

Lu Wei

List of Publications by Year in descending order

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52
papers

887
citations

567281

15
h-index

477307

29
g-index

52
all docs

52
docs citations

52
times ranked

1483
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-temperature intrinsic ferromagnetism in epitaxial CrTe ₂ ultrathin films. Nature Communications, 2021, 12, 2492.	12.8	179
2	Self-consistent determination of spin Hall angle and spin diffusion length in Pt and Pd: The role of the interface spin loss. Science Advances, 2018, 4, eaat1670.	10.3	157
3	Evidence of weak localization in quantum interference effects observed in epitaxial La _{0.7} Sr _{0.3} MnO ₃ ultrathin films. Scientific Reports, 2016, 6, 26081.	3.3	61
4	Full Electric Control of Exchange Bias at Room Temperature by Resistive Switching. Advanced Materials, 2018, 30, e1801885.	21.0	43
5	Magnetic interactions in BiFe _{0.5} Mn _{0.5} O ₃ films and BiFeO ₃ /BiMnO ₃ superlattices. Scientific Reports, 2015, 5, 9093.	3.3	40
6	Observation of spin-orbit magnetoresistance in metallic thin films on magnetic insulators. Science Advances, 2018, 4, eaao3318.	10.3	32
7	Bipolar resistive switching with negative differential resistance effect in a Cu/BaTiO ₃ /Ag device. Physical Chemistry Chemical Physics, 2017, 19, 11864-11868.	2.8	31
8	Direct Demonstration of the Emergent Magnetism Resulting from the Multivalence Mn in a LaMnO ₃ Epitaxial Thin Film System. Advanced Electronic Materials, 2018, 4, 1800055.	5.1	27
9	Magnetoelectricity coupled exchange bias in BaMnF ₄ . Scientific Reports, 2015, 5, 18392.	3.3	20
10	Boosting photocatalytic CO ₂ reduction via Schottky junction with ZnCr layered double hydroxide nanoflakes aggregated on 2D Ti ₃ C ₂ T _x cocatalyst. Nanoscale, 2022, 14, 7538-7546.	5.6	20
11	Exchange bias training relaxation in spin glass/ferromagnet bilayers. Applied Physics Letters, 2016, 108, .	3.3	18
12	Multiferroicity in 0.7Pb(Zr _{0.52} Ti _{0.48})O ₃ -0.3Pb(Ni _{1/3} Nb _{2/3})O ₃ ceramics. Applied Physics Letters, 2012, 100, .	3.3	17
13	Gilbert damping in CoFeB/GaAs(001) film with enhanced in-plane uniaxial magnetic anisotropy. Scientific Reports, 2017, 7, 43971.	3.3	17
14	Experimental characterization of electrochemical synthesized Fe nanowires for biomedical applications. Journal of Applied Physics, 2012, 111, .	2.5	16
15	Temperature dependent exchange bias effect in polycrystalline BiFeO ₃ /FM (FM = NiFe, Co) bilayers. European Physical Journal B, 2013, 86, 1.	1.5	16
16	Exchange bias in Co/Co ₃ O ₄ bilayers. Journal of Applied Physics, 2003, 93, 6587-6589.	2.5	14
17	The multiferroic properties of polycrystalline Bi _{1-x} Y _x FeO ₃ films. Journal of Applied Physics, 2014, 115, 17D902.	2.5	13
18	Ultrafast Orbital-Oriented Control of Magnetization in Half-Metallic La _{0.7} Sr _{0.3} MnO ₃ Films. Advanced Materials, 2019, 31, e1806443.	21.0	13

#	ARTICLE	IF	CITATIONS
19	Strain Control of Phase Transition and Exchange Bias in Flexible Heusler Alloy Thin Films. ACS Applied Materials & Interfaces, 2021, 13, 24285-24294. Room-temperature ferrimagnetic multiferroic BaMnF_4 thin films. https://doi.org/10.1021/acsami.1c01111	8.0	12
20	Room-temperature ferrimagnetic multiferroic BaMnF_4 thin films. https://doi.org/10.1021/acsami.1c01111	2.4	12
21	The wasp-waisted hysteresis loop and exchange bias in multiferroic BaNiF_4 . AIP Advances, 2017, 7, 055827. https://doi.org/10.1063/1.4971111	1.3	11
22	Nonvolatile Electric-Field Control of Ferromagnetic Resonance and Spin Pumping in Pt/YIG at Room Temperature. Advanced Electronic Materials, 2019, 5, 1800663. https://doi.org/10.1002/aelm.201900663	5.1	11
23	Magnetic coherent tunnel junctions with periodic grating barrier. Scientific Reports, 2016, 6, 24300. https://doi.org/10.1038/srep24300	3.3	8
24	Ferromagnetic photocatalysts of $\text{FeTiO}_3/\text{Fe}_2\text{O}_3$ nanocomposites. RSC Advances, 2017, 7, 54594-54602. https://doi.org/10.1039/c6ra25313g	3.6	8
25	Unsaturated magnetoconductance of epitaxial $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ thin films in pulsed magnetic fields up to 60 T. AIP Advances, 2017, 7, 056404. https://doi.org/10.1063/1.4971111	1.3	7
26	The magnetic properties of multiferroic BaCoF_4 . AIP Advances, 2017, 7, . https://doi.org/10.1063/1.4971111	1.3	6
27	Enhanced ferromagnetism in BaNiF_4 film. Journal of Alloys and Compounds, 2018, 741, 265-268. https://doi.org/10.1016/j.jallcom.2018.03.101	5.5	6
28	Enhanced room temperature ferromagnetism in MoS_2 by N plasma treatment. AIP Advances, 2020, 10, . https://doi.org/10.1063/1.5131111	1.3	6
29	Electric control of exchange bias in Co/FeO_x bilayer by resistive switching. AIP Advances, 2020, 10, 015306. https://doi.org/10.1063/1.5131111	1.3	6
30	Low-temperature synthesis of $\text{K}_0.5\text{FeF}_3$ with tunable exchange bias. Applied Physics Letters, 2013, 103, 102405. https://doi.org/10.1063/1.3651111	3.3	5
31	Element specific spin and orbital moments of nanoscale CoFeB amorphous thin films on $\text{GaAs}(100)$. AIP Advances, 2016, 6, 095011. https://doi.org/10.1063/1.4971111	1.3	5
32	The evolution of in-plane magnetic anisotropy in $\text{CoFeB}/\text{GaAs}(001)$ films annealed at different temperatures. AIP Advances, 2018, 8, 056101. https://doi.org/10.1063/1.4971111	1.3	5
33	Direct observation of ferrimagnetic ordering in inverse Heusler alloy Mn_2CoAl . Applied Physics Letters, 2020, 117, . https://doi.org/10.1063/1.5131111	3.3	5
34	Room temperature multiferroism in BaCoF_4 films prepared by pulsed laser deposition. Applied Physics Letters, 2020, 116, . https://doi.org/10.1063/1.5131111	3.3	5
35	A Simple Model to Describe Different Types of Exchange Bias Training Effect. Journal of Superconductivity and Novel Magnetism, 2016, 29, 531-536. https://doi.org/10.1007/s1094-016-9511-1	1.8	4
36	Room temperature multiferroic BaMnF_4 films. Journal of Magnetism and Magnetic Materials, 2020, 494, 165782. https://doi.org/10.1016/j.jmmm.2020.165782	2.3	4

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37	The absence of exchange bias with (001)-oriented tetragonal-like BiFeO ₃ films. Physica Status Solidi (B): Basic Research, 2014, 251, 892-897.	1.5	3
38	Stochastic domain wall depinning in permalloy nanowires with various types of notches. AIP Advances, 2016, 6, .	1.3	3
39	The Thickness-Dependent In-Plane Uniaxial Magnetic Anisotropy in Amorphous CoFeB Films on GaAs(001) Substrates. Journal of Superconductivity and Novel Magnetism, 2016, 29, 2843-2848.	1.8	3
40	Polarization fatigue of BiFeO ₃ films with ferromagnetic metallic electrodes. AIP Advances, 2017, 7, .	1.3	3
41	Element-specific spin and orbital moments and perpendicular magnetic anisotropy in Ta/CoFeB/MgO structures. Journal of Applied Physics, 2020, 127, .	2.5	3
42	Magnetic anisotropy of half-metallic Co ₂ FeAl ultra-thin films epitaxially grown on GaAs(001). AIP Advances, 2019, 9, 065002.	1.3	2
43	The magnetic properties of multiferroic Ba ₅ Fe ₃ F ₁₉ . Journal of Magnetism and Magnetic Materials, 2022, 541, 168541.	2.3	2
44	Anisotropic magnetostructural transition in epitaxial Mn _{1-x} Ni _x Co _{1-x} Ti Heusler alloy thin film. Journal of Applied Physics, 2022, 131, 173902.	2.5	2
45	Epitaxial growth of high-entropy alloy thin film with spontaneous exchange bias. Journal of Applied Physics, 2022, 131, 233904.	2.5	2
46	The Multiferroic Properties of Bi _x FeO ₃ and Bi _{1-y} Li _y FeO ₃ . Journal of Superconductivity and Novel Magnetism, 2016, 29, 1821-1825.	1.8	1
47	Magnetoresistance effect in permalloy nanowires with various types of notches. AIP Advances, 2018, 8, 055924.	1.3	1
48	Emergent Ferromagnetism: Direct Demonstration of the Emergent Magnetism Resulting from the Multivalence Mn in a LaMnO ₃ Epitaxial Thin Film System (Adv. Electron. Mater. 6/2018). Advanced Electronic Materials, 2018, 4, 1870030.	5.1	1
49	Tuning interfacial spin pump in Ta/CoFeB/MgO films by ultrafast laser pulse. Applied Physics Letters, 2021, 119, 092404.	3.3	1
50	BiFeO ₃ thickness dependence of the exchange bias in polycrystalline BiFeO ₃ /NiFe bilayers. Journal of the Korean Physical Society, 2013, 62, 1950-1953.	0.7	0
51	Interface Magnetic and Electrical Properties of CoFeB/InAs Heterostructures. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	0
52	Effects of Resistance States on the Magnetoresistance in Ni/Al ₂ O ₃ /Ni by Resistive Switching. Journal of Superconductivity and Novel Magnetism, 2020, 33, 1905-1909.	1.8	0