Adam N Mccaughan

List of Publications by Year
in descending order

22	773	687363 13	794594 19
papers	citations	h-index	g-index

23	23	23	896
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Single-photon imager based on a superconducting nanowire delay line. Nature Photonics, 2017, 11, 247-251.	31.4	127
2	A Superconducting-Nanowire Three-Terminal Electrothermal Device. Nano Letters, 2014, 14, 5748-5753.	9.1	116
3	Universal scaling of the critical temperature for thin films near the superconducting-to-insulating transition. Physical Review B, 2014, 90, .	3.2	70
4	All-silicon light-emitting diodes waveguide-integrated with superconducting single-photon detectors. Applied Physics Letters, 2017, 111, .	3.3	66
5	Superconducting optoelectronic loop neurons. Journal of Applied Physics, 2019, 126, .	2.5	51
6	Bias sputtered NbN and superconducting nanowire devices. Applied Physics Letters, 2017, 111, .	3.3	46
7	Circuit designs for superconducting optoelectronic loop neurons. Journal of Applied Physics, 2018, 124, .	2.5	41
8	A compact superconducting nanowire memory element operated by nanowire cryotrons. Superconductor Science and Technology, 2018, 31, 035009.	3.5	40
9	Microwave dynamics of high aspect ratio superconducting nanowires studied using self-resonance. Journal of Applied Physics, 2016, 119, .	2.5	37
10	A nanocryotron comparator can connect single-flux-quantum circuits to conventional electronics. Superconductor Science and Technology, 2017, 30, 044002.	3.5	36
11	Fabrication Process Yielding Saturated Nanowire Single-Photon Detectors With 24-ps Jitter. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 1-7.	2.9	27
12	Using Geometry To Sense Current. Nano Letters, 2016, 16, 7626-7631.	9.1	25
13	Frequency Pulling and Mixing of Relaxation Oscillations in Superconducting Nanowires. Physical Review Applied, 2018, 9, .	3.8	17
14	Eight-fold signal amplification of a superconducting nanowire single-photon detector using a multiple-avalanche architecture. Optics Express, 2014, 22, 24574.	3.4	12
15	nanoSQUID operation using kinetic rather than magnetic induction. Scientific Reports, 2016, 6, 28095.	3.3	12
16	Readout architectures for superconducting nanowire single photon detectors. Superconductor Science and Technology, 2018, 31, 040501.	3.5	12
17	Design of Superconducting Optoelectronic Networks for Neuromorphic Computing. , 2018, , .		12
18	Multilayered Heater Nanocryotron: A Superconducting-Nanowire-Based Thermal Switch. Physical Review Applied, 2020, 14, .	3.8	12

#	Article	IF	Citations
19	A kinetic-inductance-based superconducting memory element with shunting and sub-nanosecond write times. Superconductor Science and Technology, 2019, 32, 015005.	3.5	11
20	Photonic interconnect with superconducting electronics for large-scale neuromorphic computing (Invited paper). , 2017, , .		1
21	Layer-Skipping Connections Improve the Effectiveness of Equilibrium Propagation on Layered Networks. Frontiers in Computational Neuroscience, 2021, 15, 627357.	2.1	0
22	Superconducting Nanowire Single-Photon Detectors and Nanowire-Based Superconducting On-Chip Electronics. , 2016, , .		0