

# Helios Vocca

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2969676/publications.pdf>

Version: 2024-02-01

281  
papers

53,336  
citations

7551

77  
h-index

1152

229  
g-index

284  
all docs

284  
docs citations

284  
times ranked

18210  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of Gravitational Waves from a Binary Black Hole Merger. Physical Review Letters, 2016, 116, 061102.	2.9	8,753
2	GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. Physical Review Letters, 2017, 119, 161101.	2.9	6,413
3	Multi-messenger Observations of a Binary Neutron Star Merger <sup>*</sup> . Astrophysical Journal Letters, 2017, 848, L12.	3.0	2,805
4	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. Physical Review Letters, 2016, 116, 241103.	2.9	2,701
5	Advanced Virgo: a second-generation interferometric gravitational wave detector. Classical and Quantum Gravity, 2015, 32, 024001.	1.5	2,530
6	Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. Astrophysical Journal Letters, 2017, 848, L13.	3.0	2,314
7	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. Physical Review Letters, 2017, 118, 221101.	2.9	1,987
8	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. Physical Review Letters, 2017, 119, 141101.	2.9	1,600
9	GW170817: Measurements of Neutron Star Radii and Equation of State. Physical Review Letters, 2018, 121, 161101.	2.9	1,473
10	Tests of General Relativity with GW150914. Physical Review Letters, 2016, 116, 221101.	2.9	1,224
11	Characterization of the LIGO detectors during their sixth science run. Classical and Quantum Gravity, 2015, 32, 115012.	1.5	1,029
12	Nonlinear Energy Harvesting. Physical Review Letters, 2009, 102, 080601.	2.9	981
13	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. Astrophysical Journal Letters, 2017, 851, L35.	3.0	968
14	Predictions for the rates of compact binary coalescences observable by ground-based gravitational-wave detectors. Classical and Quantum Gravity, 2010, 27, 173001.	1.5	956
15	Binary Black Hole Mergers in the First Advanced LIGO Observing Run. Physical Review X, 2016, 6, .	2.8	898
16	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2018, 21, 3.	8.2	808
17	A gravitational-wave standard siren measurement of the Hubble constant. Nature, 2017, 551, 85-88.	13.7	674
18	Properties of the Binary Black Hole Merger GW150914. Physical Review Letters, 2016, 116, 241102.	2.9	673

#	ARTICLE	IF	CITATIONS
19	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. <i>Astrophysical Journal Letters</i> , 2016, 818, L22.	3.0	633
20	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , 2016, 116, 131103.	2.9	466
21	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2020, 23, 3.	8.2	447
22	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. <i>Living Reviews in Relativity</i> , 2016, 19, 1.	8.2	427
23	KAGRA: 2.5 generation interferometric gravitational wave detector. <i>Nature Astronomy</i> , 2019, 3, 35-40.	4.2	331
24	Nonlinear oscillators for vibration energy harvesting. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	317
25	GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. <i>Physical Review D</i> , 2016, 93, .	1.6	315
26	Piezoelectric buckled beams for random vibration energy harvesting. <i>Smart Materials and Structures</i> , 2012, 21, 035021.	1.8	307
27	An upper limit on the stochastic gravitational-wave background of cosmological origin. <i>Nature</i> , 2009, 460, 990-994.	13.7	303
28	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. <i>Physical Review Letters</i> , 2016, 116, 131102.	2.9	269
29	Virgo: a laser interferometer to detect gravitational waves. <i>Journal of Instrumentation</i> , 2012, 7, P03012-P03012.	0.5	257
30	THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. <i>Astrophysical Journal Letters</i> , 2016, 833, L1.	3.0	230
31	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016, 33, 134001.	1.5	225
32	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. <i>Astrophysical Journal Letters</i> , 2016, 826, L13.	3.0	210
33	Overview of KAGRA: Detector design and construction history. <i>Progress of Theoretical and Experimental Physics</i> , 2021, 2021, .	1.8	198
34	Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017, 118, 121101.	2.9	194
35	Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017, 851, L16.	3.0	189
36	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, .	1.6	185

#	ARTICLE	IF	CITATIONS
37	The Virgo status. <i>Classical and Quantum Gravity</i> , 2006, 23, S635-S642.	1.5	179
38	Status of the Virgo project. <i>Classical and Quantum Gravity</i> , 2011, 28, 114002.	1.5	171
39	GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. <i>Physical Review Letters</i> , 2018, 120, 091101.	2.9	166
40	Kinetic energy harvesting with bistable oscillators. <i>Applied Energy</i> , 2012, 97, 771-776.	5.1	164
41	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L39.	3.0	156
42	SEARCHES FOR GRAVITATIONAL WAVES FROM KNOWN PULSARS WITH SCIENCE RUN 5 LIGO DATA. <i>Astrophysical Journal</i> , 2010, 713, 671-685.	1.6	155
43	Status of Virgo. <i>Classical and Quantum Gravity</i> , 2008, 25, 114045.	1.5	148
44	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> , 2016, 832, L21.	3.0	146
45	A Standard Siren Measurement of the Hubble Constant from GW170817 without the Electromagnetic Counterpart. <i>Astrophysical Journal Letters</i> , 2019, 871, L13.	3.0	145
46	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. <i>Astrophysical Journal</i> , 2021, 909, 218.	1.6	144
47	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.	3.0	135
48	Parameter estimation for compact binary coalescence signals with the first generation gravitational-wave detector network. <i>Physical Review D</i> , 2013, 88, .	1.6	132
49	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , 2017, 839, 12.	1.6	131
50	GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. <i>Astrophysical Journal</i> , 2014, 785, 119.	1.6	125
51	Observing gravitational-wave transient GW150914 with minimal assumptions. <i>Physical Review D</i> , 2016, 93, .	1.6	119
52	Virgo status. <i>Classical and Quantum Gravity</i> , 2008, 25, 184001.	1.5	116
53	Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1. <i>Physical Review D</i> , 2010, 82, .	1.6	111
54	All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run. <i>Physical Review D</i> , 2010, 81, .	1.6	107

#	ARTICLE	IF	CITATIONS
55	All-sky search for gravitational-wave bursts in the second joint LIGO-Virgo run. <i>Physical Review D</i> , 2012, 85, .	1.6	107
56	Improved Analysis of GW150914 Using a Fully Spin-Precessing Waveform Model. <i>Physical Review X</i> , 2016, 6, .	2.8	106
57	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.	1.6	104
58	Directly comparing GW150914 with numerical solutions of Einstein's equations for binary black hole coalescence. <i>Physical Review D</i> , 2016, 94, .	1.6	102
59	Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , 2017, 34, 104002.	1.5	98
60	Directional Limits on Persistent Gravitational Waves Using LIGO S5 Science Data. <i>Physical Review Letters</i> , 2011, 107, 271102.	2.9	94
61	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.	1.5	94
62	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, .	1.6	92
63	High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube. <i>Physical Review D</i> , 2016, 93, .	1.6	92
64	Einstein@Home all-sky search for periodic gravitational waves in LIGO S5 data. <i>Physical Review D</i> , 2013, 87, .	1.6	91
65	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.	1.6	90
66	Status of VIRGO. <i>Classical and Quantum Gravity</i> , 2004, 21, S385-S394.	1.5	89
67	BEATING THE SPIN-DOWN LIMIT ON GRAVITATIONAL WAVE EMISSION FROM THE VELA PULSAR. <i>Astrophysical Journal</i> , 2011, 737, 93.	1.6	89
68	Constraints on cosmic strings using data from the first Advanced LIGO observing run. <i>Physical Review D</i> , 2018, 97, .	1.6	88
69	Improved Upper Limits on the Stochastic Gravitational-Wave Background from 2009–2010 LIGO and Virgo Data. <i>Physical Review Letters</i> , 2014, 113, 231101.	2.9	86
70	The present status of the VIRGO Central Interferometer*. <i>Classical and Quantum Gravity</i> , 2002, 19, 1421-1428.	1.5	85
71	Search for gravitational waves from binary black hole inspiral, merger, and ringdown. <i>Physical Review D</i> , 2011, 83, .	1.6	85
72	Calibration and sensitivity of the Virgo detector during its second science run. <i>Classical and Quantum Gravity</i> , 2011, 28, 025005.	1.5	85

#	ARTICLE	IF	CITATIONS
73	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018, 120, 201102.	2.9	85
74	Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017, 118, 121102.	2.9	84
75	Implementation and testing of the first prompt search for gravitational wave transients with electromagnetic counterparts. <i>Astronomy and Astrophysics</i> , 2012, 539, A124.	2.1	84
76	The status of VIRGO. <i>Classical and Quantum Gravity</i> , 2006, 23, S63-S69.	1.5	83
77	Measurement of the seismic attenuation performance of the VIRGO Superattenuator. <i>Astroparticle Physics</i> , 2005, 23, 557-565.	1.9	79
78	Search for Substellar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2018, 121, 231103.	2.9	77
79	First low-latency LIGO+Virgo search for binary inspirals and their electromagnetic counterparts. <i>Astronomy and Astrophysics</i> , 2012, 541, A155.	2.1	75
80	The characterization of Virgo data and its impact on gravitational-wave searches. <i>Classical and Quantum Gravity</i> , 2012, 29, 155002.	1.5	73
81	Search for intermediate mass black hole binaries in the first observing run of Advanced LIGO. <i>Physical Review D</i> , 2017, 96, .	1.6	73
82	On the Progenitor of Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L40.	3.0	73
83	A real vibration database for kinetic energy harvesting application. <i>Journal of Intelligent Material Systems and Structures</i> , 2012, 23, 2095-2101.	1.4	69
84	All-sky search for short gravitational-wave bursts in the first Advanced LIGO run. <i>Physical Review D</i> , 2017, 95, .	1.6	69
85	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017, 529, 1600209.	0.9	69
86	Constraints on Cosmic Strings from the LIGO-Virgo Gravitational-Wave Detectors. <i>Physical Review Letters</i> , 2014, 112, 131101.	2.9	68
87	First Search for Nontensorial Gravitational Waves from Known Pulsars. <i>Physical Review Letters</i> , 2018, 120, 031104.	2.9	68
88	All-sky search for periodic gravitational waves in the full S5 LIGO data. <i>Physical Review D</i> , 2012, 85, .	1.6	66
89	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. <i>Astrophysical Journal</i> , 2015, 813, 39.	1.6	66
90	Overview of KAGRA: Calibration, detector characterization, physical environmental monitors, and the geophysics interferometer. <i>Progress of Theoretical and Experimental Physics</i> , 2021, 2021, .	1.8	66

#	ARTICLE	IF	CITATIONS
91	Directed search for continuous gravitational waves from the Galactic center. <i>Physical Review D</i> , 2013, 88, .	1.6	65
92	All-sky search for periodic gravitational waves in the O1 LIGO data. <i>Physical Review D</i> , 2017, 96, .	1.6	64
93	SUPPLEMENT: "THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914" (2016, <i>ApJL</i> , 833, L1). <i>Astrophysical Journal, Supplement Series</i> , 2016, 227, 14.	3.0	63
94	Measurements of Superattenuator seismic isolation by Virgo interferometer. <i>Astroparticle Physics</i> , 2010, 33, 182-189.	1.9	62
95	SWIFT FOLLOW-UP OBSERVATIONS OF CANDIDATE GRAVITATIONAL-WAVE TRANSIENT EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2012, 203, 28.	3.0	62
96	SEARCH FOR GRAVITATIONAL-WAVE BURSTS ASSOCIATED WITH GAMMA-RAY BURSTS USING DATA FROM LIGO SCIENCE RUN 5 AND VIRGO SCIENCE RUN 1. <i>Astrophysical Journal</i> , 2010, 715, 1438-1452.	1.6	60
97	First all-sky search for continuous gravitational waves from unknown sources in binary systems. <i>Physical Review D</i> , 2014, 90, .	1.6	60
98	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, .	1.6	60
99	First low-frequency Einstein@Home all-sky search for continuous gravitational waves in Advanced LIGO data. <i>Physical Review D</i> , 2017, 96, .	1.6	60
100	Noise from scattered light in Virgo's second science run data. <i>Classical and Quantum Gravity</i> , 2010, 27, 194011.	1.5	59
101	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, .	1.6	59
102	FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 211, 7.	3.0	57
103	Status of Virgo detector. <i>Classical and Quantum Gravity</i> , 2007, 24, S381-S388.	1.5	56
104	SEARCH FOR GRAVITATIONAL WAVE BURSTS FROM SIX MAGNETARS. <i>Astrophysical Journal Letters</i> , 2011, 734, L35.	3.0	55
105	Status of Virgo. <i>Classical and Quantum Gravity</i> , 2005, 22, S869-S880.	1.5	54
106	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.	1.6	52
107	Search for gravitational waves from intermediate mass binary black holes. <i>Physical Review D</i> , 2012, 85, .	1.6	48
108	Directed search for gravitational waves from Scorpius X-1 with initial LIGO data. <i>Physical Review D</i> , 2015, 91, .	1.6	47

#	ARTICLE	IF	CITATIONS
109	First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data. <i>Physical Review D</i> , 2017, 96, .	1.6	47
110	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.	1.6	46
111	Full band all-sky search for periodic gravitational waves in the O1 LIGO data. <i>Physical Review D</i> , 2018, 97, .	1.6	46
112	Bistable electromagnetic generator based on buckled beams for vibration energy harvesting. <i>Journal of Intelligent Material Systems and Structures</i> , 2014, 25, 1484-1495.	1.4	45
113	First cryogenic test operation of underground km-scale gravitational-wave observatory KAGRA. <i>Classical and Quantum Gravity</i> , 2019, 36, 165008.	1.5	45
114	SUPPLEMENT: "LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914" (2016, <i>ApJL</i> , 826, L13). <i>Astrophysical Journal, Supplement Series</i> , 2016, 225, 8.	3.0	44
115	The benefits of noise and nonlinearity: Extracting energy from random vibrations. <i>Chemical Physics</i> , 2010, 375, 435-438.	0.9	43
116	Upper limits on a stochastic gravitational-wave background using LIGO and Virgo interferometers at 600–1000 Hz. <i>Physical Review D</i> , 2012, 85, .	1.6	43
117	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.	1.5	42
118	Calibration of advanced Virgo and reconstruction of the gravitational wave signal $h(t)$ ( $t$ ) Tj ETQq0 0 0 ggBT /Overlock 10 Tf	1.5	41
119	Search for high-energy neutrinos from gravitational wave event GW151226 and candidate LVT151012 with ANTARES and IceCube. <i>Physical Review D</i> , 2017, 96, .	1.6	40
120	Searching for stochastic gravitational waves using data from the two colocated LIGO Hanford detectors. <i>Physical Review D</i> , 2015, 91, .	1.6	39
121	Narrow-band search of continuous gravitational-wave signals from Crab and Vela pulsars in Virgo VSR4 data. <i>Physical Review D</i> , 2015, 91, .	1.6	37
122	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, .	1.6	35
123	Comprehensive all-sky search for periodic gravitational waves in the sixth science run LIGO data. <i>Physical Review D</i> , 2016, 94, .	1.6	35
124	Monolithic fused silica suspension for the Virgo gravitational waves detector. <i>Review of Scientific Instruments</i> , 2002, 73, 3318-3323.	0.6	34
125	LISA test-mass charging process due to cosmic-ray nuclei and electrons. <i>Classical and Quantum Gravity</i> , 2005, 22, S327-S332.	1.5	34
126	Implementation of an $F$ -statistic all-sky search for continuous gravitational waves in Virgo VSR1 data. <i>Classical and Quantum Gravity</i> , 2014, 31, 165014.	1.5	34



#	ARTICLE	IF	CITATIONS
127	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.	1.9	32
128	Search for Gravitational Waves Associated with $\gamma$ -ray Bursts Detected by the Interplanetary Network. <i>Physical Review Letters</i> , 2014, 113, 011102.	2.9	32
129	First low frequency all-sky search for continuous gravitational wave signals. <i>Physical Review D</i> , 2016, 93, .	1.6	32
130	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.	1.6	32
131	The Virgo 3 km interferometer for gravitational wave detection. <i>Journal of Optics</i> , 2008, 10, 064009.	1.5	31
132	Search for long-lived gravitational-wave transients coincident with long gamma-ray bursts. <i>Physical Review D</i> , 2013, 88, .	1.6	31
133	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, .	1.6	31
134	Overview of KAGRA: KAGRA science. <i>Progress of Theoretical and Experimental Physics</i> , 2021, 2021, .	1.8	31
135	The VIRGO large mirrors: a challenge for low loss coatings. <i>Classical and Quantum Gravity</i> , 2004, 21, S935-S945.	1.5	30
136	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.	1.6	30
137	Status and perspectives of the Virgo gravitational wave detector. <i>Journal of Physics: Conference Series</i> , 2010, 203, 012074.	0.3	29
138	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, .	1.6	29
139	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, .	1.6	29
140	All-sky search for long-duration gravitational wave transients with initial LIGO. <i>Physical Review D</i> , 2016, 93, .	1.6	29
141	Low-frequency internal friction in silica glass. <i>Europhysics Letters</i> , 2007, 80, 50008.	0.7	28
142	Search for gravitational waves associated with GRB 050915a using the Virgo detector. <i>Classical and Quantum Gravity</i> , 2008, 25, 225001.	1.5	28
143	The Seismic Superattenuators of the Virgo Gravitational Waves Interferometer. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2011, 30, 63-79.	1.3	28
144	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, .	1.6	28

#	ARTICLE	IF	CITATIONS
145	The Advanced Virgo detector. <i>Journal of Physics: Conference Series</i> , 2015, 610, 012014.	0.3	27
146	Astrophysically triggered searches for gravitational waves: status and prospects. <i>Classical and Quantum Gravity</i> , 2008, 25, 114051.	1.5	26
147	Properties of seismic noise at the Virgo site. <i>Classical and Quantum Gravity</i> , 2004, 21, S433-S440.	1.5	25
148	Cosmic-ray spectra near the LISA orbit. <i>Classical and Quantum Gravity</i> , 2004, 21, S629-S633.	1.5	23
149	Breaking strength tests on silicon and sapphire bondings for gravitational wave detectors. <i>Classical and Quantum Gravity</i> , 2010, 27, 045010.	1.5	23
150	The commissioning of the central interferometer of the Virgo gravitational wave detector. <i>Astroparticle Physics</i> , 2004, 21, 1-22.	1.9	22
151	A local control system for the test masses of the Virgo gravitational wave detector. <i>Astroparticle Physics</i> , 2004, 20, 617-628.	1.9	22
152	Simulation of the charging process of the LISA test masses due to solar particles. <i>Classical and Quantum Gravity</i> , 2005, 22, S319-S325.	1.5	22
153	The variable finesse locking technique. <i>Classical and Quantum Gravity</i> , 2006, 23, S85-S89.	1.5	22
154	Simulation of the charging process of the LISA test masses due to solar flares. <i>Classical and Quantum Gravity</i> , 2004, 21, S665-S670.	1.5	21
155	Virgo upgrade investigations. <i>Journal of Physics: Conference Series</i> , 2006, 32, 223-229.	0.3	21
156	A comparison between nonlinear cantilever and buckled beam for energy harvesting. <i>European Physical Journal: Special Topics</i> , 2013, 222, 1699-1705.	1.2	21
157	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.	1.5	21
158	First locking of the Virgo central area interferometer with suspension hierarchical control. <i>Astroparticle Physics</i> , 2004, 20, 629-640.	1.9	19
159	Solar And Cosmic Ray Physics And The Space Environment: Studies For And With LISA. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	19
160	Gravitational waves by gamma-ray bursts and the Virgo detector: the case of GRB 050915a. <i>Classical and Quantum Gravity</i> , 2007, 24, S671-S679.	1.5	19
161	Search for continuous gravitational waves from neutron stars in globular cluster NGC 6544. <i>Physical Review D</i> , 2017, 95, .	1.6	19
162	Kinetic Energy Harvesting. , 0, , .		18

#	ARTICLE	IF	CITATIONS
163	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.	1.5	18
164	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, .	1.6	17
165	The Virgo automatic alignment system. <i>Classical and Quantum Gravity</i> , 2006, 23, S91-S101.	1.5	16
166	Lock acquisition of the Virgo gravitational wave detector. <i>Astroparticle Physics</i> , 2008, 30, 29-38.	1.9	16
167	Gravitational wave burst search in the Virgo C7 data. <i>Classical and Quantum Gravity</i> , 2009, 26, 085009.	1.5	16
168	First characterization of silicon crystalline fibers produced with the $\frac{1}{4}$ -pulling technique for future gravitational wave detectors. <i>Review of Scientific Instruments</i> , 2006, 77, 044502.	0.6	15
169	VIRGO: a large interferometer for gravitational wave detection started its first scientific run. <i>Journal of Physics: Conference Series</i> , 2008, 120, 032007.	0.3	15
170	Cryogenic suspension design for a kilometer-scale gravitational-wave detector. <i>Classical and Quantum Gravity</i> , 2021, 38, 085013.	1.5	15
171	Last stage control and mechanical transfer function measurement of the VIRGO suspensions. <i>Review of Scientific Instruments</i> , 2002, 73, 2143-2149.	0.6	14
172	A parallel Beowulf-based system for the detection of gravitational waves in interferometric detectors. <i>Computer Physics Communications</i> , 2003, 153, 179-189.	3.0	14
173	Low-loss coatings for the VIRGO large mirrors. , 2004, , .		14
174	Search for transient gravitational waves in coincidence with short-duration radio transients during 2007â€“2013. <i>Physical Review D</i> , 2016, 93, .	1.6	14
175	The Advanced Virgo monolithic fused silica suspension. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 824, 644-645.	0.7	14
176	Mechanical quality factor of large mirror substrates for gravitational waves detectors. <i>Review of Scientific Instruments</i> , 2002, 73, 179-184.	0.6	13
177	Search for inspiralling binary events in the Virgo Engineering Run data. <i>Classical and Quantum Gravity</i> , 2004, 21, S709-S716.	1.5	13
178	Thermal noise reduction for present and future gravitational wave detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 518, 240-243.	0.7	13
179	Coincidence analysis between periodic source candidates in C6 and C7 Virgo data. <i>Classical and Quantum Gravity</i> , 2007, 24, S491-S499.	1.5	13
180	Measurement of the optical parameters of the Virgo interferometer. <i>Applied Optics</i> , 2007, 46, 3466.	2.1	13

#	ARTICLE	IF	CITATIONS
181	In-vacuum optical isolation changes by heating in a Faraday isolator. Applied Optics, 2008, 47, 5853.	2.1	13
182	First joint gravitational wave search by the AURIGA“EXPLORER”NAUTILUS“Virgo Collaboration. Classical and Quantum Gravity, 2008, 25, 205007.	1.5	13
183	Performance of the Virgo interferometer longitudinal control system during the second science run. Astroparticle Physics, 2011, 34, 521-527.	1.9	13
184	Effect of boundary conditions on piezoelectric buckled beams for vibrational noise harvesting. European Physical Journal: Special Topics, 2015, 224, 2855-2866.	1.2	13
185	Fused silica suspension for the VIRGO optics: status and perspectives. Classical and Quantum Gravity, 2002, 19, 1669-1674.	1.5	12
186	The NoEMi (Noise Frequency Event Miner) framework. Journal of Physics: Conference Series, 2012, 363, 012037.	0.3	12
187	The status of KAGRA underground cryogenic gravitational wave telescope. Journal of Physics: Conference Series, 2020, 1342, 012014.	0.3	12
188	Automatic Alignment for the first science run of the Virgo interferometer. Astroparticle Physics, 2010, 33, 131-139.	1.9	11
189	Nonlinear noise harvesters for nanosensors. Nano Communication Networks, 2011, 2, 230-234.	1.6	11
190	Central heating radius of curvature correction (CHRoCC) for use in large scale gravitational wave interferometers. Classical and Quantum Gravity, 2013, 30, 055017.	1.5	11
191	The Virgo Detector. AIP Conference Proceedings, 2005, , .	0.3	10
192	Improving the timing precision for inspiral signals found by interferometric gravitational wave detectors. Classical and Quantum Gravity, 2007, 24, S617-S625.	1.5	10
193	Cleaning the Virgo sampled data for the search of periodic sources of gravitational waves. Classical and Quantum Gravity, 2009, 26, 204002.	1.5	10
194	Performances of the Virgo interferometer longitudinal control system. Astroparticle Physics, 2010, 33, 75-80.	1.9	10
195	Reconstruction of the gravitational wave signal $h(t)$ during the Virgo science runs and independent validation with a photon calibrator. Classical and Quantum Gravity, 2014, 31, 165013.	1.5	10
196	An arm length stabilization system for KAGRA and future gravitational-wave detectors. Classical and Quantum Gravity, 2020, 37, 035004.	1.5	10
197	Status of VIRGO. Classical and Quantum Gravity, 2003, 20, S609-S616.	1.5	9
198	Analysis of noise lines in the Virgo C7 data. Classical and Quantum Gravity, 2007, 24, S433-S443.	1.5	9

#	ARTICLE	IF	CITATIONS
199	Status of coalescing binaries search activities in Virgo. Classical and Quantum Gravity, 2007, 24, 5767-5775.	1.5	9
200	Electromagnetic Buckled Beam Oscillator for Enhanced Vibration Energy Harvesting. , 2012, , .		9
201	Status of Advanced Virgo. EPJ Web of Conferences, 2018, 182, 02003.	0.1	9
202	Vibration isolation system with a compact damping system for power recycling mirrors of KAGRA. Classical and Quantum Gravity, 2019, 36, 095015.	1.5	9
203	Advanced Virgo Status. Journal of Physics: Conference Series, 2020, 1342, 012010.	0.3	9
204	Mechanical quality factor of mirror substrates for VIRGO. Classical and Quantum Gravity, 2002, 19, 1663-1668.	1.5	8
205	Monocrystalline fibres for low thermal noise suspension in advanced gravitational wave detectors. Classical and Quantum Gravity, 2004, 21, S1009-S1013.	1.5	8
206	Noise studies during the first Virgo science run and after. Classical and Quantum Gravity, 2008, 25, 184003.	1.5	8
207	Laser with an in-loop relative frequency stability of $1.0 \times 10^{-8}$ over a 100-ms time scale for gravitational-wave detection. Physical Review A, 2009, 79, .	1.0	8
208	Noise Harvesting. , 2009, , .		8
209	Virgo calibration and reconstruction of the gravitationnal wave strain during VSR1. Journal of Physics: Conference Series, 2010, 228, 012015.	0.3	8
210	In-vacuum Faraday isolation remote tuning. Applied Optics, 2010, 49, 4780.	2.1	8
211	Vibration Energy Harvesting: Linear and Nonlinear Oscillator Approaches. , 0, , .		8
212	A state observer for the Virgo inverted pendulum. Review of Scientific Instruments, 2011, 82, 094502.	0.6	8
213	Data analysis methods for non-Gaussian, nonstationary and nonlinear features and their application to VIRGO. Classical and Quantum Gravity, 2003, 20, S915-S924.	1.5	7
214	Solar physics with LISA. Classical and Quantum Gravity, 2005, 22, S333-S338.	1.5	7
215	NAP: a tool for noise data analysis. Application to Virgo engineering runs. Classical and Quantum Gravity, 2005, 22, S1041-S1049.	1.5	7
216	The status of coalescing binaries search code in Virgo, and the analysis of C5 data. Classical and Quantum Gravity, 2006, 23, S187-S196.	1.5	7

#	ARTICLE	IF	CITATIONS
217	The Virgo interferometric gravitational antenna. Optics and Lasers in Engineering, 2007, 45, 478-487.	2.0	7
218	The Real-Time Distributed Control of the Virgo Interferometric Detector of Gravitational Waves. IEEE Transactions on Nuclear Science, 2008, 55, 302-310.	1.2	7
219	Application of independent component analysis to the iKAGRA data. Progress of Theoretical and Experimental Physics, 2020, 2020, .	1.8	7
220	Vibration isolation systems for the beam splitter and signal recycling mirrors of the KAGRA gravitational wave detector. Classical and Quantum Gravity, 2021, 38, 065011.	1.5	7
221	A simple line detection algorithm applied to Virgo data. Classical and Quantum Gravity, 2005, 22, S1189-S1196.	1.5	6
222	Low-frequency losses in silica glass at low temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 521-522, 268-271.	2.6	6
223	Automatic Alignment system during the second science run of the Virgo interferometer. Astroparticle Physics, 2011, 34, 327-332.	1.9	6
224	Status of the Advanced Virgo gravitational wave detector. International Journal of Modern Physics A, 2017, 32, 1744003.	0.5	6
225	Results of the Virgo central interferometer commissioning. Classical and Quantum Gravity, 2004, 21, S395-S402.	1.5	5
226	The last-stage suspension of the mirrors for the gravitational wave antenna Virgo. Classical and Quantum Gravity, 2004, 21, S425-S432.	1.5	5
227	Testing the detection pipelines for inspirals with Virgo commissioning run C4 data. Classical and Quantum Gravity, 2005, 22, S1139-S1148.	1.5	5
228	Length Sensing and Control in the Virgo Gravitational Wave Interferometer. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 1985-1995.	2.4	5
229	Measurement of the thermoelastic properties of crystalline Si fibres. Classical and Quantum Gravity, 2006, 23, S277-S285.	1.5	5
230	Data Acquisition System of the Virgo Gravitational Waves Interferometric Detector. IEEE Transactions on Nuclear Science, 2008, 55, 225-232.	1.2	5
231	Nonlinear Kinetic Energy Harvesting. Procedia Computer Science, 2011, 7, 190-191.	1.2	5
232	Characterization of the Virgo seismic environment. Classical and Quantum Gravity, 2012, 29, 025005.	1.5	5
233	Thermal noise limit in the Virgo mirror suspension. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 461, 297-299.	0.7	4
234	A first study of environmental noise coupling to the Virgo interferometer. Classical and Quantum Gravity, 2005, 22, S1069-S1077.	1.5	4

#	ARTICLE	IF	CITATIONS
235	Environmental noise studies in Virgo. Journal of Physics: Conference Series, 2006, 32, 80-88.	0.3	4
236	Data quality studies for burst analysis of Virgo data acquired during Weekly Science Runs. Classical and Quantum Gravity, 2007, 24, S415-S422.	1.5	4
237	Control of the laser frequency of the Virgo gravitational wave interferometer with an in-loop relative frequency stability of $1.0 \text{ Å}^{-1} 10^{-21}$ on a 100 ms time scale. , 2009, , .		4
238	THE VIRGO INTERFEROMETER FOR GRAVITATIONAL WAVE DETECTION. International Journal of Modern Physics D, 2011, 20, 2075-2079.	0.9	4
239	Hybrid autonomous transceivers. , 2012, , .		4
240	The thermal noise limit to the Virgo sensitivity. Classical and Quantum Gravity, 2001, 18, 4127-4131.	1.5	3
241	Status of Virgo. Journal of Physics: Conference Series, 2006, 39, 32-35.	0.3	3
242	Testing Virgo burst detection tools on commissioning run data. Classical and Quantum Gravity, 2006, 23, S197-S205.	1.5	3
243	Publisher's Note: All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run [Phys. Rev. D, 102001 (2010)]. Physical Review D, 2012, 85, .	1.6	3
244	Automated source of squeezed vacuum states driven by finite state machine based software. Review of Scientific Instruments, 2021, 92, 054504.	0.6	3
245	Response of silicon multistrip detectors and a cesium iodide scintillator to a calcium ion beam of 0.5 GeV/u. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 398, 315-323.	0.7	2
246	A computational test facility for distributed analysis of gravitational wave signals. Classical and Quantum Gravity, 2004, 21, S847-S851.	1.5	2
247	Status of VIRGO. , 2004, 5500, 58.		2
248	Virgo and the worldwide search for gravitational waves. AIP Conference Proceedings, 2005, , .	0.3	2
249	Virgo status and commissioning results. Classical and Quantum Gravity, 2005, 22, S185-S191.	1.5	2
250	Investigation on mechanical losses in TiO <sub>2</sub> /SiO <sub>2</sub> dielectric coatings. Journal of Physics: Conference Series, 2006, 32, 413-417.	0.3	2
251	Noise monitor tools and their application to Virgo data. Journal of Physics: Conference Series, 2012, 363, 012024.	0.3	2
252	Publisher's Note: Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1 [Phys. Rev. D, 102001 (2010)]. Physical Review D, 2012, 85, .	1.6	2

#	ARTICLE	IF	CITATIONS
253	Nonlinear vibration energy harvesting at work: An application for the automotive sector. , 2013, , .		2
254	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
255	A THERMAL COMPENSATION SYSTEM FOR THE GRAVITATIONAL WAVE DETECTOR VIRGO. , 2012, , .		2
256	A first test of a sine-Hough method for the detection of pulsars in binary systems using the E4 Virgo engineering run data. Classical and Quantum Gravity, 2004, 21, S717-S727.	1.5	1
257	SEP flux mapping with PHOEBUS. Journal of Physics: Conference Series, 2006, 32, 6-11.	0.3	1
258	Methods of gravitational wave detection in the VIRGO Interferometer. , 2007, , .		1
259	The Real-time Distributed Control of the Virgo Interferometric Detector of Gravitational Waves. , 2007, , .		1
260	Status of the commissioning of the Virgo interferometer. , 2012, , .		1
261	Linear and Non Linear Energy Harvesting From Bridge Vibrations. , 2016, , .		1
262	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. , 2016, 19, 1.		1
263	FIRST COINCIDENCE SEARCH AMONG PERIODIC GRAVITATIONAL WAVE SOURCE CANDIDATES USING VIRGO DATA. , 2008, , .		1
264	Nonlinear vibration harvesting for extended structures monitoring. Bridge Maintenance, Safety and Management, 2012, , 1519-1526.	0.1	1
265	PLANS FOR THE UPGRADE OF THE GRAVITATIONAL WAVE DETECTOR VIRGO: ADVANCED VIRGO. , 2012, , .		1
266	Multi Order Coverage data structure to plan multi-messenger observations. Astronomy and Computing, 2022, 39, 100547.	0.8	1
267	Comparison between computed and measured response of silicon strip detectors exposed to carbon, calcium and ruthenium ion beams. Nuclear Instruments & Methods in Physics Research B, 2003, 211, 107-116.	0.6	0
268	A parallel in-time analysis system for Virgo.. Journal of Physics: Conference Series, 2006, 32, 35-43.	0.3	0
269	Normal/independent noise in VIRGO data. Classical and Quantum Gravity, 2006, 23, S829-S836.	1.5	0
270	A cross-correlation method to search for gravitational wave bursts with AURIGA and Virgo. Classical and Quantum Gravity, 2008, 25, 114046.	1.5	0



#	ARTICLE	IF	CITATIONS
271	Tools for noise characterization in Virgo. Journal of Physics: Conference Series, 2010, 243, 012004.	0.3	0
272	Noise powered nonlinear energy harvesting. , 2011, , .		0
273	PROGRESSES IN THE REALIZATION OF A MONOLITHIC SUSPENSION SYSTEM IN VIRGO. , 2012, , .		0
274	Publisher's Note: Search for gravitational waves from binary black hole inspiral, merger, and ringdown [Phys. Rev. D83, 122005 (2011)]. Physical Review D, 2012, 85, .	1.6	0
275	Nonlinear Bi-Stable Vibration Energy Harvester at Work. , 2014, , .		0
276	STATUS OF THE VIRGO EXPERIMENT. , 2004, , .		0
277	VIRGO DATA ANALYSIS FOR C6 AND C7 ENGINEERING RUNS. , 2008, , .		0
278	VIRGO COMMISSIONING PROGRESS. , 2008, , .		0
279	THE STATUS OF THE VIRGO GRAVITATIONAL WAVE DETECTOR. , 2008, , .		0
280	NOISE ANALYSIS IN VIRGO: ON-LINE AND OFFLINE TOOLS FOR NOISE CHARACTERIZATION. , 2012, , .		0
281	Advanced Virgo Status. , 2017, , .		0