

Lu Wei

List of Publications by Year in descending order

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1483
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| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | The magnetic properties of multiferroic Ba ₅ Fe ₃ F ₁₉ . Journal of Magnetism and Magnetic Materials, 2022, 541, 168541. | 2.3 | 2 |
| 2 | 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 |
| 3 | Anisotropic magnetostructural transition in epitaxial Mn ²⁺ /Co ²⁺ /Ti Heusler alloy thin film. Journal of Applied Physics, 2022, 131, 173902. | 2.5 | 2 |
| 4 | Epitaxial growth of high-entropy alloy thin film with spontaneous exchange bias. Journal of Applied Physics, 2022, 131, 233904. | 2.5 | 2 |
| 5 | Room-temperature intrinsic ferromagnetism in epitaxial CrTe ₂ ultrathin films. Nature Communications, 2021, 12, 2492. | 12.8 | 179 |
| 6 | Strain Control of Phase Transition and Exchange Bias in Flexible Heusler Alloy Thin Films. ACS Applied Materials & Interfaces, 2021, 13, 24285-24294. | 8.0 | 12 |
| 7 | Tuning interfacial spin pump in Ta/CoFeB/MgO films by ultrafast laser pulse. Applied Physics Letters, 2021, 119, 092404. | 3.3 | 1 |
| 8 | Room temperature multiferroic BaMnF ₄ films. Journal of Magnetism and Magnetic Materials, 2020, 494, 165782. | 2.3 | 4 |
| 9 | Direct observation of ferrimagnetic ordering in inverse Heusler alloy Mn ₂ CoAl. Applied Physics Letters, 2020, 117, . | 3.3 | 5 |
| 10 | Enhanced room temperature ferromagnetism in MoS ₂ by N plasma treatment. AIP Advances, 2020, 10, . | 1.3 | 6 |
| 11 | Electric control of exchange bias in Co/FeO _x bilayer by resistive switching. AIP Advances, 2020, 10, 015306. | 1.3 | 6 |
| 12 | Room temperature multiferroism in BaCoF ₄ films prepared by pulsed laser deposition. Applied Physics Letters, 2020, 116, . | 3.3 | 5 |
| 13 | 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 |
| 14 | Element-specific spin and orbital moments and perpendicular magnetic anisotropy in Ta/CoFeB/MgO structures. Journal of Applied Physics, 2020, 127, . | 2.5 | 3 |
| 15 | Magnetic anisotropy of half-metallic Co ₂ FeAl ultra-thin films epitaxially grown on GaAs(001). AIP Advances, 2019, 9, 065002. | 1.3 | 2 |
| 16 | Ultrafast Orbital ^o -Oriented Control of Magnetization in Half ^o -Metallic La _{0.7} Sr _{0.3} MnO ₃ Films. Advanced Materials, 2019, 31, e1806443. | 21.0 | 13 |
| 17 | Nonvolatile Electric ^o -Field Control of Ferromagnetic Resonance and Spin Pumping in Pt/YIG at Room Temperature. Advanced Electronic Materials, 2019, 5, 1800663. | 5.1 | 11 |
| 18 | Observation of spin-orbit magnetoresistance in metallic thin films on magnetic insulators. Science Advances, 2018, 4, eaao3318. | 10.3 | 32 |

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|----|---|------|-----------|
| 19 | Enhanced ferromagnetism in BaNiF ₄ film. Journal of Alloys and Compounds, 2018, 741, 265-268. | 5.5 | 6 |
| 20 | 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 |
| 21 | The evolution of in-plane magnetic anisotropy in CoFeB/GaAs(001) films annealed at different temperatures. AIP Advances, 2018, 8, 056101. | 1.3 | 5 |
| 22 | Magneto-resistance effect in permalloy nanowires with various types of notches. AIP Advances, 2018, 8, 055924. | 1.3 | 1 |
| 23 | 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 |
| 24 | Full Electric Control of Exchange Bias at Room Temperature by Resistive Switching. Advanced Materials, 2018, 30, e1801885. | 21.0 | 43 |
| 25 | 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). Room-temperature ferromagnetic multiferroic BiFeO ₃ /Pt | 5.1 | 1 |
| 26 | Room-temperature ferromagnetic multiferroic BiFeO ₃ /Pt xhtmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>BiF</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">o</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> thin | 2.4 | 12 |
| 27 | Unsaturated magnetoconductance of epitaxial La _{0.7} Sr _{0.3} MnO ₃ thin films in pulsed magnetic fields up to 60 T. AIP Advances, 2017, 7, 056404. | 1.3 | 7 |
| 28 | The magnetic properties of multiferroic BaCoF ₄ . AIP Advances, 2017, 7, . | 1.3 | 6 |
| 29 | 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 |
| 30 | Polarization fatigue of BiFeO ₃ films with ferromagnetic metallic electrodes. AIP Advances, 2017, 7, . | 1.3 | 3 |
| 31 | Gilbert damping in CoFeB/GaAs(001) film with enhanced in-plane uniaxial magnetic anisotropy. Scientific Reports, 2017, 7, 43971. | 3.3 | 17 |
| 32 | Ferromagnetic photocatalysts of FeTiO ₃ â€Fe ₂ O ₃ nanocomposites. RSC Advances, 2017, 7, 54594-54602. | 3.6 | 8 |
| 33 | The wasp-waisted hysteresis loop and exchange bias in multiferroic BaNiF ₄ . AIP Advances, 2017, 7, 055827. | 1.3 | 11 |
| 34 | Interface Magnetic and Electrical Properties of CoFeB /InAs Heterostructures. IEEE Transactions on Magnetism, 2017, 53, 1-4. | 2.1 | 0 |
| 35 | Exchange bias training relaxation in spin glass/ferromagnet bilayers. Applied Physics Letters, 2016, 108, . | 3.3 | 18 |
| 36 | Element specific spin and orbital moments of nanoscale CoFeB amorphous thin films on GaAs(100). AIP Advances, 2016, 6, 095011. | 1.3 | 5 |

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|----|--|-----|-----------|
| 37 | Magnetic coherent tunnel junctions with periodic grating barrier. Scientific Reports, 2016, 6, 24300. | 3.3 | 8 |
| 38 | Stochastic domain wall depinning in permalloy nanowires with various types of notches. AIP Advances, 2016, 6, . | 1.3 | 3 |
| 39 | The Multiferroic Properties of Bi_xFeO_3 and $\text{Bi}_{1-y}\text{Li}_y\text{FeO}_3$. Journal of Superconductivity and Novel Magnetism, 2016, 29, 1821-1825. | 1.8 | 1 |
| 40 | 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 |
| 41 | Evidence of weak localization in quantum interference effects observed in epitaxial $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ ultrathin films. Scientific Reports, 2016, 6, 26081. | 3.3 | 61 |
| 42 | A Simple Model to Describe Different Types of Exchange Bias Training Effect. Journal of Superconductivity and Novel Magnetism, 2016, 29, 531-536. | 1.8 | 4 |
| 43 | Magnetoelectricity coupled exchange bias in BaMnF_4 . Scientific Reports, 2015, 5, 18392. | 3.3 | 20 |
| 44 | Magnetic interactions in $\text{BiFe}_{0.5}\text{Mn}_{0.5}\text{O}_3$ films and $\text{BiFeO}_3/\text{BiMnO}_3$ superlattices. Scientific Reports, 2015, 5, 9093. | 3.3 | 40 |
| 45 | The multiferroic properties of polycrystalline $\text{Bi}_{1-x}\text{Y}_x\text{FeO}_3$ films. Journal of Applied Physics, 2014, 115, 17D902. | 2.5 | 13 |
| 46 | 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 |
| 47 | Temperature dependent exchange bias effect in polycrystalline BiFeO_3/FM ($\text{FM} = \text{NiFe, Co}$) bilayers. European Physical Journal B, 2013, 86, 1. | 1.5 | 16 |
| 48 | BiFeO_3 thickness dependence of the exchange bias in polycrystalline $\text{BiFeO}_3/\text{NiFe}$ bilayers. Journal of the Korean Physical Society, 2013, 62, 1950-1953. | 0.7 | 0 |
| 49 | Low-temperature synthesis of $\text{K}_{0.5}\text{FeF}_3$ with tunable exchange bias. Applied Physics Letters, 2013, 103, 102405. | 3.3 | 5 |
| 50 | Multiferroicity in $0.7\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3-0.3\text{Pb}(\text{Ni}_{1/3}\text{Nb}_{2/3})\text{O}_3$ ceramics. Applied Physics Letters, 2012, 100, . | 3.3 | 17 |
| 51 | Experimental characterization of electrochemical synthesized Fe nanowires for biomedical applications. Journal of Applied Physics, 2012, 111, . | 2.5 | 16 |
| 52 | Exchange bias in $\text{Co}/\text{Co}_3\text{O}_4$ bilayers. Journal of Applied Physics, 2003, 93, 6587-6589. | 2.5 | 14 |