

Wei Peng

List of Publications by Year in descending order

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all docs

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docs citations

53
times ranked

9389
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrical properties of NbN/NbN _x /NbN Josephson junctions. Superconductor Science and Technology, 2022, 35, 025001.	1.8	3
2	Evolution of the upper critical field and superconducting vortex phase with thickness in PLD-grown Ta films. Superconductor Science and Technology, 2022, 35, 055010.	1.8	0
3	Superconducting NbN thin films on various (X/Y/Z-cut) lithium niobate substrates. Superconductor Science and Technology, 2022, 35, 025012.	1.8	1
4	Intrinsically shunted NbN/TaN/NbN Josephson junctions on Si substrates for large-scale integrated circuits applications. Superconductor Science and Technology, 2022, 35, 065004.	1.8	1
5	A new LFSR based high-frequency test method for RSFQ circuit. , 2022, 2, 100011.		2
6	Growth and Atomically Resolved Polarization Mapping of Ferroelectric Bi ₂ WO ₆ Thin Films. ACS Applied Electronic Materials, 2021, 3, 1023-1030.	2.0	6
7	Fresh insights into detonation nanodiamond aggregation: An X-ray photoelectron spectroscopy, thermogravimetric analysis, and nuclear magnetic resonance study. Engineering Reports, 2021, 3, e12375.	0.9	5
8	Corrections to "Film Stress Influence on Nb/Al-AlO _x /Nb Josephson Junctions". IEEE Transactions on Applied Superconductivity, 2021, 31, 1-1.	1.1	0
9	Oxygen vacancy-induced topological nanodomains in ultrathin ferroelectric films. Npj Quantum Materials, 2021, 6, .	1.8	23
10	Development of Multi-Layer Fabrication Process for SFQ Large Scale Integrated Digital Circuits. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-4.	1.1	38
11	Observation of two-dimensional superconductivity in an ultrathin iron arsenic superconductor. 2D Materials, 2021, 8, 025024.	2.0	7
12	In Situ Cryogenic HAADF-STEM Observation of Spontaneous Transition of Ferroelectric Polarization Domain Structures at Low Temperatures. Nano Letters, 2021, 21, 8679-8686.	4.5	5
13	Intrinsically shunted Josephson junctions with high characteristic voltage based on epitaxial NbN/TaN/NbN trilayer. Applied Physics Letters, 2021, 119, .	1.5	4
14	Fabrication and Characteristics of All-NbN SQUID Series Array. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-3.	1.1	2
15	Double peak emission in lead halide perovskites by self-absorption. Journal of Materials Chemistry C, 2020, 8, 2289-2300.	2.7	72
16	Epitaxial growth and characterization of high quality Bi ₂ O ₂ Se thin films on SrTiO ₃ substrates by pulsed laser deposition. Nanotechnology, 2020, 31, 165704.	1.3	29
17	Fabrication and Characteristics of SQIF Based on NbN/AlN/NbN Josephson Junctions. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-3.	1.1	1
18	Measurement of Inductance in Niobium Nitride Films for Single Flux Quantum Circuits. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	3

#	ARTICLE	IF	CITATIONS
19	Investigation for Low-Rate Fenceless Al Etching Applied in Fabrication of Superconducting Circuits. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	0
20	Unraveling the Elastic Properties of (Quasi)Two-Dimensional Hybrid Perovskites: A Joint Experimental and Theoretical Study. ACS Applied Materials & Interfaces, 2020, 12, 17881-17892.	4.0	21
21	Constructing Polymorphic Nanodomains in BaTiO ₃ Films via Epitaxial Symmetry Engineering. Advanced Functional Materials, 2020, 30, 1910569.	7.8	28
22	Film Stress Influence on Nb/Al-AlO _x /Nb Josephson Junctions. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	16
23	Visible-light-mediated carrier type modulation at the LaAlO ₃ /SrTiO ₃ interface. Applied Physics Letters, 2019, 115, .	1.5	4
24	Hotspot relaxation time in disordered niobium nitride films. Applied Physics Letters, 2019, 115, .	1.5	8
25	Fano-resonance collapse induced terahertz magnetic dipole oscillation in complementary meta-atoms via local symmetry breaking. Journal of Applied Physics, 2019, 125, .	1.1	4
26	Superconductivity Dependence on Epitaxial NbN Film Thickness. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	8
27	Asymmetric Contact-Induced Self-Driven Perovskite-Microwire-Array Photodetectors. Advanced Electronic Materials, 2019, 5, 1900135.	2.6	40
28	Enhanced Photovoltaic Performance and Thermal Stability of CH ₃ NH ₃ PbI ₃ Perovskite through Lattice Symmetrization. ACS Applied Materials & Interfaces, 2019, 11, 740-746.	4.0	20
29	Thickness-Dependent Resistive Switching Behavior of KCu ₇ S ₄ /Cu _x O/Au Device. Journal of Nanoscience and Nanotechnology, 2019, 19, 2844-2850.	0.9	8
30	The Electrical and Optical Properties of Organometal Halide Perovskites Relevant to Optoelectronic Performance. Advanced Materials, 2018, 30, 1700764.	11.1	141
31	Bidentate Ligand-Passivated CsPbI ₃ Perovskite Nanocrystals for Stable Near-Unity Photoluminescence Quantum Yield and Efficient Red Light-Emitting Diodes. Journal of the American Chemical Society, 2018, 140, 562-565.	6.6	745
32	Ferromagnetic Josephson junctions based on epitaxial NbN/Ni ₆₀ Cu ₄₀ /NbN trilayer. AIP Advances, 2018, 8, .	0.6	5
33	Josephson Tunneling Behaviors in NbN/AlN/NbN Junctions with an Ultrathin NbN Film. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-4.	1.1	8
34	Ferroelectrically tunable magnetic skyrmions in ultrathin oxide heterostructures. Nature Materials, 2018, 17, 1087-1094.	13.3	265
35	Quantification of Ionic Diffusion in Lead Halide Perovskite Single Crystals. ACS Energy Letters, 2018, 3, 1477-1481.	8.8	123
36	Inversion symmetry and bulk Rashba effect in methylammonium lead iodide perovskite single crystals. Nature Communications, 2018, 9, 1829.	5.8	189

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37	The Surface of Hybrid Perovskite Crystals: A Boon or Bane. ACS Energy Letters, 2017, 2, 846-856.	8.8	91
38	Thermochromic Perovskite Inks for Reversible Smart Window Applications. Chemistry of Materials, 2017, 29, 3367-3370.	3.2	130
39	Temperature-Induced Lattice Relaxation of Perovskite Crystal Enhances Optoelectronic Properties and Solar Cell Performance. Journal of Physical Chemistry Letters, 2017, 8, 137-143.	2.1	39
40	Ultralow Self-Doping in Two-dimensional Hybrid Perovskite Single Crystals. Nano Letters, 2017, 17, 4759-4767.	4.5	251
41	Solution-Grown Monocrystalline Hybrid Perovskite Films for Hole-Transporter-Free Solar Cells. Advanced Materials, 2016, 28, 3383-3390.	11.1	298
42	Engineering of CH ₃ NH ₃ PbI ₃ Perovskite Crystals by Alloying Large Organic Cations for Enhanced Thermal Stability and Transport Properties. Angewandte Chemie, 2016, 128, 10844-10848.	1.6	18
43	Engineering of CH ₃ NH ₃ PbI ₃ Perovskite Crystals by Alloying Large Organic Cations for Enhanced Thermal Stability and Transport Properties. Angewandte Chemie - International Edition, 2016, 55, 10686-10690.	7.2	152
44	Highly Efficient Perovskite Quantum Dot Light-Emitting Diodes by Surface Engineering. Advanced Materials, 2016, 28, 8718-8725.	11.1	917
45	Shape-Tunable Charge Carrier Dynamics at the Interfaces between Perovskite Nanocrystals and Molecular Acceptors. Journal of Physical Chemistry Letters, 2016, 7, 3913-3919.	2.1	43
46	Surface Restructuring of Hybrid Perovskite Crystals. ACS Energy Letters, 2016, 1, 1119-1126.	8.8	140
47	Robust and air-stable sandwiched organo-lead halide perovskites for photodetector applications. Journal of Materials Chemistry C, 2016, 4, 2545-2552.	2.7	53
48	Planar-integrated single-crystalline perovskite photodetectors. Nature Communications, 2015, 6, 8724.	5.8	617
49	High-quality bulk hybrid perovskite single crystals within minutes by inverse temperature crystallization. Nature Communications, 2015, 6, 7586.	5.8	1,478
50	Air-Stable Surface-Passivated Perovskite Quantum Dots for Ultra-Robust, Single- and Two-Photon-Induced Amplified Spontaneous Emission. Journal of Physical Chemistry Letters, 2015, 6, 5027-5033.	2.1	466
51	Direct Functionalization of Nanodiamonds with Maleimide. Chemistry of Materials, 2014, 26, 2766-2769.	3.2	25
52	Size-controlled fluorescent nanodiamonds: a facile method of fabrication and color-center counting. Nanoscale, 2013, 5, 11776.	2.8	22
53	Gram-scale fractionation of nanodiamonds by density gradient ultracentrifugation. Nanoscale, 2013, 5, 5017.	2.8	33