Danfeng Li

List of Publications by Year in descending order

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Version: 2024-02-01

46	2,929	257450	265206
papers	citations	24 h-index	42 g-index

48	48	48	2643
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Superconductivity in an infinite-layer nickelate. Nature, 2019, 572, 624-627.	27.8	673
2	Electronic structure of the parent compound of superconducting infinite-layer nickelates. Nature Materials, 2020, 19, 381-385.	27.5	205
3	Superconducting Dome in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Nd</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub><mml:mo>-</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:math><mml:msub><mml:mi mathvariant="normal">Sr</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi mathvariant="normal">NiO</mml:mi><mml:mn>2</mml:mn></mml:msub> Infinite Layer Films. Physical Review Letters, 2020, 125, 027001.	7.8	202
4	LiteBIRD: A Satellite for the Studies of B-Mode Polarization and Inflation from Cosmic Background Radiation Detection. Journal of Low Temperature Physics, 2019, 194, 443-452.	1.4	193
5	A Superconducting Praseodymium Nickelate with Infinite Layer Structure. Nano Letters, 2020, 20, 5735-5740.	9.1	172
6	Nickelate Superconductivity without Rareâ€Earth Magnetism: (La,Sr)NiO₂. Advanced Materials, 2021, 33, e2104083.	21.0	139
7	Tunable conductivity threshold at polar oxide interfaces. Nature Communications, 2012, 3, 932.	12.8	121
8	Magnetic excitations in infinite-layer nickelates. Science, 2021, 373, 213-216.	12.6	110
9	Aspects of the synthesis of thin film superconducting infinite-layer nickelates. APL Materials, 2020, 8, .	5.1	107
10	Doping evolution of the Mottâ€“Hubbard landscape in infinite-layer nickelates. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	101
11	Phase diagram of infinite layer praseodymium nickelate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Pr</mml:mi><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">NiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> thin films. Physical Review Materials, 2020, 4, .	3.1	99
12	The LiteBIRD Satellite Mission: Sub-Kelvin Instrument. Journal of Low Temperature Physics, 2018, 193, 1048-1056.	1.4	96
13	Giant oscillating thermopower at oxide interfaces. Nature Communications, 2015, 6, 6678.	12.8	62
14	Spontaneous Strain Buffer Enables Superior Cycling Stability in Single-Crystal Nickel-Rich NCM Cathode. Nano Letters, 2021, 21, 9997-10005.	9.1	58
15	Isotropic Pauli-limited superconductivity in the infinite-layer nickelate Nd0.775Sr0.225NiO2. Nature Physics, 2021, 17, 473-477.	16.7	50
16	Orbital and spin character of doped carriers in infinite-layer nickelates. Physical Review B, 2021, 104, .	3.2	50
17	Thermopower in oxide heterostructures: The importance of being multiple-band conductors. Physical Review B, 2012, 86, .	3.2	48
18	Weak localization and spin-orbit interaction in side-gate field effect devices at the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">LaAlO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:mi mathvariant="normal">SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>interface. Physical Review B, 2014, 90, .	3.2	47

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19	Large modulation of the Shubnikovâ€“de Haas oscillations by the Rashba interaction at the LaAlO₃/SrTiO₃ interface. New Journal of Physics, 2014, 16, 112002.	2.9	46
20	Growth-induced electron mobility enhancement at the LaAlO3/SrTiO3 interface. Applied Physics Letters, 2015, 106, 051604.	3.3	40
21	Freestanding crystalline <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>YB</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">u</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>7</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></	2.4	38
22	Polar Liquid Molecule Induced Transport Property Modulation at LaAlO₃/SrTiO₃ Heterointerface. Advanced Materials, 2012, 24, 2598-2602.	21.0	37
23	Magneto-transport study of top- and back-gated LaAlO₃/SrTiO₃heterostructures. APL Materials, 2015, 3, 062805.	5.1	31
24	Fabricating superconducting interfaces between artificially grown LaAlO3 and SrTiO3 thin films. APL Materials, 2014, 2, .	5.1	28
25	Stabilization of Sr₃Al₂O₆ Growth Templates for Ex Situ Synthesis of Freestanding Crystalline Oxide Membranes. Nano Letters, 2021, 21, 4454-4460.	9.1	25
26	Tunable electronic transport properties of DyScO3/SrTiO3 polar heterointerface. Applied Physics Letters, 2011, 98, 122108.	3.3	23
27	Spin configuration and magnetostrictive properties of Laves compounds TbxDy0.7â^’xPr0.3(Fe0.9B0.1)1.93(0.10â©½xâ©½0.28). Journal of Applied Physics, 2006, 100, 023904.	2.5	21
28	Electronic structure of superconducting nickelates probed by resonant photoemission spectroscopy. Matter, 2022, 5, 1806-1815.	10.0	15
29	Enhanced Upconversion Photoluminescence Assisted by Flexoelectric Field in Oxide Nanomembranes. Laser and Photonics Reviews, 2022, 16, .	8.7	12
30	Insulator-to-metal crossover near the edge of the superconducting dome in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Nd</mml:mi><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi>Ni</mml:mi><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi>O</mml:mi><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review Research, 2021, 3, .	3.6	11
31	Dynamic modulation of the transport properties of theLaAlO3/SrTiO3interface using uniaxial strain. Physical Review B, 2016, 93, .	3.2	10
32	Large phonon-drag enhancement induced by narrow quantum confinement at the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>LaAlO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>/<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>interface. Physical Review B, 2016, 93, .	3.2	9
33	Probing Quantum Confinement and Electronic Structure at Polar Oxide Interfaces. Advanced Science, 2018, 5, 1800242.	11.2	9
34	The discovery and research progress of the nickelate superconductors. Scientia Sinica: Physica, Mechanica Et Astronomica, 2021, 51, 047405.	0.4	9
35	Memory characteristics and the tunneling mechanism of Au nanocrystals embedded in a DyScO3high-kgate dielectric layer. Semiconductor Science and Technology, 2011, 26, 025015.	2.0	8
36	Characterization of atomic force microscopy written conducting nanowires at LaAlO3/SrTiO3 interfaces. Applied Physics Letters, 2016, 108, .	3.3	6

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37	Artificial quantum confinement in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>LaAl</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:mi>SrTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> heterostructures. Physical Review Materials, 2020, 4, .	2.4	6
38	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
39	Microstructure and magnetic properties of a novel spinel (Zn,Co)Fe2O4 thin film on the SrTiO3substrate. Journal of Crystal Growth, 2010, 313, 26-29.	1.5	3
40	Role of point and line defects on the electronic structure of LaAlO3/SrTiO3 interfaces. APL Materials, 2020, 8, 041103.	5.1	3
41	Correlated Insulating Behavior in Infinite-Layer Nickelates. Frontiers in Physics, 2022, 10, .	2.1	2
42	Electrochemical properties of Ti0.8Zr0.2V2.7Mn0.5Cr0.8Ni1.25 hydrogen storage alloy electrodes with various Ni powder fractions. Physica Scripta, 2007, T129, 99-102.	2.5	1
43	Growth and characterizations of CoFe<inf>2</inf>O<inf>4</inf>-ZnO nanocomposite thin films. , 2010, , .		0
44	Analysis of low temperature magnetoresistance of LaAlO₃/SrTiO₃interfaces. Proceedings of SPIE, 2014, , .	0.8	0
45	Overcoming Practical Limitations to Probe Electronic Structure in Novel Quantum Materials. Microscopy and Microanalysis, 2020, 26, 724-727.	0.4	0
46	Large Tuning of Electroresistance in an Electromagnetic Device Structure Based on the Ferromagneticâ€“Piezoelectric Interface. ACS Applied Materials & Interfaces, 2021, 13, 18984-18990.	8.0	0