

# K g Arun

## List of Publications by Citations

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166  
papers

38,152  
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47,864  
ext. citations

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L-index

#	Paper	IF	Citations
166	Observation of Gravitational Waves from a Binary Black Hole Merger. <i>Physical Review Letters</i> , <b>2016</b> , 116, 061102	7.4	6108
165	GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. <i>Physical Review Letters</i> , <b>2017</b> , 119, 161101	7.4	4272
164	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. <i>Physical Review Letters</i> , <b>2016</b> , 116, 241103	7.4	2136
163	Multi-messenger Observations of a Binary Neutron Star Merger. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 848, L12	7.9	1935
162	Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 848, L13	7.9	1614
161	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. <i>Physical Review Letters</i> , <b>2017</b> , 118, 221101	7.4	1609
160	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. <i>Physical Review Letters</i> , <b>2017</b> , 119, 141101	7.4	1270
159	GWTC-1: A Gravitational-Wave Transient Catalog of Compact Binary Mergers Observed by LIGO and Virgo during the First and Second Observing Runs. <i>Physical Review X</i> , <b>2019</b> , 9,	9.1	1169
158	Predictions for the rates of compact binary coalescences observable by ground-based gravitational-wave detectors. <i>Classical and Quantum Gravity</i> , <b>2010</b> , 27, 173001	3.3	869
157	GW170817: Measurements of Neutron Star Radii and Equation of State. <i>Physical Review Letters</i> , <b>2018</b> , 121, 161101	7.4	867
156	Tests of General Relativity with GW150914. <i>Physical Review Letters</i> , <b>2016</b> , 116, 221101	7.4	837
155	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 851, L35	7.9	809
154	Binary Black Hole Mergers in the First Advanced LIGO Observing Run. <i>Physical Review X</i> , <b>2016</b> , 6,	9.1	723
153	GW190425: Observation of a Compact Binary Coalescence with Total Mass $\sim 3.4 M_{\odot}$ . <i>Astrophysical Journal Letters</i> , <b>2020</b> , 892, L3	7.9	591
152	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> , <b>2020</b> , 896, L44	7.9	571
151	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , <b>2018</b> , 21, 3	32.5	543
150	Properties of the Binary Black Hole Merger GW150914. <i>Physical Review Letters</i> , <b>2016</b> , 116, 241102	7.4	515

149	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. <i>Astrophysical Journal Letters</i> , <b>2016</b> , 818, L22	7.9	512
148	Exploring the sensitivity of next generation gravitational wave detectors. <i>Classical and Quantum Gravity</i> , <b>2017</b> , 34, 044001	3.3	454
147	Properties of the Binary Neutron Star Merger GW170817. <i>Physical Review X</i> , <b>2019</b> , 9,	9.1	423
146	GW190521: A Binary Black Hole Merger with a Total Mass of $150 M_{\odot}$ . <i>Physical Review Letters</i> , <b>2020</b> , 125, 101102	7.4	420
145	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. <i>Living Reviews in Relativity</i> , <b>2016</b> , 19, 1	32.5	393
144	Binary Black Hole Population Properties Inferred from the First and Second Observing Runs of Advanced LIGO and Advanced Virgo. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 882, L24	7.9	381
143	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , <b>2016</b> , 116, 131103	7.4	328
142	GWTC-2: Compact Binary Coalescences Observed by LIGO and Virgo during the First Half of the Third Observing Run. <i>Physical Review X</i> , <b>2021</b> , 11,	9.1	311
141	An upper limit on the stochastic gravitational-wave background of cosmological origin. <i>Nature</i> , <b>2009</b> , 460, 990-4	50.4	267
140	Tests of general relativity with the binary black hole signals from the LIGO-Virgo catalog GWTC-1. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	258
139	GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	253
138	Higher-order spin effects in the amplitude and phase of gravitational waveforms emitted by inspiraling compact binaries: Ready-to-use gravitational waveforms. <i>Physical Review D</i> , <b>2009</b> , 79,	4.9	216
137	Virgo: a laser interferometer to detect gravitational waves. <i>Journal of Instrumentation</i> , <b>2012</b> , 7, P03012-P03012	12	12
136	GW190412: Observation of a binary-black-hole coalescence with asymmetric masses. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	212
135	THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. <i>Astrophysical Journal Letters</i> , <b>2016</b> , 833, L1	7.9	209
134	Properties and Astrophysical Implications of the $150 M_{\odot}$ Binary Black Hole Merger GW190521. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 900, L13	7.9	207
133	Tests of General Relativity with GW170817. <i>Physical Review Letters</i> , <b>2019</b> , 123, 011102	7.4	204
132	Population Properties of Compact Objects from the Second LIGO-Virgo Gravitational-Wave Transient Catalog. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 913, L7	7.9	194

131	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. <i>Physical Review Letters</i> , <b>2016</b> , 116, 131102	7.4	188
130	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. <i>Astrophysical Journal Letters</i> , <b>2016</b> , 826, L13	7.9	183
129	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , <b>2016</b> , 33,	3.3	155
128	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , <b>2020</b> , 23, 3	32.5	144
127	Observation of Gravitational Waves from Two Neutron StarBlack Hole Coalescences. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 915, L5	7.9	142
126	SEARCHES FOR GRAVITATIONAL WAVES FROM KNOWN PULSARS WITH SCIENCE RUN 5 LIGO DATA. <i>Astrophysical Journal</i> , <b>2010</b> , 713, 671-685	4.7	140
125	Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , <b>2017</b> , 118, 121101	7.4	137
124	Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 851, L16	7.9	133
123	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> , <b>2016</b> , 832, L21	7.9	130
122	Parametrized tests of post-Newtonian theory using Advanced LIGO and Einstein Telescope. <i>Physical Review D</i> , <b>2010</b> , 82,	4.9	130
121	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 850, L39	7.9	127
120	Parameter estimation of inspiralling compact binaries using 3.5 post-Newtonian gravitational wave phasing: The nonspinning case. <i>Physical Review D</i> , <b>2005</b> , 71,	4.9	126
119	GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. <i>Physical Review Letters</i> , <b>2018</b> , 120, 091101	7.4	120
118	Search for the isotropic stochastic background using data from Advanced LIGO's second observing run. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	117
117	Virgo status. <i>Classical and Quantum Gravity</i> , <b>2008</b> , 25, 184001	3.3	110
116	The 2.5PN gravitational wave polarizations from inspiralling compact binaries in circular orbits. <i>Classical and Quantum Gravity</i> , <b>2004</b> , 21, 3771-3801	3.3	109
115	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , <b>2017</b> , 839, 12	4.7	107
114	Post-circular expansion of eccentric binary inspirals: Fourier-domain waveforms in the stationary phase approximation. <i>Physical Review D</i> , <b>2009</b> , 80,	4.9	107

113	Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1. <i>Physical Review D</i> , <b>2010</b> , 82,	4.9	100
112	Observing gravitational-wave transient GW150914 with minimal assumptions. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	94
111	Improved Analysis of GW150914 Using a Fully Spin-Precessing Waveform Model. <i>Physical Review X</i> , <b>2016</b> , 6,	9.1	89
110	Probing the nonlinear structure of general relativity with black hole binaries. <i>Physical Review D</i> , <b>2006</b> , 74,	4.9	86
109	Testing post-Newtonian theory with gravitational wave observations. <i>Classical and Quantum Gravity</i> , <b>2006</b> , 23, L37-L43	3.3	86
108	Directional limits on persistent gravitational waves using LIGO S5 science data. <i>Physical Review Letters</i> , <b>2011</b> , 107, 271102	7.4	85
107	Higher signal harmonics, LISA's angular resolution, and dark energy. <i>Physical Review D</i> , <b>2007</b> , 76,	4.9	85
106	All-sky search for continuous gravitational waves from isolated neutron stars using Advanced LIGO O2 data. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	81
105	All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run. <i>Physical Review D</i> , <b>2010</b> , 81,	4.9	81
104	Tests of general relativity with binary black holes from the second LIGO-Virgo gravitational-wave transient catalog. <i>Physical Review D</i> , <b>2021</b> , 103,	4.9	81
103	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> , <b>2010</b> , 715, 1453-1461	4.7	79
102	Massive black-hole binary inspirals: results from the LISA parameter estimation taskforce. <i>Classical and Quantum Gravity</i> , <b>2009</b> , 26, 094027	3.3	79
101	A guide to LIGO/Virgo detector noise and extraction of transient gravitational-wave signals. <i>Classical and Quantum Gravity</i> , <b>2020</b> , 37, 055002	3.3	78
100	Directly comparing GW150914 with numerical solutions of Einstein's equations for binary black hole coalescence. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	76
99	Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , <b>2017</b> , 34, 104002	3.3	74
98	Testing the Binary Black Hole Nature of a Compact Binary Coalescence. <i>Physical Review Letters</i> , <b>2017</b> , 119, 091101	7.4	73
97	Inspiralling compact binaries in quasi-elliptical orbits: The complete third post-Newtonian energy flux. <i>Physical Review D</i> , <b>2008</b> , 77,	4.9	72
96	Prospects for fundamental physics with LISA. <i>General Relativity and Gravitation</i> , <b>2020</b> , 52, 1	2.3	71

95	Model comparison from LIGO/Virgo data on GW170817's binary components and consequences for the merger remnant. <i>Classical and Quantum Gravity</i> , <b>2020</b> , 37, 045006	3.3	69
94	Third post-Newtonian angular momentum flux and the secular evolution of orbital elements for inspiralling compact binaries in quasi-elliptical orbits. <i>Physical Review D</i> , <b>2009</b> , 80,	4.9	69
93	Search for Substellar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. <i>Physical Review Letters</i> , <b>2019</b> , 123, 161102	7.4	68
92	Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , <b>2017</b> , 118, 121102	7.4	65
91	Ready-to-use post-Newtonian gravitational waveforms for binary black holes with nonprecessing spins: An update. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	65
90	Search for intermediate mass black hole binaries in the first observing run of Advanced LIGO. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	64
89	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> , <b>2018</b> , 35, 065010	3.3	62
88	The 2.5PN gravitational wave polarizations from inspiralling compact binaries in circular orbits. <i>Classical and Quantum Gravity</i> , <b>2005</b> , 22, 3115-3117	3.3	62
87	Calibration of the Advanced LIGO detectors for the discovery of the binary black-hole merger GW150914. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	60
86	Constraints on cosmic strings using data from the first Advanced LIGO observing run. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	60
85	Bounding the mass of the graviton with gravitational waves: effect of higher harmonics in gravitational waveform templates. <i>Classical and Quantum Gravity</i> , <b>2009</b> , 26, 155002	3.3	58
84	Tail effects in the third post-Newtonian gravitational wave energy flux of compact binaries in quasi-elliptical orbits. <i>Physical Review D</i> , <b>2008</b> , 77,	4.9	58
83	All-sky search for short gravitational-wave bursts in the first Advanced LIGO run. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	54
82	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> , <b>2010</b> , 715, 1438-1452	4.7	54
81	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> , <b>2016</b> , 227, 14	8	52
80	First Search for Nontensorial Gravitational Waves from Known Pulsars. <i>Physical Review Letters</i> , <b>2018</b> , 120, 031104	7.4	50
79	On the Progenitor of Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 850, L40	7.9	50
78	Search for Substellar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , <b>2018</b> , 121, 231103	7.4	49

77	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> , <b>2017</b> , 95,	4.9	47
76	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. <i>Astrophysical Journal</i> , <b>2021</b> , 909, 218	4.7	46
75	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , <b>2017</b> , 529, 1600209	2.6	45
74	Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO. <i>Astrophysical Journal</i> , <b>2019</b> , 875, 122	4.7	45
73	First targeted search for gravitational-wave bursts from core-collapse supernovae in data of first-generation laser interferometer detectors. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	43
72	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> , <b>2017</b> , 841, 89	4.7	42
71	Search for intermediate mass black hole binaries in the first and second observing runs of the Advanced LIGO and Virgo network. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	39
70	First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	39
69	SUPPLEMENT: LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914 (2016, ApJL, 826, L13). <i>Astrophysical Journal, Supplement Series</i> , <b>2016</b> , 225, 8	8	38
68	Gravitational-wave phasing for low-eccentricity inspiralling compact binaries to 3PN order. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	38
67	Search for Eccentric Binary Black Hole Mergers with Advanced LIGO and Advanced Virgo during Their First and Second Observing Runs. <i>Astrophysical Journal</i> , <b>2019</b> , 883, 149	4.7	36
66	Upper Limits on Gravitational Waves from Scorpius X-1 from a Model-based Cross-correlation Search in Advanced LIGO Data. <i>Astrophysical Journal</i> , <b>2017</b> , 847, 47	4.7	35
65	Higher harmonics increase LISA's mass reach for supermassive black holes. <i>Physical Review D</i> , <b>2007</b> , 75,	4.9	32
64	Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 902, L21	7.9	32
63	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> , <b>2016</b> , 94,	4.9	29
62	Comprehensive all-sky search for periodic gravitational waves in the sixth science run LIGO data. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	28
61	All-sky search for long-duration gravitational wave transients with initial LIGO. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	27
60	Third post-Newtonian gravitational waveforms for compact binary systems in general orbits: Instantaneous terms. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	24

59	Black holes in the low-mass gap: Implications for gravitational-wave observations. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9	23
58	Search for gravitational waves associated with GRB 050915a using the Virgo detector. <i>Classical and Quantum Gravity</i> , <b>2008</b> , 25, 225001	3.3	23
57	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> , <b>2019</b> , 871, 90	4.7	22
56	Constraining the p-Mode-g-Mode Tidal Instability with GW170817. <i>Physical Review Letters</i> , <b>2019</b> , 122, 061104	7.4	22
55	Generic bounds on dipolar gravitational radiation from inspiralling compact binaries. <i>Classical and Quantum Gravity</i> , <b>2012</b> , 29, 075011	3.3	21
54	LISA as a dark energy probe. <i>Classical and Quantum Gravity</i> , <b>2009</b> , 26, 094021	3.3	20
53	Spin-induced deformations and tests of binary black hole nature using third-generation detectors. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	19
52	TESTS OF GENERAL RELATIVITY AND ALTERNATIVE THEORIES OF GRAVITY USING GRAVITATIONAL WAVE OBSERVATIONS. <i>International Journal of Modern Physics D</i> , <b>2013</b> , 22, 1341012	2.2	19
51	Parameter estimation of coalescing supermassive black hole binaries with LISA. <i>Physical Review D</i> , <b>2006</b> , 74,	4.9	18
50	Synergy of short gamma ray burst and gravitational wave observations: Constraining the inclination angle of the binary and possible implications for off-axis gamma ray bursts. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	17
49	Testing the multipole structure of compact binaries using gravitational wave observations. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	17
48	Gravitational wave burst search in the Virgo C7 data. <i>Classical and Quantum Gravity</i> , <b>2009</b> , 26, 085009	3.3	15
47	All-sky search in early O3 LIGO data for continuous gravitational-wave signals from unknown neutron stars in binary systems. <i>Physical Review D</i> , <b>2021</b> , 103,	4.9	15
46	Constraints on the binary black hole nature of GW151226 and GW170608 from the measurement of spin-induced quadrupole moments. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	14
45	Search for continuous gravitational waves from neutron stars in globular cluster NGC 6544. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	14
44	Projected constraints on the dispersion of gravitational waves using advanced ground- and space-based interferometers. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	13
43	Diving below the Spin-down Limit: Constraints on Gravitational Waves from the Energetic Young Pulsar PSR J0537-6910. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 913, L27	7.9	13
42	All-sky search for long-duration gravitational wave transients in the first Advanced LIGO observing run. <i>Classical and Quantum Gravity</i> , <b>2018</b> , 35, 065009	3.3	12



41	Precessing supermassive black hole binaries and dark energy measurements with LISA. <i>Physical Review D</i> , <b>2009</b> , 80,	4.9	12
40	Publisher's Note: Higher signal harmonics, LISA's angular resolution, and dark energy [Phys. Rev. D 76, 104016 (2007)]. <i>Physical Review D</i> , <b>2007</b> , 76,	4.9	11
39	Multiparameter Tests of General Relativity Using Multiband Gravitational-Wave Observations. <i>Physical Review Letters</i> , <b>2020</b> , 125, 201101	7.4	10
38	Search for transient gravitational waves in coincidence with short-duration radio transients during 2007-2013. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	10
37	Parameter estimation of neutron star-black hole binaries using an advanced gravitational-wave detector network: Effects of the full post-Newtonian waveform. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	9
36	Dark Sirens to Resolve the Hubble's Tension. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 905, L28	7.9	9
35	Exploring short-GRB afterglow parameter space for observations in coincidence with gravitational waves. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 474, 5340-5350	4.3	8
34	Testing the multipole structure and conservative dynamics of compact binaries using gravitational wave observations: The spinning case. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	8
33	In-vacuum Faraday isolation remote tuning. <i>Applied Optics</i> , <b>2010</b> , 49, 4780-90	0.2	8
32	Singular value decomposition in parametrized tests of post-Newtonian theory. <i>Classical and Quantum Gravity</i> , <b>2013</b> , 30, 025011	3.3	7
31	Virgo calibration and reconstruction of the gravitational wave strain during VSR1. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 228, 012015	0.3	7
30	Tests of general relativity using multiband observations of intermediate mass binary black hole mergers. <i>Physical Review D</i> , <b>2021</b> , 103,	4.9	7
29	Rates of short-GRB afterglows in association with binary neutron star mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 475, 699-707	4.3	6
28	Laser with an in-loop relative frequency stability of $1.0 \times 10^{-11}$ on a 100-ms time scale for gravitational-wave detection. <i>Physical Review A</i> , <b>2009</b> , 79,	2.6	6
27	Noise studies during the first Virgo science run and after. <i>Classical and Quantum Gravity</i> , <b>2008</b> , 25, 184003	3.3	6
26	Template-space metric for searches for gravitational waves from the inspiral, merger, and ringdown of binary black holes. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	5
25	Cleaning the Virgo sampled data for the search of periodic sources of gravitational waves. <i>Classical and Quantum Gravity</i> , <b>2009</b> , 26, 204002	3.3	5
24	Comparison of post-Newtonian mode amplitudes with numerical relativity simulations of binary black holes. <i>Classical and Quantum Gravity</i> , <b>2020</b> , 37, 065006	3.3	4

23	2.5PN linear momentum flux from inspiralling compact binaries in quasicircular orbits and associated recoil: Nonspinning case. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	4
22	All-sky search for short gravitational-wave bursts in the third Advanced LIGO and Advanced Virgo run. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	4
21	Search for intermediate-mass black hole binaries in the third observing run of Advanced LIGO and Advanced Virgo. <i>Astronomy and Astrophysics</i> ,	5.1	4
20	Search for Lensing Signatures in the Gravitational-Wave Observations from the First Half of LIGO-Virgo Third Observing Run. <i>Astrophysical Journal</i> , <b>2021</b> , 923, 14	4.7	4
19	Search of the early O3 LIGO data for continuous gravitational waves from the Cassiopeia A and Vela Jr. supernova remnants. <i>Physical Review D</i> , <b>2022</b> , 105,	4.9	4
18	Implications of Binary Black Hole Detections on the Merger Rates of Double Neutron Stars and Neutron Star-Black Holes. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 849, L14	7.9	3
17	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> , <b>2012</b> , 85,	4.9	3
16	Summary of session B3: analytic approximations, perturbation methods and their applications. <i>Classical and Quantum Gravity</i> , <b>2008</b> , 25, 114020	3.3	3
15	Unveiling the spectrum of inspiralling binary black holes. <i>Physical Review D</i> , <b>2021</b> , 103,	4.9	3
14	On the Energetics of a Possible Relativistic Jet Associated with the Binary Neutron Star Merger Candidate S190425z. <i>Astrophysical Journal</i> , <b>2020</b> , 891, 130	4.7	2
13	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> , <b>2012</b> , 85,	4.9	2
12	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA <b>2018</b> , 21, 1		2
11	Imprints of the redshift evolution of double neutron star merger rate on the signal-to-noise ratio distribution. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 496, 523-531	4.3	2
10	Remnant Black Hole Kicks and Implications for Hierarchical Mergers. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 918, L31	7.9	2
9	Constraints on dark photon dark matter using data from LIGO and Virgo third observing run. <i>Physical Review D</i> , <b>2022</b> , 105,	4.9	2
8	Explosive and Radio-Selected Transients: Transient Astronomy with Square Kilometre Array and its Precursors. <i>Journal of Astrophysics and Astronomy</i> , <b>2016</b> , 37, 1	1.4	1
7	Constraining the orbital eccentricity of inspiralling compact binary systems with Advanced LIGO. <i>Physical Review D</i> , <b>2022</b> , 105,	4.9	1
6	All-sky search for long-duration gravitational-wave bursts in the third Advanced LIGO and Advanced Virgo run. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	1

- 5 Detectability of gravitational higher order modes in the third-generation era. *Physical Review D*, **2021**, 104, 4.9 1
- 4 2.5PN Kick from Black-Hole Binaries in Circular Orbit: Nonspinning Case. *Springer Proceedings in Physics*, **2014**, 169-175 0.2 1
- 3
- 2 Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGO-Virgo Run O3b. *Astrophysical Journal*, **2022**, 928, 186 4.7 1
- 1 Gravitational-wave astronomy **2011**, 16, 922-932