

Sonia Buckley

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

649
citations

840776

11
h-index

1199594

12
g-index

13
all docs

13
docs citations

13
times ranked

723
citing authors

#	ARTICLE	IF	CITATIONS
1	2022 Roadmap on integrated quantum photonics. JPhys Photonics, 2022, 4, 012501.	4.6	152
2	Superconducting Optoelectronic Circuits for Neuromorphic Computing. Physical Review Applied, 2017, 7, .	3.8	138
3	All-silicon light-emitting diodes waveguide-integrated with superconducting single-photon detectors. Applied Physics Letters, 2017, 111, .	3.3	66
4	A superconducting thermal switch with ultrahigh impedance for interfacing superconductors to semiconductors. Nature Electronics, 2019, 2, 451-456.	26.0	56
5	Superconducting optoelectronic loop neurons. Journal of Applied Physics, 2019, 126, .	2.5	51
6	Superconducting microwire detectors based on WSi with single-photon sensitivity in the near-infrared. Applied Physics Letters, 2020, 116, .	3.3	48
7	Visible Photoluminescence from Cubic (3C) Silicon Carbide Microdisks Coupled to High Quality Whispering Gallery Modes. ACS Photonics, 2015, 2, 14-19.	6.6	42
8	Room-temperature-deposited dielectrics and superconductors for integrated photonics. Optics Express, 2017, 25, 10322.	3.4	31
9	Low-loss, high-bandwidth fiber-to-chip coupling using capped adiabatic tapered fibers. APL Photonics, 2020, 5, .	5.7	28
10	III-V photonic integrated circuit with waveguide-coupled light-emitting diodes and WSi superconducting single-photon detectors. Applied Physics Letters, 2019, 115, 081105.	3.3	16
11	Microring resonator-coupled photoluminescence from silicon W centers. JPhys Photonics, 2020, 2, 045001.	4.6	12
12	PHIDL: <scp>Python</scp>-based layout and geometry creation for nanolithography. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2021, 39, .	1.2	7
13	Microresonator-enhanced, Waveguide-coupled Emission from Silicon Defect Centers for Superconducting Optoelectronic Networks. , 2020, , .		2