

Yan Wen

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,196
citations

471371

17
h-index

377752

34
g-index

40
all docs

40
docs citations

40
times ranked

2165
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for topological type-II Weyl semimetal WTe ₂ . Nature Communications, 2017, 8, 2150.	5.8	263
2	Spin-momentum locking and spin-orbit torques in magnetic nano-heterojunctions composed of Weyl semimetal WTe ₂ . Nature Communications, 2018, 9, 3990.	5.8	105
3	Giant nonvolatile manipulation of magnetoresistance in magnetic tunnel junctions by electric fields via magnetoelectric coupling. Nature Communications, 2019, 10, 243.	5.8	94
4	Direct writing of room temperature and zero field skyrmion lattices by a scanning local magnetic field. Applied Physics Letters, 2018, 112, .	1.5	68
5	Magnetic memory driven by topological insulators. Nature Communications, 2021, 12, 6251.	5.8	67
6	Determination of chirality and density control of Néel-type skyrmions with in-plane magnetic field. Communications Physics, 2018, 1, .	2.0	48
7	Fractal-Theory-Based Control of the Shape and Quality of CVD-Grown 2D Materials. Advanced Materials, 2019, 31, e1902431.	11.1	48
8	Anisotropic planar Hall effect in the type-II topological Weyl semimetal WTe_2 . Physical Review B, 2019, 100, .	11.1	40
9	Chiral Helimagnetism and One-Dimensional Magnetic Solitons in a Cr-Intercalated Transition Metal Dichalcogenide. Advanced Materials, 2021, 33, e2101131.	11.1	40
10	Temperature dependence of spin-orbit torques in Cu-Au alloys. Physical Review B, 2017, 95, .	1.1	39
11	Creation of a thermally assisted skyrmion lattice in Pt/Co/Ta multilayer films. Applied Physics Letters, 2018, 113, .	1.5	38
12	Full voltage manipulation of the resistance of a magnetic tunnel junction. Science Advances, 2019, 5, eaay5141.	4.7	38
13	Integrated Memory Devices Based on 2D Materials. Advanced Materials, 2022, 34, e2201880.	11.1	33
14	Critical behavior of intercalated quasi-van der Waals ferromagnet F_2O_3 . Physical Review Materials, 2019, 3, .	0.9	29
15	Nonreciprocal charge transport up to room temperature in bulk Rashba semiconductor \pm -GeTe. Nature Communications, 2021, 12, 540.	5.8	27
16	Ultrathin Epitaxial Ferromagnetic Fe_2O_3 Layer as High Efficiency Spin Filtering Materials for Spintronics Device Based on Semiconductors. Advanced Functional Materials, 2016, 26, 5679-5689.	7.8	24
17	Spin Filtering in Epitaxial Spinel Films with Nanoscale Phase Separation. ACS Nano, 2017, 11, 5011-5019.	7.3	24
18	Direct imaging of an inhomogeneous electric current distribution using the trajectory of magnetic half-skyrmions. Science Advances, 2020, 6, eaay1876.	4.7	20

#	ARTICLE	IF	CITATIONS
19	Berry Phase Engineering in SrRuO ₃ /SrIrO ₃ /SrTiO ₃ Superlattices Induced by Band Structure Reconstruction. ACS Nano, 2021, 15, 5086-5095.	7.3	19
20	Weak antilocalization effect and high-pressure transport properties of ScPdBi single crystal. Applied Physics Letters, 2019, 115, .	1.5	17
21	Ten States of Nonvolatile Memory through Engineering Ferromagnetic Remanent Magnetization. Advanced Functional Materials, 2019, 29, 1806460.	7.8	15
22	Deformation of Néel-type skyrmions revealed by Lorentz transmission electron microscopy. Applied Physics Letters, 2020, 116, 142402.	1.5	13
23	Giant magnetoelectric effect in perpendicularly magnetized Pt/Co/Ta ultrathin films on a ferroelectric substrate. Materials Horizons, 2020, 7, 2328-2335.	6.4	12
24	Effect of surface roughness on the anomalous Hall effect in Fe thin films. Physical Review B, 2020, 101, .	1.1	12
25	Using Dipole Interaction to Achieve Nonvolatile Voltage Control of Magnetism in Multiferroic Heterostructures. Advanced Materials, 2021, 33, e2105902.	11.1	11
26	Interfacial scattering effect on anomalous Hall effect in Ni/Au multilayers. Journal Physics D: Applied Physics, 2017, 50, 235002.	1.3	7
27	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.	4.0	7
28	Competition between Electronic and Magnonic Spin Currents in Metallic Antiferromagnets. Physical Review Applied, 2019, 12, .	1.5	6
29	Skew scattering dominated anomalous Hall effect in Co _x (MgO) _{100-<i>x</i>} granular thin films. Journal of Physics Condensed Matter, 2017, 29, 415802.	0.7	5
30	Topological electronic state and anisotropic Fermi surface in half-Heusler GdPtBi. Journal of Physics Condensed Matter, 2020, 32, 355707.	0.7	5
31	Enhancement of critical current density in a superconducting NbSe ₂ step junction. Nanoscale, 2020, 12, 12076-12082.	2.8	4
32	Spin transport in multilayer graphene away from the charge neutrality point. Carbon, 2021, 172, 474-479.	5.4	3
33	Superconductivity and High-Pressure Performance of 2D Mo ₂ C Crystals. Journal of Physical Chemistry Letters, 2021, 12, 2219-2225.	2.1	3
34	Interfacial scattering effect on anisotropic magnetoresistance and anomalous Hall effect in Ta/Fe multilayers. AIP Advances, 2018, 8, 055813.	0.6	2
35	Highly-Sensitive Magnetic Tunnel Junction Based Flow Cytometer. , 2018, , .		1
36	Modulation of Weyl semimetal state in half-Heusler GdPtBi enabled by hydrostatic pressure. New Journal of Physics, 2021, 23, 083041.	1.2	1

#	ARTICLE	IF	CITATIONS
37	Mobility controlled linear magnetoresistance with 3D anisotropy in a layered graphene pallet. Journal Physics D: Applied Physics, 2016, 49, 425005.	1.3	0
38	Magnetic Full Adder Based on Negative Differential Resistance-Enhanced Anomalous Hall Effect. IEEE Magnetics Letters, 2022, 13, 1-5.	0.6	0