

Aitian Chen

List of Publications by Year in descending order

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27
papers

1,097
citations

567281

15
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552781

26
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all docs

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docs citations

27
times ranked

1525
citing authors

#	ARTICLE	IF	CITATIONS
1	Light-Responsive Ion-Redistribution-Induced Resistive Switching in Hybrid Perovskite Schottky Junctions. <i>Advanced Functional Materials</i> , 2018, 28, 1704665.	14.9	169
2	Electric Field Manipulation of Magnetization Rotation and Tunneling Magnetoresistance of Magnetic Tunnel Junctions at Room Temperature. <i>Advanced Materials</i> , 2014, 26, 4320-4325.	21.0	164
3	Giant nonvolatile manipulation of magnetoresistance in magnetic tunnel junctions by electric fields via magnetoelectric coupling. <i>Nature Communications</i> , 2019, 10, 243.	12.8	94
4	Angular Dependence of Exchange Bias and Magnetization Reversal Controlled by Electric-Field-Induced Competing Anisotropies. <i>Advanced Materials</i> , 2016, 28, 363-369.	21.0	92
5	Bipolar loop-like non-volatile strain in the (001)-oriented Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ single crystals. <i>Scientific Reports</i> , 2014, 4, 4591.	3.3	80
6	Magnetic memory driven by topological insulators. <i>Nature Communications</i> , 2021, 12, 6251.	12.8	67
7	Electric-Field Modulation of Interface Magnetic Anisotropy and Spin Reorientation Transition in (Co/Pt) ₃ /PMN-PT Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10855-10864.	8.0	56
8	Evolution of Ni nanofilaments and electromagnetic coupling in the resistive switching of NiO. <i>Nanoscale</i> , 2015, 7, 642-649.	5.6	49
9	Research Update: Electrical manipulation of magnetism through strain-mediated magnetoelectric coupling in multiferroic heterostructures. <i>APL Materials</i> , 2016, 4, .	5.1	47
10	Spatially Resolved Ferroelectric Domain-Switching-Controlled Magnetism in Co ₄₀ Fe ₄₀ B ₂₀ /Pb(Mg _{1/3} Nb _{2/3}) _{0.7} Ti _{0.3} O ₃ Multiferroic Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 2642-2649.	8.0	40
11	Full voltage manipulation of the resistance of a magnetic tunnel junction. <i>Science Advances</i> , 2019, 5, eaay5141.	10.3	38
12	Strain-Mediated Coexistence of Volatile and Nonvolatile Converse Magnetoelectric Effects in Fe/Pb(Mg _{1/3} Nb _{2/3}) _{0.7} Ti _{0.3} O ₃ Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20637-20647.	8.0	32
13	Electric-Field Control of Magnetism in Co ₄₀ Fe ₄₀ B ₂₀ /(1-x)Pb(Mg _{1/3} Nb _{2/3})O ₃ -xPbTiO ₃ Multiferroic Heterostructures with Different Ferroelectric Phases. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3784-3791.	8.0	31
14	Ferroelectricity and Self-Polarization in Ultrathin Relaxor Ferroelectric Films. <i>Scientific Reports</i> , 2016, 6, 19965.	3.3	29
15	Magnetoresistance Behavior of Conducting Filaments in Resistive-Switching NiO with Different Resistance States. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10835-10846.	8.0	21
16	Current-Induced Magnetization Switching Across a Nearly Room-Temperature Compensation Point in an Insulating Compensated Ferrimagnet. <i>ACS Nano</i> , 2022, 16, 8181-8189.	14.6	17
17	Electrical Manipulation of Exchange Bias in an Antiferromagnet/Ferromagnet-Based Device via Spin-Orbit Torque. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	15
18	Giant magnetoelectric effect in perpendicularly magnetized Pt/Co/Ta ultrathin films on a ferroelectric substrate. <i>Materials Horizons</i> , 2020, 7, 2328-2335.	12.2	12

#	ARTICLE	IF	CITATIONS
19	Magnetoelectric Memory Based on Ferromagnetic/Ferroelectric Multiferroic Heterostructure. <i>Materials</i> , 2021, 14, 4623.	2.9	11
20	Using Dipole Interaction to Achieve Nonvolatile Voltage Control of Magnetism in Multiferroic Heterostructures. <i>Advanced Materials</i> , 2021, 33, e2105902.	21.0	11
21	Unconventional Spin Pumping and Magnetic Damping in an Insulating Compensated Ferrimagnet. <i>Advanced Materials</i> , 2022, 34, e2200019.	21.0	9
22	Electric-Field-Enhanced Bulk Perpendicular Magnetic Anisotropy in $\text{GdFe/Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})_{0.7}\text{Ti}_{0.3}\text{O}_3$ Multiferroic Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47091-47097.	8.0	7
23	Spin transport in multilayer graphene away from the charge neutrality point. <i>Carbon</i> , 2021, 172, 474-479.	10.3	3
24	Perpendicular Exchange Bias of $[\text{Pt}/\text{Co}]_5/\text{IrMn}$ Multilayers on Self-Organized Hexagonally Patterned Nanodots. <i>IEEE Magnetics Letters</i> , 2015, 6, 1-4.	1.1	1
25	Ferroelectric Materials: Angular Dependence of Exchange Bias and Magnetization Reversal Controlled by Electric-Field-Induced Competing Anisotropies (<i>Adv. Mater.</i> 2/2016). <i>Advanced Materials</i> , 2016, 28, 391-391.	21.0	1
26	Nano-magnetic tunnel junctions controlled by electric field for straintronics. <i>Nanoscale</i> , 2021, 13, 16113-16121.	5.6	1
27	Thin-Film-Based Magnetoelectric Heterostructures. , 2022, , 217-228.		0