

Paul A Altin

List of Publications by Year in descending order

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112
papers

46,297
citations

17405

63
h-index

21474

114
g-index

117
all docs

117
docs citations

117
times ranked

17205
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of Gravitational Waves from a Binary Black Hole Merger. Physical Review Letters, 2016, 116, 061102.	2.9	8,753
2	GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. Physical Review Letters, 2017, 119, 161101.	2.9	6,413
3	Multi-messenger Observations of a Binary Neutron Star Merger [*] . Astrophysical Journal Letters, 2017, 848, L12.	3.0	2,805
4	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. Physical Review Letters, 2016, 116, 241103.	2.9	2,701
5	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
6	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
7	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. Physical Review Letters, 2017, 119, 141101.	2.9	1,600
8	GW170817: Measurements of Neutron Star Radii and Equation of State. Physical Review Letters, 2018, 121, 161101.	2.9	1,473
9	Tests of General Relativity with GW150914. Physical Review Letters, 2016, 116, 221101.	2.9	1,224
10	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
11	GW190425: Observation of a Compact Binary Coalescence with Total Mass $\hat{A}^{\sim} 3.4 M_{\odot}$. Astrophysical Journal Letters, 2020, 892, L3.	3.0	1,049
12	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. Astrophysical Journal Letters, 2017, 851, L35.	3.0	968
13	GW190521: A Binary Black Hole Merger with a Total Mass of $\hat{A}^{\sim} 150 M_{\odot}$. Physical Review Letters, 2020, 125, 101102.	3.0	886
14	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
15	Exploring the sensitivity of next generation gravitational wave detectors. Classical and Quantum Gravity, 2017, 34, 044001.	1.5	735
16	A gravitational-wave standard siren measurement of the Hubble constant. Nature, 2017, 551, 85-88.	13.7	674
17	Properties of the Binary Black Hole Merger GW150914. Physical Review Letters, 2016, 116, 241102.	2.9	673
18	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. Astrophysical Journal Letters, 2016, 818, L22.	3.0	633

#	ARTICLE	IF	CITATIONS
19	Binary Black Hole Population Properties Inferred from the First and Second Observing Runs of Advanced LIGO and Advanced Virgo. <i>Astrophysical Journal Letters</i> , 2019, 882, L24.	3.0	566
20	Population Properties of Compact Objects from the Second LIGO–Virgo Gravitational-Wave Transient Catalog. <i>Astrophysical Journal Letters</i> , 2021, 913, L7.	3.0	514
21	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , 2016, 116, 131103.	2.9	466
22	Observation of Gravitational Waves from Two Neutron Star–Black Hole Coalescences. <i>Astrophysical Journal Letters</i> , 2021, 915, L5.	3.0	453
23	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2020, 23, 3.	8.2	447
24	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. <i>Living Reviews in Relativity</i> , 2016, 19, 1.	8.2	427
25	Properties and Astrophysical Implications of the 150 M_{\odot} Binary Black Hole Merger GW190521. <i>Astrophysical Journal Letters</i> , 2020, 900, L13.	3.0	406
26	Tests of General Relativity with GW170817. <i>Physical Review Letters</i> , 2019, 123, 011102.	2.9	370
27	GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. <i>Physical Review D</i> , 2016, 93, .	1.6	315
28	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. <i>Physical Review Letters</i> , 2016, 116, 131102.	2.9	269
29	THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. <i>Astrophysical Journal Letters</i> , 2016, 833, L1.	3.0	230
30	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016, 33, 134001.	1.5	225
31	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. <i>Astrophysical Journal Letters</i> , 2016, 826, L13.	3.0	210
32	Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO’s First Observing Run. <i>Physical Review Letters</i> , 2017, 118, 121101.	2.9	194
33	Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017, 851, L16.	3.0	189
34	A guide to LIGO–Virgo detector noise and extraction of transient gravitational-wave signals. <i>Classical and Quantum Gravity</i> , 2020, 37, 055002.	1.5	188
35	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. <i>Astrophysical Journal Letters</i> , 2019, 876, L7.	3.0	179
36	GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. <i>Physical Review Letters</i> , 2018, 120, 091101.	2.9	166

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37	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L39.	3.0	156
38	UPPER LIMITS ON THE RATES OF BINARY NEUTRON STAR AND NEUTRON STAR-BLACK HOLE MERGERS FROM ADVANCED LIGO'S FIRST OBSERVING RUN. <i>Astrophysical Journal Letters</i> , 2016, 832, L21.	3.0	146
39	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. <i>Astrophysical Journal</i> , 2021, 909, 218.	1.6	144
40	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , 2017, 839, 12.	1.6	131
41	Bright Solitonic Matter-Wave Interferometer. <i>Physical Review Letters</i> , 2014, 113, 013002.	2.9	125
42	Search for Substellar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. <i>Physical Review Letters</i> , 2019, 123, 161102.	2.9	119
43	Model comparison from LIGO-Virgo data on GW170817's binary components and consequences for the merger remnant. <i>Classical and Quantum Gravity</i> , 2020, 37, 045006.	1.5	109
44	Precision atomic gravimeter based on Bragg diffraction. <i>New Journal of Physics</i> , 2013, 15, 023009.	1.2	104
45	Cold-atom gravimetry with a Bose-Einstein condensate. <i>Physical Review A</i> , 2011, 84, .	1.0	103
46	Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , 2017, 34, 104002.	1.5	98
47	Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal</i> , 2019, 875, 160.	1.6	97
48	Effects of data quality vetoes on a search for compact binary coalescences in Advanced LIGO's first observing run. <i>Classical and Quantum Gravity</i> , 2018, 35, 065010.	1.5	94
49	Atom lasers: Production, properties and prospects for precision inertial measurement. <i>Physics Reports</i> , 2013, 529, 265-296.	10.3	89
50	Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015-2017 LIGO Data. <i>Astrophysical Journal</i> , 2019, 879, 10.	1.6	88
51	Constraints on Cosmic Strings Using Data from the Third Advanced LIGO-Virgo Observing Run. <i>Physical Review Letters</i> , 2021, 126, 241102.	2.9	87
52	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018, 120, 201102.	2.9	85
53	Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017, 118, 121102.	2.9	84
54	Search for Substellar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2018, 121, 231103.	2.9	77

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55	11 W narrow linewidth laser source at 780nm for laser cooling and manipulation of Rubidium. Optics Express, 2012, 20, 8915.	1.7	75
56	On the Progenitor of Binary Neutron Star Merger GW170817. Astrophysical Journal Letters, 2017, 850, L40.	3.0	73
57	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
58	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
59	The basic physics of the binary black hole merger GW150914. Annalen Der Physik, 2017, 529, 1600209.	0.9	69
60	First Search for Nontensorial Gravitational Waves from Known Pulsars. Physical Review Letters, 2018, 120, 031104.	2.9	68
61	Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. Astrophysical Journal Letters, 2020, 902, L21.	3.0	65
62	Coherent 455 nm beam production in a cesium vapor. Optics Letters, 2009, 34, 2321.	1.7	64
63	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.	3.0	63
64	Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO. Astrophysical Journal, 2019, 875, 122.	1.6	61
65	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.	1.6	59
66	Antiresonance Phase Shift in Strongly Coupled Cavity QED. Physical Review Letters, 2014, 112, 043601.	2.9	58
67	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
68	Gradient echo memory in an ultra-high optical depth cold atomic ensemble. New Journal of Physics, 2013, 15, 085027.	1.2	49
69	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
70	SUPPLEMENT: "LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914" (2016, ApJL, 826, L13). Astrophysical Journal, Supplement Series, 2016, 225, 8.	3.0	44
71	Collapse and three-body loss in a ^{85}Rb Bose-Einstein condensate. Physical Review A, 2011, 84, .	1.0	43
72	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.	1.6	39

#	ARTICLE	IF	CITATIONS
91	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, .	1.8	20
92	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
93	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.	1.6	15
94	Quantum enhanced kHz gravitational wave detector with internal squeezing. Classical and Quantum Gravity, 2020, 37, 07LT02.	1.5	13
95	A robust single-beam optical trap for a gram-scale mechanical oscillator. Scientific Reports, 2017, 7, 14546.	1.6	12
96	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
97	A two-state Raman coupler for coherent atom optics. Optics Express, 2009, 17, 2319.	1.7	11
98	Ramsey interferometry with an atom laser. Optics Express, 2009, 17, 20661.	1.7	11
99	Experimental comparison of Raman and rf outcouplers for high-flux atom lasers. Physical Review A, 2010, 81, .	1.0	11
100	Optically trapped atom interferometry using the clock transition of large ^{87}Rb Bose–Einstein condensates. New Journal of Physics, 2011, 13, 119401.	1.2	10
101	Measurement of inelastic losses in a sample of ultracold ^{87}Rb . Physical Review A, 2010, 81, .	1.0	8
102	Squeezed vacuum phase control at $2\pi \times 1/4$ m. Optics Letters, 2019, 44, 5386.	1.7	7
103	Interferometric wavefront sensing with a single diode using spatial light modulation. Applied Optics, 2017, 56, 2353.	2.1	7
104	An ultra-high optical depth cold atomic ensemble for quantum memories. Journal of Physics: Conference Series, 2013, 467, 012009.	0.3	5
105	Frequency dependence of thermal noise in gram-scale cantilever flexures. Physical Review D, 2015, 92, .	1.6	5
106	Continuous parametric feedback cooling of a single atom in an optical cavity. Physical Review A, 2018, 97, .	1.0	4
107	Feasibility of squeezing measurements with cavity-based atom detection. Physical Review A, 2012, 86, .	1.0	2
108	From apples to atoms: measuring gravity with ultra cold atomic test masses. Preview, 2013, 2013, 30-33.	0.0	2

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109	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
110	Automatic mode-matching of a Fabry-Pérot cavity with a single photodiode and spatial light modulation. Journal of Optics (United Kingdom), 2020, 22, 105605.	1.0	2
111	Comparing thermal and lasing atomic sources for precision inertial measurement. , 2011, , .		0
112	Parametric feedback cooling of a single atom inside an optical cavity. , 2013, , .		0