Wei Niu

List of Publications by Year
in descending order

41 papers	932 citations	567281 15 h-index	454955 30 g-index
41 all docs	41 docs citations	41 times ranked	1454 citing authors

#	Article	IF	Citations
1	Fully Optical Modulation of the Two-Dimensional Electron Gas at the Î³-Al₂O₃/SrTiO₃ Interface. Journal of Physical Chemistry Letters, 2022, 13, 2976-2985.	4.6	9
2	Selfâ€Intercalation Tunable Interlayer Exchange Coupling in a Synthetic van der Waals Antiferromagnet. Advanced Functional Materials, 2022, 32, .	14.9	10
3	Chargeâ€Transferâ€Induced Multivalent States with Resultant Emergent Magnetism in Transitionâ€Metal Oxide Heterostructures. Advanced Electronic Materials, 2021, 7, .	5.1	5
4	Recent Advances on Spin-Polarized Two-Dimensional Electron Gases at Oxide Interfaces. ACS Applied Electronic Materials, 2021, 3, 128-144.	4.3	11
5	Room-temperature intrinsic ferromagnetism in epitaxial CrTe2 ultrathin films. Nature Communications, 2021, 12, 2492.	12.8	179
6	Ferroelectric control of a spin-polarized two-dimensional electron gas. Physical Review B, 2021, 103, .	3.2	8
7	Giant Topological Hall Effect in van der Waals Heterostructures of CrTe₂/Bi₂Te₃. ACS Nano, 2021, 15, 15710-15719.	14.6	34
8	Antisymmetric magnetoresistance in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Fe</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">GeTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> nanodevices of inhomogeneous thickness. Physical Review B, 2021, 104, .	3.2	16
9	Probing the atomic-scale ferromagnetism in van der Waals magnet CrSiTe3. Applied Physics Letters, 2021, 119, .	3.3	12
10	Large Linear Magnetoresistance of Highâ€Mobility 2D Electron System at Nonisostructural Î³â€Al₂O₃/SrTiO₃ Heterointerfaces. Advanced Materials Interfaces, 2021, 8, 2101235.	3.7	12
11	Realizing Waferâ€Scale and Lowâ€Voltage Operation MoS₂ Transistors via Electrolyte Gating. Advanced Electronic Materials, 2020, 6, 1900838.	5.1	15
12	The Role of the Height Fluctuation Effect in the Tunable Interfacial Electronic Structure of the Vertically Stacked BP/MoS₂ Heterojunction. Journal of Physical Chemistry C, 2020, 124, 20256-20261.	3.1	4
13	Electrolyte gate controlled metal-insulator transitions of the CaZrO3/SrTiO3 heterointerface. Applied Physics Letters, 2019, 115, 061601.	3.3	14
14	Monolayer Modification of VTe₂ and Its Charge Density Wave. Journal of Physical Chemistry Letters, 2019, 10, 4987-4993.	4.6	43
15	Strain-driven lattice distortion and the resultant magnetic properties of La0.7Sr0.3MnO3/BaTiO3 superlattices. Applied Physics Letters, 2019, 115, 201604.	3.3	4
16	Stimulating Oxide Heterostructures: A Review on Controlling SrTiO₃â€Based Heterointerfaces with External Stimuli. Advanced Materials Interfaces, 2019, 6, 1900772.	3.7	56
17	Ultrafast Orbitalâ€Oriented Control of Magnetization in Halfâ€Metallic La_{0.7}Sr_{0.3}MnO₃ Films. Advanced Materials, 2019, 31, e1806443.	21.0	13
18	Observation of Small Polaron and Acoustic Phonon Coupling in Ultrathin La 0.7 Sr 0.3 MnO 3 /SrTiO 3 Structures. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800657.	2.4	2

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19	Oxide Interfaces: Diluted Oxide Interfaces with Tunable Ground States (Adv. Mater. 10/2019). Advanced Materials, 2019, 31, 1970072.	21.0	3
20	Diluted Oxide Interfaces with Tunable Ground States. Advanced Materials, 2019, 31, e1805970.	21.0	28
21	Topological Phase Transition-Induced Triaxial Vector Magnetoresistance in (Bi_{1â€“x}In_x)₂Se₃ Nanodevices. ACS Nano, 2018, 12, 1537-1543.	14.6	13
22	Direct Demonstration of the Emergent Magnetism Resulting from the Multivalence Mn in a LaMnO₃ Epitaxial Thin Film System. Advanced Electronic Materials, 2018, 4, 1800055.	5.1	27
23	Transport evidence of 3D topological nodal-line semimetal phase in ZrSiS. Frontiers of Physics, 2018, 13, 1.	5.0	30
24	Tuning the Two-Dimensional Electron Gas at Oxide Interfaces with Tiâ€“O Configurations: Evidence from X-ray Photoelectron Spectroscopy. ACS Applied Materials & Interfaces, 2018, 10, 1434-1439.	8.0	15
25	The atomic-scale magnetism of Co2FeAl Heusler alloy epitaxial thin films. Applied Physics Letters, 2018, 113, .	3.3	7
26	Direct observation of high spin polarization in Co2FeAl thin films. Scientific Reports, 2018, 8, 8074.	3.3	20
27	Emergent Ferromagnetism: Direct Demonstration of the Emergent Magnetism Resulting from the Multivalence Mn in a LaMnO₃ Epitaxial Thin Film System (Adv. Electron. Mater. 6/2018). Advanced Electronic Materials, 2018, 4, 1870030.	5.1	1
28	Unsaturated magnetoconductance of epitaxial La0.7Sr0.3MnO3 thin films in pulsed magnetic fields up to 60 T. AIP Advances, 2017, 7, 056404.	1.3	7
29	Oxygen pressure-tuned epitaxy and magnetic properties of magnetite thin films. Journal of Magnetism and Magnetic Materials, 2017, 432, 472-476.	2.3	15
30	Intrinsic ferromagnetism and quantum transport transition in individual Fe-doped Bi₂Se₃ topological insulator nanowires. Nanoscale, 2017, 9, 12372-12378.	5.6	18
31	Universal scaling of the anomalous Hall effect. Journal Physics D: Applied Physics, 2017, 50, 155002.	2.8	2
32	Giant Tunability of the Two-Dimensional Electron Gas at the Interface of Î³-Al₂O₃/SrTiO₃. Nano Letters, 2017, 17, 6878-6885.	9.1	44
33	Tuning the transport behavior of centimeter-scale WTe2 ultrathin films fabricated by pulsed laser deposition. Applied Physics Letters, 2017, 111, .	3.3	34
34	Suppressed carrier density for the patterned high mobility two-dimensional electron gas at Î³-Al2O3/SrTiO3 heterointerfaces. Applied Physics Letters, 2017, 111, 021602.	3.3	18
35	Quantum Electronics: Evidence of Both Surface and Bulk Dirac Bands and Anisotropic Nonsaturating Magnetoresistance in ZrSiS (Adv. Electron. Mater. 10/2016). Advanced Electronic Materials, 2016, 2, .	5.1	3
36	Room-temperature ferromagnetism observed in Nd-doped In ₂ O ₃ dilute magnetic semiconducting nanowires. Chinese Physics B, 2016, 25, 097502.	1.4	4

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37	Evidence of Both Surface and Bulk Dirac Bands and Anisotropic Nonsaturating Magnetoresistance in ZrSiS. Advanced Electronic Materials, 2016, 2, 1600228.	5.1	115
38	Evidence of weak localization in quantum interference effects observed in epitaxial La0.7Sr0.3MnO3 ultrathin films. Scientific Reports, 2016, 6, 26081.	3.3	61
39	Identification of defect-related emissions in ZnO hybrid materials. Applied Physics Letters, 2015, 107, .	3.3	19
40	Effect of Superparamagnetic Fe₃O₄ Nanoparticles on Schottky Barriers of Graphene. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	0
41	Fabrication and Characterization of Fe-Doped In ₂ O ₃ Dilute Magnetic Semiconducting Nanowires. Chinese Physics Letters, 2015, 32, 037501.	3.3	1