

Andrew N Jordan

List of Publications by Year in descending order

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146
papers

6,290
citations

61984

43
h-index

71685

76
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151
all docs

151
docs citations

151
times ranked

2596
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasensitive Beam Deflection Measurement via Interferometric Weak Value Amplification. <i>Physical Review Letters</i> , 2009, 102, 173601.	7.8	611
2	<i>Colloquium</i> : Understanding quantum weak values: Basics and applications. <i>Reviews of Modern Physics</i> , 2014, 86, 307-316.	45.6	478
3	Thermoelectric energy harvesting with quantum dots. <i>Nanotechnology</i> , 2015, 26, 032001.	2.6	254
4	Weak Values and the Leggett-Garg Inequality in Solid-State Qubits. <i>Physical Review Letters</i> , 2008, 100, 026804.	7.8	234
5	Undoing a Weak Quantum Measurement of a Solid-State Qubit. <i>Physical Review Letters</i> , 2006, 97, 166805.	7.8	213
6	Technical Advantages for Weak-Value Amplification: When Less Is More. <i>Physical Review X</i> , 2014, 4, .	8.9	181
7	Optimizing the signal-to-noise ratio of a beam-deflection measurement with interferometric weak values. <i>Physical Review A</i> , 2009, 80, .	2.5	179
8	Mapping the optimal route between two quantum states. <i>Nature</i> , 2014, 511, 570-573.	27.8	163
9	Experimental Violation of Two-Party Leggett-Garg Inequalities with Semiweak Measurements. <i>Physical Review Letters</i> , 2011, 106, 040402.	7.8	148
10	Powerful and efficient energy harvester with resonant-tunneling quantum dots. <i>Physical Review B</i> , 2013, 87, .	3.2	148
11	Stochastic Path Integral Formulation of Full Counting Statistics. <i>Physical Review Letters</i> , 2003, 90, 206801.	7.8	146
12	Precision frequency measurements with interferometric weak values. <i>Physical Review A</i> , 2010, 82, .	2.5	145
13	Rectification of thermal fluctuations in a chaotic cavity heat engine. <i>Physical Review B</i> , 2012, 85, .	3.2	117
14	Continuous phase amplification with a Sagnac interferometer. <i>Physical Review A</i> , 2010, 82, .	2.5	114
15	Optimal adaptive control for quantum metrology with time-dependent Hamiltonians. <i>Nature Communications</i> , 2017, 8, 14695.	12.8	110
16	Experimentally quantifying the advantages of weak-value-based metrology. <i>Physical Review A</i> , 2015, 92, .	2.5	101
17	Conditional statistics of electron transport in interacting nanoscale conductors. <i>Nature Physics</i> , 2007, 3, 243-247.	16.7	94
18	Significance of the imaginary part of the weak value. <i>Physical Review A</i> , 2012, 85, .	2.5	94

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19	Contextual Values of Observables in Quantum Measurements. <i>Physical Review Letters</i> , 2010, 104, 240401.	7.8	90
20	Fluctuation statistics in networks: A stochastic path integral approach. <i>Journal of Mathematical Physics</i> , 2004, 45, 4386-4417.	1.1	88
21	Leggett-Garg Inequality with a Kicked Quantum Pump. <i>Physical Review Letters</i> , 2006, 97, 026805.	7.8	82
22	Efficient Quantum Measurement Engines. <i>Physical Review Letters</i> , 2018, 120, 260601.	7.8	81
23	Chiral Thermoelectrics with Quantum Hall Edge States. <i>Physical Review Letters</i> , 2015, 114, 146801.	7.8	79
24	Correlations of heat and charge currents in quantum-dot thermoelectric engines. <i>New Journal of Physics</i> , 2013, 15, 125001.	2.9	74
25	Experimental Realization of a Quantum Dot Energy Harvester. <i>Physical Review Letters</i> , 2019, 123, 117701.	7.8	69
26	Powerful energy harvester based on resonant-tunneling quantum wells. <i>New Journal of Physics</i> , 2013, 15, 095021.	2.9	66
27	Parity meter for charge qubits: An efficient quantum entangler. <i>Physical Review B</i> , 2006, 73, .	3.2	65
28	Action principle for continuous quantum measurement. <i>Physical Review A</i> , 2013, 88, .	2.5	64
29	Quantum-limited estimation of the axial separation of two incoherent point sources. <i>Optica</i> , 2019, 6, 534.	9.3	64
30	Weak-value amplification and optimal parameter estimation in the presence of correlated noise. <i>Physical Review A</i> , 2017, 96, .	2.5	62
31	Qubit feedback and control with kicked quantum nondemolition measurements: A quantum Bayesian analysis. <i>Physical Review B</i> , 2006, 74, .	3.2	61
32	Heat diode and engine based on quantum Hall edge states. <i>New Journal of Physics</i> , 2015, 17, 075006.	2.9	61
33	Continuous Quantum Measurement with Independent Detector Cross Correlations. <i>Physical Review Letters</i> , 2005, 95, 220401.	7.8	57
34	Interferometric weak value deflections: Quantum and classical treatments. <i>Physical Review A</i> , 2010, 81, .	2.5	55
35	Strengthening weak-value amplification with recycled photons. <i>Physical Review A</i> , 2013, 88, .	2.5	52
36	Entanglement Energetics at Zero Temperature. <i>Physical Review Letters</i> , 2004, 92, 247901.	7.8	50

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37	Stochastic Dynamics of a Josephson Junction Threshold Detector. <i>Physical Review Letters</i> , 2007, 98, 136803.	7.8	50
38	Transport Statistics of Bistable Systems. <i>Physical Review Letters</i> , 2004, 93, 260604.	7.8	49
39	Two-Qubit Engine Fueled by Entanglement and Local Measurements. <i>Physical Review Letters</i> , 2021, 126, 120605.	7.8	48
40	Quantum nondemolition measurement of a kicked qubit. <i>Physical Review B</i> , 2005, 71, .	3.2	46
41	Stochastic path-integral formalism for continuous quantum measurement. <i>Physical Review A</i> , 2015, 92, .	2.5	46
42	Contextual-value approach to the generalized measurement of observables. <i>Physical Review A</i> , 2012, 85, .	2.5	45
43	Optimal measurements for quantum multiparameter estimation with general states. <i>Physical Review A</i> , 2019, 100, .	2.5	45
44	Power-Recycled Weak-Value-Based Metrology. <i>Physical Review Letters</i> , 2015, 114, 170801.	7.8	44
45	Quantum Nernst engines. <i>Europhysics Letters</i> , 2014, 107, 47003.	2.0	40
46	Weak Values are Universal in Von Neumann Measurements. <i>Physical Review Letters</i> , 2012, 109, 230402.	7.8	38
47	Protecting weak measurements against systematic errors. <i>Physical Review A</i> , 2016, 94, .	2.5	36
48	Probe-configuration-dependent dephasing in a mesoscopic interferometer. <i>Physical Review B</i> , 2003, 68, .	3.2	34
49	Thermal transistor and thermometer based on Coulomb-coupled conductors. <i>Physical Review B</i> , 2019, 100, .	3.2	34
50	Entanglement genesis under continuous parity measurement. <i>Physical Review A</i> , 2008, 78, .	2.5	32
51	Uncollapsing the wavefunction by undoing quantum measurements. <i>Contemporary Physics</i> , 2010, 51, 125-147.	1.8	32
52	Quantum Trajectories and Their Statistics for Remotely Entangled Quantum Bits. <i>Physical Review X</i> , 2016, 6, .	8.9	32
53	Anatomy of fluorescence: quantum trajectory statistics from continuously measuring spontaneous emission. <i>Quantum Studies: Mathematics and Foundations</i> , 2016, 3, 237-263.	0.9	29
54	Achieving Optimal Quantum Acceleration of Frequency Estimation Using Adaptive Coherent Control. <i>Physical Review Letters</i> , 2017, 119, 180801.	7.8	29

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55	Arrow of Time for Continuous Quantum Measurement. <i>Physical Review Letters</i> , 2017, 119, 220507.	7.8	29
56	Experimental demonstration of superresolution of partially coherent light sources using parity sorting. <i>Optics Express</i> , 2021, 29, 22034.	3.4	27
57	Three-terminal heat engine and refrigerator based on superlattices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 74, 465-474.	2.7	25
58	Can a Dove prism change the past of a single photon?. <i>Quantum Studies: Mathematics and Foundations</i> , 2015, 2, 255-261.	0.9	25
59	Heisenberg scaling with weak measurement: a quantum state discrimination point of view. <i>Quantum Studies: Mathematics and Foundations</i> , 2015, 2, 5-15.	0.9	25
60	Quantum measurement engines and their relevance for quantum interpretations. <i>Quantum Studies: Mathematics and Foundations</i> , 2020, 7, 203-215.	0.9	25
61	Quantum instruments as a foundation for both states and observables. <i>Physical Review A</i> , 2013, 88, .	2.5	23
62	Rapid estimation of drifting parameters in continuously measured quantum systems. <i>Physical Review A</i> , 2017, 95, .	2.5	23
63	Measuring which-path information with coupled electronic Mach-Zehnder interferometers. <i>Physical Review B</i> , 2012, 85, .	3.2	22
64	Quantum parameter estimation with the Landau-Zener transition. <i>Physical Review A</i> , 2017, 96, .	2.5	22
65	Conditional teleportation of quantum-dot spin states. <i>Nature Communications</i> , 2020, 11, 3022.	12.8	22
66	Ground state entanglement energetics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005, 29, 272-282.	2.7	20
67	Simultaneous continuous measurement of noncommuting observables: Quantum state correlations. <i>Physical Review A</i> , 2018, 97, .	2.5	19
68	Fluctuation theorems for continuous quantum measurements and absolute irreversibility. <i>Physical Review A</i> , 2019, 99, .	2.5	18
69	Experimental demonstration of continuous quantum error correction. <i>Nature Communications</i> , 2022, 13, 2307.	12.8	18
70	Efficiently fueling a quantum engine with incompatible measurements. <i>Physical Review E</i> , 2022, 105, 044137.	2.1	18
71	Effective thermodynamics of strongly coupled qubits. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 385003.	2.1	17
72	Sufficient conditions for uniqueness of the weak value. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 015304.	2.1	17

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73	Precision optical displacement measurements using biphotons. <i>Physical Review A</i> , 2016, 93, .	2.5	16
74	Variational Principle for Optimal Quantum Controls in Quantum Metrology. <i>Physical Review Letters</i> , 2022, 128, 160505.	7.8	16
75	Energy measurements and preparation of canonical phase states of a nano-mechanical resonator. <i>Europhysics Letters</i> , 2008, 82, 18003.	2.0	15
76	Operational approach to indirectly measuring the tunneling time. <i>Physical Review A</i> , 2013, 88, .	2.5	15
77	Prediction and characterization of multiple extremal paths in continuously monitored qubits. <i>Physical Review A</i> , 2017, 95, .	2.5	15
78	Gap theory of rectification in ballistic three-terminal conductors. <i>Physical Review B</i> , 2008, 77, .	3.2	14
79	Electrical current from quantum vacuum fluctuations in nanoengines. <i>Physical Review B</i> , 2015, 92, .	3.2	14
80	Superconducting Quantum Refrigerator: Breaking and Rejoining Cooper Pairs with Magnetic Field Cycles. <i>Physical Review Applied</i> , 2019, 11, .	3.8	14
81	Realization of an All-Optical Zero to \hbar Cross-Phase Modulation Jump. <i>Physical Review Letters</i> , 2009, 102, 013902.	7.8	13
82	Confocal super-resolution microscopy based on a spatial mode sorter. <i>Optics Express</i> , 2021, 29, 11784.	3.4	13
83	Quantum measurement arrow of time and fluctuation relations for measuring spin of ultracold atoms. <i>Nature Communications</i> , 2021, 12, 1847.	12.8	13
84	Effect of incoherent scattering on three-terminal quantum Hall thermoelectrics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 75, 86-92.	2.7	12
85	Linear feedback stabilization of a dispersively monitored qubit. <i>Physical Review A</i> , 2017, 96, .	2.5	12
86	Enhanced Weak-Value Amplification via Photon Recycling. <i>Physical Review Letters</i> , 2021, 126, 220801.	7.8	12
87	Autonomous quantum absorption refrigerators. <i>Physical Review B</i> , 2020, 102, .	3.2	12
88	Mesoscopic threshold detectors: Telegraphing the size of a fluctuation. <i>Physical Review B</i> , 2005, 72, .	3.2	11
89	Weak values are quantum: you can bet on it. <i>Quantum Studies: Mathematics and Foundations</i> , 2016, 3, 1-4.	0.9	11
90	Measuring fluorescence to track a quantum emitter's state: a theory review. <i>Contemporary Physics</i> , 2020, 61, 26-50.	1.8	11

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91	Weak-measurement theory of quantum-dot spin qubits. <i>Physical Review B</i> , 2007, 76, .	3.2	10
92	Andreev reflections and the quantum physics of black holes. <i>Physical Review D</i> , 2017, 96, .	4.7	10
93	Super-Heisenberg scaling in Hamiltonian parameter estimation in the long-range Kitaev chain. <i>Physical Review Research</i> , 2022, 4, .	3.6	10
94	Gravitational redshift and deflection of slow light. <i>Physical Review A</i> , 2009, 79, .	2.5	9
95	Chaos in continuously monitored quantum systems: An optimal-path approach. <i>Physical Review A</i> , 2018, 98, .	2.5	9
96	Stochastic thermodynamic cycles of a mesoscopic thermoelectric engine. <i>Physical Review B</i> , 2021, 103, .	3.2	9
97	Minimal two-body quantum absorption refrigerator. <i>Physical Review B</i> , 2021, 104, .	3.2	9
98	Always-On Quantum Error Tracking with Continuous Parity Measurements. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 4, 358.	0.0	9
99	Enhanced on-chip phase measurement by inverse weak value amplification. <i>Nature Communications</i> , 2021, 12, 6247.	12.8	9
100	Fluctuation statistics of mesoscopic Bose-Einstein condensates: Reconciling the master equation with the partition function to reexamine the Uhlenbeck-Einstein dilemma. <i>Physical Review A</i> , 2006, 74, .	2.5	8
101	Time reversal symmetry of generalized quantum measurements with past and future boundary conditions. <i>Quantum Studies: Mathematics and Foundations</i> , 2019, 6, 241-268.	0.9	8
102	An Interaction-Free Quantum Measurement-Driven Engine. <i>Foundations of Physics</i> , 2020, 50, 1294-1314.	1.3	8
103	Watching the wavefunction collapse. <i>Nature</i> , 2013, 502, 177-178.	27.8	6
104	Noise suppression in inverse weak value-based phase detection. <i>Quantum Studies: Mathematics and Foundations</i> , 2018, 5, 579-588.	0.9	6
105	Quantum state tomography with time-continuous measurements: reconstruction with resource limitations. <i>Quantum Studies: Mathematics and Foundations</i> , 2020, 7, 23-47.	0.9	6
106	Black holes as Andreev reflecting mirrors. <i>Physical Review D</i> , 2020, 102, .	4.7	6
107	Stochastic Path-Integral Analysis of the Continuously Monitored Quantum Harmonic Oscillator. <i>PRX Quantum</i> , 2022, 3, .	9.2	6
108	Bosons falling into a black hole: A superfluid analogue. <i>Physical Review D</i> , 2018, 98, .	4.7	5

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109	Nonequilibrium steady state and heat transport in nonlinear open quantum systems: Stochastic influence action and functional perturbative analysis. <i>Annals of Physics</i> , 2020, 421, 168289.	2.8	5
110	Entanglement-preserving limit cycles from sequential quantum measurements and feedback. <i>Physical Review A</i> , 2020, 102, .	2.5	5
111	Continuous measurement of a qudit using dispersively coupled radiation. <i>Physical Review A</i> , 2022, 105, .	2.5	4
112	Classical-quantum sensors keep better time. <i>Science</i> , 2017, 356, 802-803.	12.6	3
113	Gravitational sensing with weak value based optical sensors. <i>Quantum Studies: Mathematics and Foundations</i> , 2019, 6, 169-180.	0.9	3
114	Entanglement energetics in the ground state. <i>Journal of Modern Optics</i> , 2004, 51, 2405-2414.	1.3	2
115	Achieving the Threshold Regime with an Overscreened Josephson Junction. <i>Physical Review Letters</i> , 2009, 102, 086806.	7.8	2
116	Decay of a metastable state activated by non-Gaussian noise: A critical review of the generalized Kramers problem. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 550-554.	2.7	2
117	Superresolution using supergrowth and intensity contrast imaging. <i>Quantum Studies: Mathematics and Foundations</i> , 2020, 7, 285-292.	0.9	2
118	Entanglement of a pair of quantum emitters via continuous fluorescence measurements: a tutorial. <i>Advances in Optics and Photonics</i> , 2021, 13, 517.	25.5	2
119	Some Like It Hot. <i>Inference</i> , 2019, 5, .	0.0	2
120	Reprint of : Effect of incoherent scattering on three-terminal quantum Hall thermoelectrics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 82, 359-365.	2.7	1
121	Reprint of : Three-terminal heat engine and refrigerator based on superlattices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 82, 314-324.	2.7	1
122	Diffraction-based interaction-free measurements. <i>Quantum Studies: Mathematics and Foundations</i> , 2020, 7, 145-153.	0.9	1
123	Quantum system dynamics with a weakly nonlinear Josephson junction bath. <i>Physical Review B</i> , 2021, 103, .	3.2	1
124	Thermal control across a chain of electronic nanocavities. <i>Physical Review B</i> , 2021, 104, .	3.2	1
125	Uncollapsing the wavefunction. , 2007, , .		1
126	Spooky Work at a Distance: An Interaction-Free Quantum Measurement Driven Engine. , 2019, , .		1

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127	Near Quantum Limited Optical Phase Measurements on a Dark Fringe. , 2010, , .		1
128	Enhanced on-chip frequency measurement using weak value amplification. Optics Express, 2022, 30, 3700.	3.4	1
129	Transport statistics in bistable systems: a stochastic path integral approach (Invited Paper). , 2005, 5843, 80.		0
130	Mesoscopic Threshold Detectors of Shot Noise. AIP Conference Proceedings, 2007, , .	0.4	0
131	A Weak Value Inequality as a Test for Local Realism. , 2010, , .		0
132	Contextual values as a foundation for a unique Weak Value. , 2011, , .		0
133	Increasing Weak Measurement SNR with Recycling. , 2014, , .		0
134	Janus sequences of quantum measurements and the arrow of time. AIP Conference Proceedings, 2017, , .	0.4	0
135	Weak values and the Leggett-Garg inequality in solid-state qubits. , 2008, , .		0
136	Deflection Measurements with Weak Values. , 2010, , .		0
137	Experimental Violation of a Non-Local Leggett-Garg Inequality using Non-Local Weak Measurements. , 2010, , .		0
138	Weak Values: The Progression from Quantum Foundations to Tool. , 2014, , 259-278.		0
139	Experimentally Quantifying the Advantages of Weak-Values-Based Metrology. , 2015, , .		0
140	Multiple Most-Likely Path Solutions for Continuously Monitored, Driven Qubits. , 2016, , .		0
141	Odd Man Out. Inference, 2017, 3, .	0.0	0
142	Woit's Way. Inference, 2018, 4, .	0.0	0
143	Superresolution using parity sorting with partially coherent light. , 2019, , .		0
144	Time dependent metrology: improving precision through coherent control. , 2019, , .		0

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145	High Temperature Superconductivity. Inference, 2019, 5, .	0.0	0
146	Enhanced On-Chip Phase Measurement by Weak Value Amplification. , 2020, , .		0