Paul A Altin

List of Publications by Year in Descending Order

108 papers	31,526 citations	52 h-index	117 g-index
117 ext. papers	39,243 ext. citations	6.9 avg, IF	4.92 L-index

#	Paper	IF	Citations
108	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
107	Searches for Continuous Gravitational Waves from Young Supernova Remnants in the Early Third Observing Run of Advanced LIGO and Virgo. *Astrophysical Journal*, **2021**, 921, 80	4.7	10
106	Constraints from LIGO O3 Data on Gravitational-wave Emission Due to R-modes in the Glitching Pulsar PSR J0537–6910. *Astrophysical Journal*, **2021**, 922, 71	4.7	8
105	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
104	Diving below the Spin-down Limit: Constraints on Gravitational Waves from the Energetic Young Pulsar PSR J0537-6910. *Astrophysical Journal Letters*, **2021**, 913, L27	7.9	13
103	Population Properties of Compact Objects from the Second LIGO–Virgo Gravitational-Wave Transient Catalog. *Astrophysical Journal Letters*, **2021**, 913, L7	7.9	194
102	Observation of Gravitational Waves from Two Neutron Star–Black Hole Coalescences. *Astrophysical Journal Letters*, **2021**, 915, L5	7.9	142
101	Constraints on Cosmic Strings Using Data from the Third Advanced LIGO-Virgo Observing Run. *Physical Review Letters*, **2021**, 126, 241102	7.4	21
100	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
99	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
98	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
97	GW190425: Observation of a Compact Binary Coalescence with Total Mass ~ 3.4 M ?. *Astrophysical Journal Letters*, **2020**, 892, L3	7.9	591
96	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
95	A guide to LIGO–Virgo detector noise and extraction of transient gravitational-wave signals. *Classical and Quantum Gravity*, **2020**, 37, 055002	3.3	78
94	Quantum enhanced kHz gravitational wave detector with internal squeezing. *Classical and Quantum Gravity*, **2020**, 37, 07LT02	3.3	6
93	Generation and control of frequency-dependent squeezing via Einstein–Podolsky–Rosen entanglement. *Nature Photonics*, **2020**, 14, 223-226	33.9	13
92	Tunable narrow-linewidth laser at 2 μm wavelength for gravitational wave detector research. *Optics Express*, **2020**, 28, 3280-3288	3.3	11

91	Properties and Astrophysical Implications of the 150 M ? Binary Black Hole Merger GW190521. *Astrophysical Journal Letters*, **2020**, 900, L13	7.9	207
90	Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. *Astrophysical Journal Letters*, **2020**, 902, L21	7.9	32
89	Automatic mode-matching of a Fabry-P□ot cavity with a single photodiode and spatial light modulation. *Journal of Optics (United Kingdom)*, **2020**, 22, 105605	1.7	1
88	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
87	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
86	GW190521: A Binary Black Hole Merger with a Total Mass of 150 M_{?}. *Physical Review Letters*, **2020**, 125, 101102	7.4	420
85	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
84	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	4.7	23
83	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
82	Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO. *Astrophysical Journal*, **2019**, 875, 122	4.7	45
81	Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. *Astrophysical Journal*, **2019**, 875, 160	4.7	60
80	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
79	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
78	Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced LIGO□ Second Observing Run. *Astrophysical Journal*, **2019**, 874, 163	4.7	17
77	Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015□2017 LIGO Data. *Astrophysical Journal*, **2019**, 879, 10	4.7	63
76	Tests of General Relativity with GW170817. *Physical Review Letters*, **2019**, 123, 011102	7.4	204
75	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
74	Search for Subsolar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. *Physical Review Letters*, **2019**, 123, 161102	7.4	68

73	Squeezed vacuum phase control at 2 μm. *Optics Letters*, **2019**, 44, 5386-5389	3	6
72	Constraining the p-Mode-g-Mode Tidal Instability with GW170817. *Physical Review Letters*, **2019**, 122, 061104	7.4	22
71	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
70	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
69	GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. *Physical Review Letters*, **2018**, 120, 091101	7.4	120
68	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
67	First Search for Nontensorial Gravitational Waves from Known Pulsars. *Physical Review Letters*, **2018**, 120, 031104	7.4	50
66	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
65	Continuous parametric feedback cooling of a single atom in an optical cavity. *Physical Review A*, **2018**, 97,	2.6	1
64	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA **2018**, 21, 1		2
63	Search for Subsolar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. *Physical Review Letters*, **2018**, 121, 231103	7.4	49
62	GW170817: Measurements of Neutron Star Radii and Equation of State. *Physical Review Letters*, **2018**, 121, 161101	7.4	867
61	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. *Physical Review Letters*, **2018**, 120, 201102	7.4	60
60	Observation of Squeezed Light in the 2 μm Region. *Physical Review Letters*, **2018**, 120, 203603	7.4	17
59	Exploring the sensitivity of next generation gravitational wave detectors. *Classical and Quantum Gravity*, **2017**, 34, 044001	3.3	454
58	Effects of waveform model systematics on the interpretation of GW150914. *Classical and Quantum Gravity*, **2017**, 34, 104002	3.3	74
57	Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run. *Physical Review Letters*, **2017**, 118, 121101	7.4	137
56	Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. *Physical Review Letters*, **2017**, 118, 121102	7.4	65

55	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. *Astrophysical Journal* , **2017**, 839, 12	4.7	107
54	The basic physics of the binary black hole merger GW150914. *Annalen Der Physik*, **2017**, 529, 1600209	2.6	45
53	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. *Physical Review Letters*, **2017**, 119, 141101	7.4	1270
52	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
51	A gravitational-wave standard siren measurement of the Hubble constant. *Nature*, **2017**, 551, 85-88	50.4	413
50	GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. *Physical Review Letters*, **2017**, 119, 161101	7.4	4272
49	Multi-messenger Observations of a Binary Neutron Star Merger. *Astrophysical Journal Letters*, **2017**, 848, L12	7.9	1935
48	Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. *Astrophysical Journal Letters*, **2017**, 848, L13	7.9	1614
47	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
46	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
45	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. *Astrophysical Journal Letters*, **2017**, 850, L39	7.9	127
44	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. *Physical Review Letters*, **2017**, 118, 221101	7.4	1609
43	On the Progenitor of Binary Neutron Star Merger GW170817. *Astrophysical Journal Letters*, **2017**, 850, L40	7.9	50
42	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. *Astrophysical Journal Letters*, **2017**, 851, L35	7.9	809
41	A robust single-beam optical trap for a gram-scale mechanical oscillator. *Scientific Reports*, **2017**, 7, 14546	4.9	9
40	Interferometric wavefront sensing with a single diode using spatial light modulation. *Applied Optics* , **2017**, 56, 2353-2358	0.2	4
39	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. *Astrophysical Journal Letters*, **2016**, 826, L13	7.9	183
38	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

37	GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. *Physical Review D*, **2016**, 93,	4.9	253
36	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. *Physical Review Letters*, **2016**, 116, 131102	7.4	188
35	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. *Physical Review Letters*, **2016**, 116, 131103	7.4	328
34	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
33	Tests of General Relativity with GW150914. *Physical Review Letters*, **2016**, 116, 221101	7.4	837
32	Properties of the Binary Black Hole Merger GW150914. *Physical Review Letters*, **2016**, 116, 241102	7.4	515
31	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. *Physical Review Letters*, **2016**, 116, 241103	7.4	2136
30	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. *Astrophysical Journal Letters*, **2016**, 818, L22	7.9	512
29	Observation of Gravitational Waves from a Binary Black Hole Merger. *Physical Review Letters*, **2016**, 116, 061102	7.4	6108
28	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. *Classical and Quantum Gravity*, **2016**, 33,	3.3	155
27	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
26	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. *Living Reviews in Relativity*, **2016**, 19, 1	32.5	393
25	THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. *Astrophysical Journal Letters*, **2016**, 833, L1	7.9	209
24	Frequency dependence of thermal noise in gram-scale cantilever flexures. *Physical Review D*, **2015**, 92,	4.9	5
23	Antiresonance phase shift in strongly coupled cavity QED. *Physical Review Letters*, **2014**, 112, 043601	7.4	51
22	A Bose-condensed, simultaneous dual-species Mach–Zehnder atom interferometer. *New Journal of Physics*, **2014**, 16, 073035	2.9	22
21	Bright solitonic matter-wave interferometer. *Physical Review Letters*, **2014**, 113, 013002	7.4	101
20	Atom lasers: Production, properties and prospects for precision inertial measurement. *Physics Reports*, **2013**, 529, 265-296	27.7	75

19	Precision atomic gravimeter based on Bragg diffraction. *New Journal of Physics*, **2013**, 15, 023009	2.9	81
18	Gradient echo memory in an ultra-high optical depth cold atomic ensemble. *New Journal of Physics*, **2013**, 15, 085027	2.9	41
17	Optically guided linear Mach-Zehnder atom interferometer. *Physical Review A*, **2013**, 87,	2.6	30
16	An ultra-high optical depth cold atomic ensemble for quantum memories. *Journal of Physics: Conference Series*, **2013**, 467, 012009	0.3	4
15	From apples to atoms: measuring gravity with ultra cold atomic test masses. *Preview*, **2013**, 2013, 30-33	0.2	1
14	Feasibility of squeezing measurements with cavity-based atom detection. *Physical Review A*, **2012**, 86,	2.6	2
13	11 W narrow linewidth laser source at 780 nm for laser cooling and manipulation of Rubidium. *Optics Express*, **2012**, 20, 8915-9	3.3	62
12	Optically trapped atom interferometry using the clock transition of large87Rb Bose□Einstein condensates. *New Journal of Physics*, **2011**, 13, 065020	2.9	19
11	Optically trapped atom interferometry using the clock transition of large87Rb Bose□Einstein condensates. *New Journal of Physics*, **2011**, 13, 119401	2.9	8
10	Collapse and three-body loss in a 85Rb Bose-Einstein condensate. *Physical Review A*, **2011**, 84,	2.6	37
9	Cold-atom gravimetry with a Bose-Einstein condensate. *Physical Review A*, **2011**, 84,	2.6	81
8	Quantum-projection-noise-limited interferometry with coherent atoms in a Ramsey-type setup. *Physical Review A*, **2010**, 81,	2.6	21
7	Experimental comparison of Raman and rf outcouplers for high-flux atom lasers. *Physical Review A*, **2010**, 81,	2.6	10
6	Measurement of inelastic losses in a sample of ultracold Rb85. *Physical Review A*, **2010**, 81,	2.6	7
5	85Rb tunable-interaction Bose-Einstein condensate machine. *Review of Scientific Instruments*, **2010**, 81, 063103	1.7	33
4	Coherent 455 nm beam production in a cesium vapor. *Optics Letters*, **2009**, 34, 2321-3	3	50
3	A two-state Raman coupler for coherent atom optics. *Optics Express*, **2009**, 17, 2319-25	3.3	10
2	Ramsey interferometry with an atom laser. *Optics Express*, **2009**, 17, 20661-8	3.3	9

1 Search for intermediate-mass black hole binaries in the third observing run of Advanced LIGO and Advanced Virgo. *Astronomy and Astrophysics*, 5.1 4