

Wei Peng

List of Publications by Year in descending order

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53
papers

6,608
citations

236925

25
h-index

197818

49
g-index

53
all docs

53
docs citations

53
times ranked

9389
citing authors

#	ARTICLE	IF	CITATIONS
1	High-quality bulk hybrid perovskite single crystals within minutes by inverse temperature crystallization. <i>Nature Communications</i> , 2015, 6, 7586.	12.8	1,478
2	Highly Efficient Perovskite Quantum Light-Emitting Diodes by Surface Engineering. <i>Advanced Materials</i> , 2016, 28, 8718-8725.	21.0	917
3	Bidentate Ligand-Passivated CsPbI ₃ Perovskite Nanocrystals for Stable Near-Unity Photoluminescence Quantum Yield and Efficient Red Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2018, 140, 562-565.	13.7	745
4	Planar-integrated single-crystalline perovskite photodetectors. <i>Nature Communications</i> , 2015, 6, 8724.	12.8	617
5	Air-Stable Surface-Passivated Perovskite Quantum Dots for Ultra-Robust, Single- and Two-Photon-Induced Amplified Spontaneous Emission. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 5027-5033.	4.6	466
6	Solution-Grown Monocrystalline Hybrid Perovskite Films for Hole-Transporter-Free Solar Cells. <i>Advanced Materials</i> , 2016, 28, 3383-3390.	21.0	298
7	Ferroelectrically tunable magnetic skyrmions in ultrathin oxide heterostructures. <i>Nature Materials</i> , 2018, 17, 1087-1094.	27.5	265
8	Ultralow Self-Doping in Two-dimensional Hybrid Perovskite Single Crystals. <i>Nano Letters</i> , 2017, 17, 4759-4767.	9.1	251
9	Inversion symmetry and bulk Rashba effect in methylammonium lead iodide perovskite single crystals. <i>Nature Communications</i> , 2018, 9, 1829.	12.8	189
10	Engineering of CH ₃ NH ₃ PbI ₃ Perovskite Crystals by Alloying Large Organic Cations for Enhanced Thermal Stability and Transport Properties. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10686-10690.	13.8	152
11	The Electrical and Optical Properties of Organometal Halide Perovskites Relevant to Optoelectronic Performance. <i>Advanced Materials</i> , 2018, 30, 1700764.	21.0	141
12	Surface Restructuring of Hybrid Perovskite Crystals. <i>ACS Energy Letters</i> , 2016, 1, 1119-1126.	17.4	140
13	Thermochromic Perovskite Inks for Reversible Smart Window Applications. <i>Chemistry of Materials</i> , 2017, 29, 3367-3370.	6.7	130
14	Quantification of Ionic Diffusion in Lead Halide Perovskite Single Crystals. <i>ACS Energy Letters</i> , 2018, 3, 1477-1481.	17.4	123
15	The Surface of Hybrid Perovskite Crystals: A Boon or Bane. <i>ACS Energy Letters</i> , 2017, 2, 846-856.	17.4	91
16	Double peak emission in lead halide perovskites by self-absorption. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2289-2300.	5.5	72
17	Robust and air-stable sandwiched organo-lead halide perovskites for photodetector applications. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2545-2552.	5.5	53
18	Shape-Tunable Charge Carrier Dynamics at the Interfaces between Perovskite Nanocrystals and Molecular Acceptors. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3913-3919.	4.6	43

#	ARTICLE	IF	CITATIONS
19	Asymmetric Contact-Induced Self-Driven Perovskite-Microwire Array Photodetectors. <i>Advanced Electronic Materials</i> , 2019, 5, 1900135.	5.1	40
20	Temperature-Induced Lattice Relaxation of Perovskite Crystal Enhances Optoelectronic Properties and Solar Cell Performance. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 137-143.	4.6	39
21	Development of Multi-Layer Fabrication Process for SFQ Large Scale Integrated Digital Circuits. <i>IEEE Transactions on Applied Superconductivity</i> , 2021, 31, 1-4.	1.7	38
22	Gram-scale fractionation of nanodiamonds by density gradient ultracentrifugation. <i>Nanoscale</i> , 2013, 5, 5017.	5.6	33
23	Epitaxial growth and characterization of high quality Bi ₂ O ₂ Se thin films on SrTiO ₃ substrates by pulsed laser deposition. <i>Nanotechnology</i> , 2020, 31, 165704.	2.6	29
24	Constructing Polymorphic Nanodomains in BaTiO ₃ Films via Epitaxial Symmetry Engineering. <i>Advanced Functional Materials</i> , 2020, 30, 1910569.	14.9	28
25	Direct Functionalization of Nanodiamonds with Maleimide. <i>Chemistry of Materials</i> , 2014, 26, 2766-2769.	6.7	25
26	Oxygen vacancy-induced topological nanodomains in ultrathin ferroelectric films. <i>Npj Quantum Materials</i> , 2021, 6, .	5.2	23
27	Size-controlled fluorescent nanodiamonds: a facile method of fabrication and color-center counting. <i>Nanoscale</i> , 2013, 5, 11776.	5.6	22
28	Unraveling the Elastic Properties of (Quasi)Two-Dimensional Hybrid Perovskites: A Joint Experimental and Theoretical Study. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 17881-17892.	8.0	21
29	Enhanced Photovoltaic Performance and Thermal Stability of CH ₃ NH ₃ PbI ₃ Perovskite through Lattice Symmetrization. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 740-746.	8.0	20
30	Engineering of CH ₃ NH ₃ PbI ₃ Perovskite Crystals by Alloying Large Organic Cations for Enhanced Thermal Stability and Transport Properties. <i>Angewandte Chemie</i> , 2016, 128, 10844-10848.	2.0	18
31	Film Stress Influence on Nb/Al-AIO _x /Nb Josephson Junctions. <i>IEEE Transactions on Applied Superconductivity</i> , 2019, 29, 1-5.	1.7	16
32	Josephson Tunneling Behaviors in NbN/AlN/NbN Junctions with an Ultrathin NbN Film. <i>IEEE Transactions on Applied Superconductivity</i> , 2018, 28, 1-4.	1.7	8
33	Hotspot relaxation time in disordered niobium nitride films. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	8
34	Superconductivity Dependence on Epitaxial NbN Film Thickness. <i>IEEE Transactions on Applied Superconductivity</i> , 2019, 29, 1-5.	1.7	8
35	Thickness-Dependent Resistive Switching Behavior of KCu ₇ S ₄ /Cu _x O/Au Device. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 2844-2850.	0.9	8
36	Observation of two-dimensional superconductivity in an ultrathin iron-arsenic superconductor. <i>2D Materials</i> , 2021, 8, 025024.	4.4	7

#	ARTICLE	IF	CITATIONS
37	Growth and Atomically Resolved Polarization Mapping of Ferroelectric Bi ₂ WO ₆ Thin Films. ACS Applied Electronic Materials, 2021, 3, 1023-1030.	4.3	6
38	Ferromagnetic Josephson junctions based on epitaxial NbN/Ni ₆₀ Cu ₄₀ /NbN trilayer. AIP Advances, 2018, 8, .	1.3	5
39	Fresh insights into detonation nanodiamond aggregation: An X-ray photoelectron spectroscopy, thermogravimetric analysis, and nuclear magnetic resonance study. Engineering Reports, 2021, 3, e12375.	1.7	5
40	In Situ Cryogenic HAADF-STEM Observation of Spontaneous Transition of Ferroelectric Polarization Domain Structures at Low Temperatures. Nano Letters, 2021, 21, 8679-8686.	9.1	5
41	Visible-light-mediated carrier type modulation at the LaAlO ₃ /SrTiO ₃ interface. Applied Physics Letters, 2019, 115, .	3.3	4
42	Fano-resonance collapse induced terahertz magnetic dipole oscillation in complementary meta-atoms via local symmetry breaking. Journal of Applied Physics, 2019, 125, .	2.5	4
43	Intrinsically shunted Josephson junctions with high characteristic voltage based on epitaxial NbN/TaN/NbN trilayer. Applied Physics Letters, 2021, 119, .	3.3	4
44	Measurement of Inductance in Niobium Nitride Films for Single Flux Quantum Circuits. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.7	3
45	Electrical properties of NbN/NbN _x /NbN Josephson junctions. Superconductor Science and Technology, 2022, 35, 025001.	3.5	3
46	Fabrication and Characteristics of All-NbN SQUID Series Array. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-3.	1.7	2
47	A new LFSR based high-frequency test method for RSFQ circuit. , 2022, 2, 100011.		2
48	Fabrication and Characteristics of SQIF Based on NbN/AlN/NbN Josephson Junctions. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-3.	1.7	1
49	Superconducting NbN thin films on various (X/Y/Z-cut) lithium niobate substrates. Superconductor Science and Technology, 2022, 35, 025012.	3.5	1
50	Intrinsically shunted NbN/TaN/NbN Josephson junctions on Si substrates for large-scale integrated circuits applications. Superconductor Science and Technology, 2022, 35, 065004.	3.5	1
51	Investigation for Low-Rate Fenceless Al Etching Applied in Fabrication of Superconducting Circuits. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.7	0
52	Corrections to "Film Stress Influence on Nb/Al-AlO _x /Nb Josephson Junctions". IEEE Transactions on Applied Superconductivity, 2021, 31, 1-1.	1.7	0
53	Evolution of the upper critical field and superconducting vortex phase with thickness in PLD-grown Ta films. Superconductor Science and Technology, 2022, 35, 055010.	3.5	0