Jingyan Zhang

List of Publications by Year
in descending order

36 papers	386 citations	933447 10 h-index	794594 19 g-index
36 all docs	36 docs citations	36 times ranked	437 citing authors

#	Article	IF	Citations
1	Large enhancement of the anomalous Hall effect in Co/Pt multilayers sandwiched by MgO layers. Applied Physics Letters, 2010, 97, .	3.3	52
2	Three dimensional magnetic abacus memory. Scientific Reports, 2014, 4, 6109.	3.3	33
3	Effect of interfacial structures on anomalous Hall behavior in perpendicular Co/Pt multilayers. Applied Physics Letters, 2013, 102, .	3.3	32
4	Extraordinary hall balance. Scientific Reports, 2013, 3, 2087.	3.3	30
5	Magnetic Skyrmions in a Hall Balance with Interfacial Canted Magnetizations. Advanced Materials, 2020, 32, e1907452.	21.0	26
6	Ru Catalyst-Induced Perpendicular Magnetic Anisotropy in MgO/CoFeB/Ta/MgO Multilayered Films. ACS Applied Materials & Interfaces, 2015, 7, 26643-26648.	8.0	22
7	Magnetic Exchange Field Modulation of Quantum Hall Ferromagnetism in 2D van der Waals CrCl₃/Graphene Heterostructures. ACS Applied Materials & Interfaces, 2021, 13, 10656-10663.	8.0	17
8	Enhancement of spinâ€“orbit torque via interfacial hydrogen and oxygen ion manipulation. Applied Physics Letters, 2019, 115, 092402.	3.3	15
9	Superconductivity in Co-Layered LaCoSi. Inorganic Chemistry, 2021, 60, 6157-6161.	4.0	15
10	Tunable magnetic properties and magnetocaloric effect of TmGa by Ho substitution. Physical Review B, 2020, 102, .	3.2	12
11	Tuning giant anomalous Hall resistance ratio in perpendicular Hall balance. Applied Physics Letters, 2015, 106, 152401.	3.3	11
12	Nonvolatile modulation of electronic structure and correlative magnetism of L10-FePt films using significant strain induced by shape memory substrates. Scientific Reports, 2016, 6, 20199.	3.3	11
13	Low working temperature near liquid helium boiling point of RNiAl2 (Râ€‰=â€‰Tm, Tb and Gd) compounds with large magnetocaloric effect. Journal of Applied Physics, 2019, 125, .	2.5	11
14	Large Linear Negative Thermal Expansion in NiAs-type Magnetic Intermetallic Crâ€“Teâ€“Se Compounds. Inorganic Chemistry, 2020, 59, 8603-8608.	4.0	11
15	Fieldâ€Free Magnetization Switching Driven by Spinâ€“Orbit Torque in L1₀â€FeCrPt Single Layer. Advanced Functional Materials, 2022, 32, .	14.9	10
16	Magnetic properties and magnetocaloric effect of HoCo3B2 compound. AIP Advances, 2018, 8, .	1.3	9
17	Tunable damping-like and field-like spin-orbit-torque in Pt/Co/HfO2 films via interfacial charge transfer. Applied Physics Letters, 2019, 115, .	3.3	9
18	Effect of interlayer Dzyaloshinskii-Moriya interaction on spin structure in synthetic antiferromagnetic multilayers. Physical Review B, 2022, 105, .	3.2	9

#	Article	IF	Citations
19	Large magnetocaloric effect of NdGa compound due to successive magnetic transitions. AIP Advances, 2018, 8, .	1.3	8
20	Greatly Enhanced Methanol Oxidation Reaction of <scp>CoPt</scp> Truncated Octahedral Nanoparticles by External Magnetic Fields. Energy and Environmental Materials, 2023, 6, .	12.8	6
21	Implementation of complete Boolean logic functions in single spinâ€“orbit torque device. AIP Advances, 2021, 11, .	1.3	5
22	Enhanced spinâ€“orbit torque switching in perpendicular multilayers via interfacial oxygen tunability. Applied Physics Letters, 2020, 117, .	3.3	5
23	Enhancement of anisotropic magnetoresistance in MgO/NiFe/MgO trilayers via NiFe nanoparticles in MgO layers. Journal of Applied Physics, 2012, 111, 123903.	2.5	4
24	Multi-resistance state tuned by interfacial active Pt layer in a perpendicular Hall balance. Applied Surface Science, 2020, 521, 146475.	6.1	4
25	Observation of a thermally enhanced magnetoresistance in NiFe. AIP Advances, 2016, 6, 045314.	1.3	3
26	Tunable Giant Anomalous Hall Angle in Perpendicular Multilayers by Interfacial Orbital Hybridization. ACS Applied Materials & Interfaces, 2019, 11, 24751-24756.	8.0	3
27	Direct observation of magnetic contrast obtained by photoemission electron microscopy with deep ultra-violet laser excitation. Ultramicroscopy, 2019, 202, 156-162.	1.9	3
28	Different oxygen migration behaviors at CoFe/MgO and CoFe/HfO2 interfaces and their effects on the magnetic anisotropy. AIP Advances, 2022, 12, 015222.	1.3	2
29	Enhancement of phonon skew scattering in epitaxial Pt/Co/Pt trilayers by crystal engineering. Physical Review B, 2021, 104, .	3.2	2
30	Degradation Effect and Magnetoelectric Transport Properties in CrBr3 Devices. Materials, 2022, 15, 3007.	2.9	2
31	Controllable magnetic transitions and magnetocaloric effect of Ho1-xTmxNi (0â‰¤xâ‰¤0.8) compounds. AIP Advances, 2020, 10, 015224.	1.3	1
32	Antiferromagnetic Phase Induced by Nitrogen Doping in 2D Cr2S3. Materials, 2022, 15, 1716.	2.9	1
33	Large magnetocaloric effect of Tm₁â€‰_{â”}â€‰_xY_xGa (0â€‰â‰¤â€‰xâ€‰â‰¤â€‰0 compounds with second-order magnetic transition around liquid helium temperature. Journal of Applied Physics, 2022, 131, 185110.	2.5	1
34	Current-induced magnetization switching in epitaxial L1-FePt/Cr heterostructures through orbital Hall effect. Journal of Applied Physics, 2022, 132, .	2.5	1
35	Tunable anomalous Hall effect in multilayers induced by artificial interfacial scattering dots. AIP Advances, 2018, 8, 035206.	1.3	0
36	Interfacial Effect on Photo-Modulated Magnetic Properties of Core/Shell-Structured NiFe/NiFe2O4 Nanoparticles. Materials, 2022, 15, 1347.	2.9	0