

Matthew G House

List of Publications by Year in descending order

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31
papers

1,126
citations

393982

19
h-index

433756

31
g-index

32
all docs

32
docs citations

32
times ranked

1186
citing authors

#	ARTICLE	IF	CITATIONS
1	A surface code quantum computer in silicon. <i>Science Advances</i> , 2015, 1, e1500707.	4.7	193
2	Measurement of the Spin Relaxation Time of Single Electrons in a Silicon Metal-Oxide-Semiconductor-Based Quantum Dot. <i>Physical Review Letters</i> , 2010, 104, 096801.	2.9	107
3	Theoretical Models for the Mechanisms of Benign Paroxysmal Positional Vertigo. <i>Audiology and Neuro-Otology</i> , 2003, 8, 91-99.	0.6	94
4	Analytic model for electrostatic fields in surface-electrode ion traps. <i>Physical Review A</i> , 2008, 78, .	1.0	85
5	Two-electron spin correlations in precision placed donors in silicon. <i>Nature Communications</i> , 2018, 9, 980.	5.8	57
6	Spin read-out in atomic qubits in an all-epitaxial three-dimensional transistor. <i>Nature Nanotechnology</i> , 2019, 14, 137-140.	15.6	50
7	Radio frequency measurements of tunnel couplings and singlet-triplet spin states in Si:P quantum dots. <i>Nature Communications</i> , 2015, 6, 8848.	5.8	49
8	High-Fidelity Rapid Initialization and Read-Out of an Electron Spin via the Single Donor Charge State. <i>Physical Review Letters</i> , 2015, 115, 166806.	2.9	48
9	Single-Shot Single-Gate rf Spin Readout in Silicon. <i>Physical Review X</i> , 2018, 8, .	2.8	47
10	Engineering long spin coherence times of spin-orbit qubits in silicon. <i>Nature Materials</i> , 2021, 20, 38-42.	13.3	40
11	Addressable electron spin resonance using donors and donor molecules in silicon. <i>Science Advances</i> , 2018, 4, eaaq1459.	4.7	36
12	Parallel spin filling and energy spectroscopy in few-electron Si metal-on-semiconductor-based quantum dots. <i>Applied Physics Letters</i> , 2010, 97, 032103.	1.5	35
13	High-Fidelity Single-Shot Singlet-Triplet Readout of Precision-Placed Donors in Silicon. <i>Physical Review Letters</i> , 2017, 119, 046802.	2.9	34
14	High-Sensitivity Charge Detection with a Single-Lead Quantum Dot for Scalable Quantum Computation. <i>Physical Review Applied</i> , 2016, 6, .	1.5	30
15	Mechanism of Posterior Semicircular Canal Stimulation in Patients with Benign Paroxysmal Positional Vertigo. <i>Acta Oto-Laryngologica</i> , 2001, 121, 234-240.	0.3	28
16	Coherent control of a donor-molecule electron spin qubit in silicon. <i>Nature Communications</i> , 2021, 12, 3323.	5.8	27
17	Readout and control of the spin-orbit states of two coupled acceptor atoms in a silicon transistor. <i>Science Advances</i> , 2018, 4, eaat9199.	4.7	26
18	Radio frequency reflectometry and charge sensing of a precision placed donor in silicon. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	22

#	ARTICLE	IF	CITATIONS
19	Probing the Quantum States of a Single Atom Transistor at Microwave Frequencies. ACS Nano, 2017, 11, 2444-2451.	7.3	19
20	Single-charge detection by an atomic precision tunnel junction. Applied Physics Letters, 2014, 104, .	1.5	16
21	Tunneling Statistics for Analysis of Spin-Readout Fidelity. Physical Review Applied, 2017, 8, .	1.5	16
22	Detection and Measurement of Spin-Dependent Dynamics in Random Telegraph Signals. Physical Review Letters, 2013, 111, 126803.	2.9	12
23	Quantum dot spectroscopy using a single phosphorus donor. Physical Review B, 2015, 92, .	1.1	10
24	Characterization of a Scalable Donor-Based Singlet-Triplet Qubit Architecture in Silicon. Nano Letters, 2018, 18, 4081-4085.	4.5	10
25	Fabrication and characterization of a silicon metal-oxide-semiconductor based triple quantum dot. Applied Physics Letters, 2012, 100, .	1.5	9
26	Analysis of electron tunneling events with the hidden Markov model. Physical Review B, 2009, 80, .	1.1	7
27	Non-equilibrium charge stability diagrams of a silicon double quantum dot. Applied Physics Letters, 2011, 99, 112116.	1.5	7
28	Resonant tunneling spectroscopy of valley eigenstates on a donor-quantum dot coupled system. Applied Physics Letters, 2016, 108, 152102.	1.5	6
29	Effect of sheared toroidal rotation on ion temperature gradient turbulence and resistive kink stability in a large aspect ratio tokamak. Physics of Plasmas, 2001, 8, 4849-4855.	0.7	3
30	Singlet-triplet minus mixing and relaxation lifetimes in a double donor dot. Applied Physics Letters, 2018, 112, 243105.	1.5	2
31	Technique for frequency analysis of unevenly sampled radar data. , 0, , .		0