Andreas Freise

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/759379/publications.pdf

Version: 2024-02-01

264 papers	37,347 citations	5574 82 h-index	2828 191 g-index
269 all docs	269 docs citations	269 times ranked	14352 citing authors

#	Article	IF	Citations
1	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, .	6.6	20
2	Metasurface-enhanced spatial mode decomposition. Physical Review A, 2022, 105, .	2.5	1
3	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. Astrophysical Journal, 2021, 909, 218.	4.5	144
4	Two-Carrier Scheme: Evading the 3ÂdB Quantum Penalty of Heterodyne Readout in Gravitational-Wave Detectors. Physical Review Letters, 2021, 126, 221301.	7.8	0
5	An interactive gravitational-wave detector model for museums and fairs. American Journal of Physics, 2021, 89, 702-712.	0.7	1
6	Feasibility study of beam-expanding telescopes in the interferometer arms for the Einstein Telescope. Physical Review D, 2021, 103, .	4.7	4
7	Simplified optical configuration for a sloshing-speedmeter-enhanced gravitational wave detector. Classical and Quantum Gravity, 2020, 37, 025007.	4.0	4
8	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2020, 23, 3.	26.7	447
9	Quantum squeezing schemes for heterodyne readout. Physical Review D, 2020, 101, .	4.7	1
10	Pykat: Python package for modelling precision optical interferometers. SoftwareX, 2020, 12, 100613.	2.6	12
11	Implications of the quantum noise target for the Einstein Telescope infrastructure design. Physical Review D, 2020, 101, .	4.7	9
12	A cryogenic silicon interferometer for gravitational-wave detection. Classical and Quantum Gravity, 2020, 37, 165003.	4.0	120
13	Increased sensitivity of higher-order laser beams to mode mismatches. Optics Letters, 2020, 45, 5876.	3.3	9
14	High dynamic range spatial mode decomposition. Optics Express, 2020, 28, 10253.	3.4	4
15	Converting the signal-recycling cavity into an unstable optomechanical filter to enhance the detection bandwidth of gravitational-wave detectors. Physical Review D, 2019, 99, .	4.7	15
16	Exploring the sensitivity of gravitational wave detectors to neutron star physics. Physical Review D, 2019, 99, .	4.7	78
17	Search for Multimessenger Sources of Gravitational Waves and High-energy Neutrinos with Advanced LIGO during Its First Observing Run, ANTARES, and IceCube. Astrophysical Journal, 2019, 870, 134.	4.5	32
18	Prospects for Detecting Gravitational Waves at 5ÂHz with Ground-Based Detectors. Physical Review Letters, 2018, 120, 141102.	7.8	47

#	Article	IF	Citations
19	Feasibility of near-unstable cavities for future gravitational wave detectors. Physical Review D, 2018, 97, .	4.7	6
20	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2018, 21, 3.	26.7	808
21	A compact, large-range interferometer for precision measurement and inertial sensing. Classical and Quantum Gravity, 2018, 35, 095007.	4.0	31
22	Mitigating Mode-Matching Loss in Nonclassical Laser Interferometry. Physical Review Letters, 2018, 121, 263602.	7.8	14
23	Search for Subsolar-Mass Ultracompact Binaries in Advanced LIGOâ€™s First Observing Run. Physical Review Letters, 2018, 121, 231103.	7.8	77
24	Exploring gravity with the MIGA large scale atom interferometer. Scientific Reports, 2018, 8, 14064.	3.3	153
25	GW170817: Measurements of Neutron Star Radii and Equation of State. Physical Review Letters, 2018, 121, 161101.	7.8	1,473
26	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. Physical Review Letters, 2018, 120, 201102.	7.8	85
27	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
28	Pushing cavities to the edge for future gravitational wave detectors. , 2018, , .		0
29	Exploring the sensitivity of next generation gravitational wave detectors. Classical and Quantum Gravity, 2017, 34, 044001.	4.0	735
30	Effects of waveform model systematics on the interpretation of GW150914. Classical and Quantum Gravity, 2017, 34, 104002.	4.0	98
31	Thermal modelling of Advanced LIGO test masses. Classical and Quantum Gravity, 2017, 34, 115001.	4.0	8
32	Calibration of the Advanced LIGO detectors for the discovery of the binary black-hole merger GW150914. Physical Review D, 2017, 95, .	4.7	72
33	Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGOâ€™s First Observing Run. Physical Review Letters, 2017, 118, 121101.	7.8	194
34	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. Astrophysical Journal, 2017, 839, 12.	4.5	131
35	The basic physics of the binary black hole merger GW150914. Annalen Der Physik, 2017, 529, 1600209.	2.4	69
36	Upper Limits on Gravitational Waves from Scorpius X-1 from a Model-based Cross-correlation Search in Advanced LIGO Data. Astrophysical Journal, 2017, 847, 47.	4.5	46

#	Article	IF	Citations
37	A gravitational-wave standard siren measurement of the Hubble constant. Nature, 2017, 551, 85-88.	27.8	674
38	Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. Astrophysical Journal Letters, 2017, 848, L13.	8.3	2,314
39	Multi-spatial-mode effects in squeezed-light-enhanced interferometric gravitational wave detectors. Physical Review D, 2017, 96, .	4.7	9
40	Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. Astrophysical Journal, 2017, 841, 89.	4.5	52
41	Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. Astrophysical Journal Letters, 2017, 851, L16.	8.3	189
42	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated withÂGW170817. Astrophysical Journal Letters, 2017, 850, L39.	8.3	156
43	Fundamental limitations of cavity-assisted atom interferometry. Physical Review A, 2017, 96, .	2.5	15
44	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. Physical Review Letters, 2017, 118, 221101.	7.8	1,987
45	On the Progenitor of Binary Neutron Star Merger GW170817. Astrophysical Journal Letters, 2017, 850, L40.	8.3	73
46	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. Astrophysical Journal Letters, 2017, 851, L35.	8.3	968
47	The influence of dual-recycling on parametric instabilities at Advanced LIGO. Classical and Quantum Gravity, 2017, 34, 205004.	4.0	11
48	Broadband sensitivity enhancement of detuned dual-recycled Michelson interferometers with EPR entanglement. Physical Review D, 2017, 96, .	4.7	15
49	Fast simulation of Gaussian-mode scattering for precision interferometry. Journal of Optics (United) Tj ETQq1 1 0.784314 rgBT /Overl	2.2	4
50	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. Classical and Quantum Gravity, 2016, 33, 134001.	4.0	225
51	Interferometer techniques for gravitational-wave detection. Living Reviews in Relativity, 2016, 19, 3.	26.7	48
52	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. Living Reviews in Relativity, 2016, 19, 1.	26.7	427
53	THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. Astrophysical Journal Letters, 2016, 833, L1.	8.3	230
54	UPPER LIMITS ON THE RATES OF BINARY NEUTRON STAR AND NEUTRON STARâ€“BLACK HOLE MERGERS FROM ADVANCED LIGOâ€™S FIRST OBSERVING RUN. Astrophysical Journal Letters, 2016, 832, L21.	8.3	146

#	Article	IF	Citations
55	Sensitivity of the Advanced LIGO detectors at the beginning of gravitational wave astronomy. Physical Review D, 2016, 93, .	4.7	286
56	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. Physical Review Letters, 2016, 116, 131102.	7.8	269
57	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. Physical Review Letters, 2016, 116, 131103.	7.8	466
58	SUPPLEMENT: â€œLOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914â€•(2016, ApJL, 826, L13). Astrophysical Journal, Supplement Series, 2016, 225, 8.	7.7	44
59	Tests of General Relativity with GW150914. Physical Review Letters, 2016, 116, 221101.	7.8	1,224
60	Properties of the Binary Black Hole Merger GW150914. Physical Review Letters, 2016, 116, 241102.	7.8	673
61	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. Physical Review Letters, 2016, 116, 241103.	7.8	2,701
62	The UK National Quantum Technologies Hub in sensors and metrology (Keynote Paper). Proceedings of SPIE, 2016, , .	0.8	10
63	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. Astrophysical Journal Letters, 2016, 818, L22.	8.3	633
64	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. , 2016, 19, 1.		1
65	Characterization of the LIGO detectors during their sixth science run. Classical and Quantum Gravity, 2015, 32, 115012.	4.0	1,029
66	Advanced LIGO. Classical and Quantum Gravity, 2015, 32, 074001.	4.0	1,929
67	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. Astrophysical Journal, 2015, 813, 39.	4.5	66
68	FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. Astrophysical Journal, Supplement Series, 2014, 211, 7.	7.7	57
69	Fluorescence detection at the atom shot noise limit for atom interferometry. New Journal of Physics, 2014, 16, 093046.	2.9	31
70	Constraints on Cosmic Strings from the LIGO-Virgo Gravitational-Wave Detectors. Physical Review Letters, 2014, 112, 131101.	7.8	68
71	Improved Upper Limits on the Stochastic Gravitational-Wave Background from 2009â€“2010 LIGO and Virgo Data. Physical Review Letters, 2014, 113, 231101.	7.8	86
72	Sensitivity of intracavity filtering schemes for detecting gravitational waves. Physical Review D, 2014, 89, .	4.7	2

#	Article	IF	Citations
73	Progress and challenges in advanced ground-based gravitational-wave detectors. General Relativity and Gravitation, 2014, 46, 1.	2.0	2
74	Implementation of an $mathcal{F}$-statistic all-sky search for continuous gravitational waves in Virgo VSR1 data. Classical and Quantum Gravity, 2014, 31, 165014.	4.0	34
75	GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. Astrophysical Journal, 2014, 785, 119.	4.5	125
76	The NINJA-2 project: detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations. Classical and Quantum Gravity, 2014, 31, 115004.	4.0	42
77	Education and public outreach on gravitational-wave astronomy. General Relativity and Gravitation, 2014, 46, 1.	2.0	1
78	Concepts and research for future detectors. General Relativity and Gravitation, 2014, 46, 1.	2.0	2
79	Experimental test of higher-order Laguerreâ€“Gauss modes in the 10 m Glasgow prototype interferometer. Classical and Quantum Gravity, 2013, 30, 035004.	4.0	29
80	Search for gravitational waves from binary black hole inspiral, merger, and ringdown in LIGO-Virgo data from 2009â€“2010. Physical Review D, 2013, 87, .	4.7	92
81	Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. Nature Photonics, 2013, 7, 613-619.	31.4	825
82	Interferometer phase noise due to beam misalignment on diffraction gratings. Optics Express, 2013, 21, 29578.	3.4	1
83	Invariance of waveguide grating mirrors to lateral displacement phase shifts. Optics Letters, 2013, 38, 1844.	3.3	6
84	Generation of High-Purity Higher-Order Laguerre-Gauss Beams at High Laser Power. Physical Review Letters, 2013, 110, 251101.	7.8	33
85	Realistic polarizing Sagnac topology with DC readout for the Einstein Telescope. Physical Review D, 2013, 87, .	4.7	15
86	The Generation of Higher-order Laguerre-Gauss Optical Beams for High-precision Interferometry. Journal of Visualized Experiments, 2013, , .	0.3	5
87	A new method for the absolute amplitude calibration of GEOâ€‰600. Classical and Quantum Gravity, 2012, 29, 065001.	4.0	4
88	Sensors and actuators for the Advanced LIGO mirror suspensions. Classical and Quantum Gravity, 2012, 29, 115005.	4.0	65
89	SWIFT FOLLOW-UP OBSERVATIONS OF CANDIDATE GRAVITATIONAL-WAVE TRANSIENT EVENTS. Astrophysical Journal, Supplement Series, 2012, 203, 28.	7.7	62
90	The characterization of Virgo data and its impact on gravitational-wave searches. Classical and Quantum Gravity, 2012, 29, 155002.	4.0	73

#	Article	IF	Citations
91	Publisherâ€™s Note: All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run [Phys. Rev. D81, 102001 (2010)]. Physical Review D, 2012, 85, .	4.7	3
92	Review of the Laguerre-Gauss mode technology research program at Birmingham. Journal of Physics: Conference Series, 2012, 363, 012010.	0.4	1
93	Phase effects in Gaussian beams on diffraction gratings. Journal of Physics: Conference Series, 2012, 363, 012014.	0.4	2
94	First low-latency LIGO+Virgo search for binary inspirals and their electromagnetic counterparts. Astronomy and Astrophysics, 2012, 541, A155.	5.1	75
95	SEARCH FOR GRAVITATIONAL WAVES ASSOCIATED WITH GAMMA-RAY BURSTS DURING LIGO SCIENCE RUN 6 AND VIRGO SCIENCE RUNS 2 AND 3. Astrophysical Journal, 2012, 760, 12.	4.5	104
96	Computer-games for gravitational wave science outreach:Black Hole PongandSpace Time Quest. Journal of Physics: Conference Series, 2012, 363, 012057.	0.4	4
97	IMPLICATIONS FOR THE ORIGIN OF GRB 051103 FROM LIGO OBSERVATIONS. Astrophysical Journal, 2012, 755, 2.	4.5	60
98	All-sky search for gravitational-wave bursts in the second joint LIGO-Virgo run. Physical Review D, 2012, 85, .	4.7	107
99	Search for gravitational waves from intermediate mass binary black holes. Physical Review D, 2012, 85, .	4.7	48
100	Upper limits on a stochastic gravitational-wave background using LIGO and Virgo interferometers at 600â€“1000ÂHz. Physical Review D, 2012, 85, .	4.7	43
101	Search for gravitational waves from low mass compact binary coalescence in LIGOâ€™s sixth science run and Virgoâ€™s science runs 2 and 3. Physical Review D, 2012, 85, .	4.7	185
102	Publisherâ€™s Note: Search for gravitational waves associated with the August 2006 timing glitch of the Vela pulsar [Phys. Rev. D83, 042001 (2011)]. Physical Review D, 2012, 85, .	4.7	2
103	All-sky search for periodic gravitational waves in the full S5 LIGO data. Physical Review D, 2012, 85, .	4.7	66
104	Publisherâ€™s Note: Search for gravitational waves from binary black hole inspiral, merger, and ringdown [Phys. Rev. D83, 122005 (2011)]. Physical Review D, 2012, 85, .	4.7	0
105	Publisherâ€™s Note: Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1 [Phys. Rev. D82, 102001 (2010)]. Physical Review D, 2012, 85, .	4.7	2
106	The effect of mirror surface distortions on higher order Laguerre-Gauss modes. Journal of Physics: Conference Series, 2012, 363, 012005.	0.4	0
107	Virgo: a laser interferometer to detect gravitational waves. Journal of Instrumentation, 2012, 7, P03012-P03012.	1.2	257
108	Scientific objectives of Einstein Telescope. Classical and Quantum Gravity, 2012, 29, 124013.	4.0	355

#	Article	IF	Citations
109	Implementation and testing of the first prompt search forÂgravitational wave transients with electromagnetic counterparts. Astronomy and Astrophysics, 2012, 539, A124.	5.1	84
110	LAGUERREâ€“GAUSS BEAMS FOR FUTURE GRAVITATIONAL WAVE DETECTORS. , 2012, , .		0
111	Search for gravitational waves associated with the August 2006 timing glitch of the Vela pulsar. Physical Review D, 2011, 83, .	4.7	54
112	Higher order Laguerre-Gauss mode degeneracy in realistic, high finesse cavities. Physical Review D, 2011, 84, .	4.7	40
113	Search for gravitational waves from binary black hole inspiral, merger, and ringdown. Physical Review D, 2011, 83, .	4.7	85
114	Carbon fiber reinforced polymer dimensional stability investigations for use on the laser interferometer space antenna mission telescope. Review of Scientific Instruments, 2011, 82, 124501.	1.3	14
115	THE VIRGO INTERFEROMETER FOR GRAVITATIONAL WAVE DETECTION. International Journal of Modern Physics D, 2011, 20, 2075-2079.	2.1	4
116	Translational, rotational, and vibrational coupling into phase in diffractively coupled optical cavities. Optics Letters, 2011, 36, 2746.	3.3	4
117	The Seismic Superattenuators of the Virgo Gravitational Waves Interferometer. Journal of Low Frequency Noise Vibration and Active Control, 2011, 30, 63-79.	2.9	28
118	SEARCH FOR GRAVITATIONAL WAVE BURSTS FROM SIX MAGNETARS. Astrophysical Journal Letters, 2011, 734, L35.	8.3	55
119	BEATING THE SPIN-DOWN LIMIT ON GRAVITATIONAL WAVE EMISSION FROM THE VELA PULSAR. Astrophysical Journal, 2011, 737, 93.	4.5	89
120	Optical detector topology for third-generation gravitational wave observatories. General Relativity and Gravitation, 2011, 43, 537-567.	2.0	6
121	Automatic Alignment system during the second science run of the Virgo interferometer. Astroparticle Physics, 2011, 34, 327-332.	4.3	6
122	Performance of the Virgo interferometer longitudinal control system during the second science run. Astroparticle Physics, 2011, 34, 521-527.	4.3	13
123	Sensitivity studies for third-generation gravitational wave observatories. Classical and Quantum Gravity, 2011, 28, 094013.	4.0	644
124	Calibration and sensitivity of the Virgo detector during its second science run. Classical and Quantum Gravity, 2011, 28, 025005.	4.0	85
125	Publisherâ€™s Note: Search for gravitational waves associated with the August 2006 timing glitch of the Vela pulsar [Phys. Rev. D83, 042001 (2011)]. Physical Review D, 2011, 83, .	4.7	0
126	Directional Limits on Persistent Gravitational Waves Using LIGO S5 Science Data. Physical Review Letters, 2011, 107, 271102.	7.8	94

#	Article	IF	Citations
127	A gravitational wave observatory operating beyond the quantum shot-noise limit. Nature Physics, 2011, 7, 962-965.	16.7	716
128	Control and automatic alignment of the output mode cleaner of GEO 600. Journal of Physics: Conference Series, 2010, 228, 012014.	0.4	5
129	Design of the Advanced Virgo non-degenerate recycling cavities. Journal of Physics: Conference Series, 2010, 228, 012016.	0.4	4
130	Lateral input-optic displacement in a diffractive Fabry-Perot cavity. Journal of Physics: Conference Series, 2010, 228, 012022.	0.4	1
131	Tools for noise characterization in Virgo. Journal of Physics: Conference Series, 2010, 243, 012004.	0.4	0
132	Virgo calibration and reconstruction of the gravitationnal wave strain during VSR1. Journal of Physics: Conference Series, 2010, 228, 012015.	0.4	8
133	The upgrade of GEO 600. Journal of Physics: Conference Series, 2010, 228, 012012.	0.4	79
134	Status and perspectives of the Virgo gravitational wave detector. Journal of Physics: Conference Series, 2010, 203, 012074.	0.4	29
135	Commissioning of the tuned DC readout at GEO 600. Journal of Physics: Conference Series, 2010, 228, 012013.	0.4	5
136	SEARCH FOR GRAVITATIONAL-WAVE BURSTS ASSOCIATED WITH GAMMA-RAY BURSTS USING DATA FROM LIGO SCIENCE RUN 5 AND VIRGO SCIENCE RUN 1. Astrophysical Journal, 2010, 715, 1438-1452.	4.5	60
137	Interferometer Techniques for Gravitational-Wave Detection. Living Reviews in Relativity, 2010, 13, 1.	26.7	63
138	FIRST SEARCH FOR GRAVITATIONAL WAVES FROM THE YOUNGEST KNOWN NEUTRON STAR. Astrophysical Journal, 2010, 722, 1504-1513.	4.5	104
139	Performances of the Virgo interferometer longitudinal control system. Astroparticle Physics, 2010, 33, 75-80.	4.3	10
140	Measurements of Superattenuator seismic isolation by Virgo interferometer. Astroparticle Physics, 2010, 33, 182-189.	4.3	62
141	Calibration of the LIGO gravitational wave detectors in the fifth science run. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 624, 223-240.	1.6	120
142	The third generation of gravitational wave observatories and their science reach. Classical and Quantum Gravity, 2010, 27, 084007.	4.0	287
143	SEARCHES FOR GRAVITATIONAL WAVES FROM KNOWN PULSARS WITH SCIENCE RUN 5 LIGO DATA. Astrophysical Journal, 2010, 713, 671-685.	4.5	155
144	The Einstein Telescope: a third-generation gravitational wave observatory. Classical and Quantum Gravity, 2010, 27, 194002.	4.0	1,211

#	Article	IF	Citations
145	A xylophone configuration for a third-generation gravitational wave detector. Classical and Quantum Gravity, 2010, 27, 015003.	4.0	141
146	Noise from scattered light in Virgo's second science run data. Classical and Quantum Gravity, 2010, 27, 194011.	4.0	59
147	Experimental demonstration of a displacement noise free interferometry scheme for gravitational wave detectors showing displacement noise reduction at low frequencies. Physical Review D, 2010, 81, .	4.7	0
148	Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1. Physical Review D, 2010, 82, .	4.7	111
149	Experimental demonstration of higher-order Laguerre-Gauss mode interferometry. Physical Review D, 2010, 82, .	4.7	35
150	All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run. Physical Review D, 2010, 81, .	4.7	107
151	Predictions for the rates of compact binary coalescences observable by ground-based gravitational-wave detectors. Classical and Quantum Gravity, 2010, 27, 173001.	4.0	956
152	SEARCH FOR GRAVITATIONAL-WAVE INSPIRAL SIGNALS ASSOCIATED WITH SHORT GAMMA-RAY BURSTS DURING LIGO'S FIFTH AND VIRGO'S FIRST SCIENCE RUN. Astrophysical Journal, 2010, 715, 1453-1461.	4.5	90
153	All-Sky LIGO Search for Periodic Gravitational Waves in the Early Fifth-Science-Run Data. Physical Review Letters, 2009, 102, 111102.	7.8	83
154	Control of the laser frequency of the Virgo gravitational wave interferometer with an in-loop relative frequency stability of 1.0 Ã— 10â˜21 on a 100 ms time scale. , 2009, , .		4
155	Cleaning the Virgo sampled data for the search of periodic sources of gravitational waves. Classical and Quantum Gravity, 2009, 26, 204002.	4.0	10
156	DC-readout of a signal-recycled gravitational wave detector. Classical and Quantum Gravity, 2009, 26, 055012.	4.0	64
157	Triple Michelson interferometer for a third-generation gravitational wave detector. Classical and Quantum Gravity, 2009, 26, 085012.	4.0	83
158	Coupling of lateral grating displacement to the output ports of a diffractive Fabryâ€“Perot cavity. Journal of Optics, 2009, 11, 085502.	1.5	9
159	Observation of a kilogram-scale oscillator near its quantum ground state. New Journal of Physics, 2009, 11, 073032.	2.9	123
160	An upper limit on the stochastic gravitational-wave background of cosmological origin. Nature, 2009, 460, 990-994.	27.8	303
161	Einstein@Home search for periodic gravitational waves in LIGO S4 data. Physical Review D, 2009, 79, .	4.7	83
162	Search for gravitational-wave bursts in the first year of the fifth LIGO science run. Physical Review D, 2009, 80, .	4.7	79

#	Article	IF	Citations
163	LIGO: the Laser Interferometer Gravitational-Wave Observatory. Reports on Progress in Physics, 2009, 72, 076901.	20.1	971
164	Prospects of higher-order Laguerre-Gauss modes in future gravitational wave detectors. Physical Review D, 2009, 79, .	4.7	60
165	Einstein@Home search for periodic gravitational waves in early S5 LIGO data. Physical Review D, 2009, 80, .	4.7	78
166	First LIGO search for gravitational wave bursts from cosmic (super)strings. Physical Review D, 2009, 80, .	4.7	45
167	Search for gravitational waves from low mass compact binary coalescence in 186 days of LIGOâ€™s fifth science run. Physical Review D, 2009, 80, .	4.7	105
168	Search for gravitational waves from low mass binary coalescences in the first year of LIGOâ€™s S5 data. Physical Review D, 2009, 79, .	4.7	120
169	Using the etalon effect for in situ balancing of the Advanced Virgo arm cavities. Classical and Quantum Gravity, 2009, 26, 025005.	4.0	17
170	Search for gravitational wave ringdowns from perturbed black holes in LIGO S4 data. Physical Review D, 2009, 80, .	4.7	38
171	Search for high frequency gravitational-wave bursts in the first calendar year of LIGOâ€™s fifth science run. Physical Review D, 2009, 80, .	4.7	32
172	STACKED SEARCH FOR GRAVITATIONAL WAVES FROM THE 2006 SGR 1900+14 STORM. Astrophysical Journal, 2009, 701, L68-L74.	4.5	45
173	Publisherâ€™s Note: Upper limit map of a background of gravitational waves [Phys. Rev. D76, 082003 (2007)]. Physical Review D, 2008, 77, .	4.7	0
174	Publisherâ€™s Note: Upper limits on gravitational wave emission from 78 radio pulsars [Phys. Rev. D76, 042001 (2007)]. Physical Review D, 2008, 77, .	4.7	0
175	Search for gravitational waves associated with 39 gamma-ray bursts using data from the second, third, and fourth LIGO runs. Physical Review D, 2008, 77, .	4.7	60
176	All-sky search for periodic gravitational waves in LIGO S4 data. Physical Review D, 2008, 77, .	4.7	110
177	Search of S3 LIGO data for gravitational wave signals from spinning black hole and neutron star binary inspirals. Physical Review D, 2008, 78, .	4.7	54
178	The Real-Time Distributed Control of the Virgo Interferometric Detector of Gravitational Waves. IEEE Transactions on Nuclear Science, 2008, 55, 302-310.	2.0	7
179	Astrophysically triggered searches for gravitational waves: status and prospects. Classical and Quantum Gravity, 2008, 25, 114051.	4.0	26
180	First joint search for gravitational-wave bursts in LIGO and GEO 600 data. Classical and Quantum Gravity, 2008, 25, 245008.	4.0	22

#	Article	IF	Citations
181	A joint search for gravitational wave bursts with AURIGA and LIGO. Classical and Quantum Gravity, 2008, 25, 095004.	4.0	16
182	Measurement and simulation of laser power noise in GEO 600. Classical and Quantum Gravity, 2008, 25, 035003.	4.0	3
183	Publisherâ€™s Note: All-sky search for periodic gravitational waves in LIGO S4 data [Phys. Rev. D77, 022001 (2008)]. Physical Review D, 2008, 77, .	4.7	0
184	Publisherâ€™s Note: First cross-correlation analysis of interferometric and resonant-bar gravitational-wave data for stochastic backgrounds [Phys. Rev. D76, 022001 (2007)]. Physical Review D, 2008, 77, .	4.7	0
185	Search for gravitational waves from binary inspirals in S3 and S4 LIGO data. Physical Review D, 2008, 77, .	4.7	126
186	Search for Gravitational-Wave Bursts from Soft Gamma Repeaters. Physical Review Letters, 2008, 101, 211102.	7.8	69
187	Implications for the Origin of GRB 070201 from LIGO Observations. Astrophysical Journal, 2008, 681, 1419-1430.	4.5	143
188	Evaluating mirror alignment systems using the optical sensing matrix. Journal of Physics: Conference Series, 2008, 122, 012026.	0.4	3
189	Beating the Spin-Down Limit on Gravitational Wave Emission from the Crab Pulsar. Astrophysical Journal, 2008, 683, L45-L49.	4.5	160
190	Phase and alignment noise in grating interferometers. New Journal of Physics, 2007, 9, 433-433.	2.9	17
191	Search for gravitational-wave bursts in LIGO data from the fourth science run. Classical and Quantum Gravity, 2007, 24, 5343-5369.	4.0	78
192	A novel concept for increasing the peak sensitivity of LIGO by detuning the arm cavities. Classical and Quantum Gravity, 2007, 24, 5453-5460.	4.0	4
193	Quantum-noise power spectrum of fields with discrete classical components. Physical Review A, 2007, 76, .	2.5	4
194	Upper limits on gravitational wave emission from 78 radio pulsars. Physical Review D, 2007, 76, .	4.7	121
195	Publisherâ€™s Note: First cross-correlation analysis of interferometric and resonant-bar gravitational-wave data for stochastic backgrounds [Phys. Rev. DPRVDAQ0556-282176, 022001 (2007)]. Physical Review D, 2007, 76, .	4.7	0
196	First cross-correlation analysis of interferometric and resonant-bar gravitational-wave data for stochastic backgrounds. Physical Review D, 2007, 76, .	4.7	35
197	Searches for periodic gravitational waves from unknown isolated sources and Scorpius X-1: Results from the second LIGO science run. Physical Review D, 2007, 76, .	4.7	128
198	Upper limit map of a background of gravitational waves. Physical Review D, 2007, 76, .	4.7	90

#	Article	IF	Citations
199	Search for gravitational wave radiation associated with the pulsating tail of the SGR<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1806</mml:mn><mml:mo>â^'</mml:mo><mml:mn>20</mml:mn></mml:math>hyperflare of 27 December 2004 using LIGO. Physical Review D, 2007, 76, .	4.7	51
200	The Virgo interferometric gravitational antenna. Optics and Lasers in Engineering, 2007, 45, 478-487.	3.8	7
201	The GEO 600 core optics. Optics Communications, 2007, 280, 492-499.	2.1	15
202	Search for gravitational waves from binary black hole inspirals in LIGO data. Physical Review D, 2006, 73, .	4.7	75
203	Joint LIGO and TAMA300 search for gravitational waves from inspiralling neutron star binaries. Physical Review D, 2006, 73, .	4.7	40
204	Status of Virgo. Journal of Physics: Conference Series, 2006, 39, 32-35.	0.4	3
205	Virgo upgrade investigations. Journal of Physics: Conference Series, 2006, 32, 223-229.	0.4	21
206	A parallel in-time analysis system for Virgo.. Journal of Physics: Conference Series, 2006, 32, 35-43.	0.4	0
207	Environmental noise studies in Virgo. Journal of Physics: Conference Series, 2006, 32, 80-88.	0.4	4
208	Length Sensing and Control in the Virgo Gravitational Wave Interferometer. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 1985-1995.	4.7	5
209	The status of coalescing binaries search code in Virgo, and the analysis of C5 data. Classical and Quantum Gravity, 2006, 23, S187-S196.	4.0	7
210	Normal/independent noise in VIRGO data. Classical and Quantum Gravity, 2006, 23, S829-S836.	4.0	0
211	The GEO-HF project. Classical and Quantum Gravity, 2006, 23, S207-S214.	4.0	133
212	Status of the GEO600 detector. Classical and Quantum Gravity, 2006, 23, S71-S78.	4.0	123
213	The variable finesse locking technique. Classical and Quantum Gravity, 2006, 23, S85-S89.	4.0	22
214	The Virgo automatic alignment system. Classical and Quantum Gravity, 2006, 23, S91-S101.	4.0	16
215	The status of VIRGO. Classical and Quantum Gravity, 2006, 23, S63-S69.	4.0	83
216	Testing Virgo burst detection tools on commissioning run data. Classical and Quantum Gravity, 2006, 23, S197-S205.	4.0	3

#	Article	IF	Citations
217	The Virgo status. Classical and Quantum Gravity, 2006, 23, S635-S642.	4.0	179
218	THE LIGO GRAVITATIONAL WAVE OBSERVATORIES: RECENT RESULTS AND FUTURE PLANS. , 2006, , .		0
219	Measurement of the seismic attenuation performance of the VIRGO Superattenuator. Astroparticle Physics, 2005, 23, 557-565.	4.3	79
220	Virgo and the worldwide search for gravitational waves. AIP Conference Proceedings, 2005, , .	0.4	2
221	The Virgo Detector. AIP Conference Proceedings, 2005, , .	0.4	10
222	A simple line detection algorithm applied to Virgo data. Classical and Quantum Gravity, 2005, 22, S1189-S1196.	4.0	6
223	A first study of environmental noise coupling to the Virgo interferometer. Classical and Quantum Gravity, 2005, 22, S1069-S1077.	4.0	4
224	Virgo status and commissioning results. Classical and Quantum Gravity, 2005, 22, S185-S191.	4.0	2
225	The status of GEO 600. Classical and Quantum Gravity, 2005, 22, S193-S198.	4.0	27
226	Status of Virgo. Classical and Quantum Gravity, 2005, 22, S869-S880.	4.0	54
227	NAP: a tool for noise data analysis. Application to Virgo engineering runs. Classical and Quantum Gravity, 2005, 22, S1041-S1049.	4.0	7
228	Testing the detection pipelines for inspirals with Virgo commissioning run C4 data. Classical and Quantum Gravity, 2005, 22, S1139-S1148.	4.0	5
229	Limits on Gravitational-Wave Emission from Selected Pulsars Using LIGO Data. Physical Review Letters, 2005, 94, 181103.	7.8	130
230	Upper limits on gravitational wave bursts in LIGOâ€™s second science run. Physical Review D, 2005, 72, .	4.7	57
231	Search for gravitational waves from primordial black hole binary coalescences in the galactic halo. Physical Review D, 2005, 72, .	4.7	79
232	Search for gravitational waves associated with the gamma ray burst GRB030329 using the LIGO detectors. Physical Review D, 2005, 72, .	4.7	74
233	Search for gravitational waves from galactic and extra-galactic binary neutron stars. Physical Review D, 2005, 72, .	4.7	109
234	Upper limits from the LIGO and TAMA detectors on the rate of gravitational-wave bursts. Physical Review D, 2005, 72, .	4.7	49

#	Article	IF	Citations
235	First all-sky upper limits from LIGO on the strength of periodic gravitational waves using the Hough transform. Physical Review D, 2005, 72, .	4.7	75
236	Status of GEO 600. Classical and Quantum Gravity, 2004, 21, S417-S423.	4.0	85
237	Towards dual recycling with the aid of time and frequency domain simulations. Classical and Quantum Gravity, 2004, 21, S991-S998.	4.0	3
238	Upper limits on the strength of periodic gravitational waves from PSR J1939+2134. Classical and Quantum Gravity, 2004, 21, S671-S676.	4.0	4
239	Commissioning, characterization and operation of the dual-recycled GEO 600. Classical and Quantum Gravity, 2004, 21, S1737-S1745.	4.0	15
240	Alignment control of GEO 600. Classical and Quantum Gravity, 2004, 21, S441-S449.	4.0	19
241	Dual recycling for GEO 600. Classical and Quantum Gravity, 2004, 21, S473-S480.	4.0	35
242	Thermal correction of the radii of curvature of mirrors for GEO 600. Classical and Quantum Gravity, 2004, 21, S985-S989.	4.0	42
243	Frequency-domain interferometer simulation with higher-order spatial modes. Classical and Quantum Gravity, 2004, 21, S1067-S1074.	4.0	81
244	Analysis of first LIGO science data for stochastic gravitational waves. Physical Review D, 2004, 69, .	4.7	96
245	First upper limits from LIGO on gravitational wave bursts. Physical Review D, 2004, 69, .	4.7	108
246	Setting upper limits on the strength of periodic gravitational waves from PSRJ1939+2134using the first science data from the GEO 600 and LIGO detectors. Physical Review D, 2004, 69, .	4.7	165
247	Analysis of LIGO data for gravitational waves from binary neutron stars. Physical Review D, 2004, 69, .	4.7	145
248	Detector description and performance for the first coincidence observations between LIGO and GEO. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 517, 154-179.	1.6	259
249	Automatic beam alignment for the mode-cleaner cavities of GEO 600. Applied Optics, 2004, 43, 1938.	2.1	4
250	Status of VIRGO. , 2004, 5500, 58.		2
251	The status of GEO 600. , 2004, , .		2
252	Mode-cleaning and injection optics of the gravitational-wave detector GEO600. Review of Scientific Instruments, 2003, 74, 3787-3795.	1.3	27

#	Article	IF	Citations
253	A report on the status of the GEO 600 gravitational wave detector. Classical and Quantum Gravity, 2003, 20, S581-S591.	4.0	14
254	Detector characterization in GEO 600. Classical and Quantum Gravity, 2003, 20, S731-S739.	4.0	0
255	Status of the GEO600 gravitational wave detector. , 2003, , .		2
256	The GEO 600 gravitational wave detector. Classical and Quantum Gravity, 2002, 19, 1377-1387.	4.0	284
257	Data acquisition and detector characterization of GEO600. Classical and Quantum Gravity, 2002, 19, 1399-1407.	4.0	15
258	Performance of a 1200 m long suspended Fabryâ€“Perot cavity. Classical and Quantum Gravity, 2002, 19, 1389-1397.	4.0	12
259	The modecleaner system and suspension aspects of GEO 600. Classical and Quantum Gravity, 2002, 19, 1835-1842.	4.0	21
260	Dual recycling for GEO 600. Classical and Quantum Gravity, 2002, 19, 1547-1553.	4.0	19
261	The automatic alignment system of GEO 600. Classical and Quantum Gravity, 2002, 19, 1849-1855.	4.0	14
262	Demonstration of detuned dual recycling at the Garching 30Âm laser interferometer. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 277, 135-142.	2.1	20
263	Use of voigt lineshape for quantification ofin vivo1H spectra. Magnetic Resonance in Medicine, 1997, 37, 651-657.	3.0	111
264	Beam shaping. , 0, , 196-215.		0