

# Zhong Shi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5646717/publications.pdf>

Version: 2024-02-01

68  
papers

1,508  
citations

361296

20  
h-index

315616

38  
g-index

68  
all docs

68  
docs citations

68  
times ranked

1947  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Reactivity and Electron Selectivity of Sulfidated Zerovalent Iron toward Chromate under Aerobic Conditions. <i>Environmental Science &amp; Technology</i> , 2018, 52, 2988-2997.	4.6	207
2	Quadratic Scaling of Intrinsic Gilbert Damping with Spin-Orbital Coupling in $\text{FePdPt}$ Films: Experiments and <i>Ab Initio</i> Calculations. <i>Physical Review Letters</i> , 2013, 110, 077203.	2.9	139
3	Coupled Effects of Aging and Weak Magnetic Fields on Sequestration of Selenite by Zero-Valent Iron. <i>Environmental Science &amp; Technology</i> , 2014, 48, 6326-6334.	4.6	139
4	Chemical Composition Tuning of the Anomalous Hall Effect in Isoelectronic $\text{FePt}$ Films. <i>Physical Review Letters</i> , 2012, 109, 066402.	2.9	89
5	Characterization and Manipulation of Spin Orbit Torque in Magnetic Heterostructures. <i>Advanced Materials</i> , 2018, 30, e1705699.	11.1	85
6	Enhanced Cr(VI) removal by zero-valent iron coupled with weak magnetic field: Role of magnetic gradient force. <i>Separation and Purification Technology</i> , 2017, 176, 40-47.	3.9	63
7	Direct observation of magnon-phonon coupling in yttrium iron garnet. <i>Physical Review B</i> , 2017, 96, .	1.1	61
8	Magnetotransport in metal/insulating-ferromagnet heterostructures: Spin Hall magnetoresistance or magnetic proximity effect. <i>Physical Review B</i> , 2015, 92, .	1.1	60
9	Improving the Reactivity of Zerovalent Iron by Taking Advantage of Its Magnetic Memory: Implications for Arsenite Removal. <i>Environmental Science &amp; Technology</i> , 2015, 49, 10581-10588.	4.6	59
10	Tuning anomalous Hall conductivity in L1 FePt films by long range chemical ordering. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	43
11	Spin Seebeck Effect from Antiferromagnetic Magnons and Critical Spin Fluctuations in Epitaxial $\text{FeF}_2$ Films. <i>Physical Review Letters</i> , 2019, 122, 217204.	2.9	38
12	Anomalous Hall effect in epitaxial permalloy thin films. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	35
13	Delayed-switch-on effect in metal-insulator-metal organic memories. <i>Applied Physics Letters</i> , 2007, 91, 143511.	1.5	25
14	Mapping motion of antiferromagnetic interfacial uncompensated magnetic moment in exchange-biased bilayers. <i>Scientific Reports</i> , 2015, 5, 9183.	1.6	24
15	Magneto-optical Kerr effect in perpendicularly magnetized Co/Pt films on two-dimensional colloidal crystals. <i>Applied Physics Letters</i> , 2009, 95, 032502.	1.5	23
16	Tuning magnetotransport in PdPt/Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> : Effects of magnetic proximity and spin-orbit coupling. <i>Applied Physics Letters</i> , 2014, 105, 012408.	1.5	23
17	Exchange bias in ferromagnet/antiferromagnet bilayers. <i>Chinese Physics B</i> , 2014, 23, 027503.	0.7	23
18	Deficiency of the bulk spin Hall effect model for spin-orbit torques in magnetic-insulator/heavy-metal heterostructures. <i>Physical Review B</i> , 2017, 95, .	1.1	23

#	ARTICLE	IF	CITATIONS
19	Angular dependence of the magnetoresistance effect in a silicon based p-n junction device. <i>Nanoscale</i> , 2014, 6, 3978-3983.	2.8	20
20	Asymmetric Spin-Orbit-Torque-Induced Magnetization Switching With a Noncollinear In-Plane Assisting Magnetic Field. <i>Physical Review Applied</i> , 2019, 11, .	1.5	20
21	Anomalous training effect of perpendicular exchange bias in Pt/Co/Pt/IrMn multilayers. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	19
22	Exchange bias, training effect, hysteretic behavior of angular dependence, and rotational hysteresis loss in NiFe/FeMn bilayer: Effect of antiferromagnet layer thickness. <i>Journal of Applied Physics</i> , 2009, 105, 053913.	1.1	18
23	Magnetization switching induced by magnetic field and electric current in perpendicular TblG/Pt bilayers. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	17
24	Complex anomalous Hall effect of CoGd alloy near the magnetization compensation temperature. <i>Physical Review B</i> , 2021, 103, .	1.1	17
25	Torque approach for tuning exchange bias training effect in polycrystalline NiFe/FeMn bilayers. <i>Applied Physics Letters</i> , 2011, 98, 122507.	1.5	15
26	Clear evidence of interfacial anomalous Hall effect in epitaxial $L_1$ FePt and FePd films. <i>Physical Review B</i> , 2018, 98, .	1.4	14
27	Alloy Films: Berry Curvature and Thermal Spin Current. <i>Physical Review Applied</i> , 2020, 13, .	1.5	14
28	Temperature-Dependent Asymmetry of Anisotropic Magnetoresistance in Silicon p-n Junctions. <i>Scientific Reports</i> , 2015, 5, 11096.	1.6	13
29	Ferroic phase transitions and switching properties of modified BiFeO <sub>3</sub> /SrTiO <sub>3</sub> multiferroic perovskites. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 12067-12073.	1.1	12
30	Asymmetric recovery effect of exchange bias in polycrystalline NiFe/FeMn bilayers. <i>Journal of Applied Physics</i> , 2009, 106, 063903.	1.1	10
31	Exchange bias in NiFe/granular-FeMn/MgO bilayers. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	9
32	Magnetization reversal in perpendicularly magnetized L1 FePd/FePt heterostructures. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	9
33	Asymmetric exchange bias training effect in spin glass (FeAu)/FeNi bilayers. <i>Chinese Physics B</i> , 2014, 23, 107502.	0.7	8
34	Effect of band filling on anomalous Hall conductivity and magneto-crystalline anisotropy in NiFe epitaxial thin films. <i>AIP Advances</i> , 2016, 6, 015101.	0.6	8
35	Anomalous Hall effect in magnetic disordered alloys: Effects of spin orbital coupling. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	7
36	Ferromagnet structural tuning of interfacial symmetry breaking and spin Hall angle in ferromagnet/heavy metal bilayers. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	7

#	ARTICLE	IF	CITATIONS
37	Correlation between isotropic ferromagnetic resonance field shift and rotatable anisotropy in polycrystalline NiFe/FeMn bilayers. <i>Thin Solid Films</i> , 2010, 518, 2175-2178.	0.8	6
38	Exchange bias of perpendicularly magnetized [Co/Pt]3/IrMn multilayer on porous anodized alumina. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	6
39	Static and dynamic origins of interfacial anomalous Hall effect in W/YIG heterostructures. <i>Applied Physics Letters</i> , 2020, 117, 122405.	1.5	6
40	Role of Magnon-Magnon Scattering in Magnon Polaron Spin Seebeck Effect. <i>Physical Review Letters</i> , 2021, 127, 277203.	2.9	6
41	Exchange bias of NiFe/FeMn nanocaps. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 065003.	1.3	5
42	Composition-controlled exchange bias training effect in FeCr/IrMn bilayers. <i>European Physical Journal B</i> , 2011, 84, 173-176.	0.6	5
43	Tunable interface anisotropy in a Pt/Co1 <sup>x</sup> Fe <sub>x</sub> /Pt multilayer. <i>Chinese Physics B</i> , 2013, 22, 067504.	0.7	5
44	Magneto-optical Kerr effect in L1 FePdPt ternary alloys: Experiments and first-principles calculations. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	5
45	Tuning of the intrinsic magnetic damping parameter in epitaxial CoNi(001) films : Role of the band-filling effect. <i>Physical Review B</i> , 2019, 100, .	1.1	5
46	Gate voltage tuning of spin current in Pt/yttrium iron garnet heterostructure. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 175304.	1.3	5
47	Generation and Detection of Dresselhaus <sup>€</sup> Like Spin Current in a Single <sup>€</sup> Crystal Ferromagnetic Metal. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	5
48	Abnormal Temperature Dependence of Coercivity in Cobalt Nanowires. <i>Chinese Physics Letters</i> , 2012, 29, 077802.	1.3	4
49	Crystal growth, spin reorientation and magnetic anisotropy of YFe <sub>0.8</sub> Mn <sub>0.2</sub> O <sub>3</sub> single crystal. <i>Solid State Communications</i> , 2016, 247, 64-67.	0.9	4
50	A Simple Model to Describe Different Types of Exchange Bias Training Effect. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016, 29, 531-536.	0.8	4
51	Thickness dependent structural ordering and magnetic properties of Co <sub>2</sub> FeSi films with or without a Cr buffer layer. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 355005.	1.3	4
52	Anomalous Nernst effect in epitaxial Fe and Fe <sub>x</sub> Ni <sub>1-x</sub> alloy thin films. <i>AIP Advances</i> , 2019, 9, 035227.	0.6	4
53	Adjustable magnetoresistance in semiconducting carbonized phthalonitrile resin. <i>Chemical Communications</i> , 2021, 57, 9894-9897.	2.2	4
54	Hysteretic behavior of angular dependence of exchange bias in FeNi <sup>^</sup> FeMn bilayers: A new signature. <i>Journal of Applied Physics</i> , 2008, 103, 07E926.	1.1	3

#	ARTICLE	IF	CITATIONS
55	Structure and magnetization reversal mechanism in L10 FePt films with perpendicular magnetic anisotropy. <i>Thin Solid Films</i> , 2012, 520, 5746-5751.	0.8	3
56	The absence of exchange bias with (001)-oriented tetragonal-like BiFeO <sub>3</sub> films. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 892-897.	0.7	3
57	Fabrication and magnetocrystalline anisotropy of NiCo(002) films. <i>Chinese Physics B</i> , 2015, 24, 037507.	0.7	3
58	Surface modes enhanced magneto-optical Kerr effect in Fe films underneath two-dimensional array of polystyrene spheres. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 405002.	1.3	2
59	The subwavelength tuned magneto-optical Kerr effect in L1<sub>0</sub>-FePt films with perpendicular magnetic anisotropy. <i>Chinese Physics B</i> , 2013, 22, 117803.	0.7	2
60	Thickness dependence of the anomalous Hall effect in disordered face-centered cubic FePt alloy films. <i>Chinese Physics B</i> , 2014, 23, 017104.	0.7	2
61	Tuning Effects of Spin-Orbit Coupling in L1<sub>0</sub> Ordered and Disordered FePdPt Films. <i>Spin</i> , 2015, 05, 1530004.	0.6	2
62	The ferromagnetic resonance in WxMo <sub>1-x</sub> /YIG heterostructures. <i>AIP Advances</i> , 2018, 8, 056120.	0.6	2
63	Anomalous Nernst effect in disordered FePtPd ternary alloy films. <i>AIP Advances</i> , 2019, 9, .	0.6	2
64	Nanoscale probing of asymmetric magnetization reversal in perpendicularly exchange biased Pt/Co/Pt/IrMn multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 474, 127-131.	1.0	2
65	Tunable Magneto-Optical Kerr Effect in Fe Films Underneath a Two-Dimensional Array of Polystyrene Spheres Covered by Au Nanocaps. <i>Chinese Physics Letters</i> , 2013, 30, 037801.	1.3	1
66	Thermal relaxation of magnons and phonons near resonance points in magnetic insulators. <i>Europhysics Letters</i> , 2020, 129, 57001.	0.7	1
67	Modulating the Verwey Transition of Epitaxial Magnetite Thin Films by Ionic Gating. <i>Advanced Functional Materials</i> , 2021, 31, 2104816.	7.8	1
68	The Hysteretic Behavior of Angular Dependence of Exchange Bias in NiFe/granular-FeMn-MgO Bilayers. <i>Chinese Physics Letters</i> , 2013, 30, 027501.	1.3	0