

Danfeng Li

List of Publications by Year in descending order

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46
papers

2,929
citations

257450

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times ranked

2643
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Upconversion Photoluminescence Assisted by Flexoelectric Field in Oxide Nanomembranes. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	12
2	Electronic structure of superconducting nickelates probed by resonant photoemission spectroscopy. <i>Matter</i> , 2022, 5, 1806-1815.	10.0	15
3	Correlated Insulating Behavior in Infinite-Layer Nickelates. <i>Frontiers in Physics</i> , 2022, 10, .	2.1	2
4	Doping evolution of the Mott-Hubbard landscape in infinite-layer nickelates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	101
5	Isotropic Pauli-limited superconductivity in the infinite-layer nickelate Nd _{0.775} Sr _{0.225} NiO ₂ . <i>Nature Physics</i> , 2021, 17, 473-477.	16.7	50
6	The discovery and research progress of the nickelate superconductors. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2021, 51, 047405.	0.4	9
7	Large Tuning of Electroresistance in an Electromagnetic Device Structure Based on the Ferromagnetic-Piezoelectric Interface. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 18984-18990.	8.0	0
8	Stabilization of Sr ₃ Al ₂ O ₆ Growth Templates for Ex Situ Synthesis of Freestanding Crystalline Oxide Membranes. <i>Nano Letters</i> , 2021, 21, 4454-4460.	9.1	25
9	Magnetic excitations in infinite-layer nickelates. <i>Science</i> , 2021, 373, 213-216.	12.6	110
10	Nickelate Superconductivity without Rare-Earth Magnetism: (La,Sr)NiO ₂ . <i>Advanced Materials</i> , 2021, 33, e2104083.	21.0	139
11	Insulator-to-metal crossover near the edge of the superconducting dome in $\text{Nd}_{1-x}\text{Sr}_x\text{NiO}_2$. <i>Physical Review Research</i> , 2021, 3, .	11.6	11
12	Spontaneous Strain Buffer Enables Superior Cycling Stability in Single-Crystal Nickel-Rich NCM Cathode. <i>Nano Letters</i> , 2021, 21, 9997-10005.	9.1	58
13	Orbital and spin character of doped carriers in infinite-layer nickelates. <i>Physical Review B</i> , 2021, 104, .	3.2	50
14	Overcoming Practical Limitations to Probe Electronic Structure in Novel Quantum Materials. <i>Microscopy and Microanalysis</i> , 2020, 26, 724-727.	0.4	0
15	A Superconducting Praseodymium Nickelate with Infinite Layer Structure. <i>Nano Letters</i> , 2020, 20, 5735-5740.	9.1	172
16	Superconducting Dome in $\text{Nd}_{1-x}\text{Sr}_x\text{NiO}_2$ Infinite Layer Films. <i>Physical Review Letters</i> , 2020, 125, 027001.	11.8	202
17	Electronic structure of the parent compound of superconducting infinite-layer nickelates. <i>Nature Materials</i> , 2020, 19, 381-385.	27.5	205
18	Role of point and line defects on the electronic structure of LaAlO ₃ /SrTiO ₃ interfaces. <i>APL Materials</i> , 2020, 8, 041103.	5.1	3

#	ARTICLE	IF	CITATIONS
19	Aspects of the synthesis of thin film superconducting infinite-layer nickelates. <i>APL Materials</i> , 2020, 8, .	5.1	107
20	Artificial quantum confinement in $\text{LaAlO}_3/\text{SrTiO}_3$ heterostructures. <i>Physical Review Materials</i> , 2020, 4, .	2.4	38
21	Phase diagram of infinite layer praseodymium nickelate thin films. <i>Physical Review Materials</i> , 2020, 4, .	2.4	38
22	Superconductivity in an infinite-layer nickelate. <i>Nature</i> , 2019, 572, 624-627.	27.8	673
23	LiteBIRD: A Satellite for the Studies of B-Mode Polarization and Inflation from Cosmic Background Radiation Detection. <i>Journal of Low Temperature Physics</i> , 2019, 194, 443-452.	1.4	193
24	Freestanding crystalline YBaCuO	2.4	38
25	Probing Quantum Confinement and Electronic Structure at Polar Oxide Interfaces. <i>Advanced Science</i> , 2018, 5, 1800242.	11.2	9
26	The LiteBIRD Satellite Mission: Sub-Kelvin Instrument. <i>Journal of Low Temperature Physics</i> , 2018, 193, 1048-1056.	1.4	96
27	Characterization of atomic force microscopy written conducting nanowires at $\text{LaAlO}_3/\text{SrTiO}_3$ interfaces. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	6
28	Large phonon-drag enhancement induced by narrow quantum confinement at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface. <i>Physical Review B</i> , 2016, 93, .	3.2	10
29	Dynamic modulation of the transport properties of the $\text{LaAlO}_3/\text{SrTiO}_3$ interface using uniaxial strain. <i>Physical Review B</i> , 2016, 93, .	3.2	10
30	Magneto-transport study of top- and back-gated $\text{LaAlO}_3/\text{SrTiO}_3$ heterostructures. <i>APL Materials</i> , 2015, 3, 062805.	5.1	31
31	Giant oscillating thermopower at oxide interfaces. <i>Nature Communications</i> , 2015, 6, 6678.	12.8	62
32	Growth-induced electron mobility enhancement at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface. <i>Applied Physics Letters</i> , 2015, 106, 051604.	3.3	40
33	Large modulation of the Shubnikov-de Haas oscillations by the Rashba interaction at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface. <i>New Journal of Physics</i> , 2014, 16, 112002.	2.9	46
34	Weak localization and spin-orbit interaction in side-gate field effect devices at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface. <i>Physical Review B</i> , 2014, 90, .	3.2	47
35	Fabricating superconducting interfaces between artificially grown LaAlO_3 and SrTiO_3 thin films. <i>APL Materials</i> , 2014, 2, .	5.1	28
36	Analysis of low temperature magnetoresistance of $\text{LaAlO}_3/\text{SrTiO}_3$ interfaces. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0

#	ARTICLE	IF	CITATIONS
37	Thermopower in oxide heterostructures: The importance of being multiple-band conductors. Physical Review B, 2012, 86, .	3.2	48
38	Polar Liquid Molecule Induced Transport Property Modulation at LaAlO ₃ /SrTiO ₃ Heterointerface. Advanced Materials, 2012, 24, 2598-2602.	21.0	37
39	Tunable conductivity threshold at polar oxide interfaces. Nature Communications, 2012, 3, 932.	12.8	121
40	Memory characteristics and the tunneling mechanism of Au nanocrystals embedded in a DyScO ₃ high-k gate dielectric layer. Semiconductor Science and Technology, 2011, 26, 025015.	2.0	8
41	Tunable electronic transport properties of DyScO ₃ /SrTiO ₃ polar heterointerface. Applied Physics Letters, 2011, 98, 122108.	3.3	23
42	Microstructure and magnetic properties of a novel spinel (Zn,Co)Fe ₂ O ₄ thin film on the SrTiO ₃ substrate. Journal of Crystal Growth, 2010, 313, 26-29.	1.5	3
43	Growth and characterizations of CoFe ₂ O ₄ -ZnO nanocomposite thin films. , 2010, , .		0
44	Effects of Boron Addition on Structural and Electrochemical Properties of La-Mg-Ni-Co System Hydrogen Storage Electrode Alloys. Rare Metal Materials and Engineering, 2009, 38, 193-197.	0.8	3
45	Electrochemical properties of Ti _{0.8} Zr _{0.2} V _{2.7} Mn _{0.5} Cr _{0.8} Ni _{1.25} hydrogen storage alloy electrodes with various Ni powder fractions. Physica Scripta, 2007, T129, 99-102.	2.5	1
46	Spin configuration and magnetostrictive properties of Laves compounds Tb _x Dy _{0.7-x} Pr _{0.3} (Fe _{0.9} B _{0.1}) _{1.93} (O ₁₀) _{1/2} . Journal of Applied Physics, 2006, 100, 023904.	2.5	21