Yanwu Xie

List of Publications by Year
in descending order

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	Emergence of high-temperature superconductivity at the interface of two Mott insulators. Physical Review B, 2022, 105, .	3.2	6
2	Two-dimensional superconductivity at the surfaces of KTaO ₃ gated with ionic liquid. Science Advances, 2022, 8, .	10.3	19
3	Surface Charge Writing and Nonvolatile Control of Superconductivity in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>La</mml:mi><mml:mi>Al</mml:mi><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:mi>K	3.8	1
4	Two-Dimensional Superconductivity at the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow><mml:mi>LaAlO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow>	7.8	58
5	Growth, electronic structure and superconductivity of ultrathin epitaxial CoSi2 films. Journal of Physics Condensed Matter, 2021, 33, 155501.	1.8	1
6	Electric field control of superconductivity at the LaAlO ₃ /KTaO ₃ (111) interface. Science, 2021, 372, 721-724.	12.6	82
7	Non-universal current flow near the metal-insulator transition in an oxide interface. Nature Communications, 2021, 12, 3311.	12.8	9
8	Critical Thickness in Superconducting <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>LaAlO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn> mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub><mml:mo	7.8	12
9	High temperature superconductivity at FeSe/LaFeO3 interface. Nature Communications, 2021, 12, 5926.	12.8	21
10	Magnetism and Conductivity Along Structural Domain Walls of SrTiO3. Journal of Superconductivity and Novel Magnetism, 2020, 33, 195-197.	1.8	1
11	Binary Pd/amorphous-SrRuO3 hybrid film for high stability and fast activity recovery ethanol oxidation electrocatalysis. Nano Energy, 2020, 67, 104247.	16.0	55
12	Enhancing superconductivity of ultrathin YBa2Cu3O7-Î´ films by capping non-superconducting oxides. Chinese Physics B, 2019, 28, 067402.	1.4	1
13	Manipulating topological transformations of polar structures through real-time observation of the dynamic polarization evolution. Nature Communications, 2019, 10, 4864.	12.8	62
14	A termination-insensitive and robust electron gas at the heterointerface of two complex oxides. Nature Communications, 2019, 10, 4026.	12.8	16
15	Unravelling oxygen-vacancy-induced electron transfer at SrTiO₃-based heterointerfaces by transport measurement during growth. Journal of Physics Condensed Matter, 2019, 31, 505002.	1.8	8
16	Strain-tunable magnetism at oxide domain walls. Nature Physics, 2019, 15, 269-274.	16.7	65
17	Carrier density and disorder tuned superconductor-metal transition in a two-dimensional electron system. Nature Communications, 2018, 9, 4008.	12.8	55
18	Surface Amorphous Oxides Induced Electron Transfer into Complex Oxide Heterointerfaces. Advanced Materials Interfaces, 2018, 5, 1801216.	3.7	14

#	Article	IF	Citations
19	Electrostatic Forceâ€“Driven Oxide Heteroepitaxy for Interface Control. Advanced Materials, 2018, 30, e1707017.	21.0	23
20	Superconductivity in a misfit layered compound (SnSe)_{1.16}(NbSe₂). Journal of Physics Condensed Matter, 2018, 30, 355701.	1.8	11
21	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
22	Ubiquitous strong electronâ€“phonon coupling at the interface of FeSe/SrTiO3. Nature Communications, 2017, 8, 14468.	12.8	51
23	Interfacial Multiferroics of TiO₂/PbTiO₃ Heterostructure Driven by Ferroelectric Polarization Discontinuity. ACS Applied Materials & Interfaces, 2017, 9, 1899-1906.	8.0	23
24	Imaging and tuning polarity at SrTiO3 domainÂwalls. Nature Materials, 2017, 16, 1203-1208.	27.5	68
25	Anisotropic Transport at the LaAlO₃/SrTiO₃ Interface Explained by Microscopic Imaging of Channel-Flow over SrTiO₃ Domains. ACS Applied Materials & Interfaces, 2016, 8, 12514-12519.	8.0	42
26	Dual-Gate Modulation of Carrier Density and Disorder in an Oxide Two-Dimensional Electron System. Nano Letters, 2016, 16, 6130-6136.	9.1	45
27	Quantum longitudinal and Hall transport at the LaAlO3/SrTiO3 interface at low electron densities. Solid State Communications, 2014, 197, 25-29.	1.9	38
28	Spin-dependent transport across Co/LaAlO3/SrTiO3 heterojunctions. Applied Physics Letters, 2014, 105, 032406.	3.3	34
29	Visible-light-enhanced gating effect at the LaAlO3/SrTiO3 interface. Nature Communications, 2014, 5, 5554.	12.8	79
30	Enhancing Electron Mobility at the LaAlO₃/SrTiO₃ Interface by Surface Control. Advanced Materials, 2013, 25, 4735-4738.	21.0	71
31	Locally enhanced conductivity due to the tetragonal domain structure in LaAlO3/SrTiO3 heterointerfaces. Nature Materials, 2013, 12, 1091-1095.	27.5	172
32	Titanium dx y ferromagnetism at the LaAlO3/SrTiO3Âinterface. Nature Materials, 2013, 12, 703-706.	27.5	303
33	Scanning Probe Manipulation of Magnetism at the LaAlO₃/SrTiO₃ Heterointerface. Nano Letters, 2012, 12, 4055-4059.	9.1	43
34	Control of electronic conduction at an oxide heterointerface using surface polar adsorbates. Nature Communications, 2011, 2, 494.	12.8	149
35	Tuning the Electron Gas at an Oxide Heterointerface via Free Surface Charges. Advanced Materials, 2011, 23, 1744-1747.	21.0	60
36	Effects of lattice strains on the interfacial potential in La0.67Ca0.33MnO3/SrTiO3:Nb heterojunctions. Applied Physics Letters, 2010, 97, 192503.	3.3	10

#	Article	IF	Citations
37	Charge Writing at the LaAlO₃/SrTiO₃ Surface. Nano Letters, 2010, 10, 2588-2591.	9.1	107