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List of Publications by Year in descending order

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118
papers

4,129
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98825

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128908

60
g-index

125
all docs

125
docs citations

125
times ranked

6811
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrathin nanosheets of CrSiTe ₃ : a semiconducting two-dimensional ferromagnetic material. Journal of Materials Chemistry C, 2016, 4, 315-322.	5.6	244
2	Room-Temperature Multiferroic Hexagonal LuFeO_3 Films. Physical Review Letters, 2013, 110, 237601.	8.0	197
3	Giant Magnetoresistance in Organic Spin Valves. Physical Review Letters, 2010, 104, 236602.	8.0	184
4	The emergent field of high entropy oxides: Design, prospects, challenges, and opportunities for tailoring material properties. APL Materials, 2020, 8, .	4.8	173
5	Elastically driven anisotropic percolation in electronic phase-separated manganites. Nature Physics, 2009, 5, 885-888.	11.8	157
6	Emerging magnetism and anomalous Hall effect in iridate/manganite heterostructures. Nature Communications, 2016, 7, 12721.	13.2	123
7	Single-crystal high entropy perovskite oxide epitaxial films. Physical Review Materials, 2018, 2, .	2.5	116
8	Focused helium-ion beam irradiation effects on electrical transport properties of few-layer WSe ₂ : enabling nanoscale direct write homo-junctions. Scientific Reports, 2016, 6, 27276.	3.4	110
9	High-performance multilayer WSe ₂ field-effect transistors with carrier type control. Nano Research, 2018, 11, 722-730.	10.6	110
10	Giant Discrete Steps in Metal-Insulator Transition in Perovskite Manganite Wires. Physical Review Letters, 2006, 97, 167201.	8.0	103
11	Reemergent Metal-Insulator Transitions in Manganites Exposed with Spatial Confinement. Physical Review Letters, 2008, 100, 247204.	8.0	100
12	Influence of electron doping on the ground state of $\text{Sr}_{1-x}\text{Ca}_x\text{MnO}_3$. Physical Review B, 2015, 92, .	5.3	91
13	Full Electroresistance Modulation in a Mixed-Phase Metallic Alloy. Physical Review Letters, 2016, 116, 097203.	8.0	90
14	Strain Doping: Reversible Single-Axis Control of a Complex Oxide Lattice via Helium Implantation. Physical Review Letters, 2015, 114, 256801.	8.0	88
15	Phase Transitions, Phase Coexistence, and Piezoelectric Switching Behavior in Highly Strained BiFeO ₃ Films. Advanced Materials, 2013, 25, 5561-5567.	24.3	87
16	Antibody response in rats to the synthetic polypeptide (T,G)-A- genetically linked to the major histocompatibility system. European Journal of Immunology, 1972, 2, 151-155.	3.3	76
17	Generalized Manning Condensation Model Captures the RNA Ion Atmosphere. Physical Review Letters, 2015, 114, 258105.	8.0	71
18	Tunable magnetic ordering through cation selection in entropic spinel oxides. Physical Review Materials, 2019, 3, .	2.5	64

#	ARTICLE	IF	CITATIONS
19	What is in a name: Defining "high entropy" oxides. APL Materials, 2022, 10, .	4.8	61
20	Electrically reversible cracks in an intermetallic film controlled by an electric field. Nature Communications, 2018, 9, 41.	13.2	58
21	Influence of different substrates on phase separation in $\text{La}_{1-x}\text{Pr}_x\text{CaMnO}_3$ thin films. Journal of Applied Physics, 2006, 99, 08S901.	2.3	54
22	Nanoscale ferroelastic twins formed in strained LaCoO_3 films. Science Advances, 2019, 5, eaav5050.	10.9	52
23	Active control of magnetoresistance of organic spin valves using ferroelectricity. Nature Communications, 2014, 5, 4396.	13.2	51
24	Controlling Octahedral Rotations in a Perovskite via Strain Doping. Scientific Reports, 2016, 6, 26491.	3.4	51
25	Time-Resolved Electronic Phase Transitions in Manganites. Physical Review Letters, 2009, 102, 087201. Magnetic anisotropy in single-crystal high-entropy perovskite oxide $\text{La}_{1-x}\text{Pr}_x\text{CaMnO}_3$	8.0	49

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#	ARTICLE	IF	CITATIONS
37	Enhancing interfacial magnetization with a ferroelectric. <i>Physical Review B</i> , 2016, 94, .	3.3	36
38	Designing Magnetism in High Entropy Oxides. <i>Advanced Science</i> , 2022, 9, e2200391.	12.4	36
39	High performance top-gated multilayer WSe_2 field effect transistors. <i>Nanotechnology</i> , 2017, 28, 475202.	2.7	34
40	Electrophoretic-like Gating Used To Control Metal-Insulator Transitions in Electronically Phase Separated Manganite Wires. <i>Nano Letters</i> , 2013, 13, 3749-3754.	9.5	33
41	Dynamics of a first-order electronic phase transition in manganites. <i>Physical Review B</i> , 2011, 83, .	3.3	32
42	High Entropy Oxide Relaxor Ferroelectrics. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 11962-11970.	8.3	32
43	Chemically induced Jahn-Teller ordering on manganite surfaces. <i>Nature Communications</i> , 2014, 5, 4528.	13.2	30
44	Exploiting Symmetry Mismatch to Control Magnetism in a Ferroelastic Heterostructure. <i>Physical Review Letters</i> , 2019, 122, 187202.	8.0	30
45	Switchable orbital polarization and magnetization in strained $LaCoO_3$ films. <i>Physical Review Materials</i> , 2019, 3, .	2.5	30
46	Reversible Control of Interfacial Magnetism through Ionic-Liquid-Assisted Polarization Switching. <i>Nano Letters</i> , 2017, 17, 1665-1669.	9.5	29
47	Ferromagnetism and Nonmetallic Transport of Thin-Film $La_{1-x}Fe_xSi_{27}$ A Stabilized Metastable Material. <i>Physical Review Letters</i> , 2015, 114, 147202.	8.0	27
48	Charge doping effects on magnetic properties of single-crystal $La_{1-x}Fe_xSi_{27}$		

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55	Applying Configurational Complexity to the 2D Ruddlesden-Popper Crystal Structure. ACS Nano, 2020, 14, 13030-13037.	15.3	25
56	Role of Electrical Double Layer Structure in Ionic Liquid Gated Devices. ACS Applied Materials & Interfaces, 2017, 9, 40949-40958.	8.3	24
57	Ionic Liquid versus SiO ₂ -Gated a-IGZO Thin Film Transistors: A Direct Comparison. ECS Journal of Solid State Science and Technology, 2015, 4, Q105-Q109.	1.8	23
58	Searching for superconductivity in high entropy oxide Ruddlesden-Popper cuprate films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, .	2.2	23
59	Removal of the Magnetic Dead Layer by Geometric Design. Advanced Functional Materials, 2018, 28, 1800922.	16.5	22
60	Strain driven anisotropic magnetoresistance in antiferromagnetic La _{0.4} Sr _{0.6} MnO ₃ . Applied Physics Letters, 2014, 105, .	3.2	21
61	Understanding Electric Double-Layer Gating Based on Ionic Liquids: from Nanoscale to Macroscale. ACS Applied Materials & Interfaces, 2018, 10, 43211-43218.	8.3	21
62	Emergent phenomena in manganites under spatial confinement. Chinese Physics B, 2013, 22, 017501.	1.4	20
63	Growth diagram of La _{0.7} Sr _{0.3} MnO ₃ thin films using pulsed laser deposition. Journal of Applied Physics, 2013, 113, . Unexpected crystalline homogeneity from the disordered bond network in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$	2.3	20

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73	Stoichiometry control of complex oxides by sequential pulsed-laser deposition from binary-oxide targets. <i>Applied Physics Letters</i> , 2015, 106, .	3.2	12
74	Impact of gate geometry on ionic liquid gated ionotronic systems. <i>APL Materials</i> , 2017, 5, .	4.8	11
75	Observing a previously hidden structural-phase transition onset through heteroepitaxial cap response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4141-4146.	7.6	11
76	Synthesis method comparison of compositionally complex rare earth-based Ruddlesden-Popper type cuprates. <i>Journal of the American Ceramic Society</i> , 2021, 104, 3750-3759.	3.8	11
77	Unit cell orientation of tetragonal-like BiFeO ₃ thin films grown on highly miscut LaAlO ₃ substrates. <i>Applied Physics Letters</i> , 2013, 102, 221910.	3.2	10
78	Symmetry driven control of optical properties in WO ₃ films. <i>APL Materials</i> , 2017, 5, 066106.	4.8	10
79	Variance induced decoupling of spin, lattice, and charge ordering in perovskite nickelates. <i>Physical Review Research</i> , 2023, 5, .	3.6	10
80	Dimensionality Effects in FeGe ₂ Nanowires: Enhanced Anisotropic Magnetization and Anomalous Electrical Transport. <i>Scientific Reports</i> , 2017, 7, 7126.	3.4	9
81	Competing phases in epitaxial vanadium dioxide at nanoscale. <i>APL Materials</i> , 2019, 7, .	4.8	9
82	Ionic Gating of Ultrathin and Leaky Ferroelectrics. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801723.	4.1	9
83	Surface-Driven Evolution of the Anomalous Hall Effect in Magnetic Topological Insulator MnBi ₂ Te ₄ Thin Films. <i>Advanced Functional Materials</i> , 2022, 32, .	16.5	9
84	Kinetically Controlled Fabrication of Single-Crystalline TiO ₂ Nanobrush Architectures with High Energy {001} Facets. <i>Advanced Science</i> , 2017, 4, 1700045.	12.4	8
85	Design and Realization of Ohmic and Schottky Interfaces for Oxide Electronics. <i>Small Science</i> , 2022, 2, 2100087.	10.6	8
86	Hole doping in compositionally complex correlated oxide enables tunable exchange biasing. <i>APL Materials</i> , 2023, 11, .	4.8	8
87	Tuning the Ferromagnetic Coupling of Fe Nanodots on Cu(111) via Dimensionality Variation of the Mediating Electrons. <i>Physical Review Letters</i> , 2010, 104, 167202.	8.0	7
88	Enhanced ferroelectric polarization and possible morphotropic phase boundary in PZT-based alloys. <i>Physical Review B</i> , 2016, 93, .	3.3	7
89	Nonequilibrium Synthesis of Highly Porous Single-Crystalline Oxide Nanostructures. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601034.	4.1	7
90	Epitaxial Stabilization of Single-Crystal Multiferroic YCrO ₃ Thin Films. <i>Nanomaterials</i> , 2020, 10, 2085.	4.2	7

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91	Resolving transitions in the mesoscale domain configuration in VO ₂ using laser speckle pattern analysis. Scientific Reports, 2014, 4, 6259.	3.4	5
92	Designing functionality in perovskite thin films using ion implantation techniques: Assessment and insights from first-principles calculations. Scientific Reports, 2017, 7, 11166.	3.4	5
93	Strong spin-dephasing in a topological insulator-paramagnet heterostructure. APL Materials, 2020, 8, .	4.8	5
94	A persistent metal-insulator transition at the surface of an oxygen-deficient, epitaxial manganite film. Nanoscale, 2013, 5, 9659.	5.8	4
95	Vertically Aligned Single-Crystalline CoFe ₂ O ₄ Nanobrush Architectures with High Magnetization and Tailored Magnetic Anisotropy. Nanomaterials, 2020, 10, 472.	4.2	4
96	Optical response of BiFeO ₃ films subjected to uniaxial strain. Physical Review Materials, 2019, 3, .	2.5	4
97	Dynamic defect correlations dominate activated electronic transport in SrTiO ₃ . Scientific Reports, 2016, 6, 30141.	3.4	3
98	Multimodal Responses of Self-Organized Circuitry in Electronically Phase Separated Materials. Advanced Electronic Materials, 2016, 2, 1600189.	5.4	3
99	Homo-epitaxial one-dimensional Si nanostructures. Nanoscale, 2018, 10, 260-267.	5.8	3
100	Programmable Electrofluidics for Ionic Liquid Based Neuromorphic Platform. Micromachines, 2019, 10, 478.	3.0	3
101	Self-regulated growth of candidate topological superconducting parkerite by molecular beam epitaxy. APL Materials, 2021, 9, 101110.	4.8	3
102	Exploring the Spatial Control of Topotactic Phase Transitions Using Vertically Oriented Epitaxial Interfaces. Nano-Micro Letters, 2022, 14, 2.	27.9	3
103	The structural modification and magnetism of many-layer epitaxial graphene implanted with low-energy light ions. Carbon, 2022, 192, 462-472.	10.7	3
104	High entropy ceramics for applications in extreme environments. JPhys Materials, 2024, 7, 021001.	4.3	2
105	Fabrication of Spatially Confined Complex Oxides. Journal of Visualized Experiments, 2013, , e50573.	0.3	1
106	Exposing high-energy surfaces by rapid-anneal solid phase epitaxy. APL Materials, 2017, 5, 086103.	4.8	1
107	Oxide Epitaxy with Large Symmetry Mismatch: Bronze-phase VO ₂ on SrTiO ₃ . Microscopy and Microanalysis, 2017, 23, 1580-1581.	0.4	1
108	Generalized Ellipsometry Measurements of Crystalline Thin Film and Bulk Tin Oxide. Physica Status Solidi (A) Applications and Materials Science, 0, , 2100378.	1.9	1

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109	Emergent Magnetism with Continuous Control in the Ultrahigh-Conductivity Layered Oxide PdCoO ₂ . Nano Letters, 2023, 23, 7279-7287.	9.5	1
110	Elucidating the Role of Carbon Conductive Additive in the Processing and Electrochemical Behavior of Surface-Modified Si Anodes. Energy & Fuels, 2024, 38, 6446-6458.	5.2	1
111	Embracing disorder in quantum materials design. Applied Physics Letters, 2024, 124, .	3.2	1
112	Towards a High Diffraction Efficiency of Photorefractive Multiple Quantum Wells. AIP Conference Proceedings, 2005, , .	1.0	0
113	Emergent Metal-Insulator Transitions Associated with Electronic Inhomogeneities in Low-Dimensional Complex Oxides. Springer Series in Materials Science, 2012, , 69-86.	0.0	0
114	Distortion Correction in Scanning Transmission Electron Microcopy with Controllable Scanning Pathways. Microscopy and Microanalysis, 2016, 22, 900-901.	0.4	0
115	Direct Imaging of Low-Dimensional Nanostructures. Microscopy and Microanalysis, 2018, 24, 90-91.	0.4	0
116	Determination of rutile transition metal oxide (110) surface terminations by scanning tunneling microscopy contrast reversal. Physical Review B, 2021, 103, .	3.3	0
117	S186 <i>Invited</i> X-ray Microdiffraction Techniques for Measuring Local Microstructure and Strain Distributions. Powder Diffraction, 2008, 23, 189-189.	0.3	0
118	Magnetic structure and properties of the compositionally complex perovskite (Y _{0.2} La _{0.2} Pr _{0.2} Nd _{0.2} Tb _{0.2})MnO ₃ . Journal of Materials Chemistry C, 0, , .	5.6	0