

Yanwu Xie

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6438081/publications.pdf>

Version: 2024-02-01

37
papers

1,834
citations

331670

21
h-index

330143

37
g-index

38
all docs

38
docs citations

38
times ranked

2456
citing authors

#	ARTICLE	IF	CITATIONS
1	Titanium d x y ferromagnetism at the LaAlO ₃ /SrTiO ₃ interface. Nature Materials, 2013, 12, 703-706.	27.5	303
2	Locally enhanced conductivity due to the tetragonal domain structure in LaAlO ₃ /SrTiO ₃ heterointerfaces. Nature Materials, 2013, 12, 1091-1095.	27.5	172
3	Control of electronic conduction at an oxide heterointerface using surface polar adsorbates. Nature Communications, 2011, 2, 494.	12.8	149
4	Charge Writing at the LaAlO ₃ /SrTiO ₃ Surface. Nano Letters, 2010, 10, 2588-2591.	9.1	107
5	Electric field control of superconductivity at the LaAlO ₃ /KTaO ₃ (111) interface. Science, 2021, 372, 721-724.	12.6	82
6	Visible-light-enhanced gating effect at the LaAlO ₃ /SrTiO ₃ interface. Nature Communications, 2014, 5, 5554.	12.8	79
7	Enhancing Electron Mobility at the LaAlO ₃ /SrTiO ₃ Interface by Surface Control. Advanced Materials, 2013, 25, 4735-4738.	21.0	71
8	Imaging and tuning polarity at SrTiO ₃ domain walls. Nature Materials, 2017, 16, 1203-1208.	27.5	68
9	Strain-tunable magnetism at oxide domain walls. Nature Physics, 2019, 15, 269-274.	16.7	65
10	Manipulating topological transformations of polar structures through real-time observation of the dynamic polarization evolution. Nature Communications, 2019, 10, 4864.	12.8	62
11	Tuning the Electron Gas at an Oxide Heterointerface via Free Surface Charges. Advanced Materials, 2011, 23, 1744-1747.	21.0	60
12	Two-Dimensional Superconductivity at the $\text{LaAlO}_3/\text{SrTiO}_3$ Interface. Nature Communications, 2011, 2, 494.	12.8	58
13	Carrier density and disorder tuned superconductor-metal transition in a two-dimensional electron system. Nature Communications, 2018, 9, 4008.	12.8	55
14	Binary Pd/amorphous-SrRuO ₃ hybrid film for high stability and fast activity recovery ethanol oxidation electrocatalysis. Nano Energy, 2020, 67, 104247.	16.0	55
15	Ubiquitous strong electron-phonon coupling at the interface of FeSe/SrTiO ₃ . Nature Communications, 2017, 8, 14468.	12.8	51
16	Dual-Gate Modulation of Carrier Density and Disorder in an Oxide Two-Dimensional Electron System. Nano Letters, 2016, 16, 6130-6136.	9.1	45
17	Scanning Probe Manipulation of Magnetism at the LaAlO ₃ /SrTiO ₃ Heterointerface. Nano Letters, 2012, 12, 4055-4059.	9.1	43
18	Anisotropic Transport at the LaAlO ₃ /SrTiO ₃ Interface Explained by Microscopic Imaging of Channel-Flow over SrTiO ₃ Domains. ACS Applied Materials & Interfaces, 2016, 8, 12514-12519.	8.0	42

#	ARTICLE	IF	CITATIONS
19	Quantum longitudinal and Hall transport at the LaAlO ₃ /SrTiO ₃ interface at low electron densities. Solid State Communications, 2014, 197, 25-29.	1.9	38
20	Spin-dependent transport across Co/LaAlO ₃ /SrTiO ₃ heterojunctions. Applied Physics Letters, 2014, 105, 032406.	3.3	34
21	Interfacial Multiferroics of TiO ₂ /PbTiO ₃ Heterostructure Driven by Ferroelectric Polarization Discontinuity. ACS Applied Materials & Interfaces, 2017, 9, 1899-1906.	8.0	23
22	Electrostatic Force-Driven Oxide Heteroepitaxy for Interface Control. Advanced Materials, 2018, 30, e1707017.	21.0	23
23	High temperature superconductivity at FeSe/LaFeO ₃ interface. Nature Communications, 2021, 12, 5926.	12.8	21
24	Origin of interfacial conductivity at complex oxide heterointerfaces: Possibility of electron transfer from water chemistry at surface oxygen vacancies. Physical Review Materials, 2018, 2, .	2.4	19
25	Two-dimensional superconductivity at the surfaces of KTaO ₃ gated with ionic liquid. Science Advances, 2022, 8, .	10.3	19
26	A termination-insensitive and robust electron gas at the heterointerface of two complex oxides. Nature Communications, 2019, 10, 4026.	12.8	16
27	Surface Amorphous Oxides Induced Electron Transfer into Complex Oxide Heterointerfaces. Advanced Materials Interfaces, 2018, 5, 1801216.	3.7	14
28	Critical Thickness in Superconducting $\text{LaAlO}_3/\text{SrTiO}_3$ Heterostructures. Physical Review Letters, 2011, 106, 077201.	7.8	12
29	Superconductivity in a misfit layered compound (SnSe) _{1.16} (NbSe) ₂ . Journal of Physics Condensed Matter, 2018, 30, 355701.	1.8	11
30	Effects of lattice strains on the interfacial potential in La _{0.67} Ca _{0.33} MnO ₃ /SrTiO ₃ :Nb heterojunctions. Applied Physics Letters, 2010, 97, 192503.	3.3	10
31	Non-universal current flow near the metal-insulator transition in an oxide interface. Nature Communications, 2021, 12, 3311.	12.8	9
32	Unravelling oxygen-vacancy-induced electron transfer at SrTiO ₃ -based heterointerfaces by transport measurement during growth. Journal of Physics Condensed Matter, 2019, 31, 505002.	1.8	8
33	Emergence of high-temperature superconductivity at the interface of two Mott insulators. Physical Review B, 2022, 105, .	3.2	6
34	Enhancing superconductivity of ultrathin YBa ₂ Cu ₃ O _{7-δ} films by capping non-superconducting oxides. Chinese Physics B, 2019, 28, 067402.	1.4	1
35	Magnetism and Conductivity Along Structural Domain Walls of SrTiO ₃ . Journal of Superconductivity and Novel Magnetism, 2020, 33, 195-197.	1.8	1
36	Growth, electronic structure and superconductivity of ultrathin epitaxial CoSi ₂ films. Journal of Physics Condensed Matter, 2021, 33, 155501.	1.8	1

#	ARTICLE	IF	CITATIONS
37	<p>Simultaneous Charge Writing and Nonvolatile Control of Superconductivity in a $\text{LaAlO}_3/\text{TiO}_2/\text{LaAlO}_3$ Heterostructure</p> <p>Journal: <i>ACS Applied Materials and Interfaces</i>, 2014, Vol. 6, No. 11, pp. 7843-7848</p> <p>DOI: 10.1021/am401111g</p>	3.8	1