

# Wei He

## List of Publications by Year in descending order

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64  
papers

706  
citations

567281

15  
h-index

642732

23  
g-index

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all docs

65  
docs citations

65  
times ranked

1042  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric-Field Modulation of Interface Magnetic Anisotropy and Spin Reorientation Transition in (Co/Pt) <sub>3</sub> /PMN/PT Heterostructure. ACS Applied Materials & Interfaces, 2017, 9, 10855-10864.	8.0	56
2	Synthesis and magnetic properties of Fe <sub>3</sub> Pt nanowire arrays fabricated by electrodeposition. Applied Physics Letters, 2005, 86, 232506.	3.3	45
3	Ultrafast Photoinduced Multimode Antiferromagnetic Spin Dynamics in Exchange-Coupled Fe/RFEO <sub>3</sub> (R = Er or Dy) Heterostructures. Advanced Materials, 2018, 30, e1706439.	21.0	37
4	Large Tunable Spin-to-Charge Conversion Induced by Hybrid Rashba and Dirac Surface States in Topological Insulator Heterostructures. Nano Letters, 2019, 19, 4420-4426.	9.1	37
5	Ultrafast demagnetization enhancement in CoFeB/MgO/CoFeB magnetic tunneling junction driven by spin tunneling current. Scientific Reports, 2013, 3, 2883.	3.3	29
6	Applied field Mössbauer study of shape anisotropy in Fe nanowire arrays. Applied Physics Letters, 2004, 85, 4690-4692.	3.3	28
7	Unifying ultrafast demagnetization and intrinsic Gilbert damping in Co/Ni bilayers with electronic relaxation near the Fermi surface. Physical Review B, 2017, 96, .	3.2	28
8	Observation of a Griffiths-like phase in bilayered manganites. Applied Physics Letters, 2007, 90, 032502.	3.3	26
9	Symmetry breaking induced magnon-magnon coupling in synthetic antiferromagnets. Physical Review B, 2021, 103, .	3.2	25
10	Summertime aerosol chemical components in the marine boundary layer of the Arctic Ocean. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	22
11	Surface morphology and magnetic anisotropy of obliquely deposited Co/Si(111) films. Applied Physics Letters, 2010, 97, 022507.	3.3	22
12	Determination of magnetic anisotropies in ultrathin iron films on vicinal Si(111) substrate by the ferromagnetic resonance. Applied Physics Letters, 2010, 96, 142511.	3.3	21
13	Tuning magnetic anisotropies of Fe films on Si(111) substrate via direction variation of heating current. Scientific Reports, 2013, 3, 1547.	3.3	20
14	Enhancement of ultrafast demagnetization rate and Gilbert damping driven by femtosecond laser-induced spin currents in $F_{e1}G_{e1}$	3.2	19
15	Probing temperature-driven spin reorientation transition of GdFeCo film by Kerr loops and ferromagnetic resonance. Applied Physics Letters, 2015, 106, .	3.3	17
16	Three-Dimensional Limit of Bulk Rashba Effect in Ferroelectric Semiconductor GeTe. Nano Letters, 2021, 21, 77-83.	9.1	17
17	Analysis of the elemental sulfur bio-oxidation by Acidithiobacillus ferrooxidans with sulfur K-edge XANES. World Journal of Microbiology and Biotechnology, 2011, 27, 1927-1931.	3.6	15
18	Laser-induced magnetization dynamics in a van der Waals ferromagnetic Cr <sub>2</sub> Ge <sub>2</sub> Te <sub>6</sub> nanoflake. Applied Physics Letters, 2020, 116, .	3.3	15

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19	Structure and magnetic properties of the self-assembled Co <sub>52</sub> Pt <sub>48</sub> nanowire arrays. Applied Physics Letters, 2008, 92, .	3.3	14
20	Determination of magnetic anisotropy constants and domain wall pinning energy of Fe/MgO(001) ultrathin film by anisotropic magnetoresistance. Scientific Reports, 2015, 5, 14114.	3.3	14
21	Anisotropic Magnon-Magnon Coupling in Synthetic Antiferromagnets. Chinese Physics Letters, 2021, 38, 057502.	3.3	12
22	Magnetic anisotropy of ultrathin Fe films grown on vicinal Si (111). AIP Advances, 2013, 3, .	1.3	11
23	Probing nonlinear magnetization dynamics in Fe/MgO(001) film by all optical pump-probe technique. Applied Physics Letters, 2014, 104, .	3.3	11
24	Visualizing Tailored Spin Phenomena in a Reduced-Dimensional Topological Superlattice. Advanced Materials, 2020, 32, e2005315.	21.0	11
25	Magnetization reversal asymmetry in [Co/Pt]/CoFe/IrMn multilayers with enhanced perpendicular exchange bias. Journal of Applied Physics, 2013, 113, .	2.5	10
26	Target station status of China Spallation Neutron Source. Neutron News, 2018, 29, 2-6.	0.2	10
27	Drag effect induced large anisotropic damping behavior in magnetic thin films with strong magnetic anisotropy. Journal of Physics Condensed Matter, 2021, 33, 175801.	1.8	9
28	Thermal reliability analysis of the central detector of JUNO. Radiation Detection Technology and Methods, 2019, 3, 1.	0.8	8
29	Determination of spin pumping effect in CoFeB/Ir bilayer. Journal of Magnetism and Magnetic Materials, 2020, 497, 165971.	2.3	8
30	Monte Carlo simulation of magnetic properties of irregular Fe islands on Pb/Si(111) substrate based on the scanning tunneling microscopy image. Applied Physics Letters, 2010, 96, 132502.	3.3	7
31	Nano-faceting of Cu capping layer grown on Fe/Si (111) and its effect on magnetic anisotropy. Journal of Applied Physics, 2012, 112, .	2.5	7
32	The design of the small prototype for the central detector of JUNO. Radiation Detection Technology and Methods, 2018, 2, 1.	0.8	7
33	Large spin to charge conversion in the topological superconductor $\text{Bi}_2\text{Te}_3$ at room temperature. Physical Review B, 2020, 102, .		
34	Characterizing the Magnetic Interfacial Coupling of the Fe/FeGe Heterostructure by Ferromagnetic Resonance. ACS Applied Materials & Interfaces, 2020, 12, 46908-46913.	8.0	7
35	Study of monolayer dispersion of MoO <sub>3</sub> on muscovite powder and diffusing behavior of MoO <sub>3</sub> on muscovite wafer by SR-TXRF. Journal of Materials Chemistry, 2003, 13, 102-105.	6.7	6
36	Effect of Cu buffer layer on magnetic anisotropy of cobalt thin films deposited on MgO(001) substrate. AIP Advances, 2016, 6, 115101.	1.3	6



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55	Uniaxial magnetic anisotropy of quasi-one-dimensional Fe chains on Pb/Si: A Monte Carlo simulation. Journal of Applied Physics, 2010, 108, 083916.	2.5	1
56	Operation of the CSNS Penning surface H <sup>+</sup> ion source. Science China: Physics, Mechanics and Astronomy, 2011, 54, 245-248.	5.1	1
57	Unsymmetrical magnetization switching in Fe/Si(001) single crystalline film induced by weak bias field. Journal of Applied Physics, 2014, 115, 123910.	2.5	1
58	Thickness-induced spin-reorientation originated from competing magnetic shape anisotropies. AIP Advances, 2017, 7, 056311.	1.3	1
59	Anomalous Gilbert damping induced by the coexisting static and dynamic coupling in Fe/Pd/Fe trilayers. Physical Review B, 2021, 104, .	3.2	1
60	Evaluation of anti-osteoporosis in ovariectomized Wistar rats treated with antler blood by synchrotron radiation X-ray fluorescence microprobe. Spectroscopy, 2009, 23, 1-9.	0.8	1
61	Research on thermoforming process of JUNO large acrylic spherical panel. Radiation Detection Technology and Methods, 2022, 6, 122-128.	0.8	1
62	Mercury and lead in a single strand of pinnule of snow petrel (Pagodroma Nivea) in the Antarctic. Diqu Huaxue, 2006, 25, 196-196.	0.5	0
63	Elemental distributions in rat olfactory bulbs after exposure to MnCl <sub>2</sub> measured by synchrotron radiation X-ray fluorescence. Journal of Radioanalytical and Nuclear Chemistry, 2007, 272, 589-593.	1.5	0
64	Design and Fabrication of InGaAs FPAs Integrated With InP Mie Resonators. IEEE Photonics Technology Letters, 2022, 34, 641-644.	2.5	0