David Blair

List of Publications by Year
in descending order

342 papers	47,654 citations	17405 63 h-index	1589 216 g-index
348 all docs	348 docs citations	348 times ranked	17039 citing authors

#	Article	IF	Citations
1	A Comparison of Short and Long Einsteinian Physics Intervention Programmes in Middle School. Research in Science Education, 2022, 52, 305-324.	1.4	5
2	Search for intermediate-mass black hole binaries in the third observing run of Advanced LIGO and Advanced Virgo. Astronomy and Astrophysics, 2022, 659, A84.	2.1	32
3	Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGOâ€“Virgo Run O3b. Astrophysical Journal, 2022, 928, 186.	1.6	15
4	Acoustic and vibration isolation for a gravity gradiometer. Review of Scientific Instruments, 2022, 93, 064502.	0.6	1
5	Narrowband Searches for Continuous and Long-duration Transient Gravitational Waves from Known Pulsars in the LIGO-Virgo Third Observing Run. Astrophysical Journal, 2022, 932, 133.	1.6	33
6	Gravitational wave detectors with broadband high frequency sensitivity. Communications Physics, 2021, 4, .	2.0	26
7	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. Astrophysical Journal, 2021, 909, 218.	1.6	144
8	All possible paths: bringing quantum electrodynamics to classrooms. European Journal of Physics, 2021, 42, 035408.	0.3	1
9	Population Properties of Compact Objects from the Second LIGOâ€“Virgo Gravitational-Wave Transient Catalog. Astrophysical Journal Letters, 2021, 913, L7.	3.0	514
10	Observation of Gravitational Waves from Two Neutron Starâ€“Black Hole Coalescences. Astrophysical Journal Letters, 2021, 915, L5.	3.0	453
11	Constraints on Cosmic Strings Using Data from the Third Advanced LIGOâ€“Virgo Observing Run. Physical Review Letters, 2021, 126, 241102.	2.9	87
12	Long-term impact of a primary school intervention on aspects of Einsteinian physics. Physics Education, 2021, 56, 055031.	0.3	5
13	Revealing optical loss from modal frequency degeneracy in a long optical cavity. Optics Express, 2021, 29, 23902.	1.7	2
14	Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGOâ€“Virgo Run O3a. Astrophysical Journal, 2021, 915, 86.	1.6	20
15	Cat-flap micro-pendulum for low noise optomechanics. Journal Physics D: Applied Physics, 2021, 54, 035104.	1.3	1
16	Search for Lensing Signatures in the Gravitational-Wave Observations from the First Half of LIGOâ€“Virgoâ€™s Third Observing Run. Astrophysical Journal, 2021, 923, 14.	1.6	59
17	Determining the Intelligibility of Einsteinian Concepts with Middle School Students. Research in Science Education, 2020, 50, 2505-2532.	1.4	18
18	Gravity and warped timeâ€”clarifying conceptual confusions in general relativity. Physics Education, 2020, 55, 015023.	0.3	11

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19	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2020, 23, 3.	8.2	447
20	A Joint Fermi-GBM and LIGO/Virgo Analysis of Compact Binary Mergers from the First and Second Gravitational-wave Observing Runs. Astrophysical Journal, 2020, 893, 100.	1.6	12
21	GW190521: A Binary Black Hole Merger with a Total Mass of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>150</mml:mn><mml:mtext>â€‰</mml:mtext><mml:mtext>â€‰</mml:mtext><mml:msub> stretchy="false">âŠ™</mml:mo></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2020, 125, 101102.	2.9	836
22	GW190814: Gravitational Waves from the Coalescence of a 23 Solar Mass Black Hole with a 2.6 Solar Mass Compact Object. Astrophysical Journal Letters, 2020, 896, L44.	3.0	1,090
23	GW190425: Observation of a Compact Binary Coalescence with Total MassÂâ^¼Â3.4 M_{âŠ™}. Astrophysical Journal Letters, 2020, 892, L3.	3.0	1,049
24	Model comparison from LIGOâ€"Virgo data on GW170817â€™s binary components and consequences for the merger remnant. Classical and Quantum Gravity, 2020, 37, 045006.	1.5	109
25	A guide to LIGOâ€"Virgo detector noise and extraction of transient gravitational-wave signals. Classical and Quantum Gravity, 2020, 37, 055002.	1.5	188
26	Designing arm cavities free of parametric instability for gravitational wave detectors. Classical and Quantum Gravity, 2020, 37, 075015.	1.5	1
27	Rotational isolation with neutrally buoyant suspension. Review of Scientific Instruments, 2020, 91, 054502.	0.6	1
28	Properties and Astrophysical Implications of the 150 M_{âŠ™} Binary Black Hole Merger GW190521. Astrophysical Journal Letters, 2020, 900, L13.	3.0	406
29	Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. Astrophysical Journal Letters, 2020, 902, L21.	3.0	65
30	Double end-mirror sloshing cavity for optical dilution of thermal noise in mechanical resonators. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1643.	0.9	1
31	Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015â€"2017 LIGO Data. Astrophysical Journal, 2019, 879, 10.	1.6	88
32	Tests of General Relativity with GW170817. Physical Review Letters, 2019, 123, 011102.	2.9	370
33	Search for Eccentric Binary Black Hole Mergers with Advanced LIGO and Advanced Virgo during Their First and Second Observing Runs. Astrophysical Journal, 2019, 883, 149.	1.6	72
34	Search for Subsolar Mass Ultracompact Binaries in Advanced LIGOâ€™s Second Observing Run. Physical Review Letters, 2019, 123, 161102.	2.9	119
35	Binary Black Hole Population Properties Inferred from the First and Second Observing Runs of Advanced LIGO and Advanced Virgo. Astrophysical Journal Letters, 2019, 882, L24.	3.0	566
36	Characterization of a self-damped pendulum for vibration isolation. Review of Scientific Instruments, 2019, 90, 065103.	0.6	0

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37	A Fermi Gamma-Ray Burst Monitor Search for Electromagnetic Signals Coincident with Gravitational-wave Candidates in Advanced LIGO's First Observing Run. Astrophysical Journal, 2019, 871, 90.	1.6	30
38	Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO[*]. Astrophysical Journal, 2019, 875, 122.	1.6	61
39	Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. Astrophysical Journal, 2019, 875, 160.	1.6	97
40	First Measurement of the Hubble Constant from a Dark Standard Siren using the Dark Energy Survey Galaxies and the LIGO/Virgo Binaryâ€“Black-hole Merger GW170814. Astrophysical Journal Letters, 2019, 876, L7.	3.0	179
41	Low-latency Gravitational-wave Alerts for Multimessenger Astronomy during the Second Advanced LIGO and Virgo Observing Run. Astrophysical Journal, 2019, 875, 161.	1.6	71
42	Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced LIGOâ€™s Second Observing Run. Astrophysical Journal, 2019, 874, 163.	1.6	26
43	Constraining the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math> -Modeâ€“ <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>g</mml:mi></mml:math> -Mode Tidal Instability with GW170817. Physical Review Letters, 2019, 122, 061104.	2.9	36
44	Search for Gravitational-wave Signals Associated with Gamma-Ray Bursts during the Second Observing Run of Advanced LIGO and Advanced Virgo. Astrophysical Journal, 2019, 886, 75.	1.6	29
45	Public and teacher response to Einsteinian physics in schools. Physics Education, 2019, 54, 015001.	0.3	14
46	Einsteinian Physics in the Classroom: Integrating Physical and Digital Learning Resources in the Context of an International Research Collaboration. The Physics Educator, 2019, 01, 1950016.	0.1	14
47	Effects of data quality vetoes on a search for compact binary coalescences in Advanced LIGOâ€™s first observing run. Classical and Quantum Gravity, 2018, 35, 065010.	1.5	94
48	GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. Physical Review Letters, 2018, 120, 091101.	2.9	166
49	All-sky search for long-duration gravitational wave transients in the first Advanced LIGO observing run. Classical and Quantum Gravity, 2018, 35, 065009.	1.5	18
50	First Search for Nontensorial Gravitational Waves from Known Pulsars. Physical Review Letters, 2018, 120, 031104.	2.9	68
51	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
52	Ultra-low dissipation resonators for improving the sensitivity of gravitational wave detectors. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2174-2180.	0.9	6
53	Angular instability in high optical power suspended cavities. Review of Scientific Instruments, 2018, 89, 124503.	0.6	3
54	Search for Subsolar-Mass Ultracompact Binaries in Advanced LIGOâ€™s First Observing Run. Physical Review Letters, 2018, 121, 231103.	2.9	77

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55	Can a short intervention focused on gravitational waves and quantum physics improve studentsâ€™ understanding and attitude?. Physics Education, 2018, 53, 065020.	0.3	14
56	GW170817: Measurements of Neutron Star Radii and Equation of State. Physical Review Letters, 2018, 121, 161101.	2.9	1,473
57	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. Physical Review Letters, 2018, 120, 201102.	2.9	85
58	Suppression of thermal transients in advanced LIGO interferometers using CO ₂ laser preheating. Classical and Quantum Gravity, 2018, 35, 115006.	1.5	3
59	The Asia-Australia Gravitational Wave Detector Concept. , 2018, , .		0
60	A New Global Array of Optical Telescopes: The Falcon Telescope Network. Publications of the Astronomical Society of the Pacific, 2018, 130, 095003.	1.0	11
61	Modular suspension system with low acoustic coupling to the suspended test mass in a prototype gravitational wave detector. Review of Scientific Instruments, 2018, 89, 074501.	0.6	4
62	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
63	Low-frequency rotational isolator for airborne exploration. Geophysics, 2017, 82, E27-E30.	1.4	3
64	Exploring the sensitivity of next generation gravitational wave detectors. Classical and Quantum Gravity, 2017, 34, 044001.	1.5	735
65	The Data Analysis in Gravitational Wave Detection. Chinese Astronomy and Astrophysics, 2017, 41, 1-31.	0.1	0
66	Effects of waveform model systematics on the interpretation of GW150914. Classical and Quantum Gravity, 2017, 34, 104002.	1.5	98
67	Preventing transient parametric instabilities in high power gravitational wave detectors using thermal transient compensation. Classical and Quantum Gravity, 2017, 34, 145014.	1.5	2
68	Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGOâ€™s First Observing Run. Physical Review Letters, 2017, 118, 121101.	2.9	194
69	Directional Limits on Persistent Gravitational Waves from Advanced LIGOâ€™s First Observing Run. Physical Review Letters, 2017, 118, 121102.	2.9	84
70	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. Astrophysical Journal, 2017, 839, 12.	1.6	131
71	The basic physics of the binary black hole merger GW150914. Annalen Der Physik, 2017, 529, 1600209.	0.9	69
72	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. Physical Review Letters, 2017, 119, 141101.	2.9	1,600

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73	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.	1.6	46
74	GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. Physical Review Letters, 2017, 119, 161101.	2.9	6,413
75	Multi-messenger Observations of a Binary Neutron Star Merger[*]. Astrophysical Journal Letters, 2017, 848, L12.	3.0	2,805
76	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
77	Teaching Einsteinian physics at schools: part 3, review of research outcomes. Physics Education, 2017, 52, 065014.	0.3	19
78	Teaching Einsteinian physics at schools: part 2, models and analogies for quantum physics. Physics Education, 2017, 52, 065013.	0.3	16
79	Teaching Einsteinian physics at schools: part 1, models and analogies for relativity. Physics Education, 2017, 52, 065012.	0.3	30
80	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.	1.6	52
81	First Demonstration of Electrostatic Damping of Parametric Instability at Advanced LIGO. Physical Review Letters, 2017, 118, 151102.	2.9	24
82	Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. Astrophysical Journal Letters, 2017, 851, L16.	3.0	189
83	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated withÂGW170817. Astrophysical Journal Letters, 2017, 850, L39.	3.0	156
84	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
85	Why did the apple fall? A new model to explain Einsteinâ€™s gravity. European Journal of Physics, 2017, 38, 015603.	0.3	18
86	On the Progenitor of Binary Neutron Star Merger GW170817. Astrophysical Journal Letters, 2017, 850, L40.	3.0	73
87	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. Astrophysical Journal Letters, 2017, 851, L35.	3.0	968
88	Study of parametric instability in gravitational wave detectors with silicon test masses. Classical and Quantum Gravity, 2017, 34, 055006.	1.5	4
89	Thermal modulation for suppression of parametric instability in advanced gravitational wave detectors. Classical and Quantum Gravity, 2017, 34, 135001.	1.5	1
90	First direct detection of gravitational waves. National Science Review, 2017, 4, 681-682.	4.6	1

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91	Towards thermal noise free optomechanics. Journal Physics D: Applied Physics, 2016, 49, 455104.	1.3	9
92	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. Classical and Quantum Gravity, 2016, 33, 134001.	1.5	225
93	SUPPLEMENT: â€œTHE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914â€•(2016, ApJL, 833, L1). Astrophysical Journal, Supplement Series, 2016, 227, 14.	3.0	63
94	THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. Astrophysical Journal Letters, 2016, 833, L1.	3.0	230
95	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. Astrophysical Journal Letters, 2016, 826, L13.	3.0	210
96	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.	3.0	146
97	GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. Physical Review D, 2016, 93, .	1.6	315
98	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. Physical Review Letters, 2016, 116, 131102.	2.9	269
99	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. Physical Review Letters, 2016, 116, 131103.	2.9	466
100	SUPPLEMENT: â€œLOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914â€•(2016, ApJL, 826, L13). Astrophysical Journal, Supplement Series, 2016, 225, 8.	3.0	44
101	Tests of General Relativity with GW150914. Physical Review Letters, 2016, 116, 221101.	2.9	1,224
102	Properties of the Binary Black Hole Merger GW150914. Physical Review Letters, 2016, 116, 241102.	2.9	673
103	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. Physical Review Letters, 2016, 116, 241103.	2.9	2,701
104	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. Astrophysical Journal Letters, 2016, 818, L22.	3.0	633
105	Observation of Gravitational Waves from a Binary Black Hole Merger. Physical Review Letters, 2016, 116, 061102.	2.9	8,753
106	Parametric instability in long optical cavities and suppression by dynamic transverse mode frequency modulation. Physical Review D, 2015, 91, .	1.6	20
107	Gravitational wave astronomy: the current status. Science China: Physics, Mechanics and Astronomy, 2015, 58, 1.	2.0	26
108	The development of ground based gravitational wave astronomy and opportunities for Australiaâ€"China collaboration. International Journal of Modern Physics A, 2015, 30, 1545019.	0.5	0

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109	The next detectors for gravitational wave astronomy. Science China: Physics, Mechanics and Astronomy, 2015, 58, 1.	2.0	23
110	Extraction of energy from gravitational waves by laser interferometer detectors. Classical and Quantum Gravity, 2015, 32, 015003.	1.5	2
111	Observation of Parametric Instability in Advanced LIGO. Physical Review Letters, 2015, 114, 161102.	2.9	87
112	Linear negative dispersion with a gain doublet via optomechanical interactions. Optics Letters, 2015, 40, 2337.	1.7	8
113	Time evolution of parametric instability in large-scale gravitational-wave interferometers. Physical Review D, 2014, 90, .	1.6	9
114	Three mode interactions as a precision monitoring tool for advanced laser interferometers. Classical and Quantum Gravity, 2014, 31, 185003.	1.5	3
115	Narrowing the Filter-Cavity Bandwidth in Gravitational-Wave Detectors via Optomechanical Interaction. Physical Review Letters, 2014, 113, 151102.	2.9	51
116	Near-self-imaging cavity for three-mode optoacoustic parametric amplifiers using silicon microresonators. Applied Optics, 2014, 53, 841.	0.9	3
117	Three mode interaction noise in laser interferometer gravitational wave detectors. Classical and Quantum Gravity, 2014, 31, 145002.	1.5	3
118	An Exploratory Study to Investigate the Impact of an Enrichment Program on Aspects of Einsteinian Physics on Year 6 Students. Research in Science Education, 2014, 44, 363-388.	1.4	25
119	Classical demonstration of frequency-dependent noise ellipse rotation using optomechanically induced transparency. Physical Review A, 2014, 89, .	1.0	16
120	Education and public outreach on gravitational-wave astronomy. General Relativity and Gravitation, 2014, 46, 1.	0.7	1
121	Radiation pressure excitation of test mass ultrasonic modes via three mode opto-acoustic interactions in a suspended Fabryâ€"PÃ©rot cavity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 1970-1973.	0.9	9
122	Spectroscopy of thermally excited acoustic modes using three-mode opto-acoustic interactions in a thermally tuned Fabryâ€"PÃ©rot cavity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 2702-2708.	0.9	6
123	On the gravitational wave background from compact binary coalescences in the band of ground-based interferometers. Monthly Notices of the Royal Astronomical Society, 2013, 431, 882-899.	1.6	91
124	High performance rotational vibration isolator. Review of Scientific Instruments, 2013, 84, 105111.	0.6	7
125	High quality factor mg-scale silicon mechanical resonators for 3-mode optoacoustic parametric amplifiers. Journal of Applied Physics, 2013, 114, .	1.1	6
126	GPU-accelerated low-latency real-time searches for gravitational waves from compact binary coalescence. Classical and Quantum Gravity, 2012, 29, 235018.	1.5	16

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127	Summed parallel infinite impulse response filters for low-latency detection of chirping gravitational waves. Physical Review D, 2012, 86, .	1.6	53
128	Novel Euler-LaCoste linkage as a very low frequency vertical vibration isolator. Review of Scientific Instruments, 2012, 83, 085108.	0.6	6
129	Cryogenic interferometers. , 2012, , 261-276.		2
130	Thermal tuning the optical cavity for 3 mode interaction studies using a<i>CO</i>₂laser. Journal of Physics: Conference Series, 2012, 363, 012018.	0.3	4
131	Progress on the Low-Latency Inspiral Gravitational Wave Detection algorithm known as SPIIR. Journal of Physics: Conference Series, 2012, 363, 012027.	0.3	2
132	Scientific Benefit of Enlarging Gravitational Wave Detector Networks. Journal of Physics: Conference Series, 2012, 363, 012023.	0.3	3
133	Rayleigh scattering in fused silica samples for gravitational wave detectors. Optics Communications, 2011, 284, 4732-4737.	1.0	5
134	THE AIGO PROJECT. International Journal of Modern Physics D, 2011, 20, 2087-2092.	0.9	3
135	NOISE PERFORMANCE OF A 72 m SUSPENDED FABRYâ€“PÃ‰ROT CAVITY. International Journal of Modern Physics D, 2011, 20, 2063-2067.	0.9	0
136	CONTROLLING INSTABILITIES IN HIGH OPTICAL POWER INTERFEROMETERS. International Journal of Modern Physics D, 2011, 20, 2069-2074.	0.9	1
137	Study of three-mode parametric instability. Journal of Physics: Conference Series, 2010, 228, 012025.	0.3	1
138	The Zadko Telescope: A Southern Hemisphere Telescope for Optical Transient Searches, Multi-Messenger Astronomy and Education. Publications of the Astronomical Society of Australia, 2010, 27, 331-339.	1.3	23
139	Three-mode opto-acoustic interactions in optical cavities: introducing the three-mode opto-acoustic parametric amplifier. Proceedings of SPIE, 2010, , .	0.8	1
140	Accelerated Searches of Gravitational Waves Using Graphics Processing Units. , 2010, , .		0
141	Low-Latency Detection of Gravitational Waves. , 2010, , .		3
142	Modelling of tuning of an ultra low frequency Roberts Linkage vibration isolator. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 3705-3709.	0.9	4
143	Pulsar magnetic alignment and the pulsewidth-age relation. Monthly Notices of the Royal Astronomical Society, 2010, 402, 1317-1329.	1.6	49
144	Enhancement and suppression of opto-acoustic parametric interactions using optical feedback. Physical Review A, 2010, 81, .	1.0	8

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145	Opto-acoustic interactions in gravitational wave detectors: Comparing flat-top beams with Gaussian beams. Physical Review D, 2010, 81, .	1.6	10
146	Application of graphics processing units to search pipelines for gravitational waves from coalescing binaries of compact objects. Classical and Quantum Gravity, 2010, 27, 135009.	1.5	10
147	Parametric instabilities in advanced gravitational wave detectors. Classical and Quantum Gravity, 2010, 27, 205019.	1.5	28
148	Testing the suppression of opto-acoustic parametric interactions using optical feedback control. Classical and Quantum Gravity, 2010, 27, 084028.	1.5	9
149	AIGO: a southern hemisphere detector for the worldwide array of ground-based interferometric gravitational wave detectors. Classical and Quantum Gravity, 2010, 27, 084005.	1.5	20
150	Observation of optical torsional stiffness in a high optical power cavity. Applied Physics Letters, 2009, 94, 081105.	1.5	7
151	Compact vibration isolation and suspension for Australian International Gravitational Observatory: Local control system. Review of Scientific Instruments, 2009, 80, 114502.	0.6	11
152	Optimizing a direct string magnetic gradiometer for geophysical exploration. Review of Scientific Instruments, 2009, 80, 104705.	0.6	9
153	Scattering in sapphire test masses for gravitational wave detectors. Journal of Optics, 2009, 11, 125205.	1.5	1
154	Low magnetic susceptibility materials and applications in magnetic gradiometry. Smart Materials and Structures, 2009, 18, 095038.	1.8	6
155	Suppression of parametric instabilities in future gravitational wave detectors using damping rings. Classical and Quantum Gravity, 2009, 26, 135012.	1.5	25
156	Strategies for the control of parametric instability in advanced gravitational wave detectors. Classical and Quantum Gravity, 2009, 26, 015002.	1.5	21
157	Gravitational astronomy 101. Nature, 2009, 457, 122-122.	13.7	0
158	Are GRB optical afterglows relatively brighter at high <i>z</i>?. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 399, L108-L112.	1.2	4
159	Differential readout for a magnetic gradiometer. Sensors and Actuators A: Physical, 2009, 153, 5-12.	2.0	1
160	Optical design of the proposed Australian International Gravitational Observatory. Optics Express, 2009, 17, 2149.	1.7	4
161	Direct measurement of absorption-induced wavefront distortion in high optical power systems. Applied Optics, 2009, 48, 355.	2.1	14
162	Quantum ground-state cooling and tripartite entanglement with three-mode optoacoustic interactions. Physical Review A, 2009, 79, .	1.0	24

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163	Compact vibration isolation and suspension for Australian International Gravitational Observatory: Performance in a 72 m Fabry Perot cavity. Review of Scientific Instruments, 2009, 80, 114501.	0.6	9
164	Three-Mode Optoacoustic Parametric Amplifier: A Tool for Macroscopic Quantum Experiments. Physical Review Letters, 2009, 102, 243902.	2.9	41
165	Results from a novel direct magnetic gradiometer. Exploration Geophysics, 2009, 40, 222-226.	0.5	8
166	Direct string magnetic gradiometer for space applications. Sensors and Actuators A: Physical, 2008, 147, 529-535.	2.0	8
167	Feedback control of thermal lensing in a high optical power cavity. Review of Scientific Instruments, 2008, 79, 104501.	0.6	7
168	Observation of enhanced optical spring damping in a macroscopic mechanical resonator and application for parametric instability control in advanced gravitational-wave detectors. Physical Review A, 2008, 77, .	1.0	20
169	Three-mode optoacoustic parametric interactions with a coupled cavity. Physical Review A, 2008, 78, .	1.0	10
170	Observation of three-mode parametric interactions in long optical cavities. Physical Review A, 2008, 78, .	1.0	33
171	Vacuum system requirement for a 5 km baseline of gravitational-wave detector. Journal of Physics: Conference Series, 2008, 114, 012025.	0.3	0
172	The Science benefits and preliminary design of the southern hemisphere gravitational wave detector AIGO. Journal of Physics: Conference Series, 2008, 122, 012001.	0.3	21
173	Investigation of vacuum system requirements for a 5km baseline gravitational-wave detector. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2007, 25, 763-768.	0.9	5
174	Numerical calculations of diffraction losses in advanced interferometric gravitational wave detectors. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 1731.	0.8	15
175	Thermal tuning of optical cavities for parametric instability control. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 1336.	0.9	23
176	Description of and Results From a Novel Direct Magnetic Gradiometer. ASEG Extended Abstracts, 2007, 2007, 1-3.	0.1	2
177	Rayleigh scattering, absorption, and birefringence of large-size bulk single-crystal sapphire. Applied Optics, 2006, 45, 2631.	2.1	9
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