

Edward A Laird

List of Publications by Year in descending order

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35
papers

4,609
citations

331670

21
h-index

377865

34
g-index

37
all docs

37
docs citations

37
times ranked

3707
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherent Manipulation of Coupled Electron Spins in Semiconductor Quantum Dots. <i>Science</i> , 2005, 309, 2180-2184.	12.6	2,674
2	Quantum transport in carbon nanotubes. <i>Reviews of Modern Physics</i> , 2015, 87, 703-764.	45.6	292
3	Coherent spin manipulation in an exchange-only qubit. <i>Physical Review B</i> , 2010, 82, .	3.2	203
4	Hyperfine-Mediated Gate-Driven Electron Spin Resonance. <i>Physical Review Letters</i> , 2007, 99, 246601.	7.8	173
5	First results from MAST. <i>Nuclear Fusion</i> , 2001, 41, 1423-1433.	3.5	130
6	A valleyâ€“spin qubit in a carbon nanotube. <i>Nature Nanotechnology</i> , 2013, 8, 565-568.	31.5	119
7	Large spin-orbit coupling in carbon nanotubes. <i>Nature Communications</i> , 2013, 4, 1573.	12.8	109
8	Valleyâ€“spin blockade and spin resonance in carbon nanotubes. <i>Nature Nanotechnology</i> , 2012, 7, 630-634.	31.5	103
9	A High Quality Factor Carbon Nanotube Mechanical Resonator at 39 GHz. <i>Nano Letters</i> , 2012, 12, 193-197.	9.1	101
10	Measurement of Temporal Correlations of the Overhauser Field in a Double Quantum Dot. <i>Physical Review Letters</i> , 2008, 101, 236803.	7.8	95
11	Charge-State Conditional Operation of a Spin Qubit. <i>Physical Review Letters</i> , 2011, 107, 030506.	7.8	79
12	Effect of Exchange Interaction on Spin Dephasing in a Double Quantum Dot. <i>Physical Review Letters</i> , 2006, 97, 056801.	7.8	68
13	A coherent nanomechanical oscillator driven by single-electron tunnelling. <i>Nature Physics</i> , 2020, 16, 75-82.	16.7	55
14	Sensitive Radio-Frequency Measurements of a Quantum Dot by Tuning to Perfect Impedance Matching. <i>Physical Review Applied</i> , 2016, 5, .	3.8	44
15	Machine learning enables completely automatic tuning of a quantum device faster than human experts. <i>Nature Communications</i> , 2020, 11, 4161.	12.8	42
16	Efficiently measuring a quantum device using machine learning. <i>Npj Quantum Information</i> , 2019, 5, .	6.7	39
17	Strong Coupling of Microwave Photons to Antiferromagnetic Fluctuations in an Organic Magnet. <i>Physical Review Letters</i> , 2017, 119, 147701.	7.8	38
18	A new mechanism of electric dipole spin resonance: hyperfine coupling in quantum dots. <i>Semiconductor Science and Technology</i> , 2009, 24, 064004.	2.0	34

#	ARTICLE	IF	CITATIONS
19	Resonant Optomechanics with a Vibrating Carbon Nanotube and a Radio-Frequency Cavity. <i>Physical Review Letters</i> , 2016, 117, 170801.	7.8	32
20	Displacemon Electromechanics: How to Detect Quantum Interference in a Nanomechanical Resonator. <i>Physical Review X</i> , 2018, 8, .	8.9	27
21	Measuring the Thermodynamic Cost of Timekeeping. <i>Physical Review X</i> , 2021, 11, .	8.9	26
22	Spin Resonance Clock Transition of the Endohedral Fullerene N	7.8	20
23	Circuit Quantum Electrodynamics with Carbon-Nanotube-Based Superconducting Quantum Circuits. <i>Physical Review Applied</i> , 2021, 15, .	3.8	16
24	Sensitive radiofrequency readout of quantum dots using an ultra-low-noise SQUID amplifier. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	15
25	Electrically driven spin resonance in a bent disordered carbon nanotube. <i>Physical Review B</i> , 2014, 90, .	3.2	13
26	Photon-assisted tunneling and charge dephasing in a carbon nanotube double quantum dot. <i>Physical Review B</i> , 2016, 93, .	3.2	13
27	Hyperfine and Spin-Orbit Coupling Effects on Decay of Spin-Valley States in a Carbon Nanotube. <i>Physical Review Letters</i> , 2017, 118, 177701.	7.8	11
28	Radio-frequency optomechanical characterization of a silicon nitride drum. <i>Scientific Reports</i> , 2020, 10, 1654.	3.3	10
29	Measuring carbon nanotube vibrations using a single-electron transistor as a fast linear amplifier. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	8
30	Nongalvanic Calibration and Operation of a Quantum Dot Thermometer. <i>Physical Review Applied</i> , 2021, 15, .	3.8	6
31	Preparing, manipulating, and measuring quantum states on a chip. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006, 35, 251-256.	2.7	5
32	Can the displacemon device test objective collapse models?. <i>AVS Quantum Science</i> , 2021, 3, 045603.	4.9	4
33	Conditioned spin and charge dynamics of a single-electron quantum dot. <i>Physical Review A</i> , 2017, 96, .	2.5	3
34	Keeping perfect time with caged atoms. <i>IEEE Spectrum</i> , 2017, 54, 34-39.	0.7	2
35	Radio-frequency characterization of a supercurrent transistor made of a carbon nanotube. <i>Materials for Quantum Technology</i> , 2021, 1, 035003.	3.1	0