Stephen Fairhurst

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

19,697 64 130 125 h-index g-index citations papers 6.14 130 22,527 5.9 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
125	Understanding How Fast Black Holes Spin by Analyzing Data from the Second Gravitational-wave Catalogue. <i>Astrophysical Journal</i> , 2022 , 928, 75	4.7	1
124	The Emergence of Structure in the Binary Black Hole Mass Distribution. <i>Astrophysical Journal Letters</i> , 2021 , 913, L19	7.9	18
123	Identifying when precession can be measured in gravitational waveforms. <i>Physical Review D</i> , 2021 , 103,	4.9	5
122	Measuring gravitational-wave higher-order multipoles. <i>Physical Review D</i> , 2021 , 103,	4.9	9
121	Unveiling early black hole growth with multifrequency gravitational wave observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 500, 4095-4109	4.3	8
120	Two-harmonic approximation for gravitational waveforms from precessing binaries. <i>Physical Review D</i> , 2020 , 102,	4.9	15
119	When will we observe binary black holes precessing?. <i>Physical Review D</i> , 2020 , 102,	4.9	15
118	Constraining the Inclinations of Binary Mergers from Gravitational-wave Observations. <i>Astrophysical Journal</i> , 2019 , 877, 82	4.7	18
117	Localization of transient gravitational wave sources: beyond triangulation. <i>Classical and Quantum Gravity</i> , 2018 , 35, 105002	3.3	12
116	Constraining Black Hole Spins with Gravitational-wave Observations. <i>Astrophysical Journal</i> , 2018 , 868, 140	4.7	31
115	Localization of binary neutron star mergers with second and third generation gravitational-wave detectors. <i>Physical Review D</i> , 2018 , 97,	4.9	19
114	Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , 2017 , 34, 104002	3.3	74
113	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
112	Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017 , 118, 121102	7.4	65
111	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , 2017 , 839, 12	4.7	107
110	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017 , 529, 1600209	2.6	45
109	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

108	A gravitational-wave standard siren measurement of the Hubble constant. <i>Nature</i> , 2017 , 551, 85-88	50.4	413
107	The Emergence of a Lanthanide-rich Kilonova Following the Merger of Two Neutron Stars. Astrophysical Journal Letters, 2017, 848, L27	7.9	353
106	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
105	The Environment of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 848, L28	7.9	89
104	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
103	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
102	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 850, L39	7.9	127
101	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. <i>Physical Review Letters</i> , 2017 , 118, 221101	7.4	1609
100	On the Progenitor of Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 850, L40	7.9	50
99	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. <i>Astrophysical Journal Letters</i> , 2017 , 851, L35	7.9	809
98	Detecting Binary Compact-object Mergers with Gravitational Waves: Understanding and Improving the Sensitivity of the PyCBC Search. <i>Astrophysical Journal</i> , 2017 , 849, 118	4.7	93
97	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
96	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. <i>Physical Review Letters</i> , 2016 , 116, 131102	7.4	188
95	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , 2016 , 116, 131103	7.4	328
94	SUPPLEMENT: IIOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914II(2016, ApJL, 826, L13). <i>Astrophysical Journal, Supplement Series</i> , 2016 , 225, 8	8	38
93	Tests of General Relativity with GW150914. Physical Review Letters, 2016, 116, 221101	7.4	837
92	Properties of the Binary Black Hole Merger GW150914. Physical Review Letters, 2016, 116, 241102	7.4	515
91	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

90	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 818, L22	7.9	512
89	A DARK ENERGY CAMERA SEARCH FOR AN OPTICAL COUNTERPART TO THE FIRST ADVANCED LIGO GRAVITATIONAL WAVE EVENT GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 823, L33	7.9	53
88	The PyCBC search for gravitational waves from compact binary coalescence. <i>Classical and Quantum Gravity</i> , 2016 , 33, 215004	3.3	263
87	Characterization of the LIGO detectors during their sixth science run. <i>Classical and Quantum Gravity</i> , 2015 , 32, 115012	3.3	79 ⁰
86	PROSPECTS FOR JOINT GRAVITATIONAL WAVE AND SHORT GAMMA-RAY BURST OBSERVATIONS. <i>Astrophysical Journal</i> , 2015 , 809, 53	4.7	33
85	DISTINGUISHING COMPACT BINARY POPULATION SYNTHESIS MODELS USING GRAVITATIONAL WAVE OBSERVATIONS OF COALESCING BINARY BLACK HOLES. <i>Astrophysical Journal</i> , 2015 , 810, 58	4.7	74
84	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. <i>Astrophysical Journal</i> , 2015 , 813, 39	4.7	58
83	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
82	GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. <i>Astrophysical Journal</i> , 2014 , 785, 119	4.7	109
81	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
80	Relativistic astrophysics at GR20. General Relativity and Gravitation, 2014, 46, 1	2.3	
79	Parameter estimation on compact binary coalescences with abruptly terminating gravitational waveforms. <i>Classical and Quantum Gravity</i> , 2014 , 31, 155005	3.3	41
78	FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. Astrophysical Journal, Supplement Series, 2014 , 211, 7	8	51
77	Constraints on cosmic strings from the LIGO-Virgo gravitational-wave detectors. <i>Physical Review Letters</i> , 2014 , 112, 131101	7.4	59
76	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
75	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
74	Addendum to The NINJA-2 catalog of hybrid post-Newtonian/numerical-relativity waveforms for non-precessing black-hole binaries [Classical and Quantum Gravity, 2013, 30, 199401]	3.3	21
73	WHEN CAN GRAVITATIONAL-WAVE OBSERVATIONS DISTINGUISH BETWEEN BLACK HOLES AND NEUTRON STARS?. <i>Astrophysical Journal Letters</i> , 2013 , 766, L14	7.9	98

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72	Degeneracy between mass and spin in black-hole-binary waveforms. <i>Physical Review D</i> , 2013 , 87,	4.9	91
71	IMPLICATIONS FOR THE ORIGIN OF GRB 051103 FROM LIGO OBSERVATIONS. <i>Astrophysical Journal</i> , 2012 , 755, 2	4.7	53
70	Scientific objectives of Einstein Telescope. Classical and Quantum Gravity, 2012, 29, 124013	3.3	256
69	The NINJA-2 catalog of hybrid post-Newtonian/numerical-relativity waveforms for non-precessing black-hole binaries. <i>Classical and Quantum Gravity</i> , 2012 , 29, 124001	3.3	94
68	Conditioned [corrected] stimulus informativeness governs conditioned stimulus-unconditioned stimulus associability. <i>Journal of Experimental Psychology</i> , 2012 , 38, 217-32		32
67	SWIFT FOLLOW-UP OBSERVATIONS OF CANDIDATE GRAVITATIONAL-WAVE TRANSIENT EVENTS. Astrophysical Journal, Supplement Series, 2012 , 203, 28	8	57
66	The characterization of Virgo data and its impact on gravitational-wave searches. <i>Classical and Quantum Gravity</i> , 2012 , 29, 155002	3.3	59
65	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
64	Pharmacologic rescue of motivational deficit in an animal model of the negative symptoms of schizophrenia. <i>Biological Psychiatry</i> , 2011 , 69, 928-35	7.9	68
63	SEARCH FOR GRAVITATIONAL WAVE BURSTS FROM SIX MAGNETARS. <i>Astrophysical Journal Letters</i> , 2011 , 734, L35	7.9	47
62	BEATING THE SPIN-DOWN LIMIT ON GRAVITATIONAL WAVE EMISSION FROM THE VELA PULSAR. Astrophysical Journal, 2011 , 737, 93	4.7	75
61	Current status of gravitational wave observations. <i>General Relativity and Gravitation</i> , 2011 , 43, 387-407	2.3	4
60	A coherent triggered search for single-spin compact binary coalescences in gravitational wave data. <i>Classical and Quantum Gravity</i> , 2011 , 28, 134008	3.3	12
59	Directional limits on persistent gravitational waves using LIGO S5 science data. <i>Physical Review Letters</i> , 2011 , 107, 271102	7.4	85
58	Source localization with an advanced gravitational wave detector network. <i>Classical and Quantum Gravity</i> , 2011 , 28, 105021	3.3	126
57	A gravitational wave observatory operating beyond the quantum shot-noise limit. <i>Nature Physics</i> , 2011 , 7, 962-965	16.2	554
56	SEARCHES FOR GRAVITATIONAL WAVES FROM KNOWN PULSARS WITH SCIENCE RUN 5 LIGO DATA. <i>Astrophysical Journal</i> , 2010 , 713, 671-685	4.7	140
55	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

54	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	· 4 61	79
53	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, 1438-145	5 <u>7</u>	54
52	FIRST SEARCH FOR GRAVITATIONAL WAVES FROM THE YOUNGEST KNOWN NEUTRON STAR. <i>Astrophysical Journal</i> , 2010 , 722, 1504-1513	.7	95
51	All-sky LIGO search for periodic gravitational waves in the early fifth-science-run data. <i>Physical Review Letters</i> , 2009 , 102, 111102	-4	77
50	Glutaminase-deficient mice display hippocampal hypoactivity, insensitivity to pro-psychotic drugs and potentiated latent inhibition: relevance to schizophrenia. <i>Neuropsychopharmacology</i> , 2009 , 34, 2305-2	272	65
49	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	.3	98
48	Searching for binary coalescences with inspiral templates: detection and parameter estimation. Classical and Quantum Gravity, 2009, 26, 114009 3-	.3	10
47	The loudest event statistic: general formulation, properties and applications. <i>Classical and Quantum Gravity</i> , 2009 , 26, 175009	.3	39
46	Status of NINJA: the Numerical INJection Analysis project. <i>Classical and Quantum Gravity</i> , 2009 , 26, 11409.	18	36
45	Triangulation of gravitational wave sources with a network of detectors. <i>New Journal of Physics</i> , 2.009 , 11, 123006	.9	122
44	An upper limit on the stochastic gravitational-wave background of cosmological origin. <i>Nature</i> , 2009 , 460, 990-4	0.4	267
43	STACKED SEARCH FOR GRAVITATIONAL WAVES FROM THE 2006 SGR 1900+14 STORM. Astrophysical Journal, 2009 , 701, L68-L74	7	40
42	Impaired timing precision produced by striatal D2 receptor overexpression is mediated by cognitive and motivational deficits. <i>Behavioral Neuroscience</i> , 2009 , 123, 720-30	.1	61
41	Extremality conditions for isolated and dynamical horizons. <i>Physical Review D</i> , 2008 , 77,	9	52
40	The Mock LISA Data Challenges: from Challenge 1B to Challenge 3. <i>Classical and Quantum Gravity</i> , 2008 , 25, 184026	.3	50
39	Astrophysically triggered searches for gravitational waves: status and prospects. <i>Classical and Quantum Gravity</i> , 2008 , 25, 114051	.3	24
38	A hierarchical search for gravitational waves from supermassive black hole binary mergers. <i>Classical and Quantum Gravity</i> , 2008 , 25, 184027	.3	13
37	Interpreting the results of searches for gravitational waves from coalescing binaries. <i>Classical and Quantum Gravity</i> , 2008 , 25, 105002	.3	25

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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	Report on the second Mock LISA data challenge. <i>Classical and Quantum Gravity</i> , 2008 , 25, 114037	3.3	34
34	Search for gravitational-wave bursts from soft gamma repeaters. <i>Physical Review Letters</i> , 2008 , 101, 211102	7.4	64
33	Implications for the Origin of GRB 070201 from LIGO Observations. <i>Astrophysical Journal</i> , 2008 , 681, 1419-1430	4.7	126
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	Host Galaxies Catalog Used in LIGO Searches for Compact Binary Coalescence Events. <i>Astrophysical Journal</i> , 2008 , 675, 1459-1467	4.7	109
30	Optimizing Workflow Data Footprint. Scientific Programming, 2007, 15, 249-268	1.4	23
29	Transient overexpression of striatal D2 receptors impairs operant motivation and interval timing. Journal of Neuroscience, 2007 , 27, 7731-9	6.6	167
28	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
27	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
26	Isolated, slowly evolving, and dynamical trapping horizons: Geometry and mechanics from surface deformations. <i>Physical Review D</i> , 2007 , 75,	4.9	66
25	Search for gravitational-wave bursts in LIGO's third science run. <i>Classical and Quantum Gravity</i> , 2006 , 23, S29-S39	3.3	36
24	Pavlovian contingencies and temporal information. <i>Journal of Experimental Psychology</i> , 2006 , 32, 284-9	4	25
23	A first comparison of search methods for gravitational wave bursts using LIGO and Virgo simulated data. <i>Classical and Quantum Gravity</i> , 2005 , 22, S1293-S1301	3.3	14
22	Status of the joint LIGOTAMA300 inspiral analysis. Classical and Quantum Gravity, 2005, 22, S1109-S111	83.3	4
21	Horizon energy and angular momentum from a Hamiltonian perspective. <i>Classical and Quantum Gravity</i> , 2005 , 22, 4515-4550	3.3	34
20	Limits on gravitational-wave emission from selected pulsars using LIGO data. <i>Physical Review Letters</i> , 2005 , 94, 181103	7.4	109
19	Upper limits on a stochastic background of gravitational waves. <i>Physical Review Letters</i> , 2005 , 95, 22110	0 1 7.4	69

18	Searching for gravitational waves from binary inspirals with LIGO. <i>Classical and Quantum Gravity</i> , 2004 , 21, S1625-S1633	3.3	31
17	Plans for the LIGOIIAMA joint search for gravitational wave bursts. <i>Classical and Quantum Gravity</i> , 2004 , 21, S1801-S1807	3.3	5
16	The first law for slowly evolving horizons. <i>Physical Review Letters</i> , 2004 , 92, 011102	7.4	88
15	Canonical phase space formulation of quasi-local general relativity. <i>Classical and Quantum Gravity</i> , 2003 , 20, 4507-4531	3.3	6
14	Effects of dopamine antagonists on the timing of two intervals. <i>Pharmacology Biochemistry and Behavior</i> , 2003 , 75, 9-15	3.9	91
13	Quantum gravity, shadow states and quantum mechanics. Classical and Quantum Gravity, 2003, 20, 103	1-31 9 61	179
12	Scalar Timing in Animals and Humans. <i>Learning and Motivation</i> , 2002 , 33, 156-176	1.3	59
11	DISTORTED BLACK HOLES WITH CHARGE. International Journal of Modern Physics D, 2001 , 10, 691-709	2.2	41
10	Mechanics of isolated horizons. Classical and Quantum Gravity, 2000, 17, 253-298	3.3	165
9	Isolated horizons: Hamiltonian evolution and the first law. <i>Physical Review D</i> , 2000 , 62,	4.9	223
8	Phase advance after one or three simulated dawns in humans. <i>Chronobiology International</i> , 2000 , 17, 659-68	3.6	26
7	Generic isolated horizons and their applications. <i>Physical Review Letters</i> , 2000 , 85, 3564-7	7.4	186
6	Isolated horizons: a generalization of black hole mechanics. Classical and Quantum Gravity, 1999, 16, L1-	-L <i>3</i> 7.3	157
5	Timing processes in the reinforcement-omission effect. <i>Learning and Behavior</i> , 1995 , 23, 286-296		14
4	Ratio versus difference comparators in choice. <i>Journal of the Experimental Analysis of Behavior</i> , 1994 , 62, 409-34	2.1	20
3	Dawn and dusk simulation as a therapeutic intervention. <i>Biological Psychiatry</i> , 1989 , 25, 966-70	7.9	73
2	Scalar expectancy theory and choice between delayed rewards. <i>Psychological Review</i> , 1988 , 95, 102-14	6.3	165
1	Timing the second response in two-response avoidance. <i>Journal of the Experimental Analysis of Behavior</i> , 1983 , 39, 199-211	2.1	2