

Changyeon Won

List of Publications by Year in descending order

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62
papers

1,643
citations

304743

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289244

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g-index

63
all docs

63
docs citations

63
times ranked

1737
citing authors

#	ARTICLE	IF	CITATIONS
1	Tailoring the chirality of magnetic domain walls by interface engineering. Nature Communications, 2013, 4, 2671.	12.8	312
2	Novel Chiral Magnetic Domain Wall Structure in $\text{Fe}/\text{Ni}/\text{Cu}$ Multilayers. Physical Review Letters, 2004, 93, 117205.	7.8	96
3	Magnetic Stripe Domains in Coupled Magnetic Sandwiches. Physical Review Letters, 2004, 93, 117205.	7.8	96
4	Magnetic stripe melting at the spin reorientation transition in $\text{Fe}/\text{Ni}/\text{Cu}$ (001). Physical Review B, 2005, 71, .	3.2	77
5	Magnetic uniaxial anisotropy of Fe films grown on vicinal Ag(001). Physical Review B, 2002, 65, .	3.2	60
6	Magnetic Bubble Domain Phase at the Spin Reorientation Transition of Ultrathin $\text{Fe}/\text{Ni}/\text{Cu}$ (001) Film. Physical Review Letters, 2007, 98, 207205.	7.8	60
7	Effect of anisotropy and dipole interaction on long-range order magnetic structures generated by Dzyaloshinskii-Moriya interaction. Journal of Magnetism and Magnetic Materials, 2012, 324, 2171-2176.	2.3	55
8	Studies of $\text{Fe}/\text{Mn}/\text{Co}/\text{Cu}$ (001) films using photoemission electron microscopy and surface magneto-optic Kerr effect. Physical Review B, 2005, 71, .	3.2	48
9	Unlocking Bloch-type chirality in ultrathin magnets through uniaxial strain. Nature Communications, 2015, 6, 6598.	12.8	40
10	Out-of-plane chiral domain wall spin-structures in ultrathin in-plane magnets. Nature Communications, 2017, 8, 15302.	12.8	36
11	Antiferromagnetic proximity effect in epitaxial $\text{CoO}/\text{NiO}/\text{MgO}$ (001) systems. Scientific Reports, 2016, 6, 22355.	3.3	31
12	Reversible writing/deleting of magnetic skyrmions through hydrogen adsorption/desorption. Nature Communications, 2022, 13, 1350.	12.8	30
13	Analysis of x-ray linear dichroism spectra for NiO thin films grown on vicinal Ag(001). Physical Review B, 2008, 78, .	3.2	28
14	Multiple in-plane spin reorientation transitions in Fe/CoO grown on vicinal MgO (001). Physical Review B, 2015, 91, .	3.2	26
15	Magnetic vortex generated by Dzyaloshinskii-Moriya interaction. Journal of Applied Physics, 2013, 113, 133911.	2.5	25
16	Antiferromagnetic spin reorientation transition in epitaxial $\text{NiO}/\text{CoO}/\text{MgO}$ (001) systems. Physical Review B, 2014, 90, .	3.2	25
17	Effects of Dzyaloshinskii-Moriya interaction on magnetic stripe domains. Journal of Magnetism and Magnetic Materials, 2014, 351, 8-15.	2.3	25
18	Element-specific study of the anomalous magnetic interlayer coupling across NiO spacer layer in $\text{Co}/\text{NiO}/\text{Fe}/\text{Ag}$ (001) using XMCD and XMLD. Physical Review B, 2009, 80, .	3.2	24

#	ARTICLE	IF	CITATIONS
19	Effect of Dzyaloshinskii–Moriya interaction on magnetic vortex. AIP Advances, 2014, 4, .	1.3	24
20	Searching magnetic states using an unsupervised machine learning algorithm with the Heisenberg model. Physical Review B, 2019, 99, .	3.2	24
21	Magnetic Hamiltonian parameter estimation using deep learning techniques. Science Advances, 2020, 6, .	10.3	24
22	Surface magneto-optic Kerr effect study of Co thin films grown on double curved Cu(001). Physical Review B, 2003, 67, .	3.2	23
23	Activation of antiferromagnetic domain switching in exchange-coupled Fe/CoO/MgO(001) systems. Physical Review B, 2015, 91, .	3.2	21
24	Three-dimensional mapping of the anisotropic magnetoresistance in Fe ₃ O ₄ single crystal thin films. Journal of Applied Physics, 2013, 113, .	2.5	20
25	Magnetic Phase Transition in Co/Cu/Ni/Cu(100) and Co/Fe/Ni/Cu(100). Physical Review Letters, 2003, 91, 147202.	7.8	17
26	A study of the stripe domain phase at the spin reorientation transition of two-dimensional magnetic system. Journal of Magnetism and Magnetic Materials, 2010, 322, 2742-2748.	2.3	17
27	Interfacial magnetism of fcc Fe and the effect of the oscillatory interlayer coupling on the Ni magnetic properties in Ni/Fe/Co/Cu(100). Physical Review B, 2002, 65, .	3.2	16
28	Effect of atomic steps on the interfacial interaction of $\text{Fe}/\text{Mn}/\text{Co}$ films grown on vicinal Cu(001). Physical Review B, 2007, 76, .	3.2	15
29	Effect of the Cu capping layer on the magnetic anisotropy of Ni/Cu(100). Physical Review B, 2002, 66, .	3.2	14
30	Stripe-to-bubble transition of magnetic domains at the spin reorientation of (Fe/Ni)/Cu/Ni/Cu(001). Physical Review B, 2009, 79, .	3.2	14
31	Strain-modulated antiferromagnetic spin orientation and exchange coupling in Fe/CoO(001). Journal of Applied Physics, 2014, 115, 193903.	2.5	13
32	Effect of the interlayer coupling on the Ni spin reorientation in Ni/Fe/Co/Cu(100). Physical Review B, 2003, 68, .	3.2	12
33	In-plane spin reorientation transition in a two-dimensional ferromagnetic/antiferromagnetic system studied using Monte Carlo simulations. Physical Review B, 2009, 80, .	3.2	12
34	Magnetic phase transition and spin-reorientation transition of $\text{Cu}/\text{Ni}/\text{Fe}/\text{Cu}$ (001) studied by photoemission electron microscopy. Physical Review B, 2004, 70, .	3.2	11
35	Magnetization reversal in kagome artificial spin ice studied by first-order reversal curves. Physical Review B, 2017, 96, .	3.2	11
36	Symmetry-Breaking Induced Exchange Bias in Ferromagnetic Ni-Cu-Co and Ni-Fe-Co Sandwiches Grown on a Vicinal Cu(001) Surface. Physical Review Letters, 2007, 99, 077203.	7.8	10

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37	Ordered growth of magnetic helical structure under the Dzyaloshinskii-Moriya interaction. Journal of Magnetism and Magnetic Materials, 2013, 343, 32-37.	2.3	10
38	Magnetic vortex gyration affected by Dzyaloshinskii-Moriya interaction. Journal of Applied Physics, 2015, 117, .	2.5	10
39	Resonant interaction between two Cu quantum wells investigated by angle-resolved photoemission spectroscopy. Physical Review B, 2006, 73, .	3.2	8
40	Magnetic State Generation using Hamiltonian Guided Variational Autoencoder with Spin Structure Stabilization. Advanced Science, 2021, 8, 2004795.	11.2	8
41	High-density Néel-type magnetic skyrmion phase stabilized at high temperature. NPG Asia Materials, 2020, 12, .	7.9	8
42	Evidence of the oscillatory magnetic anisotropy in Ni/Co/Ni/Cu(100). Physical Review B, 2003, 67, .	3.2	7
43	Elastic moduli and Poisson's ratio of 2-dimensional magnetic skyrmion lattice. Journal of Applied Physics, 2017, 121, 203902.	2.5	7
44	The spin structures of interlayer coupled magnetic films with opposite chirality. Scientific Reports, 2018, 8, 2361.	3.3	7
45	Effect of interlayer exchange coupling on magnetic chiral structures. Journal of Applied Physics, 2015, 118, 043905.	2.5	6
46	Field dependence of antiferromagnetic domain switching in epitaxial Fe/CoO/MgO(001) systems. Physical Review B, 2017, 96, .	3.2	6
47	In-plane Néel wall chirality and orientation of interfacial Dzyaloshinskii-Moriya vector in magnetic films. Physical Review B, 2020, 102, .	3.2	6
48	Growth-induced uniaxial magnetic anisotropy in Co/Cu(100). Journal of Applied Physics, 2004, 95, 7300-7302.	2.5	5
49	An innovative magnetic state generator using machine learning techniques. Scientific Reports, 2019, 9, 16706.	3.3	5
50	Interpolation and extrapolation between the magnetic chiral states using autoencoder. Computer Physics Communications, 2022, 272, 108244.	7.5	4
51	Estimating the effective fields of spin configurations using a deep learning technique. Scientific Reports, 2021, 11, 22937.	3.3	4
52	Experimental study of the x-ray linear dichroism of NiO films grown on Fe(001). Physical Review B, 2012, 85, .	3.2	3
53	Effect of in-plane uniaxial anisotropy on self-organized magnetic structures generated by the Dzyaloshinskii-Moriya interaction. Journal of the Korean Physical Society, 2013, 62, 924-929.	0.7	3
54	Optimization of physical quantities in the autoencoder latent space. Scientific Reports, 2022, 12, .	3.3	3

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55	Effect of inserting Ni and Co layers on the quantum well states of a thin Cu film grown on Co/Cu(001). Physical Review B, 2009, 80, .	3.2	2
56	Wonet al.Reply:. Physical Review Letters, 2005, 94, .	7.8	1
57	A study of the effective magnetic anisotropy and the corresponding spin configurations in two dimensional ferromagnetic/antiferromagnetic system. Journal of Magnetism and Magnetic Materials, 2011, 323, 3294-3299.	2.3	1
58	Exchange bias in nearly perpendicularly coupled ferromagnetic/ferromagnetic system. Journal of Magnetism and Magnetic Materials, 2012, 324, 1565-1570.	2.3	1
59	Magnetic structures in the locally inverted interlayer coupling region of a bilayer magnetic system. Journal of Magnetism and Magnetic Materials, 2020, 501, 166447.	2.3	1
60	Chirality-induced zigzag domain wall in in-plane magnetized ultrathin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, 053410.	2.1	1
61	Spin orientation-dependent antiferromagnetic proximity effect. , 2015, , .		0
62	Versatile Motion Control of a Magnetic Skyrmion Pair with Spin Transfer Torques. Journal of the Korean Physical Society, 2020, 77, 869-873.	0.7	0