

Amir Sammak

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7074176/publications.pdf>

Version: 2024-02-01

30
papers

2,082
citations

331670

21
h-index

526287

27
g-index

30
all docs

30
docs citations

30
times ranked

1222
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong spin-photon coupling in silicon. <i>Science</i> , 2018, 359, 1123-1127.	12.6	278
2	A four-qubit germanium quantum processor. <i>Nature</i> , 2021, 591, 580-585.	27.8	213
3	Quantum logic with spin qubits crossing the surface code threshold. <i>Nature</i> , 2022, 601, 343-347.	27.8	199
4	Fast universal quantum gate above the fault-tolerance threshold in silicon. <i>Nature</i> , 2022, 601, 338-342.	27.8	190
5	Fast two-qubit logic with holes in germanium. <i>Nature</i> , 2020, 577, 487-491.	27.8	181
6	CMOS-based cryogenic control of silicon quantum circuits. <i>Nature</i> , 2021, 593, 205-210.	27.8	136
7	Rapid gate-based spin read-out in silicon using an on-chip resonator. <i>Nature Nanotechnology</i> , 2019, 14, 742-746.	31.5	112
8	A single-hole spin qubit. <i>Nature Communications</i> , 2020, 11, 3478.	12.8	104
9	Gate-controlled quantum dots and superconductivity in planar germanium. <i>Nature Communications</i> , 2018, 9, 2835.	12.8	101
10	Quantum dot arrays in silicon and germanium. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	82
11	Shallow and Undoped Germanium Quantum Wells: A Playground for Spin and Hybrid Quantum Technology. <i>Advanced Functional Materials</i> , 2019, 29, 1807613.	14.9	81
12	Light effective hole mass in undoped Ge/SiGe quantum wells. <i>Physical Review B</i> , 2019, 100, .	3.2	47
13	19.1 A Scalable Cryo-CMOS 2-to-20GHz Digitally Intensive Controller for 4Å–32 Frequency Multiplexed Spin Qubits/Transmons in 22nm FinFET Technology for Quantum Computers. , 2020, , .		47
14	Germanium Quantum-Well Josephson Field-Effect Transistors and Interferometers. <i>Nano Letters</i> , 2019, 19, 1023-1027.	9.1	44
15	Coherent Spin-Spin Coupling Mediated by Virtual Microwave Photons. <i>Physical Review X</i> , 2022, 12, .	8.9	38
16	Low percolation density and charge noise with holes in germanium. <i>Materials for Quantum Technology</i> , 2021, 1, 011002.	3.1	31
17	Spin Relaxation Benchmarks and Individual Qubit Addressability for Holes in Quantum Dots. <i>Nano Letters</i> , 2020, 20, 7237-7242.	9.1	29
18	A two-dimensional array of single-hole quantum dots. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	26

#	ARTICLE	IF	CITATIONS
19	Enhancement of proximity-induced superconductivity in a planar Ge hole gas. Physical Review Research, 2021, 3, .	3.6	23
20	Ballistic supercurrent discretization and micrometer-long Josephson coupling in germanium. Physical Review B, 2019, 99, .	3.2	22
21	Multiplexed quantum transport using commercial off-the-shelf CMOS at sub-kelvin temperatures. Npj Quantum Information, 2020, 6, .	6.7	22
22	Lightly strained germanium quantum wells with hole mobility exceeding one million. Applied Physics Letters, 2022, 120, .	3.3	22
23	On-Chip Microwave Filters for High-Impedance Resonators with Gate-Defined Quantum Dots. Physical Review Applied, 2020, 14, .	3.8	19
24	Effect of Quantum Hall Edge Strips on Valley Splitting in Silicon Quantum Wells. Physical Review Letters, 2020, 125, 186801.	7.8	10
25	On-chip integration of Si/SiGe-based quantum dots and switched-capacitor circuits. Applied Physics Letters, 2020, 117, .	3.3	8
26	Wafer-scale low-disorder 2DEG in 28Si/SiGe without an epitaxial Si cap. Applied Physics Letters, 2022, 120, .	3.3	7
27	Vanishing Zeeman energy in a two-dimensional hole gas. Physical Review B, 2020, 102, .	3.2	5
28	A High-Mobility Hole Bilayer in a Germanium Double Quantum Well. Advanced Quantum Technologies, 0, , 2100167.	3.9	3
29	Single-hole pump in germanium. Journal Physics D: Applied Physics, 2021, 54, 434001.	2.8	2
30	Embedding Silicon Spin Qubits in Superconducting Circuits. , 2019, , .		0