

# Eric Chassande-Mottin

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/8985424/eric-chassande-mottin-publications-by-citations.pdf>

**Version:** 2024-04-19

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.

275  
papers

41,370  
citations

76  
h-index

202  
g-index

291  
ext. papers

51,674  
ext. citations

5.5  
avg. IF

4.98  
L-index

#	Paper	IF	Citations
275	Observation of Gravitational Waves from a Binary Black Hole Merger. <i>Physical Review Letters</i> , <b>2016</b> , 116, 061102	7.4	6108
274	GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. <i>Physical Review Letters</i> , <b>2017</b> , 119, 161101	7.4	4272
273	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
272	Multi-messenger Observations of a Binary Neutron Star Merger. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 848, L12	7.9	1935
271	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
270	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
269	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
268	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
267	GW170817: Measurements of Neutron Star Radii and Equation of State. <i>Physical Review Letters</i> , <b>2018</b> , 121, 161101	7.4	867
266	Tests of General Relativity with GW150914. <i>Physical Review Letters</i> , <b>2016</b> , 116, 221101	7.4	837
265	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 851, L35	7.9	809
264	Characterization of the LIGO detectors during their sixth science run. <i>Classical and Quantum Gravity</i> , <b>2015</b> , 32, 115012	3.3	790
263	Binary Black Hole Mergers in the First Advanced LIGO Observing Run. <i>Physical Review X</i> , <b>2016</b> , 6,	9.1	723
262	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
261	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
260	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
259	Properties of the Binary Black Hole Merger GW150914. <i>Physical Review Letters</i> , <b>2016</b> , 116, 241102	7.4	515

258	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. <i>Astrophysical Journal Letters</i> , <b>2016</b> , 818, L22	7.9	512
257	Spectroscopic identification of r-process nucleosynthesis in a double neutron-star merger. <i>Nature</i> , <b>2017</b> , 551, 67-70	50.4	444
256	Properties of the Binary Neutron Star Merger GW170817. <i>Physical Review X</i> , <b>2019</b> , 9,	9.1	423
255	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
254	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
253	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
252	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , <b>2016</b> , 116, 131103	7.4	328
251	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
250	An upper limit on the stochastic gravitational-wave background of cosmological origin. <i>Nature</i> , <b>2009</b> , 460, 990-4	50.4	267
249	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
248	Scientific objectives of Einstein Telescope. <i>Classical and Quantum Gravity</i> , <b>2012</b> , 29, 124013	3.3	256
247	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
246	Virgo: a laser interferometer to detect gravitational waves. <i>Journal of Instrumentation</i> , <b>2012</b> , 7, P03012-P03012	12	12
245	GW190412: Observation of a binary-black-hole coalescence with asymmetric masses. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	212
244	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
243	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
242	Tests of General Relativity with GW170817. <i>Physical Review Letters</i> , <b>2019</b> , 123, 011102	7.4	204
241	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

240	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
239	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. <i>Astrophysical Journal Letters</i> , <b>2016</b> , 826, L13	7.9	183
238	Compact radio emission indicates a structured jet was produced by a binary neutron star merger. <i>Science</i> , <b>2019</b> , 363, 968-971	33.3	176
237	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> , <b>2012</b> , 85,	4.9	172
236	The Virgo status. <i>Classical and Quantum Gravity</i> , <b>2006</b> , 23, S635-S642	3.3	166
235	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
234	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
233	Observation of Gravitational Waves from Two Neutron Star-Black Hole Coalescences. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 915, L5	7.9	142
232	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
231	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
230	Increasing the Astrophysical Reach of the Advanced Virgo Detector via the Application of Squeezed Vacuum States of Light. <i>Physical Review Letters</i> , <b>2019</b> , 123, 231108	7.4	134
229	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
228	UPPER LIMITS ON THE RATES OF BINARY NEUTRON STAR AND NEUTRON STAR-BLACK HOLE MERGERS FROM ADVANCED LIGO'S FIRST OBSERVING RUN. <i>Astrophysical Journal Letters</i> , <b>2016</b> , 832, L21	7.9	130
227	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
226	Parameter estimation for compact binary coalescence signals with the first generation gravitational-wave detector network. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	122
225	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
224	The evolution of the X-ray afterglow emission of GW 170817/ GRB 170817A in XMM-Newton observations. <i>Astronomy and Astrophysics</i> , <b>2018</b> , 613, L1	5.1	120
223	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

222	Status of Virgo. <i>Classical and Quantum Gravity</i> , <b>2008</b> , 25, 114045	3.3	115
221	Virgo status. <i>Classical and Quantum Gravity</i> , <b>2008</b> , 25, 184001	3.3	110
220	GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. <i>Astrophysical Journal</i> , <b>2014</b> , 785, 119	4.7	109
219	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , <b>2017</b> , 839, 12	4.7	107
218	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
217	All-sky search for gravitational-wave bursts in the second joint LIGO-Virgo run. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	96
216	Observing gravitational-wave transient GW150914 with minimal assumptions. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	94
215	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> , <b>2012</b> , 760, 12	4.7	94
214	Differential reassignment. <i>IEEE Signal Processing Letters</i> , <b>1997</b> , 4, 293-294	3.2	94
213	Search for gravitational waves from binary black hole inspiral, merger, and ringdown in LIGO-Virgo data from 2009-2010. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	91
212	Improved Analysis of GW150914 Using a Fully Spin-Precessing Waveform Model. <i>Physical Review X</i> , <b>2016</b> , 6,	9.1	89
211	Status of VIRGO. <i>Classical and Quantum Gravity</i> , <b>2004</b> , 21, S385-S394	3.3	87
210	Directional limits on persistent gravitational waves using LIGO S5 science data. <i>Physical Review Letters</i> , <b>2011</b> , 107, 271102	7.4	85
209	Einstein@Home all-sky search for periodic gravitational waves in LIGO S5 data. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	84
208	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
207	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
206	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
205	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

204	The status of VIRGO. <i>Classical and Quantum Gravity</i> , <b>2006</b> , 23, S63-S69	3-3	79
203	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
202	A Standard Siren Measurement of the Hubble Constant from GW170817 without the Electromagnetic Counterpart. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 871, L13	7-9	77
201	Search for gravitational waves from binary black hole inspiral, merger, and ringdown. <i>Physical Review D</i> , <b>2011</b> , 83,	4-9	77
200	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
199	BEATING THE SPIN-DOWN LIMIT ON GRAVITATIONAL WAVE EMISSION FROM THE VELA PULSAR. <i>Astrophysical Journal</i> , <b>2011</b> , 737, 93	4-7	75
198	Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , <b>2017</b> , 34, 104002	3-3	74
197	Improved upper limits on the stochastic gravitational-wave background from 2009-2010 LIGO and Virgo data. <i>Physical Review Letters</i> , <b>2014</b> , 113, 231101	7-4	74
196	Implementation and testing of the first prompt search for gravitational wave transients with electromagnetic counterparts. <i>Astronomy and Astrophysics</i> , <b>2012</b> , 539, A124	5-1	71
195	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
194	First low-latency LIGO+Virgo search for binary inspirals and their electromagnetic counterparts. <i>Astronomy and Astrophysics</i> , <b>2012</b> , 541, A155	5-1	69
193	Measurement of the seismic attenuation performance of the VIRGO Superattenuator. <i>Astroparticle Physics</i> , <b>2005</b> , 23, 557-565	2-4	69
192	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
191	On Phase-Magnitude Relationships in the Short-Time Fourier Transform. <i>IEEE Signal Processing Letters</i> , <b>2012</b> , 19, 267-270	3-2	67
190	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
189	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
188	Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015-2017 LIGO Data. <i>Astrophysical Journal</i> , <b>2019</b> , 879, 10	4-7	63
187	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

186	All-sky search for periodic gravitational waves in the full S5 LIGO data. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	61
185	Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal</i> , <b>2019</b> , 875, 160	4.7	60
184	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
183	On the Time-Frequency Detection of Chirps <sup>1</sup> . <i>Applied and Computational Harmonic Analysis</i> , <b>1999</b> , 6, 252-281	3.1	60
182	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , <b>2018</b> , 120, 201102	7.4	60
181	Constraints on cosmic strings from the LIGO-Virgo gravitational-wave detectors. <i>Physical Review Letters</i> , <b>2014</b> , 112, 131101	7.4	59
180	The characterization of Virgo data and its impact on gravitational-wave searches. <i>Classical and Quantum Gravity</i> , <b>2012</b> , 29, 155002	3.3	59
179	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. <i>Astrophysical Journal</i> , <b>2015</b> , 813, 39	4.7	58
178	Directed search for continuous gravitational waves from the Galactic center. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	57
177	SWIFT FOLLOW-UP OBSERVATIONS OF CANDIDATE GRAVITATIONAL-WAVE TRANSIENT EVENTS. <i>Astrophysical Journal, Supplement Series</i> , <b>2012</b> , 203, 28	8	57
176	Bounding the time delay between high-energy neutrinos and gravitational-wave transients from gamma-ray bursts. <i>Astroparticle Physics</i> , <b>2011</b> , 35, 1-7	2.4	55
175	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
174	All-sky search for periodic gravitational waves in the O1 LIGO data. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	54
173	First low-frequency Einstein@Home all-sky search for continuous gravitational waves in Advanced LIGO data. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	54
172	First all-sky search for continuous gravitational waves from unknown sources in binary systems. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	54
171	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
170	Measurements of Superattenuator seismic isolation by Virgo interferometer. <i>Astroparticle Physics</i> , <b>2010</b> , 33, 182-189	2.4	54
169	Status of Virgo. <i>Classical and Quantum Gravity</i> , <b>2005</b> , 22, S869-S880	3.3	52

168	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
167	FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. <i>Astrophysical Journal, Supplement Series</i> , <b>2014</b> , 211, 7	8	51
166	Status of Virgo detector. <i>Classical and Quantum Gravity</i> , <b>2007</b> , 24, S381-S388	3.3	51
165	First Search for Nontensorial Gravitational Waves from Known Pulsars. <i>Physical Review Letters</i> , <b>2018</b> , 120, 031104	7.4	50
164	On the Progenitor of Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 850, L40	7.9	50
163	Low-latency Gravitational-wave Alerts for Multimessenger Astronomy during the Second Advanced LIGO and Virgo Observing Run. <i>Astrophysical Journal</i> , <b>2019</b> , 875, 161	4.7	49
162	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
161	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
160	SEARCH FOR GRAVITATIONAL WAVE BURSTS FROM SIX MAGNETARS. <i>Astrophysical Journal Letters</i> , <b>2011</b> , 734, L35	7.9	47
159	Search for gravitational waves from intermediate mass binary black holes. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	46
158	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
157	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , <b>2017</b> , 529, 1600209	2.6	45
156	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
155	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
154	Narrow-band search for gravitational waves from known pulsars using the second LIGO observing run. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	43
153	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
152	Upper limits on a stochastic gravitational-wave background using LIGO and Virgo interferometers at 600-1000 Hz. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	40
151	Prompt gravity signal induced by the 2011 Tohoku-Oki earthquake. <i>Nature Communications</i> , <b>2016</b> , 7, 13349	17.4	39



150	All-sky search for short gravitational-wave bursts in the second Advanced LIGO and Advanced Virgo run. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	39
149	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
148	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
147	Directed search for gravitational waves from Scorpius X-1 with initial LIGO data. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	38
146	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
145	Colloquium: Multimessenger astronomy with gravitational waves and high-energy neutrinos. <i>Reviews of Modern Physics</i> , <b>2013</b> , 85, 1401-1420	40.5	38
144	Full band all-sky search for periodic gravitational waves in the O1 LIGO data. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	37
143	Transient gravity perturbations induced by earthquake rupture. <i>Geophysical Journal International</i> , <b>2015</b> , 201, 1416-1425	2.6	36
142	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
141	Optically targeted search for gravitational waves emitted by core-collapse supernovae during the first and second observing runs of advanced LIGO and advanced Virgo. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9	36
140	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
139	Calibration of advanced Virgo and reconstruction of the gravitational wave signal $h(t)$ during the observing run O2. <i>Classical and Quantum Gravity</i> , <b>2018</b> , 35, 205004	3.3	35
138	The NINJA-2 project: detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations. <i>Classical and Quantum Gravity</i> , <b>2014</b> , 31, 115004	3.3	34
137	Upper limits on the isotropic gravitational-wave background from Advanced LIGO and Advanced Virgo's third observing run. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	33
136	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> , <b>2014</b> , 89,	4.9	32
135	Narrow-band search of continuous gravitational-wave signals from Crab and Vela pulsars in Virgo VSR4 data. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	32
134	Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 902, L21	7.9	32
133	Directional limits on persistent gravitational waves using data from Advanced LIGO's first two observing runs. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	31

132	Search for gravitational waves from Scorpius X-1 in the second Advanced LIGO observing run with an improved hidden Markov model. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	31
131	Search for gravitational waves associated with $\gamma$ -ray bursts detected by the interplanetary network. <i>Physical Review Letters</i> , <b>2014</b> , 113, 011102	7.4	30
130	Search for long-lived gravitational-wave transients coincident with long gamma-ray bursts. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	30
129	Multimessenger science reach and analysis method for common sources of gravitational waves and high-energy neutrinos. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	30
128	First low frequency all-sky search for continuous gravitational wave signals. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	29
127	The Virgo 3 km interferometer for gravitational wave detection. <i>Journal of Optics</i> , <b>2008</b> , 10, 064009		29
126	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
125	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
124	All-sky search for long-duration gravitational wave transients with initial LIGO. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	27
123	Searching for stochastic gravitational waves using data from the two colocated LIGO Hanford detectors. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	26
122	Search for gravitational wave ringdowns from perturbed intermediate mass black holes in LIGO-Virgo data from 2005–2010. <i>Physical Review D</i> , <b>2014</b> , 89,	4.9	26
121	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> , <b>2014</b> , 89,	4.9	25
120	Where and When: Optimal Scheduling of the Electromagnetic Follow-up of Gravitational-wave Events Based on Counterpart Light-curve Models. <i>Astrophysical Journal</i> , <b>2017</b> , 846, 62	4.7	25
119	Multimessenger astronomy with the Einstein Telescope. <i>General Relativity and Gravitation</i> , <b>2011</b> , 43, 437-464	2.3	25
118	Best chirplet chain: Near-optimal detection of gravitational wave chirps. <i>Physical Review D</i> , <b>2006</b> , 73,	4.9	25
117	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
116	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
115	JOINT SEARCHES BETWEEN GRAVITATIONAL-WAVE INTERFEROMETERS AND HIGH-ENERGY NEUTRINO TELESCOPES: SCIENCE REACH AND ANALYSIS STRATEGIES. <i>International Journal of Modern Physics D</i> , <b>2009</b> , 18, 1655-1659	2.2	22

114	Status and perspectives of the Virgo gravitational wave detector. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 203, 012074	0.3	22
113	Constraining the p-Mode-g-Mode Tidal Instability with GW170817. <i>Physical Review Letters</i> , <b>2019</b> , 122, 061104	7.4	22
112	The VIRGO large mirrors: a challenge for low loss coatings. <i>Classical and Quantum Gravity</i> , <b>2004</b> , 21, S935-S945	3.9	21
111	Constraints on Cosmic Strings Using Data from the Third Advanced LIGO-Virgo Observing Run. <i>Physical Review Letters</i> , <b>2021</b> , 126, 241102	7.4	21
110	Search for Gravitational-wave Signals Associated with Gamma-Ray Bursts during the Second Observing Run of Advanced LIGO and Advanced Virgo. <i>Astrophysical Journal</i> , <b>2019</b> , 886, 75	4.7	21
109	Making reassignment adjustable: The Levenberg-Marquardt approach <b>2012</b> ,		20
108	The Seismic Superattenuators of the Virgo Gravitational Waves Interferometer. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , <b>2011</b> , 30, 63-79	1.5	19
107	The variable finesse locking technique. <i>Classical and Quantum Gravity</i> , <b>2006</b> , 23, S85-S89	3.3	19
106	Discrete time and frequency Wigner-Ville distribution: Moyal's formula and aliasing. <i>IEEE Signal Processing Letters</i> , <b>2005</b> , 12, 508-511	3.2	19
105	Virgo upgrade investigations. <i>Journal of Physics: Conference Series</i> , <b>2006</b> , 32, 223-229	0.3	19
104	Properties of seismic noise at the Virgo site. <i>Classical and Quantum Gravity</i> , <b>2004</b> , 21, S433-S440	3.3	19
103	The Advanced Virgo detector. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 610, 012014	0.3	18
102	Application of a Hough search for continuous gravitational waves on data from the fifth LIGO science run. <i>Classical and Quantum Gravity</i> , <b>2014</b> , 31, 085014	3.3	18
101	The commissioning of the central interferometer of the Virgo gravitational wave detector. <i>Astroparticle Physics</i> , <b>2004</b> , 21, 1-22	2.4	18
100	All-sky search for long-duration gravitational-wave transients in the second Advanced LIGO observing run. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	17
99	Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced LIGO's Second Observing Run. <i>Astrophysical Journal</i> , <b>2019</b> , 874, 163	4.7	17
98	Quantum Backaction on kg-Scale Mirrors: Observation of Radiation Pressure Noise in the Advanced Virgo Detector. <i>Physical Review Letters</i> , <b>2020</b> , 125, 131101	7.4	17
97	Gravitational waves by gamma-ray bursts and the Virgo detector: the case of GRB 050915a. <i>Classical and Quantum Gravity</i> , <b>2007</b> , 24, S671-S679	3.3	16

96	A local control system for the test masses of the Virgo gravitational wave detector. <i>Astroparticle Physics</i> , <b>2004</b> , 20, 617-628	2.4	16
95	Gravitational wave burst search in the Virgo C7 data. <i>Classical and Quantum Gravity</i> , <b>2009</b> , 26, 085009	3.3	15
94	All-sky search for continuous gravitational waves from isolated neutron stars in the early O3 LIGO data. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	15
93	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
92	Search of the Orion spur for continuous gravitational waves using a loosely coherent algorithm on data from LIGO interferometers. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	14
91	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
90	On the Statistics of Spectrogram Reassignment Vectors. <i>Multidimensional Systems and Signal Processing</i> , <b>1998</b> , 9, 355-362	1.8	14
89	Lock acquisition of the Virgo gravitational wave detector. <i>Astroparticle Physics</i> , <b>2008</b> , 30, 29-38	2.4	13
88	The Virgo automatic alignment system. <i>Classical and Quantum Gravity</i> , <b>2006</b> , 23, S91-S101	3.3	13
87	Coincidence analysis between periodic source candidates in C6 and C7 Virgo data. <i>Classical and Quantum Gravity</i> , <b>2007</b> , 24, S491-S499	3.3	13
86	Time-Frequency/Time-Scale Reassignment <b>2003</b> , 233-267		13
85	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
84	First locking of the Virgo central area interferometer with suspension hierarchical control. <i>Astroparticle Physics</i> , <b>2004</b> , 20, 629-640	2.4	12
83	Search for anisotropic gravitational-wave backgrounds using data from Advanced LIGO and Advanced Virgo's first three observing runs. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	12
82	First joint gravitational wave search by the AURIGA-EXPLORER-AUTILUS-Virgo Collaboration. <i>Classical and Quantum Gravity</i> , <b>2008</b> , 25, 205007	3.3	11
81	Search for inspiralling binary events in the Virgo Engineering Run data. <i>Classical and Quantum Gravity</i> , <b>2004</b> , 21, S709-S716	3.3	11
80	Low-loss coatings for the VIRGO large mirrors <b>2004</b> ,		11
79	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

78	Performance of the Virgo interferometer longitudinal control system during the second science run. <i>Astroparticle Physics</i> , <b>2011</b> , 34, 521-527	2.4	10
77	The NoEMi (Noise Frequency Event Miner) framework. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 363, 012037	0.3	10
76	Automatic Alignment for the first science run of the Virgo interferometer. <i>Astroparticle Physics</i> , <b>2010</b> , 33, 131-139	2.4	10
75	In-vacuum optical isolation changes by heating in a Faraday isolator. <i>Applied Optics</i> , <b>2008</b> , 47, 5853-61	0.2	10
74	Improving the timing precision for inspiral signals found by interferometric gravitational wave detectors. <i>Classical and Quantum Gravity</i> , <b>2007</b> , 24, S617-S625	3.3	10
73	Central heating radius of curvature correction (CHRoCC) for use in large scale gravitational wave interferometers. <i>Classical and Quantum Gravity</i> , <b>2013</b> , 30, 055017	3.3	9
72	A Joint Fermi-GBM and LIGO/Virgo Analysis of Compact Binary Mergers from the First and Second Gravitational-wave Observing Runs. <i>Astrophysical Journal</i> , <b>2020</b> , 893, 100	4.7	9
71	NenUFAR: Instrument description and science case <b>2015</b> ,		8
70	Advanced Virgo Status. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1342, 012010	0.3	8
69	Reconstruction of the gravitational wave signal $h(t)$ during the Virgo science runs and independent validation with a photon calibrator. <i>Classical and Quantum Gravity</i> , <b>2014</b> , 31, 165013	3.3	8
68	In-vacuum Faraday isolation remote tuning. <i>Applied Optics</i> , <b>2010</b> , 49, 4780-90	0.2	8
67	Analysis of noise lines in the Virgo C7 data. <i>Classical and Quantum Gravity</i> , <b>2007</b> , 24, S433-S443	3.3	8
66	Status of coalescing binaries search activities in Virgo. <i>Classical and Quantum Gravity</i> , <b>2007</b> , 24, 5767-5775	3.3	8
65	Progenitors of low-mass binary black-hole mergers in the isolated binary evolution scenario. <i>Astronomy and Astrophysics</i> , <b>2021</b> , 649, A114	5.1	8
64	Earthquake Early Warning Using Future Generation Gravity Strainmeters. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2018</b> , 123, 10,889	3.6	8
63	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
62	On the stationary phase approximation of chirp spectra		7
61	The Virgo interferometric gravitational antenna. <i>Optics and Lasers in Engineering</i> , <b>2007</b> , 45, 478-487	4.6	7

60	Data analysis methods for non-Gaussian, nonstationary and nonlinear features and their application to VIRGO. <i>Classical and Quantum Gravity</i> , <b>2003</b> , 20, S915-S924	3.3	7
59	Adaptive filtering techniques for gravitational wave interferometric data: Removing long-term sinusoidal disturbances and oscillatory transients. <i>Physical Review D</i> , <b>2001</b> , 63,	4.9	7
58	Gravitational wave observations, distance measurement uncertainties, and cosmology. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	7
57	The advanced Virgo longitudinal control system for the O2 observing run. <i>Astroparticle Physics</i> , <b>2020</b> , 116, 102386	2.4	7
56	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
55	A state observer for the Virgo inverted pendulum. <i>Review of Scientific Instruments</i> , <b>2011</b> , 82, 094502	1.7	6
54	Joint searches for gravitational waves and high-energy neutrinos. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 243, 012002	0.3	6
53	Noise studies during the first Virgo science run and after. <i>Classical and Quantum Gravity</i> , <b>2008</b> , 25, 184003	3.3	6
52	The status of coalescing binaries search code in Virgo, and the analysis of C5 data. <i>Classical and Quantum Gravity</i> , <b>2006</b> , 23, S187-S196	3.3	6
51	Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGO-Virgo Run O3a. <i>Astrophysical Journal</i> , <b>2021</b> , 915, 86	4.7	6
50	Status of the Advanced Virgo gravitational wave detector. <i>International Journal of Modern Physics A</i> , <b>2017</b> , 32, 1744003	1.2	5
49	Automatic Alignment system during the second science run of the Virgo interferometer. <i>Astroparticle Physics</i> , <b>2011</b> , 34, 327-332	2.4	5
48	The last-stage suspension of the mirrors for the gravitational wave antenna Virgo. <i>Classical and Quantum Gravity</i> , <b>2004</b> , 21, S425-S432	3.3	5
47	Learning approach to the detection of gravitational wave transients. <i>Physical Review D</i> , <b>2003</b> , 67,	4.9	5
46	A simple line detection algorithm applied to Virgo data. <i>Classical and Quantum Gravity</i> , <b>2005</b> , 22, S1189-S1196	3.3	5
45	NAP: a tool for noise data analysis. Application to Virgo engineering runs. <i>Classical and Quantum Gravity</i> , <b>2005</b> , 22, S1041-S1049	3.3	5
44	Testing the detection pipelines for inspirals with Virgo commissioning run C4 data. <i>Classical and Quantum Gravity</i> , <b>2005</b> , 22, S1139-S1148	3.3	5
43	Supervised time-frequency reassignment		5

42	Astrophysical signal consistency test adapted for gravitational-wave transient searches. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	5
41	On the importance of source population models for gravitational-wave cosmology. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	5
40	THE VIRGO INTERFEROMETER FOR GRAVITATIONAL WAVE DETECTION. <i>International Journal of Modern Physics D</i> , <b>2011</b> , 20, 2075-2079	2.2	4
39	Characterization of the Virgo seismic environment. <i>Classical and Quantum Gravity</i> , <b>2012</b> , 29, 025005	3.3	4
38	Performance of a Chirplet-based analysis for gravitational-waves from binary black-hole mergers. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 363, 012031	0.3	4
37	Best network chirplet chain: Near-optimal coherent detection of unmodeled gravitational wave chirps with a network of detectors. <i>Physical Review D</i> , <b>2008</b> , 77,	4.9	4
36	The Real-Time Distributed Control of the Virgo Interferometric Detector of Gravitational Waves. <i>IEEE Transactions on Nuclear Science</i> , <b>2008</b> , 55, 302-310	1.7	4
35	Data quality studies for burst analysis of Virgo data acquired during Weekly Science Runs. <i>Classical and Quantum Gravity</i> , <b>2007</b> , 24, S415-S422	3.3	4
34	Results of the Virgo central interferometer commissioning. <i>Classical and Quantum Gravity</i> , <b>2004</b> , 21, S395-S4024	3.3	4
33	A first study of environmental noise coupling to the Virgo interferometer. <i>Classical and Quantum Gravity</i> , <b>2005</b> , 22, S1069-S1077	3.3	4
32	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
31	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
30	Status of Advanced Virgo. <i>EPJ Web of Conferences</i> , <b>2018</b> , 182, 02003	0.3	4
29	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
28	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
27	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
26	Data Acquisition System of the Virgo Gravitational Waves Interferometric Detector. <i>IEEE Transactions on Nuclear Science</i> , <b>2008</b> , 55, 225-232	1.7	3
25	Length Sensing and Control in the Virgo Gravitational Wave Interferometer. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2006</b> , 55, 1985-1995	5.2	3

24	Testing Virgo burst detection tools on commissioning run data. <i>Classical and Quantum Gravity</i> , <b>2006</b> , 23, S197-S205	3.3	3
23	Environmental noise studies in Virgo. <i>Journal of Physics: Conference Series</i> , <b>2006</b> , 32, 80-88	0.3	3
22	ADAPTIVE FILTERING TECHNIQUES FOR INTERFEROMETRIC DATA PREPARATION: REMOVAL OF LONG-TERM SINUSOIDAL SIGNALS AND OSCILLATORY TRANSIENTS. <i>International Journal of Modern Physics D</i> , <b>2000</b> , 09, 275-279	2.2	3
21	Reassigned scalograms and their fast algorithms <b>1995</b> , 2569, 152		3
20	The potential role of binary neutron star merger afterglows in multimessenger cosmology. <i>Astronomy and Astrophysics</i> , <b>2021</b> , 652, A1	5.1	3
19	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
18	Multimessenger Sources of Gravitational Waves and High-energy Neutrinos: Science Reach and Analysis Method. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 363, 012022	0.3	2
17	Status of VIRGO <b>2004</b> , 5500, 58		2
16	Virgo status and commissioning results. <i>Classical and Quantum Gravity</i> , <b>2005</b> , 22, S185-S191	3.3	2
15	Calibration of advanced Virgo and reconstruction of the detector strain $h(t)$ during the observing run O3. <i>Classical and Quantum Gravity</i> , <b>2022</b> , 39, 045006	3.3	2
14	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA <b>2018</b> , 21, 1		2
13	Non-parametric characterization of gravitational-wave polarizations <b>2018</b> ,		2
12	Driving unmodeled gravitational-wave transient searches using astrophysical information. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	2
11	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
10	Data analysis challenges in transient gravitational-wave astronomy <b>2013</b> ,		1
9	<b>2009</b> ,		1
8	A first test of a sine-Hough method for the detection of pulsars in binary systems using the E4 Virgo engineering run data. <i>Classical and Quantum Gravity</i> , <b>2004</b> , 21, S717-S727	3.3	1
7	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



6

- 5 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
- 4 Tools for noise characterization in Virgo. *Journal of Physics: Conference Series*, **2010**, 243, 012004 0-3
- 3 A cross-correlation method to search for gravitational wave bursts with AURIGA and Virgo. *Classical and Quantum Gravity*, **2008**, 25, 114046 3-3
- 2 Normal/independent noise in VIRGO data. *Classical and Quantum Gravity*, **2006**, 23, S829-S836 3-3
- 1 A parallel in-time analysis system for Virgo.. *Journal of Physics: Conference Series*, **2006**, 32, 35-43 0-3