthly Notices of the Royal Astronomical Society, 2018, 477, 4685-4695.	4.4	100
40	Effects of waveform model systematics on the interpretation of GW150914. Classical and Quantum Gravity, 2017, 34, 104002.	4.0	98
41	Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. Astrophysical Journal, 2019, 875, 160.	4.5	97
42	DISTINGUISHING COMPACT BINARY POPULATION SYNTHESIS MODELS USING GRAVITATIONAL WAVE OBSERVATIONS OF COALESCING BINARY BLACK HOLES. Astrophysical Journal, 2015, 810, 58.	4.5	90
43	Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015–2017 LIGO Data. Astrophysical Journal, 2019, 879, 10.	4.5	88
44	Improved Upper Limits on the Stochastic Gravitational-Wave Background from 2009–2010 LIGO and Virgo Data. Physical Review Letters, 2014, 113, 231101.	7.8	86
45	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. Physical Review Letters, 2018, 120, 201102.	7.8	85
46	Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. Physical Review Letters, 2017, 118, 121102.	7.8	84
47	Impact of massive binary star and cosmic evolution on gravitational wave observations I: black hole–neutron star mergers. Monthly Notices of the Royal Astronomical Society, 2021, 508, 5028-5063.	4.4	83
48	Search for Subsolar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. Physical Review Letters, 2018, 121, 231103.	7.8	77
49	On the Progenitor of Binary Neutron Star Merger GW170817. Astrophysical Journal Letters, 2017, 850, L40.	8.3	73
50	Search for Eccentric Binary Black Hole Mergers with Advanced LIGO and Advanced Virgo during Their First and Second Observing Runs. Astrophysical Journal, 2019, 883, 149.	4.5	72
51	Low-latency Gravitational-wave Alerts for Multimessenger Astronomy during the Second Advanced LIGO and Virgo Observing Run. Astrophysical Journal, 2019, 875, 161.	4.5	71
52	All-sky search for short gravitational-wave bursts in the first Advanced LIGO run. Physical Review D, 2017, 95, .	4.7	69
53	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. Astrophysical Journal, 2015, 813, 39.	4.5	66
54	SUPPLEMENT: "THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914―(2016, ApJL, 833, L1). Astrophysical Journal, Supplement Series, 2016, 227, 14.	7.7	63

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55	Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO [*] . Astrophysical Journal, 2019, 875, 122.	4.5	61
56	First all-sky search for continuous gravitational waves from unknown sources in binary systems. Physical Review D, 2014, 90, .	4.7	60
57	Narrow-band search for gravitational waves from known pulsars using the second LIGO observing run. Physical Review D, 2019, 99, .	4.7	60
58	Model-independent inference on compact-binary observations. Monthly Notices of the Royal Astronomical Society, 2017, 465, 3254-3260.	4.4	58
59	Rapid Stellar and Binary Population Synthesis with COMPAS. Astrophysical Journal, Supplement Series, 2022, 258, 34.	7.7	57
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. Astrophysical Journal, 2017, 841, 89.	4.5	52
61	Search for intermediate mass black hole binaries in the first and second observing runs of the Advanced LIGO and Virgo network. Physical Review D, 2019, 100, .	4.7	52
62	Directional limits on persistent gravitational waves using data from Advanced LIGO's first two observing runs. Physical Review D, 2019, 100, .	4.7	52
63	Detecting double neutron stars with LISA. Monthly Notices of the Royal Astronomical Society, 2020, 492, 3061-3072.	4.4	49
64	Directed search for gravitational waves from Scorpius X-1 with initial LIGO data. Physical Review D, 2015, 91, .	4.7	47
65	First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data. Physical Review D, 2017, 96, .	4.7	47
66	Impact of massive binary star and cosmic evolution on gravitational wave observations – II. Double compact object rates and properties. Monthly Notices of the Royal Astronomical Society, 2022, 516, 5737-5761.	4.4	47
67	Full band all-sky search for periodic gravitational waves in the O1 LIGO data. Physical Review D, 2018, 97, .	4.7	46
68	Search for gravitational waves from Scorpius X-1 in the second Advanced LIGO observing run with an improved hidden Markov model. Physical Review D, 2019, 100, .	4.7	46
69	On the origin of GW190425. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 496, L64-L69.	3.3	46
70	Modelling neutron star–black hole binaries: future pulsar surveys and gravitational wave detectors. Monthly Notices of the Royal Astronomical Society, 2021, 504, 3682-3710.	4.4	43
71	The NINJA-2 project: detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations. Classical and Quantum Gravity, 2014, 31, 115004.	4.0	42
72	Inference on gravitational waves from coalescences of stellar-mass compact objects and intermediate-mass black holes. Monthly Notices of the Royal Astronomical Society, 2016, 457, 4499-4506.	4.4	42

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73	Luminous Red Novae: population models and future prospects. Monthly Notices of the Royal Astronomical Society, 2020, 492, 3229-3240.	4.4	42
74	Search for high-energy neutrinos from gravitational wave event GW151226 and candidate LVT151012 with ANTARES and IceCube. Physical Review D, 2017, 96, .	4.7	40
75	Narrow-band search of continuous gravitational-wave signals from Crab and Vela pulsars in Virgo VSR4 data. Physical Review D, 2015, 91, .	4.7	37
76	Constraining the <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mi>p</mml:mi></mml:math> -Mode– <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>g</mml:mi> -Mode Tidal Instability with GW170817. Physical Review Letters, 2019, 122, 061104.</mml:math 	7.8	36
77	Modelling double neutron stars: radio and gravitational waves. Monthly Notices of the Royal Astronomical Society, 2020, 494, 1587-1610.	4.4	36
78	Search for gravitational radiation from intermediate mass black hole binaries in data from the second LIGO-Virgo joint science run. Physical Review D, 2014, 89, .	4.7	35
79	Implementation of an \$mathcal{F}\$-statistic all-sky search for continuous gravitational waves in Virgo VSR1 data. Classical and Quantum Gravity, 2014, 31, 165014.	4.0	34
80	Search for Gravitational Waves Associated with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>l³</mml:mi>-ray Bursts Detected by the Interplanetary Network. Physical Review Letters, 2014, 113, 011102.</mml:math 	7.8	32
81	First low frequency all-sky search for continuous gravitational wave signals. Physical Review D, 2016, 93, .	4.7	32
82	Search for Multimessenger Sources of Gravitational Waves and High-energy Neutrinos with Advanced LIGO during Its First Observing Run, ANTARES, and IceCube. Astrophysical Journal, 2019, 870, 134.	4.5	32
83	<scp>stroopwafel</scp> : simulating rare outcomes from astrophysical populations, with application to gravitational-wave sources. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5228-5248.	4.4	30
84	A Fermi Gamma-Ray Burst Monitor Search for Electromagnetic Signals Coincident with Gravitational-wave Candidates in Advanced LIGO's First Observing Run. Astrophysical Journal, 2019, 871, 90.	4.5	30
85	Multimessenger search for sources of gravitational waves and high-energy neutrinos: Initial results for LIGO-Virgo and IceCube. Physical Review D, 2014, 90, .	4.7	29
86	Methods and results of a search for gravitational waves associated with gamma-ray bursts using the GEO 600, LIGO, and Virgo detectors. Physical Review D, 2014, 89, .	4.7	29
87	Search for gravitational wave ringdowns from perturbed intermediate mass black holes in LIGO-Virgo data from 2005–2010. Physical Review D, 2014, 89, .	4.7	28
88	Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced LIGO's Second Observing Run. Astrophysical Journal, 2019, 874, 163.	4.5	26
89	The fates of massive stars: exploring uncertainties in stellar evolution with metisse. Monthly Notices of the Royal Astronomical Society, 2020, 497, 4549-4564.	4.4	26
90	Heavy Double Neutron Stars: Birth, Midlife, and Death. Astrophysical Journal Letters, 2021, 909, L19.	8.3	24

#	Article	IF	CITATIONS
91	All-sky search for long-duration gravitational-wave transients in the second Advanced LIGO observing run. Physical Review D, 2019, 99, .	4.7	22
92	Linking the rates of neutron star binaries and short gamma-ray bursts. Physical Review D, 2022, 105, .	4.7	21
93	All-sky search for long-duration gravitational wave transients in the first Advanced LIGO observing run. Classical and Quantum Gravity, 2018, 35, 065009.	4.0	18
94	Constraints on Weak Supernova Kicks from Observed Pulsar Velocities. Astrophysical Journal Letters, 2021, 920, L37.	8.3	18
95	Search of the Orion spur for continuous gravitational waves using a loosely coherent algorithm on data from LIGO interferometers. Physical Review D, 2016, 93, .	4.7	17
96	Unmodelled clustering methods for gravitational wave populations of compact binary mergers. Monthly Notices of the Royal Astronomical Society, 2019, 488, 3810-3817.	4.4	16
97	Explaining the differences in massive star models from various simulations. Monthly Notices of the Royal Astronomical Society, 2022, 512, 5717-5725.	4.4	15
98	Dynamical double black holes and their host cluster properties. Monthly Notices of the Royal Astronomical Society, 2022, 513, 4527-4555.	4.4	13
99	Modelling the formation of the first two neutron star–black hole mergers, GW200105 and GW200115: metallicity, chirp masses, and merger remnant spins. Monthly Notices of the Royal Astronomical Society, 2022, 513, 5780-5789.	4.4	12
100	Biases in Estimates of Black Hole Kicks from the Spin Distribution of Binary Black Holes. Astrophysical Journal Letters, 2022, 926, L32.	8.3	11
101	COMPAS: A rapid binary population synthesis suite. Journal of Open Source Software, 2022, 7, 3838.	4.6	9
102	Exploring the Parameter Space of Compact Binary Population Synthesis. Proceedings of the International Astronomical Union, 2016, 12, 46-50.	0.0	8
103	Wide binary pulsars from electron-capture supernovae. Monthly Notices of the Royal Astronomical Society, 2022, 513, 6105-6110.	4.4	4