

Qing He

List of Publications by Year in descending order

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papers

11,639
citations

71102

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79698

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times ranked

10415
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic-Scale Control of Electronic Structure and Ferromagnetic Insulating State in Perovskite Oxide Superlattices by Long-Range Tuning of BO ₆ Octahedra. <i>Advanced Functional Materials</i> , 2020, 30, 2001984.	14.9	12
2	Robust Ferromagnetism in Highly Strained SrCoO_{3-x} Thin Films. <i>Physical Review X</i> , 2020, 10, .	8.9	15
3	Reversible manipulation of the magnetic state in SrRuO ₃ through electric-field controlled proton evolution. <i>Nature Communications</i> , 2020, 11, 184.	12.8	86
4	Electric Field-Controlled Multistep Proton Evolution in H _x SrCoO _{2.5} with Formation of H ₂ Dimer. <i>Advanced Science</i> , 2019, 6, 1901432.	11.2	32
5	Tailoring Magnetoelectric Coupling in BiFeO ₃ /La _{0.7} Sr _{0.3} MnO ₃ Heterostructure through the Interface Engineering. <i>Advanced Materials</i> , 2019, 31, e1806335.	21.0	53
6	Tuning the electronic properties of epitaxial strained CaFeO ₃ thin films. <i>Applied Physics Letters</i> , 2019, 114, 221907.	3.3	6
7	Manipulate the Electronic and Magnetic States in NiCo ₂ O ₄ Films through Electric-Field-Induced Protonation at Elevated Temperature. <i>Advanced Materials</i> , 2019, 31, e1900458.	21.0	64
8	Electric Field Writing of Ferroelectric Nano-Domains Near 71° Domain Walls with Switchable Interfacial Conductivity. <i>Annalen Der Physik</i> , 2018, 530, 1800130.	2.4	6
9	Strain-induced ferroelectricity and spin-lattice coupling in SrMnO_3 thin films. <i>Physical Review B</i> , 2018, 97, .	3.2	51
10	The unconventional doping in YBa ₂ Cu ₃ O _{7-x} /La _{0.7} Ca _{0.3} MnO ₃ heterostructures by termination control. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	8
11	The preparation, and structural and multiferroic properties of B-site ordered double-perovskite Bi ₂ FeMnO ₆ . <i>Journal of Materials Chemistry C</i> , 2017, 5, 5494-5500.	5.5	28
12	Electric-field control of tri-state phase transformation with a selective dual-ion switch. <i>Nature</i> , 2017, 546, 124-128.	27.8	551
13	Magnetic and Magnetodielectric Properties of Epitaxial Iron Vanadate Thin Films. <i>Advanced Electronic Materials</i> , 2017, 3, 1600295.	5.1	10
14	Out-of-Plane Piezoelectricity and Ferroelectricity in Layered In_2Se_3 Nanoflakes. <i>Nano Letters</i> , 2017, 17, 5508-5513.	9.1	567
15	Heteroepitaxial CoFe ₂ O ₄ /Muscovite Bimorph with Large Magnetostriction for Flexible Electronics. , 2016, , .		0
16	Strain-Mediated Inverse Photoresistivity in SrRuO ₃ /La _{0.7} Sr _{0.3} MnO ₃ Superlattices. <i>Advanced Functional Materials</i> , 2016, 26, 729-737.	14.9	14
17	Anomalous Electronic Anisotropy Triggered by Ferroelastic Coupling in Multiferroic Heterostructures. <i>Advanced Materials</i> , 2016, 28, 876-883.	21.0	19
18	Observation of a three-dimensional quasi-long-range electronic supermodulation in YBa ₂ Cu ₃ O _{7-x} /La _{0.7} Ca _{0.3} MnO ₃ heterostructures. <i>Nature Communications</i> , 2016, 7, 10852.	12.8	12

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19	Van der Waals epitaxy of functional MoO ₂ film on mica for flexible electronics. Applied Physics Letters, 2016, 108, .	3.3	81
20	Electrically enhanced magnetization in highly strained BiFeO ₃ films. NPG Asia Materials, 2016, 8, e269-e269.	7.9	9
21	Tuning the magnetic properties of self-assembled BiFeO ₃ ∕CoFe ₂ O ₄ heteroepitaxy by magneto-structural coupling. Nanoscale, 2016, 8, 8847-8854.	5.6	25
22	A Metal∕Insulator Transition of the Buried MnO ₂ Monolayer in Complex Oxide Heterostructure. Advanced Materials, 2016, 28, 9142-9151.	21.0	17
23	Permanent ferroelectric retention of BiFeO ₃ mesocrystal. Nature Communications, 2016, 7, 13199.	12.8	49
24	Enhanced Structural and Magnetic Coupling in a Mesocrystal-Assisted Nanocomposite. ACS Applied Materials & Interfaces, 2016, 8, 1104-1111.	8.0	11
25	Origin of metallic behavior in NiCo ₂ O ₄ ferrimagnet. Scientific Reports, 2015, 5, 15201.	3.3	137
26	Tetragonal BiFeO ₃ on yttria-stabilized zirconia. APL Materials, 2015, 3, 116104.	5.1	6
27	Tuning the functionalities of a mesocrystal via structural coupling. Scientific Reports, 2015, 5, 12073.	3.3	17
28	BiFeO ₃ Thin Films: A Playground for Exploring Electric-Field Control of Multifunctionalities. Annual Review of Materials Research, 2015, 45, 249-275.	9.3	76
29	Enhanced Magnetocaloric Effect Driven by Interfacial Magnetic Coupling in Self-Assembled Mn ₃ O ₄ ∕La _{0.7} Sr _{0.3} MnO ₃ Nanocomposites. ACS Applied Materials & Interfaces, 2015, 7, 26504-26511.	8.0	13
30	Deterministic switching of ferromagnetism at room temperature using an electric field. Nature, 2014, 516, 370-373.	27.8	570
31	Multifunctionalities driven by ferroic domains. Journal of Applied Physics, 2014, 116, 066801.	2.5	12
32	Atomic∕Scale Visualization of Polarization Pinning and Relaxation at Coherent BiFeO ₃ ∕LaAlO ₃ Interfaces. Advanced Functional Materials, 2014, 24, 793-799.	14.9	34
33	Strain Induced Metastable Phase and Phase Revolution in PbTiO ₃ -CoFe ₂ O ₄ Nanocomposite Film. Chinese Physics Letters, 2014, 31, 017701.	3.3	4
34	Room-temperature antiferromagnetic memory resistor. Nature Materials, 2014, 13, 367-374.	27.5	546
35	Magnetic Mesocrystal-Assisted Magnetoresistance in Manganite. Nano Letters, 2014, 14, 6073-6079.	9.1	26
36	Giant Enhancement of Ferroelectric Retention in BiFeO ₃ Mixed∕Phase Boundary. Advanced Materials, 2014, 26, 6335-6340.	21.0	37

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37	Domain wall functionality in BiFeO ₃ . Phase Transitions, 2013, 86, 53-66.	1.3	54
38	Influence of a Dy overlayer on the precessional dynamics of a ferromagnetic thin film. Applied Physics Letters, 2013, 102, 062418.	3.3	11
39	Periodic elastic nanodomains in ultrathin tetragonal-like BiFeO ₃ films. Physical Review B, 2013, 88, .	3.2	22
40	Mapping Band Alignment across Complex Oxide Heterointerfaces. Physical Review Letters, 2012, 109, 246807.	7.8	64
41	Directed assembly of nano-scale phase variants in highly strained BiFeO ₃ thin films. Journal of Applied Physics, 2012, 112, 064102.	2.5	35
42	Interface control of bulk ferroelectric polarization. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9710-9715.	7.1	212
43	Epitaxial Photostriction—Magnetostriction Coupled Self-Assembled Nanostructures. ACS Nano, 2012, 6, 6952-6959.	14.6	63
44	Nanoscale phase boundaries: a new twist to novel functionalities. Nanoscale, 2012, 4, 6196.	5.6	63
45	Evidence of Sharp and Diffuse Domain Walls in BiFeO ₃ by Means of Unit-Cell-Wise Strain and Polarization Maps Obtained with High Resolution Scanning Transmission Electron Microscopy. Physical Review Letters, 2012, 109, 047601.	7.8	52
46	Orthorhombic BiFeO ₃ . Physical Review Letters, 2012, 109, 247606.	7.8	100
47	Nanoscale characterization of emergent phenomena in multiferroics. Current Opinion in Solid State and Materials Science, 2012, 16, 216-226.	11.5	14
48	Magnetotransport at Domain Walls in BiFeO ₃ . Physical Review Letters, 2012, 108, 067203.	7.8	131
49	Epitaxial Photostriction—Magnetostriction Coupled Self-Assembled Nanostructures. ACS Nano, 2012, 6, 6952-6959.		

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55	Concurrent transition of ferroelectric and magnetic ordering near room temperature. Nature Communications, 2011, 2, 567.	12.8	141
56	Large field-induced strains in a lead-free piezoelectric material. Nature Nanotechnology, 2011, 6, 98-102.	31.5	292
57	Microscopic Origin of the Giant Ferroelectric Polarization in Tetragonal-like BiFeO_3 . Physical Review Letters, 2011, 107, 147602.	7.8	290
58	Atomic-Scale Evolution of Local Electronic Structure Across Multiferroic Domain Walls. Advanced Materials, 2011, 23, 1530-1534.	21.0	89
59	Nanoscale Structure and Mechanism for Enhanced Electromechanical Response of Highly Strained BiFeO_3 Thin Films. Advanced Materials, 2011, 23, 3170-3175.	21.0	138
60	Ferroelastic switching for nanoscale non-volatile magnetoelectric devices. Nature Materials, 2010, 9, 309-314.	27.5	407
61	Domain Wall Conductivity in La-Doped BiFeO_3 . Physical Review Letters, 2010, 105, 197603.	7.8	357
62	Strain-driven phase transitions and associated dielectric/piezoelectric anomalies in BiFeO_3 thin films. Applied Physics Letters, 2010, 97, .	3.3	35
63	Thickness-dependent twinning evolution and ferroelectric behavior of epitaxial BiFeO_3 thin films. Physical Review B, 2010, 82, .	3.2	70
64	Probing the evolution of antiferromagnetism in multiferroics. Physical Review B, 2010, 81, .	3.2	70
65	Interface Ferromagnetism and Orbital Reconstruction in BiFeO_3 . Physical Review Letters, 2010, 105, 027201.	7.8	335
66	Probing ferroelectricity in $\text{PbZr}_{0.2}\text{Bi}_{0.8}\text{FeO}_3$ polarized soft x rays. Physical Review B, 2010, 82, .	3.2	70
67	Phenomenological analysis of domain width in rhombohedral BiFeO_3 . Physical Review B, 2009, 80, .	3.2	29
68	Conduction at domain walls in oxide multiferroics. Nature Materials, 2009, 8, 229-234.	27.5	1,212
69	Electric modulation of conduction in multiferroic Ca-doped BiFeO_3 films. Nature Materials, 2009, 8, 485-493.	27.5	481
70	Nanoscale Control of Domain Architectures in BiFeO_3 Thin Films. Nano Letters, 2009, 9, 1726-1730.	9.1	210
71	A Strain-Driven Morphotropic Phase Boundary in BiFeO_3 . Science, 2009, 326, 977-980.	12.6	1,065
72	Electric-field control of local ferromagnetism using a magnetoelectric multiferroic. Nature Materials, 2008, 7, 478-482.	27.5	1,219

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73	Strain Control of Domain-Wall Stability in Epitaxial BiFeO_3 Films. Physical Review Letters, 2007, 99, 217601.	7.8	109