

Ferdinand Kuemmeth

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45
papers

3,778
citations

28
h-index

48
g-index

48
ext. papers

4,521
ext. citations

12.7
avg, IF

5.33
L-index

#	Paper	IF	Citations
45	Exponential protection of zero modes in Majorana islands. <i>Nature</i> , 2016 , 531, 206-9	50.4	675
44	Coupling of spin and orbital motion of electrons in carbon nanotubes. <i>Nature</i> , 2008 , 452, 448-52	50.4	467
43	Hard gap in epitaxial semiconductor-superconductor nanowires. <i>Nature Nanotechnology</i> , 2015 , 10, 232-628.7	28.7	259
42	Quantum transport in carbon nanotubes. <i>Reviews of Modern Physics</i> , 2015 , 87, 703-764	40.5	229
41	Semiconductor-Nanowire-Based Superconducting Qubit. <i>Physical Review Letters</i> , 2015 , 115, 127001	7.4	187
40	Hole spin relaxation in Ge-Si core-shell nanowire qubits. <i>Nature Nanotechnology</i> , 2011 , 7, 47-50	28.7	151
39	Noise Suppression Using Symmetric Exchange Gates in Spin Qubits. <i>Physical Review Letters</i> , 2016 , 116, 116801	7.4	145
38	Electron-Nuclear interaction in ¹³ C nanotube double quantum dots. <i>Nature Physics</i> , 2009 , 5, 321-326	16.2	139
37	Parity lifetime of bound states in a proximitized semiconductor nanowire. <i>Nature Physics</i> , 2015 , 11, 1017-1021	16.2	129
36	Metal-nanoparticle single-electron transistors fabricated using electromigration. <i>Applied Physics Letters</i> , 2004 , 84, 3154-3156	3.4	127
35	Relaxation and dephasing in a two-electron ¹³ C nanotube double quantum dot. <i>Physical Review Letters</i> , 2009 , 102, 166802	7.4	110
34	Imaging electromigration during the formation of break junctions. <i>Nano Letters</i> , 2007 , 7, 652-6	11.5	106
33	Measurement of discrete energy-level spectra in individual chemically synthesized gold nanoparticles. <i>Nano Letters</i> , 2008 , 8, 4506-12	11.5	72
32	Superconducting gatemon qubit based on a proximitized two-dimensional electron gas. <i>Nature Nanotechnology</i> , 2018 , 13, 915-919	28.7	68
31	Observation and spectroscopy of a two-electron Wigner molecule in an ultraclean carbon nanotube. <i>Nature Physics</i> , 2013 , 9, 576-581	16.2	63
30	Transport Signatures of Quasiparticle Poisoning in a Majorana Island. <i>Physical Review Letters</i> , 2017 , 118, 137701	7.4	62
29	Hole spin coherence in a Ge/Si heterostructure nanowire. <i>Nano Letters</i> , 2014 , 14, 3582-6	11.5	61

28	Carbon nanotubes for coherent spintronics. <i>Materials Today</i> , 2010 , 13, 18-26	21.8	60
27	Notch filtering the nuclear environment of a spin qubit. <i>Nature Nanotechnology</i> , 2017 , 12, 16-20	28.7	55
26	Anisotropic magnetoresistance and anisotropic tunneling magnetoresistance due to quantum interference in ferromagnetic metal break junctions. <i>Physical Review Letters</i> , 2006 , 97, 127202	7.4	54
25	Nanometer-scale scanning sensors fabricated using stencil lithography. <i>Applied Physics Letters</i> , 2003 , 82, 1111-1113	3.4	50
24	From ballistic transport to tunneling in electromigrated ferromagnetic breakjunctions. <i>Nano Letters</i> , 2006 , 6, 123-7	11.5	49
23	Gatemon Benchmarking and Two-Qubit Operations. <i>Physical Review Letters</i> , 2016 , 116, 150505	7.4	46
22	Spectrum of the Nuclear Environment for GaAs Spin Qubits. <i>Physical Review Letters</i> , 2017 , 118, 177702	7.4	40
21	Semiconductor qubits in practice. <i>Nature Reviews Physics</i> , 2021 , 3, 157-177	23.6	38
20	Coherent operations and screening in multielectron spin qubits. <i>Physical Review Letters</i> , 2014 , 112, 026804	9.1	36
19	Antilocalization of Coulomb Blockade in a Ge/Si Nanowire. <i>Physical Review Letters</i> , 2014 , 112,	7.4	33
18	Spin-orbit effects in carbon-nanotube double quantum dots. <i>Physical Review B</i> , 2010 , 82,	3.3	32
17	Anharmonicity of a superconducting qubit with a few-mode Josephson junction. <i>Physical Review B</i> , 2018 , 97,	3.3	27
16	Fast spin exchange across a multielectron mediator. <i>Nature Communications</i> , 2019 , 10, 1196	17.4	25
15	Giant spin rotation under quasiparticle-photoelectron conversion: Joint effect of sublattice interference and spin-orbit coupling. <i>Physical Review B</i> , 2009 , 80,	3.3	23
14	Symmetric operation of the resonant exchange qubit. <i>Physical Review B</i> , 2017 , 96,	3.3	21
13	Filter function formalism beyond pure dephasing and non-Markovian noise in singlet-triplet qubits. <i>Physical Review B</i> , 2016 , 93,	3.3	19
12	Temperature dependence of anisotropic magnetoresistance and atomic rearrangements in ferromagnetic metal break junctions. <i>Physical Review B</i> , 2007 , 76,	3.3	15
11	Voltage-controlled superconducting quantum bus. <i>Physical Review B</i> , 2019 , 99,	3.3	14

10	Negative Spin Exchange in a Multielectron Quantum Dot. <i>Physical Review Letters</i> , 2017 , 119, 227701	7.4	14
9	Single-electron operations in a foundry-fabricated array of quantum dots. <i>Nature Communications</i> , 2020 , 11, 6399	17.4	14
8	Spin of a Multielectron Quantum Dot and Its Interaction with a Neighboring Electron. <i>Physical Review X</i> , 2018 , 8,	9.1	13
7	Fast Charge Sensing of Si/SiGe Quantum Dots via a High-Frequency Accumulation Gate. <i>Nano Letters</i> , 2019 , 19, 5628-5633	11.5	12
6	Roadmap on quantum nanotechnologies. <i>Nanotechnology</i> , 2021 , 32, 162003	3.4	12
5	Radio-Frequency Methods for Majorana-Based Quantum Devices: Fast Charge Sensing and Phase-Diagram Mapping. <i>Physical Review Applied</i> , 2019 , 11,	4.3	9
4	Parity-Protected Superconductor-Semiconductor Qubit. <i>Physical Review Letters</i> , 2020 , 125, 056801	7.4	9
3	Gate reflectometry for probing charge and spin states in linear Si MOS split-gate arrays 2019 ,		5
2	Simultaneous Operations in a Two-Dimensional Array of Singlet-Triplet Qubits. <i>PRX Quantum</i> , 2021 , 2,	6.1	3
1	Protected solid-state qubits. <i>Applied Physics Letters</i> , 2021 , 119, 260502	3.4	0