

Xuecou Tu

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,850
citations

567281

15
h-index

265206

42
g-index

62
all docs

62
docs citations

62
times ranked

1755
citing authors

#	ARTICLE	IF	CITATIONS
1	Suppression of superconductivity dominated by proximity effect in amorphous MoSi nanobelts. Physical Review B, 2022, 105, .	3.2	6
2	Photon-assisted Phase Slips in Superconducting Nanowires. Physical Review Applied, 2022, 17, .	3.8	5
3	Probabilistic Energy-to-Amplitude Mapping in a Tapered Superconducting Nanowire Single-Photon Detector. Nano Letters, 2022, 22, 1587-1594.	9.1	5
4	Simultaneous resolution of photon numbers and positions with series-connected superconducting nanowires. Applied Physics Letters, 2022, 120, 124001.	3.3	4
5	Uniform nucleation and epitaxy of bilayer molybdenum disulfide on sapphire. Nature, 2022, 605, 69-75.	27.8	174
6	Observation of chiral and slow plasmons in twisted bilayer graphene. Nature, 2022, 605, 63-68.	27.8	45
7	Effects of Diffuse and Specular Reflections on Detecting Embedded Defects of Foams With a Bifocal Active Imaging System at 0.22 THz. IEEE Transactions on Terahertz Science and Technology, 2021, 11, 150-158.	3.1	5
8	Sub-thermionic, ultra-high-gain organic transistors and circuits. Nature Communications, 2021, 12, 1928.	12.8	83
9	Mid-infrared single photon detector with superconductor Mo _{0.8} Si _{0.2} nanowire. Science Bulletin, 2021, 66, 965-968.	9.0	23
10	Characterization of Superconducting Nbn, WSi and MoSi Ultra-Thin Films in Magnetic Field. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-4.	1.7	8
11	Epitaxial growth of wafer-scale molybdenum disulfide semiconductor single crystals on sapphire. Nature Nanotechnology, 2021, 16, 1201-1207.	31.5	339
12	Three-dimensional monolithic micro-LED display driven by atomically thin transistor matrix. Nature Nanotechnology, 2021, 16, 1231-1236.	31.5	120
13	An Nb ₅ N ₆ microbolometer THz camera. , 2021, , .		0
14	The Performance of Superconducting NbN Hot Electron Bolometer with Nb ₅ N ₆ Buffer Layer. , 2021, , .		0
15	Photonics-inspired terahertz whispering gallery mode resonator waveguide on silicon platform. Applied Physics Letters, 2021, 119, .	3.3	4
16	Single-Detector Spectrometer Using a Superconducting Nanowire. Nano Letters, 2021, 21, 9625-9632.	9.1	33
17	High-Performance CVD MoS ₂ Transistors with Self-Aligned Top-Gate and Bi Contact. , 2021, , .		13
18	Wideband cryogenic amplifier for a superconducting nanowire single-photon detector. Frontiers of Information Technology and Electronic Engineering, 2021, 22, 1666-1676.	2.6	0

#	ARTICLE	IF	CITATIONS
19	Monolithic 3D μ -LED displays through BEOL integration of large-area MoS ₂ TFT matrix. , 2021, , .		2
20	Improved pulse discrimination for a superconducting series nanowire detector by applying a digital matched filter. Applied Physics Letters, 2021, 119, .	3.3	7
21	A Gd@C82 single-molecule electret. Nature Nanotechnology, 2020, 15, 1019-1024.	31.5	70
22	Characterize the Speed of a Photon-Number-Resolving Superconducting Nanowire Detector. IEEE Photonics Journal, 2020, 12, 1-8.	2.0	7
23	Fabrication of superconducting niobium nitride nanowire with high aspect ratio for X-ray photon detection. Scientific Reports, 2020, 10, 9057.	3.3	8
24	Sharply Increased Current in Asymmetrically Aligned Polycrystalline Polymer Transistors With Sub-Domain-Size Channels. IEEE Electron Device Letters, 2020, 41, 589-592.	3.9	6
25	Sixteen-Pixel NbN Nanowire Single Photon Detector Coupled With 300- μ m Fiber. IEEE Photonics Journal, 2020, 12, 1-12.	2.0	10
26	Influence of periodic structure and pixel area on the performance of antenna-coupled Nb N 6 array detector. Microwave and Optical Technology Letters, 2020, 62, 2747-2753.	1.4	1
27	Cavity-induced coherence phenomena in a Josephson parametric amplifier. AIP Advances, 2020, 10, 025135.	1.3	1
28	A Superconducting Binary Encoder with Multigate Nanowire Cryotrons. Nano Letters, 2020, 20, 3553-3559.	9.1	16
29	Enhanced photon communication through Bayesian estimation with an SNSPD array. Photonics Research, 2020, 8, 637.	7.0	14
30	Corrections to "Sharply Increased Current in Asymmetrically Aligned Polycrystalline Polymer Transistors With Sub-Domain-Size Channels" [Apr 20 589-592]. IEEE Electron Device Letters, 2020, 41, 1265-1265.	3.9	0
31	Planar Slot Antennas Designed for THz Detectors Array in Flip Chip Packaging. , 2020, , .		0
32	Characterize the switching performance of a superconducting nanowire cryotron for reading superconducting nanowire single photon detectors. Scientific Reports, 2019, 9, 16345.	3.3	5
33	A cavity-coupled microbolometer terahertz detector with a metamaterial reflector. , 2019, , .		0
34	A controllable superconducting electromechanical oscillator with a suspended membrane. AIP Advances, 2019, 9, .	1.3	5
35	Thickness-Dependent Asymmetric Potential Landscape and Polarization Relaxation in Ferroelectric Hf _x Zr _{1-x} O ₂ Thin Films through Interfacial Bound Charges. Advanced Electronic Materials, 2019, 5, 1900554.	5.1	13
36	Terahertz Direct Detectors Based on Superconducting Hot Electron Bolometers With Different Biasing Methods. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	8

#	ARTICLE	IF	CITATIONS
55	Local destruction of superconductivity by non-magnetic impurities in mesoscopic iron-based superconductors. Nature Communications, 2015, 6, 7614.	12.8	19
56	High efficiency, large-active-area superconducting nanowire single-photon detectors. Chinese Physics B, 2015, 24, 068501.	1.4	5
57	Broadband diffusion of terahertz waves by multi-bit coding metasurfaces. Light: Science and Applications, 2015, 4, e324-e324.	16.6	461
58	Impurity effects on the normal-state transport properties of $\text{Ba}_{0.5}\text{K}_{0.5}\text{FeAs}$. Physical Review B, 2014, 90, .		
59	Terahertz narrow bandstop, broad bandpass filter using double-layer S-shaped metamaterials. Science China Information Sciences, 2013, 56, 1-7.	4.3	5
60	Characterization of Hindered Amine Light Stabilizers in Polymer Matrix Using Terahertz Time-Domain Spectroscopy. Macromolecular Chemistry and Physics, 2012, 213, 1441-1447.	2.2	8
61	Characteristics of the Surface-Intrinsic Josephson Junction. Frontiers of Physics in China, 2006, 1, 122-124.	1.0	0