

# Mingfeng Chen

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

22

papers

277

citations

9

h-index

16

g-index

27

ext. papers

407

ext. citations

9.4

avg, IF

2.78

L-index

#	Paper	IF	Citations
22	Long decay length of magnon-polarons in BiFeO/LaSrMnO heterostructures.. <i>Nature Communications</i> , <b>2021</b> , 12, 7258	17.4	2
21	Electric-field control of skyrmions in multiferroic heterostructure via magnetoelectric coupling. <i>Nature Communications</i> , <b>2021</b> , 12, 322	17.4	19
20	Annealing modulated magnetism in double-perovskite PrBaMnFeO <sub>5.5</sub> + $\Gamma$ ferromagnetic insulator. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 886, 161311	5.7	0
19	Polarization-switching pathway determined electrical transport behaviors in rhombohedral BiFeO thin films. <i>Nanoscale</i> , <b>2021</b> , 13, 17746-17753	7.7	1
18	Spin wave propagation in a ferrimagnetic thin film with perpendicular magnetic anisotropy. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 232407	3.4	7
17	Remarkable switching of transport properties and surface exchange kinetics in epitaxial PrBaMn <sub>2</sub> O <sub>5</sub> + $\Gamma$ films. <i>Acta Materialia</i> , <b>2020</b> , 186, 517-522	8.4	5
16	Tailoring magnetic order via atomically stacking 3d/5d electrons to achieve high-performance spintronic devices. <i>Applied Physics Reviews</i> , <b>2020</b> , 7, 011401	17.3	10
15	Stabilization of ferroelastic charged domain walls in self-assembled BiFeO <sub>3</sub> nanoislands. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 124103	2.5	2
14	Physical and chemical strains co-tuned magnetic properties of double perovskite PrBaMn <sub>2</sub> O <sub>5.5</sub> + $\Gamma$ epitaxial films. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 081903	3.4	2
13	Geometry confined polar vertex domains in self-assembled BiFeO <sub>3</sub> nano-islands. <i>Materials Research Letters</i> , <b>2019</b> , 7, 399-404	7.4	3
12	Robust polarization switching in self-assembled BiFeO <sub>3</sub> nanoislands with quad-domain structures. <i>Acta Materialia</i> , <b>2019</b> , 175, 324-330	8.4	14
11	Ferroelectric Photodetector with High Current on/off Ratio (~1 $\times$ 10 <sup>4</sup> %) in Self-Assembled Topological Nanoislands. <i>ACS Applied Electronic Materials</i> , <b>2019</b> , 1, 862-868	4	22
10	Acidic aqueous solution switching of magnetism in BiFeO <sub>3</sub> /La <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> heterostructures. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 075301	2.5	1
9	Self-assembly growth of a multiferroic topological nanoisland array. <i>Nanoscale</i> , <b>2019</b> , 11, 20514-20521	7.7	3
8	Thermal Driven Giant Spin Dynamics at Three-Dimensional Heteroepitaxial Interface in NiZnFeO/BaTiO <sub>3</sub> -Pillar Nanocomposites. <i>ACS Nano</i> , <b>2018</b> , 12, 3751-3758	16.7	19
7	Oxygen Vacancy Dynamics at Room Temperature in Oxide Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 5107-5113	9.5	7
6	Controllable conductive readout in self-assembled, topologically confined ferroelectric domain walls. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 947-952	28.7	104

5	Effects of annealing process and the additive on the electrical properties of chemical solution deposition derived $0.65\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.35\text{PbTiO}_3$ thin films. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 16997-17002	2.1	2
4	Low voltage induced reversible magnetoelectric coupling in $\text{Fe}_3\text{O}_4$ thin films for voltage tunable spintronic devices. <i>Materials Horizons</i> , <b>2018</b> , 5, 991-999	14.4	18
3	Ferromagnetism and matrix-dependent charge transfer in strained $\text{LaMnO}_3\text{/LaCoO}_3$ superlattices. <i>Materials Research Letters</i> , <b>2018</b> , 6, 501-507	7.4	11
2	Ca doping effect on the magnetic and electronic transport properties in double perovskite $\text{PrBaCo}_2\text{O}_5$ films. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 232406	3.4	1
1	Interface-Induced Enhancement of Ferromagnetism in Insulating $\text{LaMnO}$ Ultrathin Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 44931-44937	9.5	16