Di Zhu

List of Publications by Year
in descending order

58 papers	2,894 citations	304743 22 h-index	302126 39 g-index
63 all docs	63 docs citations	63 times ranked	3006 citing authors

#	Article	IF	Citations
1	Integrated photonics on thin-film lithium niobate. Advances in Optics and Photonics, 2021, 13, 242.	25.5	503
2	Plasmonic Color Palettes for Photorealistic Printing with Aluminum Nanostructures. Nano Letters, 2014, 14, 4023-4029.	9.1	501
3	Demonstration of sub-3 ps temporal resolution with a superconducting nanowire single-photon detector. Nature Photonics, 2020, 14, 250-255.	31.4	285
4	Integrated lithium niobate electro-optic modulators: when performance meets scalability. Optica, 2021, 8, 652.	9.3	184
5	Single-photon imager based on a superconducting nanowire delay line. Nature Photonics, 2017, 11, 247-251.	31.4	127
6	Aluminum nitride integrated photonics platform for the ultraviolet to visible spectrum. Optics Express, 2018, 26, 11147.	3.4	105
7	A general theoretical and experimental framework for nanoscale electromagnetism. Nature, 2019, 576, 248-252.	27.8	103
8	Second-Harmonic Generation from Sub-5 nm Gaps by Directed Self-Assembly of Nanoparticles onto Template-Stripped Gold Substrates. Nano Letters, 2015, 15, 5976-5981.	9.1	86
9	Superconducting nanowire detector jitter limited by detector geometry. Applied Physics Letters, 2016, 109, .	3.3	86
10	On-chip electro-optic frequency shifters and beam splitters. Nature, 2021, 599, 587-593.	27.8	78
11	Electrically pumped laser transmitter integrated on thin-film lithium niobate. Optica, 2022, 9, 408.	9.3	71
12	Single-photon detection in the mid-infrared up to 10 <i>Î¼</i>m wavelength using tungsten silicide superconducting nanowire detectors. APL Photonics, 2021, 6, .	5.7	68
13	Cavity electro-optics in thin-film lithium niobate for efficient microwave-to-optical transduction. Optica, 2020, 7, 1714.	9.3	66
14	Synthesis and observation of non-Abelian gauge fields in real space. Science, 2019, 365, 1021-1025.	12.6	65
15	A scalable multi-photon coincidence detector based on superconducting nanowires. Nature Nanotechnology, 2018, 13, 596-601.	31.5	62
16	Resolving Photon Numbers Using a Superconducting Nanowire with Impedance-Matching Taper. Nano Letters, 2020, 20, 3858-3863.	9.1	57
17	A circuit model for plasmonic resonators. Optics Express, 2014, 22, 9809.	3.4	54
18	Bias sputtered NbN and superconducting nanowire devices. Applied Physics Letters, 2017, 111, .	3.3	46

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19	Electrically-Excited Surface Plasmon Polaritons with Directionality Control. ACS Photonics, 2015, 2, 385-391.	6.6	34
20	Cascaded Cavities Boost the Indistinguishability of Imperfect Quantum Emitters. Physical Review Letters, 2019, 122, 183602.	7.8	34
21	Determining the depairing current in superconducting nanowire single-photon detectors. Physical Review B, 2019, 100, .	3.2	31
22	Superconducting nanowire single-photon detector with integrated impedance-matching taper. Applied Physics Letters, 2019, 114, .	3.3	29
23	Demonstration of Microwave Multiplexed Readout of DC-Biased Superconducting Nanowire Detectors. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	22
24	Electrical control of surface acoustic waves. Nature Electronics, 2022, 5, 348-355.	26.0	22
25	Fano resonances in metallic grating coupled whispering gallery mode resonator. Applied Physics Letters, 2013, 103, .	3.3	18
26	Fabrication of suspended metalâ€"dielectricâ€"metal plasmonic nanostructures. Nanotechnology, 2014, 25, 135303.	2.6	16
27	Radially graded index whispering gallery mode resonator for penetration enhancement. Optics Express, 2012, 20, 26285.	3.4	15
28	Enhancing the performance of superconducting nanowire-based detectors with high-filling factor by using variable thickness. Superconductor Science and Technology, 2021, 34, 035010.	3.5	14
29	Spectrally separable photon-pair generation in dispersion engineered thin-film lithium niobate. Optics Letters, 2022, 47, 2830.	3.3	14
30	A distributed electrical model for superconducting nanowire single photon detectors. Applied Physics Letters, 2018, 113, .	3.3	12
31	Oscilloscopic Capture of Greater-Than-100 GHz, Ultra-Low Power Optical Waveforms Enabled by Integrated Electrooptic Devices. Journal of Lightwave Technology, 2020, 38, 166-173.	4.6	12
32	Superconducting MoN thin films prepared by DC reactive magnetron sputtering for nanowire single-photon detectors. Superconductor Science and Technology, 2021, 34, 035012.	3.5	9
33	Superconducting Nanowire Single-Photon Detector on Aluminum Nitride. , 2016, , .		8
34	Image Dipole Method for the Beaming of Plasmons from Point Sources. ACS Photonics, 2014, 1, 1307-1312.	6.6	7
35	Jitter Characterization of a Dual-Readout SNSPD. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	7
36	Enhancing Plasmonic Spectral Tunability with Anomalous Material Dispersion. Nano Letters, 2021, 21, 91-98.	9.1	6

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37	Toward Efficient Microwave-Optical Transduction using Cavity Electro-Optics in Thin-Film Lithium Niobate. , 2020, , .		6
38	WSi superconducting nanowire single photon detector with a temporal resolution below 5 ps. , 2018, , .		5
39	Compact and Tunable Forward Coupler Based on High-Impedance Superconducting Nanowires. Physical Review Applied, 2021, 15, .	3.8	5
40	Superconducting nanowire single-photon detector on thin- film lithium niobate photonic waveguide. , 2020, , .		5
41	Electrically pumped high power laser transmitter integrated on thin-film lithium niobate. , 2022, , .		3
42	On the measurement of intensity correlations from laboratory and astronomical sources with SPADs and SNSPDs. , 2016, , .		2
43	A General Theoretical and Experimental Framework for Nanoscale Electromagnetism. , 2019, , .		2
44	Operation of a Superconducting Nanowire in Two Detection Modes: KID and SPD. Journal of Low Temperature Physics, 2019, 194, 386-393.	1.4	1
45	Properties of a Nanowire Kinetic Inductance Detector Array. Journal of Low Temperature Physics, 2020, 199, 631-638.	1.4	1
46	Impedance-matched differential SNSPDs for practical photon counting with sub-10 ps timing jitter. , 2021, , .		1
47	Probing the Limits of Optical Loss in Ion-Sliced Thin-film Lithium Niobate. , 2021, , .		1
48	Highly Indistinguishable Room Temperature Single Photon Sources with Quantum Emitters in Bad Cavity Regime. , 2018, , .		1
49	An Aluminum Nitride Integrated Photonics Platform for the Ultraviolet to Visible Spectrum. , 2018, , .		1
50	Whispering gallery mode excitation and collection using fused-tapered fiber tips. , 2012, , .		0
51	Noise Contribution to Switching Current Distributions in NbN Nanowires. , 2019, , .		0
52	Metallic grating coupled whispering gallery mode resonator. , 2013, , .		0
53	Superconducting Nanowire Single-Photon Detectors and Nanowire-Based Superconducting On-Chip Electronics. , 2016, , .		0
54	Two-photon detector by using superconducting transmission lines. , 2017, , .		0

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55	Observation of non-Abelian Aharonov-Bohm Effect with synthetic gauge fields. , 2020, , .		0
56	Photon-Number Resolution Using Superconducting Tapered Nanowire Detector. , 2020, , .		0
57	Electro-optic frequency shifting using coupled lithium-niobate microring resonators. , 2020, , .		0
58	A General Framework for Nanoscale Electromagnetism. , 2020, , .		0