

Aitian Chen

List of Publications by Year in descending order

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27
papers

1,097
citations

567281

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26
g-index

27
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27
docs citations

27
times ranked

1525
citing authors

#	ARTICLE	IF	CITATIONS
1	Thin-Film-Based Magnetoelectric Heterostructures. , 2022, , 217-228.		0
2	Electrical Manipulation of Exchange Bias in an Antiferromagnet/Ferromagnet-Based Device via Spin-Orbit Torque. Advanced Functional Materials, 2022, 32, .	14.9	15
3	Unconventional Spin Pumping and Magnetic Damping in an Insulating Compensated Ferrimagnet. Advanced Materials, 2022, 34, e2200019.	21.0	9
4	Current-Induced Magnetization Switching Across a Nearly Room-Temperature Compensation Point in an Insulating Compensated Ferrimagnet. ACS Nano, 2022, 16, 8181-8189.	14.6	17
5	Spin transport in multilayer graphene away from the charge neutrality point. Carbon, 2021, 172, 474-479.	10.3	3
6	Magnetoelectric Memory Based on Ferromagnetic/Ferroelectric Multiferroic Heterostructure. Materials, 2021, 14, 4623.	2.9	11
7	Nano-magnetic tunnel junctions controlled by electric field for straintronics. Nanoscale, 2021, 13, 16113-16121.	5.6	1
8	Using Dipole Interaction to Achieve Nonvolatile Voltage Control of Magnetism in Multiferroic Heterostructures. Advanced Materials, 2021, 33, e2105902.	21.0	11
9	Magnetic memory driven by topological insulators. Nature Communications, 2021, 12, 6251.	12.8	67
10	Giant magnetoelectric effect in perpendicularly magnetized Pt/Co/Ta ultrathin films on a ferroelectric substrate. Materials Horizons, 2020, 7, 2328-2335.	12.2	12
11	Electric-Field-Enhanced Bulk Perpendicular Magnetic Anisotropy in GdFe/Pb(Mg _{1/3} Nb _{2/3}) _{0.7} Ti _{0.3} O ₃ Multiferroic Heterostructure. ACS Applied Materials & Interfaces, 2019, 11, 47091-47097.	8.0	7
12	Full voltage manipulation of the resistance of a magnetic tunnel junction. Science Advances, 2019, 5, eaay5141.	10.3	38
13	Giant nonvolatile manipulation of magnetoresistance in magnetic tunnel junctions by electric fields via magnetoelectric coupling. Nature Communications, 2019, 10, 243.	12.8	94
14	Light-Responsive Ion-Redistribution-Induced Resistive Switching in Hybrid Perovskite Schottky Junctions. Advanced Functional Materials, 2018, 28, 1704665.	14.9	169
15	Electric-Field Modulation of Interface Magnetic Anisotropy and Spin Reorientation Transition in (Co/Pt) ₃ /PMN-PT Heterostructure. ACS Applied Materials & Interfaces, 2017, 9, 10855-10864.	8.0	56
16	Magnetoresistance Behavior of Conducting Filaments in Resistive-Switching NiO with Different Resistance States. ACS Applied Materials & Interfaces, 2017, 9, 10835-10846.	8.0	21
17	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. ACS Applied Materials & Interfaces, 2017, 9, 20637-20647.	8.0	32
18	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. ACS Applied Materials & Interfaces, 2017, 9, 2642-2649.	8.0	30

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19	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
20	Research Update: Electrical manipulation of magnetism through strain-mediated magnetoelectric coupling in multiferroic heterostructures. <i>APL Materials</i> , 2016, 4, .	5.1	47
21	Ferroelectricity and Self-Polarization in Ultrathin Relaxor Ferroelectric Films. <i>Scientific Reports</i> , 2016, 6, 19965.	3.3	29
22	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
23	Electric-Field Control of Magnetism in $\text{Co}_{40}\text{Fe}_{40}\text{B}_{20}/(1-x)\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3-x\text{PbTiO}_3$ Multiferroic Heterostructures with Different Ferroelectric Phases. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3784-3791.	8.0	31
24	Perpendicular Exchange Bias of [Pt/Co]5/IrMn Multilayers on Self-Organized Hexagonally Patterned Nanodots. <i>IEEE Magnetics Letters</i> , 2015, 6, 1-4.	1.1	1
25	Evolution of Ni nanofilaments and electromagnetic coupling in the resistive switching of NiO. <i>Nanoscale</i> , 2015, 7, 642-649.	5.6	49
26	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
27	Bipolar loop-like non-volatile strain in the (001)-oriented $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ single crystals. <i>Scientific Reports</i> , 2014, 4, 4591.	3.3	80