

Sascha Husa

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2607579/sascha-husa-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

220
papers

44,202
citations

81
h-index

210
g-index

231
ext. papers

52,964
ext. citations

5.6
avg, IF

6.27
L-index

#	Paper	IF	Citations
220	Observation of Gravitational Waves from a Binary Black Hole Merger. <i>Physical Review Letters</i> , 2016 , 116, 061102	7.4	6108
219	GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. <i>Physical Review Letters</i> , 2017 , 119, 161101	7.4	4272
218	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
217	Multi-messenger Observations of a Binary Neutron Star Merger. <i>Astrophysical Journal Letters</i> , 2017 , 848, L12	7.9	1935
216	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
215	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
214	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
213	Advanced LIGO. <i>Classical and Quantum Gravity</i> , 2015 , 32, 074001	3.3	1098
212	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
211	GW170817: Measurements of Neutron Star Radii and Equation of State. <i>Physical Review Letters</i> , 2018 , 121, 161101	7.4	867
210	Tests of General Relativity with GW150914. <i>Physical Review Letters</i> , 2016 , 116, 221101	7.4	837
209	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. <i>Astrophysical Journal Letters</i> , 2017 , 851, L35	7.9	809
208	Characterization of the LIGO detectors during their sixth science run. <i>Classical and Quantum Gravity</i> , 2015 , 32, 115012	3.3	790
207	Binary Black Hole Mergers in the First Advanced LIGO Observing Run. <i>Physical Review X</i> , 2016 , 6,	9.1	723
206	The Einstein Telescope: a third-generation gravitational wave observatory. <i>Classical and Quantum Gravity</i> , 2010 , 27, 194002	3.3	675
205	A gravitational wave observatory operating beyond the quantum shot-noise limit. <i>Nature Physics</i> , 2011 , 7, 962-965	16.2	554
204	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

203	Properties of the Binary Black Hole Merger GW150914. <i>Physical Review Letters</i> , 2016 , 116, 241102	7.4	515
202	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 818, L22	7.9	512
201	Frequency-domain gravitational waves from nonprecessing black-hole binaries. II. A phenomenological model for the advanced detector era. <i>Physical Review D</i> , 2016 , 93,	4.9	470
200	Exploring the sensitivity of next generation gravitational wave detectors. <i>Classical and Quantum Gravity</i> , 2017 , 34, 044001	3.3	454
199	Properties of the Binary Neutron Star Merger GW170817. <i>Physical Review X</i> , 2019 , 9,	9.1	423
198	A gravitational-wave standard siren measurement of the Hubble constant. <i>Nature</i> , 2017 , 551, 85-88	50.4	413
197	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
196	Sensitivity studies for third-generation gravitational wave observatories. <i>Classical and Quantum Gravity</i> , 2011 , 28, 094013	3.3	382
195	Simple model of complete precessing black-hole-binary gravitational waveforms. <i>Physical Review Letters</i> , 2014 , 113, 151101	7.4	357
194	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , 2016 , 116, 131103	7.4	328
193	Frequency-domain gravitational waves from nonprecessing black-hole binaries. I. New numerical waveforms and anatomy of the signal. <i>Physical Review D</i> , 2016 , 93,	4.9	319
192	Inspiral-merger-ringdown waveforms for black-hole binaries with nonprecessing spins. <i>Physical Review Letters</i> , 2011 , 106, 241101	7.4	310
191	Maximum kick from nonspinning black-hole binary inspiral. <i>Physical Review Letters</i> , 2007 , 98, 091101	7.4	310
190	Matching post-Newtonian and numerical relativity waveforms: Systematic errors and a new phenomenological model for nonprecessing black hole binaries. <i>Physical Review D</i> , 2010 , 82,	4.9	274
189	Template bank for gravitational waveforms from coalescing binary black holes: Nonspinning binaries. <i>Physical Review D</i> , 2008 , 77,	4.9	262
188	Scientific objectives of Einstein Telescope. <i>Classical and Quantum Gravity</i> , 2012 , 29, 124013	3.3	256
187	GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. <i>Physical Review D</i> , 2016 , 93,	4.9	253
186	Supermassive recoil velocities for binary black-hole mergers with antialigned spins. <i>Physical Review Letters</i> , 2007 , 98, 231101	7.4	249

185	Black holes, gravitational waves and fundamental physics: a roadmap. <i>Classical and Quantum Gravity</i> , 2019 , 36, 143001	3.3	248
184	Inspiral, merger, and ringdown of unequal mass black hole binaries: A multipolar analysis. <i>Physical Review D</i> , 2007 , 76,	4.9	246
183	Calibration of moving puncture simulations. <i>Physical Review D</i> , 2008 , 77,	4.9	241
182	The third generation of gravitational wave observatories and their science reach. <i>Classical and Quantum Gravity</i> , 2010 , 27, 084007	3.3	214
181	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
180	Tests of General Relativity with GW170817. <i>Physical Review Letters</i> , 2019 , 123, 011102	7.4	204
179	A phenomenological template family for black-hole coalescence waveforms. <i>Classical and Quantum Gravity</i> , 2007 , 24, S689-S699	3.3	194
178	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. <i>Physical Review Letters</i> , 2016 , 116, 131102	7.4	188
177	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 826, L13	7.9	183
176	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
175	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016 , 33,	3.3	155
174	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
173	Final spin from the coalescence of two black holes. <i>Physical Review D</i> , 2008 , 78,	4.9	137
172	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
171	UPPER LIMITS ON THE RATES OF BINARY NEUTRON STAR AND NEUTRON STARBLACK HOLE MERGERS FROM ADVANCED LIGO'S FIRST OBSERVING RUN. <i>Astrophysical Journal Letters</i> , 2016 , 832, L21	7.9	130
170	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 850, L39	7.9	127
169	Where post-Newtonian and numerical-relativity waveforms meet. <i>Physical Review D</i> , 2008 , 77,	4.9	123
168	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

167	GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. <i>Physical Review Letters</i> , 2018 , 120, 091101	7.4	120
166	Geometry and regularity of moving punctures. <i>Physical Review Letters</i> , 2007 , 99, 241102	7.4	112
165	GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. <i>Astrophysical Journal</i> , 2014 , 785, 119	4.7	109
164	Towards models of gravitational waveforms from generic binaries: A simple approximate mapping between precessing and nonprecessing inspiral signals. <i>Physical Review D</i> , 2012 , 86,	4.9	109
163	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
162	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , 2017 , 839, 12	4.7	107
161	Exploring black hole superkicks. <i>Physical Review D</i> , 2008 , 77,	4.9	107
160	Accurate effective-one-body waveforms of inspiralling and coalescing black-hole binaries. <i>Physical Review D</i> , 2008 , 78,	4.9	105
159	Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory. <i>Astrophysical Journal Letters</i> , 2017 , 850, L35	7.9	104
158	Error-analysis and comparison to analytical models of numerical waveforms produced by the NRAR Collaboration. <i>Classical and Quantum Gravity</i> , 2013 , 31, 025012	3.3	104
157	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
156	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	3.3	98
155	All-sky search for gravitational-wave bursts in the second joint LIGO-Virgo run. <i>Physical Review D</i> , 2012 , 85,	4.9	96
154	First Higher-Multipole Model of Gravitational Waves from Spinning and Coalescing Black-Hole Binaries. <i>Physical Review Letters</i> , 2018 , 120, 161102	7.4	95
153	FIRST SEARCH FOR GRAVITATIONAL WAVES FROM THE YOUNGEST KNOWN NEUTRON STAR. <i>Astrophysical Journal</i> , 2010 , 722, 1504-1513	4.7	95
152	Observing gravitational-wave transient GW150914 with minimal assumptions. <i>Physical Review D</i> , 2016 , 93,	4.9	94
151	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
150	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

149	Time-domain effective-one-body gravitational waveforms for coalescing compact binaries with nonprecessing spins, tides, and self-spin effects. <i>Physical Review D</i> , 2018 , 98,	4.9	94
148	Reducing phase error in long numerical binary black hole evolutions with sixth-order finite differencing. <i>Classical and Quantum Gravity</i> , 2008 , 25, 105006	3.3	92
147	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
146	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
145	Improved Analysis of GW150914 Using a Fully Spin-Precessing Waveform Model. <i>Physical Review X</i> , 2016 , 6,	9.1	89
144	Comparison between numerical-relativity and post-Newtonian waveforms from spinning binaries: The orbital hang-up case. <i>Physical Review D</i> , 2008 , 78,	4.9	88
143	Directional limits on persistent gravitational waves using LIGO S5 science data. <i>Physical Review Letters</i> , 2011 , 107, 271102	7.4	85
142	Einstein@Home all-sky search for periodic gravitational waves in LIGO S5 data. <i>Physical Review D</i> , 2013 , 87,	4.9	84
141	Tracking the precession of compact binaries from their gravitational-wave signal. <i>Physical Review D</i> , 2011 , 84,	4.9	84
140	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
139	Reducing eccentricity in black-hole binary evolutions with initial parameters from post-Newtonian inspiral. <i>Physical Review D</i> , 2008 , 77,	4.9	81
138	High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube. <i>Physical Review D</i> , 2016 , 93,	4.9	80
137	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
136	Hierarchical data-driven approach to fitting numerical relativity data for nonprecessing binary black holes with an application to final spin and radiated energy. <i>Physical Review D</i> , 2017 , 95,	4.9	78
135	Kranc: a Mathematica package to generate numerical codes for tensorial evolution equations. <i>Computer Physics Communications</i> , 2006 , 174, 983-1004	4.2	78
134	Towards standard testbeds for numerical relativity. <i>Classical and Quantum Gravity</i> , 2004 , 21, 589-613	3.3	78
133	Search for gravitational waves from binary black hole inspiral, merger, and ringdown. <i>Physical Review D</i> , 2011 , 83,	4.9	77
132	Directly comparing GW150914 with numerical solutions of Einstein's equations for binary black hole coalescence. <i>Physical Review D</i> , 2016 , 94,	4.9	76

131	BEATING THE SPIN-DOWN LIMIT ON GRAVITATIONAL WAVE EMISSION FROM THE VELA PULSAR. <i>Astrophysical Journal</i> , 2011 , 737, 93	4.7	75
130	Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , 2017 , 34, 104002	3.3	74
129	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
128	Black-hole hair loss: Learning about binary progenitors from ringdown signals. <i>Physical Review D</i> , 2012 , 85,	4.9	74
127	Wormholes and trumpets: Schwarzschild spacetime for the moving-puncture generation. <i>Physical Review D</i> , 2008 , 78,	4.9	71
126	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
125	First low-latency LIGO+Virgo search for binary inspirals and their electromagnetic counterparts. <i>Astronomy and Astrophysics</i> , 2012 , 541, A155	5.1	69
124	Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017 , 118, 121102	7.4	65
123	Search for intermediate mass black hole binaries in the first observing run of Advanced LIGO. <i>Physical Review D</i> , 2017 , 96,	4.9	64
122	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
121	Effects of data quality vetoes on a search for compact binary coalescences in Advanced LIGO's first observing run. <i>Classical and Quantum Gravity</i> , 2018 , 35, 065010	3.3	62
120	Samurai project: Verifying the consistency of black-hole-binary waveforms for gravitational-wave detection. <i>Physical Review D</i> , 2009 , 79,	4.9	62
119	All-sky search for periodic gravitational waves in the full S5 LIGO data. <i>Physical Review D</i> , 2012 , 85,	4.9	61
118	Calibration of the Advanced LIGO detectors for the discovery of the binary black-hole merger GW150914. <i>Physical Review D</i> , 2017 , 95,	4.9	60
117	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
116	Constraints on cosmic strings using data from the first Advanced LIGO observing run. <i>Physical Review D</i> , 2018 , 97,	4.9	60
115	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018 , 120, 201102	7.4	60
114	Constraints on cosmic strings from the LIGO-Virgo gravitational-wave detectors. <i>Physical Review Letters</i> , 2014 , 112, 131101	7.4	59

113	The characterization of Virgo data and its impact on gravitational-wave searches. <i>Classical and Quantum Gravity</i> , 2012 , 29, 155002	3-3	59
112	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. <i>Astrophysical Journal</i> , 2015 , 813, 39	4-7	58
111	Gravitational-wave detectability of equal-mass black-hole binaries with aligned spins. <i>Physical Review D</i> , 2009 , 80,	4-9	58
110	Directed search for continuous gravitational waves from the Galactic center. <i>Physical Review D</i> , 2013 , 88,	4-9	57
109	SWIFT FOLLOW-UP OBSERVATIONS OF CANDIDATE GRAVITATIONAL-WAVE TRANSIENT EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2012 , 203, 28	8	57
108	Gravitational-wave observations of binary black holes: Effect of nonquadrupole modes. <i>Physical Review D</i> , 2014 , 90,	4-9	55
107	All-sky search for short gravitational-wave bursts in the first Advanced LIGO run. <i>Physical Review D</i> , 2017 , 95,	4-9	54
106	All-sky search for periodic gravitational waves in the O1 LIGO data. <i>Physical Review D</i> , 2017 , 96,	4-9	54
105	First low-frequency Einstein@Home all-sky search for continuous gravitational waves in Advanced LIGO data. <i>Physical Review D</i> , 2017 , 96,	4-9	54
104	First all-sky search for continuous gravitational waves from unknown sources in binary systems. <i>Physical Review D</i> , 2014 , 90,	4-9	54
103	Simulations of black-hole binaries with unequal masses or nonprecessing spins: Accuracy, physical properties, and comparison with post-Newtonian results. <i>Physical Review D</i> , 2010 , 82,	4-9	54
102	IMPLICATIONS FOR THE ORIGIN OF GRB 051103 FROM LIGO OBSERVATIONS. <i>Astrophysical Journal</i> , 2012 , 755, 2	4-7	53
101	Where do moving punctures go?. <i>Journal of Physics: Conference Series</i> , 2007 , 66, 012047	0-3	53
100	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
99	SUPPLEMENT: THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914(2016, ApJL, 833, L1). <i>Astrophysical Journal, Supplement Series</i> , 2016 , 227, 14	8	52
98	FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2014 , 211, 7	8	51
97	First Search for Nontensorial Gravitational Waves from Known Pulsars. <i>Physical Review Letters</i> , 2018 , 120, 031104	7-4	50
96	On the Progenitor of Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 850, L40	7-9	50

95	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
94	Search for Subsolar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2018 , 121, 231103	7.4	49
93	Search for gravitational waves from Scorpius X-1 in the first Advanced LIGO observing run with a hidden Markov model. <i>Physical Review D</i> , 2017 , 95,	4.9	47
92	SEARCH FOR GRAVITATIONAL WAVE BURSTS FROM SIX MAGNETARS. <i>Astrophysical Journal Letters</i> , 2011 , 734, L35	7.9	47
91	Search for gravitational waves from intermediate mass binary black holes. <i>Physical Review D</i> , 2012 , 85,	4.9	46
90	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017 , 529, 1600209	2.6	45
89	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
88	First targeted search for gravitational-wave bursts from core-collapse supernovae in data of first-generation laser interferometer detectors. <i>Physical Review D</i> , 2016 , 94,	4.9	43
87	Narrow-band search for gravitational waves from known pulsars using the second LIGO observing run. <i>Physical Review D</i> , 2019 , 99,	4.9	43
86	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
85	Beyond the Bowen-York extrinsic curvature for spinning black holes. <i>Classical and Quantum Gravity</i> , 2007 , 24, S15-S24	3.3	42
84	Binary black holes on a budget: simulations using workstations. <i>Classical and Quantum Gravity</i> , 2007 , 24, S43-S58	3.3	41
83	Mode coupling in the nonlinear response of black holes. <i>Physical Review D</i> , 2003 , 68,	4.9	41
82	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
81	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
80	Comparison between numerical relativity and a new class of post-Newtonian gravitational-wave phase evolutions: The nonspinning equal-mass case. <i>Physical Review D</i> , 2008 , 78,	4.9	40
79	First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data. <i>Physical Review D</i> , 2017 , 96,	4.9	39
78	Directed search for gravitational waves from Scorpius X-1 with initial LIGO data. <i>Physical Review D</i> , 2015 , 91,	4.9	38

77	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
76	Multimode frequency-domain model for the gravitational wave signal from nonprecessing black-hole binaries. <i>Physical Review D</i> , 2020 , 102,	4-9	37
75	Full band all-sky search for periodic gravitational waves in the O1 LIGO data. <i>Physical Review D</i> , 2018 , 97,	4-9	37
74	Reliability of complete gravitational waveform models for compact binary coalescences. <i>Physical Review D</i> , 2011 , 84,	4-9	37
73	Bowen-York trumpet data and black-hole simulations. <i>Physical Review D</i> , 2009 , 80,	4-9	37
72	Status of NINJA: the Numerical INjection Analysis project. <i>Classical and Quantum Gravity</i> , 2009 , 26, 114008	3-9	36
71	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
70	Setting the cornerstone for a family of models for gravitational waves from compact binaries: The dominant harmonic for nonprecessing quasicircular black holes. <i>Physical Review D</i> , 2020 , 102,	4-9	35
69	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
68	Computationally efficient models for the dominant and subdominant harmonic modes of precessing binary black holes. <i>Physical Review D</i> , 2021 , 103,	4-9	34
67	Length requirements for numerical-relativity waveforms. <i>Physical Review D</i> , 2010 , 82,	4-9	33
66	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
65	Search for high-energy neutrinos from gravitational wave event GW151226 and candidate LVT151012 with ANTARES and IceCube. <i>Physical Review D</i> , 2017 , 96,	4-9	32
64	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
63	Implementation of standard testbeds for numerical relativity. <i>Classical and Quantum Gravity</i> , 2008 , 25, 125012	3-3	32
62	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
61	Search for long-lived gravitational-wave transients coincident with long gamma-ray bursts. <i>Physical Review D</i> , 2013 , 88,	4-9	30
60	Gravitational perturbations of Schwarzschild spacetime at null infinity and the hyperboloidal initial value problem. <i>Classical and Quantum Gravity</i> , 2009 , 26, 035009	3-3	30

59	First low frequency all-sky search for continuous gravitational wave signals. <i>Physical Review D</i> , 2016 , 93,	4.9	29
58	Testing the validity of the single-spin approximation in inspiral-merger-ringdown waveforms. <i>Physical Review D</i> , 2013 , 88,	4.9	29
57	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
56	Asymmetric merger of black holes. <i>Physical Review D</i> , 1999 , 60,	4.9	29
55	Results of the deepest all-sky survey for continuous gravitational waves on LIGO S6 data running on the Einstein@Home volunteer distributed computing project. <i>Physical Review D</i> , 2016 , 94,	4.9	29
54	Comprehensive all-sky search for periodic gravitational waves in the sixth science run LIGO data. <i>Physical Review D</i> , 2016 , 94,	4.9	28
53	All-sky search for long-duration gravitational wave transients with initial LIGO. <i>Physical Review D</i> , 2016 , 93,	4.9	27
52	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
51	An efficient iterative method to reduce eccentricity in numerical-relativity simulations of compact binary inspiral. <i>Physical Review D</i> , 2012 , 85,	4.9	27
50	Searching for stochastic gravitational waves using data from the two colocated LIGO Hanford detectors. <i>Physical Review D</i> , 2015 , 91,	4.9	26
49	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
48	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
47	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
46	Numerical relativistic model of a massive particle in orbit near a Schwarzschild black hole. <i>Physical Review D</i> , 2003 , 68,	4.9	24
45	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
44	News from critical collapse: Bondi mass, tails, and quasinormal modes. <i>Physical Review D</i> , 2005 , 71,	4.9	23
43	Numerical stability for finite difference approximations of Einstein's equations. <i>Journal of Computational Physics</i> , 2006 , 218, 607-634	4.1	23
42	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

41	Constraining the p-Mode-g-Mode Tidal Instability with GW170817. <i>Physical Review Letters</i> , 2019 , 122, 061104	7.4	22
40	The most powerful astrophysical events: Gravitational-wave peak luminosity of binary black holes as predicted by numerical relativity. <i>Physical Review D</i> , 2017 , 96,	4.9	21
39	Addendum to "The NINJA-2 catalog of hybrid post-Newtonian/numerical-relativity waveforms for non-precessing black-hole binaries" <i>Classical and Quantum Gravity</i> , 2013 , 30, 199401	3.3	21
38	Retarded radiation from colliding black holes in the close limit. <i>Physical Review D</i> , 2002 , 65,	4.9	21
37	Numerical Relativity with the Conformal Field Equations. <i>Lecture Notes in Physics</i> , 2003 , 159-192	0.8	19
36	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
35	Close limit from a null point of view: The advanced solution. <i>Physical Review D</i> , 2001 , 63,	4.9	18
34	All-sky search for long-duration gravitational-wave transients in the second Advanced LIGO observing run. <i>Physical Review D</i> , 2019 , 99,	4.9	17
33	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
32	Gravitational waves from a fissioning white hole. <i>Physical Review D</i> , 2002 , 66,	4.9	17
31	Type II critical collapse of a self-gravitating nonlinear "model. <i>Physical Review D</i> , 2000 , 62,	4.9	16
30	Spherical symmetry as a test case for unconstrained hyperboloidal evolution. <i>Classical and Quantum Gravity</i> , 2015 , 32, 175010	3.3	14
29	First survey of spinning eccentric black hole mergers: Numerical relativity simulations, hybrid waveforms, and parameter estimation. <i>Physical Review D</i> , 2020 , 101,	4.9	14
28	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
27	Search for continuous gravitational waves from neutron stars in globular cluster NGC 6544. <i>Physical Review D</i> , 2017 , 95,	4.9	14
26	Hyperboloidal data and evolution. <i>AIP Conference Proceedings</i> , 2006 ,	0	14
25	Complete null data for a black hole collision. <i>Physical Review D</i> , 2001 , 64,	4.9	14
24	Initial data for general relativity with toroidal conformal symmetry. <i>Physical Review D</i> , 1994 , 50, R7116-R7118	4.9	14

23	Validity of common modeling approximations for precessing binary black holes with higher-order modes. <i>Physical Review D</i> , 2020 , 101,	4.9	12
22	All-sky search for long-duration gravitational wave transients in the first Advanced LIGO observing run. <i>Classical and Quantum Gravity</i> , 2018 , 35, 065009	3.3	12
21	Stationary hyperboloidal slicings with evolved gauge conditions. <i>Classical and Quantum Gravity</i> , 2009 , 26, 175014	3.3	11
20	Problems and Successes in the Numerical Approach to the Conformal Field Equations. <i>Lecture Notes in Physics</i> , 2002 , 239-259	0.8	11
19	Simple procedures to reduce eccentricity of binary black hole simulations. <i>Physical Review D</i> , 2019 , 99,	4.9	10
18	Search for transient gravitational waves in coincidence with short-duration radio transients during 2007-2013. <i>Physical Review D</i> , 2016 , 93,	4.9	10
17	Impact of eccentricity on the gravitational-wave searches for binary black holes: High mass case. <i>Physical Review D</i> , 2020 , 102,	4.9	10
16	Numerical modeling of black holes as sources of gravitational waves in a nutshell. <i>European Physical Journal: Special Topics</i> , 2007 , 152, 183-207	2.3	9
15	New transition between discrete and continuous self-similarity in critical gravitational collapse. <i>Physical Review D</i> , 2002 , 65,	4.9	9
14	Accelerating the evaluation of inspiral-merger-ringdown waveforms with adapted grids. <i>Classical and Quantum Gravity</i> , 2021 , 38, 015006	3.3	9
13	Finite difference methods for second order in space, first order in time hyperbolic systems and the linear shifted wave equation as a model problem in numerical relativity. <i>Journal of Computational Physics</i> , 2010 , 229, 2675-2696	4.1	7
12	Phenomenological time domain model for dominant quadrupole gravitational wave signal of coalescing binary black holes. <i>Physical Review D</i> , 2021 , 103,	4.9	7
11	A Detailed Analysis of GW190521 with Phenomenological Waveform Models. <i>Astrophysical Journal</i> , 2022 , 924, 79	4.7	6
10	Towards the routine use of subdominant harmonics in gravitational-wave inference: Reanalysis of GW190412 with generation X waveform models. <i>Physical Review D</i> , 2021 , 103,	4.9	6
9	Initial data for general relativity containing a marginally outer trapped torus. <i>Physical Review D</i> , 1996 , 54, 7311-7321	4.9	5
8	Spherical symmetry as a test case for unconstrained hyperboloidal evolution II: gauge conditions. <i>Classical and Quantum Gravity</i> , 2018 , 35, 045014	3.3	5
7	Unconstrained hyperboloidal evolution of black holes in spherical symmetry with GBSSN and Z4c. <i>Journal of Physics: Conference Series</i> , 2015 , 600, 012061	0.3	4
6	Publisher's Note: All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run [Phys. Rev. D 81, 102001 (2010)]. <i>Physical Review D</i> , 2012 , 85,	4.9	3

5	Publisher's Note: Search for gravitational waves associated with the August 2006 timing glitch of the Vela pulsar [Phys. Rev. D 83, 042001 (2011)]. <i>Physical Review D</i> , 2012 , 85,	4-9	2
4	Publisher's Note: Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1 [Phys. Rev. D 82, 102001 (2010)]. <i>Physical Review D</i> , 2012 , 85,	4-9	2
3	Gravitational Wave Signals from Simulations of Black Hole Dynamics 2007 , 3-17		1
2	Toward Conquering the Parameter Space of Gravitational Wave Signals from Black Hole Coalescence 2008 , 19-32		0
1	Numerical Simulations of Compact Binary Systems 2009 , 3-18		