

# Qing He

## List of Publications by Year in descending order

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73  
papers

11,639  
citations

71102

41  
h-index

79698

73  
g-index

74  
all docs

74  
docs citations

74  
times ranked

10415  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric-field control of local ferromagnetism using a magnetoelectric multiferroic. Nature Materials, 2008, 7, 478-482.	27.5	1,219
2	Conduction at domain walls in oxide multiferroics. Nature Materials, 2009, 8, 229-234.	27.5	1,212
3	A Strain-Driven Morphotropic Phase Boundary in BiFeO <sub>3</sub> . Science, 2009, 326, 977-980.	12.6	1,065
4	Deterministic switching of ferromagnetism at room temperature using an electric field. Nature, 2014, 516, 370-373.	27.8	570
5	Out-of-Plane Piezoelectricity and Ferroelectricity in Layered $\text{In}_{\pm 2}\text{Se}_3$ Nanoflakes. Nano Letters, 2017, 17, 5508-5513.	9.1	567
6	Electric-field control of tri-state phase transformation with a selective dual-ion switch. Nature, 2017, 546, 124-128.	27.8	551
7	Room-temperature antiferromagnetic memory resistor. Nature Materials, 2014, 13, 367-374.	27.5	546
8	Electric modulation of conduction in multiferroic Ca-doped BiFeO <sub>3</sub> films. Nature Materials, 2009, 8, 485-493.	27.5	481
9	Ferroelastic switching for nanoscale non-volatile magnetoelectric devices. Nature Materials, 2010, 9, 309-314.	27.5	407
10	Electric-Field-Induced Magnetization Reversal in a Ferromagnet-Multiferroic Heterostructure. Physical Review Letters, 2011, 107, 217202.	7.8	405
11	Domain Wall Conductivity in La-Doped $\text{BiFeO}_3$ . Physical Review Letters, 2010, 105, 197603.	7.8	357
12	Interface Ferromagnetism and Orbital Reconstruction in $\text{BiFeO}_3$ . Physical Review Letters, 2010, 105, 027201.	7.8	335
13	Physical Review Letters, 2010, 105, 027201.		

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19	Concurrent transition of ferroelectric and magnetic ordering near room temperature. Nature Communications, 2011, 2, 567.	12.8	141
20	Nanoscale Structure and Mechanism for Enhanced Electromechanical Response of Highly Strained BiFeO <sub>3</sub> Thin Films. Advanced Materials, 2011, 23, 3170-3175.	21.0	138
21	Origin of metallic behavior in NiCo <sub>2</sub> O <sub>4</sub> ferrimagnet. Scientific Reports, 2015, 5, 15201.	3.3	137
22	Magnetotransport at Domain Walls in $\text{BiFeO}_3$ . Physical Review Letters, 2012, 108, 067203.	7.8	131
23	Strain Control of Domain-Wall Stability in Epitaxial $\text{BiFeO}_3$ Films. Physical Review Letters, 2007, 99, 217601.	7.8	109
24	Orthorhombic $\text{BiFeO}_3$ . Physical Review Letters, 2012, 109, 247606.	7.8	100
25	Atomic-Scale Evolution of Local Electronic Structure Across Multiferroic Domain Walls. Advanced Materials, 2011, 23, 1530-1534.	21.0	89
26	Reversible manipulation of the magnetic state in SrRuO <sub>3</sub> through electric-field controlled proton evolution. Nature Communications, 2020, 11, 184.	12.8	86
27	Van der Waals epitaxy of functional MoO <sub>2</sub> film on mica for flexible electronics. Applied Physics Letters, 2016, 108, .	3.3	81
28	BiFeO <sub>3</sub> Thin Films: A Playground for Exploring Electric-Field Control of Multifunctionalities. Annual Review of Materials Research, 2015, 45, 249-275.	9.3	76
29	Local Conduction at the BiFeO <sub>3</sub> -CoFe <sub>2</sub> O <sub>4</sub> Tubular Oxide Interface. Advanced Materials, 2012, 24, 4564-4568.	21.0	72
30	Probing the evolution of antiferromagnetism in multiferroics. Physical Review B, 2010, 81, .	3.2	70
31	Mapping Band Alignment across Complex Oxide Heterointerfaces. Physical Review Letters, 2012, 109, 246807.	7.8	64
32	Manipulate the Electronic and Magnetic States in NiCo <sub>2</sub> O <sub>4</sub> Films through Electric-Field-Induced Protonation at Elevated Temperature. Advanced Materials, 2019, 31, e1900458.	21.0	64
33	Epitaxial Photostriction-Magnetostriction Coupled Self-Assembled Nanostructures. ACS Nano, 2012, 6, 6952-6959.	14.6	63
34	Nanoscale phase boundaries: a new twist to novel functionalities. Nanoscale, 2012, 4, 6196.	5.6	63
35	Domain wall functionality in BiFeO <sub>3</sub> . Phase Transitions, 2013, 86, 53-66.	1.3	54
36	Electrical Control of Multiferroic Orderings in Mixed-Phase BiFeO <sub>3</sub> Films. Advanced Materials, 2012, 24, 3070-3075.	21.0	53

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37	Tailoring Magnetoelectric Coupling in $\text{BiFeO}_3/\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Heterostructure through the Interface Engineering. <i>Advanced Materials</i> , 2019, 31, e1806335.	21.0	53
38	Evidence of Sharp and Diffuse Domain Walls in $\text{BiFeO}_3$ by Means of Unit-Cell-Wise Strain and Polarization Maps Obtained with High Resolution Scanning Transmission Electron Microscopy. <i>Physical Review Letters</i> , 2012, 109, 047601.	7.8	52
39	Strain-induced ferroelectricity and spin-lattice coupling in $\text{SrMnO}_3$ thin films. <i>Physical Review B</i> , 2018, 97, .	3.2	51
40	Permanent ferroelectric retention of $\text{BiFeO}_3$ mesocrystal. <i>Nature Communications</i> , 2016, 7, 13199.	12.8	49
41	Probing ferroelectricity in $\text{PbZr}_{0.2}\text{Ti}_{0.8}\text{O}_3$ polarized soft x rays. <i>Physical Review B</i> , 2010, 82, .	3.2	32
42	Giant Enhancement of Ferroelectric Retention in $\text{BiFeO}_3$ Mixed-Phase Boundary. <i>Advanced Materials</i> , 2014, 26, 6335-6340.	21.0	37
43	Strain-driven phase transitions and associated dielectric/piezoelectric anomalies in $\text{BiFeO}_3$ thin films. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	35
44	Directed assembly of nano-scale phase variants in highly strained $\text{BiFeO}_3$ thin films. <i>Journal of Applied Physics</i> , 2012, 112, 064102.	2.5	35
45	Atomic-Scale Visualization of Polarization Pinning and Relaxation at Coherent $\text{BiFeO}_3/\text{LaAlO}_3$ Interfaces. <i>Advanced Functional Materials</i> , 2014, 24, 793-799.	14.9	34
46	Thickness-dependent twinning evolution and ferroelectric behavior of epitaxial $\text{BiFeO}_3$ thin films. <i>Physical Review B</i> , 2010, 82, .	3.2	32
47	Electric Field-Controlled Multistep Proton Evolution in $\text{H}_x\text{SrCoO}_{2.5}$ with Formation of $\text{H}_2$ Dimer. <i>Advanced Science</i> , 2019, 6, 1901432.	11.2	32
48	Phenomenological analysis of domain width in rhombohedral $\text{BiFeO}_3$ . <i>Physical Review B</i> , 2009, 80, .	3.2	29
49	The preparation, and structural and multiferroic properties of B-site ordered double-perovskite $\text{Bi}_2\text{FeMn}_6\text{O}_{14}$ . <i>Journal of Materials Chemistry C</i> , 2017, 5, 5494-5500.	5.5	28
50	Magnetic Mesocrystal-Assisted Magnetoresistance in Manganite. <i>Nano Letters</i> , 2014, 14, 6073-6079.	9.1	26
51	Tuning the magnetic properties of self-assembled $\text{BiFeO}_3/\text{CoFe}_2\text{O}_4$ heteroepitaxy by magneto-structural coupling. <i>Nanoscale</i> , 2016, 8, 8847-8854.	5.6	25
52	Periodic elastic nanodomains in ultrathin tetragonal-like $\text{BiFeO}_3$ films. <i>Physical Review B</i> , 2013, 88, .	3.2	22
53	Anomalous Electronic Anisotropy Triggered by Ferroelastic Coupling in Multiferroic Heterostructures. <i>Advanced Materials</i> , 2016, 28, 876-883.	21.0	19
54	Direct spectroscopic evidence of charge reversal at the $\text{Pb}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3/\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ heterointerface. <i>Physical Review B</i> , 2011, 83, .	3.2	18

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55	Tuning the functionalities of a mesocrystal via structural coupling. <i>Scientific Reports</i> , 2015, 5, 12073.	3.3	17
56	A Metal-Insulator Transition of the Buried $\text{MnO}_2$ Monolayer in Complex Oxide Heterostructure. <i>Advanced Materials</i> , 2016, 28, 9142-9151.	21.0	17
57	Robust Ferromagnetism in Highly Strained $\text{SrCoO}_3$ Thin Films. <i>Physical Review X</i> , 2020, 10, .	8.9	15
58	Nanoscale characterization of emergent phenomena in multiferroics. <i>Current Opinion in Solid State and Materials Science</i> , 2012, 16, 216-226.	11.5	14
59	Strain-Mediated Inverse Photoresistivity in $\text{SrRuO}_3/\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Superlattices. <i>Advanced Functional Materials</i> , 2016, 26, 729-737.	14.9	14
60	Enhanced Magnetocaloric Effect Driven by Interfacial Magnetic Coupling in Self-Assembled $\text{Mn}_3\text{O}_4$ - $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 26504-26511.	8.0	13
61	Multifunctionalities driven by ferroic domains. <i>Journal of Applied Physics</i> , 2014, 116, 066801.	2.5	12
62	Observation of a three-dimensional quasi-long-range electronic supermodulation in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}/\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ heterostructures. <i>Nature Communications</i> , 2016, 7, 10852.	12.8	12
63	Atomic-Scale Control of Electronic Structure and Ferromagnetic Insulating State in Perovskite Oxide Superlattices by Long-Range Tuning of $\text{BO}_6$ Octahedra. <i>Advanced Functional Materials</i> , 2020, 30, 2001984.	14.9	12
64	Influence of a Dy overlayer on the precessional dynamics of a ferromagnetic thin film. <i>Applied Physics Letters</i> , 2013, 102, 062418.	3.3	11
65	Enhanced Structural and Magnetic Coupling in a Mesocrystal-Assisted Nanocomposite. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 1104-1111.	8.0	11
66	Magnetic and Magnetodielectric Properties of Epitaxial Iron Vanadate Thin Films. <i>Advanced Electronic Materials</i> , 2017, 3, 1600295.	5.1	10
67	Electrically enhanced magnetization in highly strained $\text{BiFeO}_3$ films. <i>NPG Asia Materials</i> , 2016, 8, e269-e269.	7.9	9
68	The unconventional doping in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}/\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ heterostructures by termination control. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	8
69	Tetragonal $\text{BiFeO}_3$ on yttria-stabilized zirconia. <i>APL Materials</i> , 2015, 3, 116104.	5.1	6
70	Electric Field Writing of Ferroelectric Nano-Domains Near $71^\circ$ Domain Walls with Switchable Interfacial Conductivity. <i>Annalen Der Physik</i> , 2018, 530, 1800130.	2.4	6
71	Tuning the electronic properties of epitaxial strained $\text{CaFeO}_3$ thin films. <i>Applied Physics Letters</i> , 2019, 114, 221907.	3.3	6
72	Strain Induced Metastable Phase and Phase Revolution in $\text{PbTiO}_3$ - $\text{CoFe}_2\text{O}_4$ Nanocomposite Film. <i>Chinese Physics Letters</i> , 2014, 31, 017701.	3.3	4

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73	Heteroepitaxial $\text{CoFe}_2\text{O}_4$ /Muscovite Bimorph with Large Magnetostriction for Flexible Electronics. , 2016, ,		0