David Blair

List of Publications by Year in Descending Order

334 papers	32,825 citations	53 h-index	179 g-index
348 ext. papers	40,623 ext. citations	4.4 avg, IF	5.19 L-index

#	Paper	IF	Citations
334	Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGO–Virgo Run O3b. *Astrophysical Journal*, **2022**, 928, 186	4.7	1
333	Acoustic and vibration isolation for a gravity gradiometer. *Review of Scientific Instruments*, **2022**, 93, 064502	1.7	0
332	Cat-flap micro-pendulum for low noise optomechanics. *Journal Physics D: Applied Physics*, **2021**, 54, 035104	3.4	0
331	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. *Astrophysical Journal*, **2021**, 909, 218	4.7	46
330	All possible paths: bringing quantum electrodynamics to classrooms. *European Journal of Physics*, **2021**, 42, 035408	0.8	
329	Population Properties of Compact Objects from the Second LIGO–Virgo Gravitational-Wave Transient Catalog. *Astrophysical Journal Letters*, **2021**, 913, L7	7.9	194
328	Observation of Gravitational Waves from Two Neutron Star–Black Hole Coalescences. *Astrophysical Journal Letters*, **2021**, 915, L5	7.9	142
327	Constraints on Cosmic Strings Using Data from the Third Advanced LIGO-Virgo Observing Run. *Physical Review Letters*, **2021**, 126, 241102	7.4	21
326	Long-term impact of a primary school intervention on aspects of Einsteinian physics. *Physics Education*, **2021**, 56, 055031	0.8	1
325	Gravitational wave detectors with broadband high frequency sensitivity. *Communications Physics*, **2021**, 4,	5.4	10
324	Revealing optical loss from modal frequency degeneracy in a long optical cavity. *Optics Express*, **2021**, 29, 23902-23915	3.3	1
323	Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGO–Virgo Run O3a. *Astrophysical Journal*, **2021**, 915, 86	4.7	6
322	Search for Lensing Signatures in the Gravitational-Wave Observations from the First Half of LIGO–Virgo's Third Observing Run. *Astrophysical Journal*, **2021**, 923, 14	4.7	4
321	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	7.9	571
320	GW190425: Observation of a Compact Binary Coalescence with Total Mass ~ 3.4 M ?. *Astrophysical Journal Letters*, **2020**, 892, L3	7.9	591
319	Model comparison from LIGO–Virgo data on GW170817's binary components and consequences for the merger remnant. *Classical and Quantum Gravity*, **2020**, 37, 045006	3.3	69
318	A guide to LIGO–Virgo detector noise and extraction of transient gravitational-wave signals. *Classical and Quantum Gravity*, **2020**, 37, 055002	3.3	78

317	Designing arm cavities free of parametric instability for gravitational wave detectors. *Classical and Quantum Gravity*, **2020**, 37, 075015	3.3	1
316	Properties and Astrophysical Implications of the 150 M ? Binary Black Hole Merger GW190521. *Astrophysical Journal Letters*, **2020**, 900, L13	7.9	207
315	Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. *Astrophysical Journal Letters*, **2020**, 902, L21	7.9	32
314	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	1.7	1
313	Rotational isolation with neutrally buoyant suspension. *Review of Scientific Instruments*, **2020**, 91, 054502	1.7	1
312	Gravity and warped time□larifying conceptual confusions in general relativity. *Physics Education*, **2020**, 55, 015023	0.8	6
311	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. *Living Reviews in Relativity*, **2020**, 23, 3	32.5	144
310	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	4.7	9
309	A Comparison of Short and Long Einsteinian Physics Intervention Programmes in Middle School. *Research in Science Education*, **2020**, 1	1.5	1
308	GW190521: A Binary Black Hole Merger with a Total Mass of 150 M_{?}. *Physical Review Letters*, **2020**, 125, 101102	7.4	420
307	Determining the Intelligibility of Einsteinian Concepts with Middle School Students. *Research in Science Education*, **2020**, 50, 2505-2532	1.5	10
306	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	7.9	381
305	Characterization of a self-damped pendulum for vibration isolation. *Review of Scientific Instruments*, **2019**, 90, 065103	1.7	
304	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	4.7	22
303	Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO. *Astrophysical Journal*, **2019**, 875, 122	4.7	45
302	Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. *Astrophysical Journal*, **2019**, 875, 160	4.7	60
301	First Measurement of the Hubble Constant from a Dark Standard Siren using the Dark Energy Survey Galaxies and the LIGO/Virgo Binary□Black-hole Merger GW170814. *Astrophysical Journal Letters*, **2019**, 876, L7	7.9	91
300	Low-latency Gravitational-wave Alerts for Multimessenger Astronomy during the Second Advanced LIGO and Virgo Observing Run. *Astrophysical Journal*, **2019**, 875, 161	4.7	49

299	Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced LIGO's Second Observing Run. *Astrophysical Journal*, **2019**, 874, 163	4.7	17
298	Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015–2017 LIGO Data. *Astrophysical Journal*, **2019**, 879, 10	4.7	63
297	Tests of General Relativity with GW170817. *Physical Review Letters*, **2019**, 123, 011102	7.4	204
296	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	4.7	36
295	Search for Subsolar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. *Physical Review Letters*, **2019**, 123, 161102	7.4	68
294	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	0.5	8
293	Constraining the p-Mode-g-Mode Tidal Instability with GW170817. *Physical Review Letters*, **2019**, 122, 061104	7.4	22
292	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	4.7	21
291	Public and teacher response to Einsteinian physics in schools. *Physics Education*, **2019**, 54, 015001	0.8	10
290	Effects of data quality vetoes on a search for compact binary coalescences in Advanced LIGO's first observing run. *Classical and Quantum Gravity*, **2018**, 35, 065010	3.3	62
289	GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. *Physical Review Letters*, **2018**, 120, 091101	7.4	120
288	All-sky search for long-duration gravitational wave transients in the first Advanced LIGO observing run. *Classical and Quantum Gravity*, **2018**, 35, 065009	3.3	12
287	First Search for Nontensorial Gravitational Waves from Known Pulsars. *Physical Review Letters*, **2018**, 120, 031104	7.4	50
286	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. *Living Reviews in Relativity*, **2018**, 21, 3	32.5	543
285	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	2.3	4
284	A New Global Array of Optical Telescopes: The Falcon Telescope Network. *Publications of the Astronomical Society of the Pacific*, **2018**, 130, 095003	5	6
283	Enhanced detection of high frequency gravitational waves using optically diluted optomechanical filters. *Physical Review D*, **2018**, 97,	4.9	8
282	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	1.7	4

281	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA **2018**, 21, 1		2
280	Angular instability in high optical power suspended cavities. *Review of Scientific Instruments*, **2018**, 89, 124503	1.7	1
279	Search for Subsolar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. *Physical Review Letters*, **2018**, 121, 231103	7.4	49
278	Can a short intervention focused on gravitational waves and quantum physics improve students understanding and attitude?. *Physics Education*, **2018**, 53, 065020	0.8	7
277	GW170817: Measurements of Neutron Star Radii and Equation of State. *Physical Review Letters*, **2018**, 121, 161101	7.4	867
276	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. *Physical Review Letters*, **2018**, 120, 201102	7.4	60
275	Suppression of thermal transients in advanced LIGO interferometers using CO 2 laser preheating. *Classical and Quantum Gravity*, **2018**, 35, 115006	3.3	1
274	Low-frequency rotational isolator for airborne exploration. *Geophysics*, **2017**, 82, E27-E30	3.1	3
273	Exploring the sensitivity of next generation gravitational wave detectors. *Classical and Quantum Gravity*, **2017**, 34, 044001	3.3	454
272	The Data Analysis in Gravitational Wave Detection. *Chinese Astronomy and Astrophysics*, **2017**, 41, 1-31	0.5	
271	Effects of waveform model systematics on the interpretation of GW150914. *Classical and Quantum Gravity*, **2017**, 34, 104002	3.3	74
270	Preventing transient parametric instabilities in high power gravitational wave detectors using thermal transient compensation. *Classical and Quantum Gravity*, **2017**, 34, 145014	3.3	1
269	Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run. *Physical Review Letters*, **2017**, 118, 121101	7.4	137
268	Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. *Physical Review Letters*, **2017**, 118, 121102	7.4	65
267	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. *Astrophysical Journal* , **2017**, 839, 12	4.7	107
266	The basic physics of the binary black hole merger GW150914. *Annalen Der Physik*, **2017**, 529, 1600209	2.6	45
265	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. *Physical Review Letters*, **2017**, 119, 141101	7.4	1270
264	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	4.7	35

263	GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. *Physical Review Letters*, **2017**, 119, 161101	7.4	4272
262	Multi-messenger Observations of a Binary Neutron Star Merger. *Astrophysical Journal Letters*, **2017**, 848, L12	7.9	1935
261	Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. *Astrophysical Journal Letters*, **2017**, 848, L13	7.9	1614
260	First direct detection of gravitational waves. *National Science Review*, **2017**, 4, 681-682	10.8	1
259	Teaching Einsteinian physics at schools: part 3, review of research outcomes. *Physics Education*, **2017**, 52, 065014	0.8	12
258	Teaching Einsteinian physics at schools: part 2, models and analogies for quantum physics. *Physics Education*, **2017**, 52, 065013	0.8	9
257	Teaching Einsteinian physics at schools: part 1, models and analogies for relativity. *Physics Education*, **2017**, 52, 065012	0.8	19
256	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	4.7	42
255	First Demonstration of Electrostatic Damping of Parametric Instability at Advanced LIGO. *Physical Review Letters*, **2017**, 118, 151102	7.4	18
254	Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. *Astrophysical Journal Letters*, **2017**, 851, L16	7.9	133
253	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. *Astrophysical Journal Letters*, **2017**, 850, L39	7.9	127
252	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. *Physical Review Letters*, **2017**, 118, 221101	7.4	1609
251	Why did the apple fall? A new model to explain Einstein□ gravity. *European Journal of Physics*, **2017**, 38, 015603	0.8	16
250	On the Progenitor of Binary Neutron Star Merger GW170817. *Astrophysical Journal Letters*, **2017**, 850, L40	7.9	50
249	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. *Astrophysical Journal Letters*, **2017**, 851, L35	7.9	809
248	Study of parametric instability in gravitational wave detectors with silicon test masses. *Classical and Quantum Gravity*, **2017**, 34, 055006	3.3	3
247	Thermal modulation for suppression of parametric instability in advanced gravitational wave detectors. *Classical and Quantum Gravity*, **2017**, 34, 135001	3.3	1
246	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. *Astrophysical Journal Letters*, **2016**, 826, L13	7.9	183

245	UPPER LIMITS ON THE RATES OF BINARY NEUTRON STAR AND NEUTRON STAR–BLACK HOLE MERGERS FROM ADVANCED LIGO'S FIRST OBSERVING RUN. *Astrophysical Journal Letters*, **2016**, 832, L21	7.9	130
244	GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. *Physical Review D*, **2016**, 93,	4.9	253
243	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. *Physical Review Letters*, **2016**, 116, 131102	7.4	188
242	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. *Physical Review Letters*, **2016**, 116, 131103	7.4	328
241	SUPPLEMENT: "LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914" (2016, ApJL, 826, L13). *Astrophysical Journal, Supplement Series*, **2016**, 225, 8	8	38
240	Tests of General Relativity with GW150914. *Physical Review Letters*, **2016**, 116, 221101	7.4	837
239	Properties of the Binary Black Hole Merger GW150914. *Physical Review Letters*, **2016**, 116, 241102	7.4	515
238	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. *Physical Review Letters*, **2016**, 116, 241103	7.4	2136
237	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. *Astrophysical Journal Letters*, **2016**, 818, L22	7.9	512
236	Observation of Gravitational Waves from a Binary Black Hole Merger. *Physical Review Letters*, **2016**, 116, 061102	7.4	6108
235	Towards thermal noise free optomechanics. *Journal Physics D: Applied Physics*, **2016**, 49, 455104	3	8
234	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. *Classical and Quantum Gravity*, **2016**, 33,	3.3	155
233	SUPPLEMENT: "THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914" (2016, ApJL, 833, L1). *Astrophysical Journal, Supplement Series*, **2016**, 227, 14	8	52
232	THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. *Astrophysical Journal Letters*, **2016**, 833, L1	7.9	209
231	Observation of Parametric Instability in Advanced LIGO. *Physical Review Letters*, **2015**, 114, 161102	7.4	63
230	Linear negative dispersion with a gain doublet via optomechanical interactions. *Optics Letters*, **2015**, 40, 2337-40	3	8
229	Parametric instability in long optical cavities and suppression by dynamic transverse mode frequency modulation. *Physical Review D*, **2015**, 91,	4.9	17
228	Gravitational wave astronomy: the current status. *Science China: Physics, Mechanics and Astronomy*, **2015**, 58, 1	3.6	18

227	The development of ground based gravitational wave astronomy and opportunities for Australia□China collaboration. *International Journal of Modern Physics A*, **2015**, 30, 1545019	1.2	
226	The next detectors for gravitational wave astronomy. *Science China: Physics, Mechanics and Astronomy*, **2015**, 58, 1	3.6	14
225	Extraction of energy from gravitational waves by laser interferometer detectors. *Classical and Quantum Gravity*, **2015**, 32, 015003	3.3	2
224	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	1.5	17
223	Classical demonstration of frequency-dependent noise ellipse rotation using optomechanically induced transparency. *Physical Review A*, **2014**, 89,	2.6	12
222	Education and public outreach on gravitational-wave astronomy. *General Relativity and Gravitation*, **2014**, 46, 1	2.3	1
221	Time evolution of parametric instability in large-scale gravitational-wave interferometers. *Physical Review D*, **2014**, 90,	4.9	8
220	Three mode interactions as a precision monitoring tool for advanced laser interferometers. *Classical and Quantum Gravity*, **2014**, 31, 185003	3.3	3
219	Narrowing the filter-cavity bandwidth in gravitational-wave detectors via optomechanical interaction. *Physical Review Letters*, **2014**, 113, 151102	7.4	39
218	Near-self-imaging cavity for three-mode optoacoustic parametric amplifiers using silicon microresonators. *Applied Optics*, **2014**, 53, 841-9	1.7	3
217	Three mode interaction noise in laser interferometer gravitational wave detectors. *Classical and Quantum Gravity*, **2014**, 31, 145002	3.3	3
216	Radiation pressure excitation of test mass ultrasonic modes via three mode opto-acoustic interactions in a suspended Fabry□Pérot cavity. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2013**, 377, 1970-1973	2.3	7
215	Spectroscopy of thermally excited acoustic modes using three-mode opto-acoustic interactions in a thermally tuned Fabry□Pérot cavity. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2013**, 377, 2702-2708	2.3	6
214	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	4.3	65
213	High performance rotational vibration isolator. *Review of Scientific Instruments*, **2013**, 84, 105111	1.7	7
212	High quality factor mg-scale silicon mechanical resonators for 3-mode optoacoustic parametric amplifiers. *Journal of Applied Physics*, **2013**, 114, 014506	2.5	4
211	GPU-accelerated low-latency real-time searches for gravitational waves from compact binary coalescence. *Classical and Quantum Gravity*, **2012**, 29, 235018	3.3	11
210	Summed parallel infinite impulse response filters for low-latency detection of chirping gravitational waves. *Physical Review D*, **2012**, 86,	4.9	36

209	Novel Euler-LaCoste linkage as a very low frequency vertical vibration isolator. *Review of Scientific Instruments*, **2012**, 83, 085108	1.7	6
208	Thermal tuning the optical cavity for 3 mode interaction studies using aCO2laser. *Journal of Physics: Conference Series*, **2012**, 363, 012018	0.3	4
207	Progress on the Low-Latency Inspiral Gravitational Wave Detection algorithm known as SPIIR. *Journal of Physics: Conference Series*, **2012**, 363, 012027	0.3	0
206	Scientific Benefit of Enlarging Gravitational Wave Detector Networks. *Journal of Physics: Conference Series*, **2012**, 363, 012023	0.3	3
205	Rayleigh scattering in fused silica samples for gravitational wave detectors. *Optics Communications*, **2011**, 284, 4732-4737	2	5
204	THE AIGO PROJECT. *International Journal of Modern Physics D*, **2011**, 20, 2087-2092	2.2	3
203	NOISE PERFORMANCE OF A 72 m SUSPENDED FABRY-PEROT CAVITY. *International Journal of Modern Physics D*, **2011**, 20, 2063-2067	2.2	
202	CONTROLLING INSTABILITIES IN HIGH OPTICAL POWER INTERFEROMETERS. *International Journal of Modern Physics D*, **2011**, 20, 2069-2074	2.2	1
201	Pulsar magnetic alignment and the pulsewidth-age relation. *Monthly Notices of the Royal Astronomical Society*, **2010**, 402, 1317-1329	4.3	44
200	Enhancement and suppression of opto-acoustic parametric interactions using optical feedback. *Physical Review A*, **2010**, 81,	2.6	8
199	Opto-acoustic interactions in gravitational wave detectors: Comparing flat-top beams with Gaussian beams. *Physical Review D*, **2010**, 81,	4.9	9
198	Application of graphics processing units to search pipelines for gravitational waves from coalescing binaries of compact objects. *Classical and Quantum Gravity*, **2010**, 27, 135009	3.3	10
197	Parametric instabilities in advanced gravitational wave detectors. *Classical and Quantum Gravity*, **2010**, 27, 205019	3.3	26
196	Testing the suppression of opto-acoustic parametric interactions using optical feedback control. *Classical and Quantum Gravity*, **2010**, 27, 084028	3.3	5
195	AIGO: a southern hemisphere detector for the worldwide array of ground-based interferometric gravitational wave detectors. *Classical and Quantum Gravity*, **2010**, 27, 084005	3.3	17
194	Study of three-mode parametric instability. *Journal of Physics: Conference Series*, **2010**, 228, 012025	0.3	1
193	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	5.5	23
192	Three-mode opto-acoustic interactions in optical cavities: introducing the three-mode opto-acoustic parametric amplifier **2010**,		1

191	Low-Latency Detection of Gravitational Waves **2010**,		3
190	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	2.3	3
189	Observation of optical torsional stiffness in a high optical power cavity. *Applied Physics Letters*, **2009**, 94, 081105	3.4	7
188	Compact vibration isolation and suspension for Australian International Gravitational Observatory: local control system. *Review of Scientific Instruments*, **2009**, 80, 114502	1.7	11
187	Optimizing a direct string magnetic gradiometer for geophysical exploration. *Review of Scientific Instruments*, **2009**, 80, 104705	1.7	7
186	Scattering in sapphire test masses for gravitational wave detectors. *Journal of Optics*, **2009**, 11, 125205		1
185	Low magnetic susceptibility materials and applications in magnetic gradiometry. *Smart Materials and Structures*, **2009**, 18, 095038	3.4	6
184	Suppression of parametric instabilities in future gravitational wave detectors using damping rings. *Classical and Quantum Gravity*, **2009**, 26, 135012	3.3	23
183	Strategies for the control of parametric instability in advanced gravitational wave detectors. *Classical and Quantum Gravity*, **2009**, 26, 015002	3.3	17
182	Are GRB optical afterglows relatively brighter at highz?. *Monthly Notices of the Royal Astronomical Society: Letters*, **2009**, 399, L108-L112	4.3	4
181	Differential readout for a magnetic gradiometer. *Sensors and Actuators A: Physical*, **2009**, 153, 5-12	3.9	1
180	Optical design of the proposed Australian International Gravitational Observatory. *Optics Express*, **2009**, 17, 2149-65	3.3	4
179	Direct measurement of absorption-induced wavefront distortion in high optical power systems. *Applied Optics*, **2009**, 48, 355-64	0.2	11
178	Quantum ground-state cooling and tripartite entanglement with three-mode optoacoustic interactions. *Physical Review A*, **2009**, 79,	2.6	21
177	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	1.7	8
176	Three-mode optoacoustic parametric amplifier: a tool for macroscopic quantum experiments. *Physical Review Letters*, **2009**, 102, 243902	7.4	40
175	Results from a novel direct magnetic gradiometerView all notes. *Exploration Geophysics*, **2009**, 40, 222-226	1	7
174	Feedback control of thermal lensing in a high optical power cavity. *Review of Scientific Instruments*, **2008**, 79, 104501	1.7	5

173	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,	2.6	18
172	Three-mode optoacoustic parametric interactions with a coupled cavity. *Physical Review A*, **2008**, 78,	2.6	10
171	Observation of three-mode parametric interactions in long optical cavities. *Physical Review A*, **2008**, 78,	2.6	29
170	Vacuum system requirement for a 5 km baseline of gravitational-wave detector. *Journal of Physics: Conference Series*, **2008**, 114, 012025	0.3	
169	The Science benefits and preliminary design of the southern hemisphere gravitational wave detector AIGO. *Journal of Physics: Conference Series*, **2008**, 122, 012001	0.3	20
168	Direct string magnetic gradiometer for space applications. *Sensors and Actuators A: Physical*, **2008**, 147, 529-535	3.9	7
167	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	2.9	5
166	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, 1731-41	1.8	14
165	Thermal tuning of optical cavities for parametric instability control. *Journal of the Optical Society of America B: Optical Physics*, **2007**, 24, 1336	1.7	19
164	Description of and Results From a Novel Direct Magnetic Gradiometer. *ASEG Extended Abstracts*, **2007**, 2007, 1-3	0.2	1
163	Identifying deterministic signals in simulated gravitational wave data: algorithmic complexity and the surrogate data method. *Classical and Quantum Gravity*, **2006**, 23, 1801-1814	3.3	1
162	Status of the Australian Consortium for Interferometric Gravitational Astronomy. *Classical and Quantum Gravity*, **2006**, 23, S41-S49	3.3	14
161	Compensation of strong thermal lensing in high-optical-power cavities. *Physical Review Letters*, **2006**, 96, 231101	7.4	32
160	Rayleigh scattering, absorption, and birefringence of large-size bulk single-crystal sapphire. *Applied Optics*, **2006**, 45, 2631-7	1.7	7
159	Superiority of sapphire over silicon test masses regarding thermal noise and thermal lensing for laser interferometers with transmissive optics. *Journal of Physics: Conference Series*, **2006**, 32, 404-412	0.3	2
158	Preliminary investigation on a passive method for parametric instability control in advanced gravitational wave detectors. *Journal of Physics: Conference Series*, **2006**, 32, 251-258	0.3	5
157	Parametric Instability in Advanced Laser Interferometer Gravitational Wave Detectors. *Journal of Physics: Conference Series*, **2006**, 32, 282-287	0.3	3
156	Self-Compensation of Astigmatism in Mode-Cleaners for Advanced Interferometers. *Journal of Physics: Conference Series*, **2006**, 32, 457-463	0.3	2

155	Suspensions with reduced violin string modes. *Journal of Physics: Conference Series*, **2006**, 32, 353-361	0.3	1
154	Gingin High Optical Power Test Facility. *Journal of Physics: Conference Series*, **2006**, 32, 368-373	0.3	19
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