

Chanyong Hwang

List of Publications by Year in descending order

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53
papers

2,497
citations

331670

21
h-index

197818

49
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54
all docs

54
docs citations

54
times ranked

4665
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-temperature magnetic order on zigzag edges of narrow graphene nanoribbons. Nature, 2014, 514, 608-611.	27.8	662
2	Spontaneous doping of the basal plane of MoS ₂ single layers through oxygen substitution under ambient conditions. Nature Chemistry, 2018, 10, 1246-1251.	13.6	295
3	The intrinsic defect structure of exfoliated MoS ₂ single layers revealed by Scanning Tunneling Microscopy. Scientific Reports, 2016, 6, 29726.	3.3	198
4	Patterning-Induced Ferromagnetism of Fe ₃ GeTe ₂ van der Waals Materials beyond Room Temperature. Nano Letters, 2018, 18, 5974-5980.	9.1	177
5	Tailoring the topology of an artificial magnetic skyrmion. Nature Communications, 2014, 5, 4704.	12.8	132
6	Direct Measurement of Rotatable and Frozen CoO Spins in Exchange Bias System of $\text{CoO}/\text{Fe}/\text{Ag}/\text{MgO}$ Superlattice. Scientific Reports, 2016, 6, 20360.	3.3	45
7	Creation of skyrmions in van der Waals ferromagnet Fe ₃ GeTe ₂ on (Co/Pd) superlattice. Science Advances, 2020, 6, .	10.3	89
8	Bulk-sensitive photoemission spectroscopy of A ₂ FeMoO ₆ double perovskites (A=Sr,Ba). Physical Review B, 2002, 66, .	3.2	66
9	Magnetic bubblecade memory based on chiral domain walls. Scientific Reports, 2015, 5, 9166.	3.3	58
10	Antiferromagnetic coupling of van der Waals ferromagnetic Fe ₃ GeTe ₂ . Nanotechnology, 2019, 30, 245701.	2.6	53
11	Skyrmion motion driven by oscillating magnetic field. Scientific Reports, 2016, 6, 20360.	3.3	45
12	Transition Metal Chalcogenide Single Layers as an Active Platform for Single-Atom Catalysis. ACS Energy Letters, 2019, 4, 1947-1953.	17.4	43
13	Distinct handedness of spin wave across the compensation temperatures of ferrimagnets. Nature Materials, 2020, 19, 980-985.	27.5	42
14	Nematic Liquid Crystal on a Two Dimensional Hexagonal Lattice and its Application. Scientific Reports, 2015, 5, 13331.	3.3	41
15	Control of skyrmion magnetic bubble gyration. Physical Review B, 2014, 89, .	3.2	38
16	Existence of in-Plane Magnetic Skyrmion and its Motion under Current Flow. Physical Review Applied, 2019, 12, .	3.8	35
17	Highly Enhanced Curie Temperature in Ga-Implanted Fe ₃ GeTe ₂ van der Waals Material. Advanced Quantum Technologies, 2020, 3, 2000017.	3.9	34
18	STM study of the MoS ₂ flakes grown on graphite: A model system for atomically clean 2D heterostructure interfaces. Carbon, 2016, 105, 408-415.	10.3	29

#	ARTICLE	IF	CITATIONS
19	Coherent ac spin current transmission across an antiferromagnetic CoO insulator. Nature Communications, 2019, 10, 5265.	12.8	29
20	Integrated neuromorphic computing networks by artificial spin synapses and spin neurons. NPG Asia Materials, 2021, 13, .	7.9	28
21	Preparing local strain patterns in graphene by atomic force microscope based indentation. Scientific Reports, 2017, 7, 3035.	3.3	24
22	Influence of Native Defects on the Electronic and Magnetic Properties of CVD Grown MoSe ₂ Single Layers. Journal of Physical Chemistry C, 2019, 123, 24855-24864.	3.1	22
23	Magnetic interlayer coupling between antiferromagnetic CoO and ferromagnetic Fe across a Ag spacer layer in epitaxially grown CoO/Ag/Fe/Ag(001). Physical Review B, 2012, 85, .	3.2	20
24	Electrical Generation and Deletion of Magnetic Skyrmion Bubbles via Vertical Current Injection. Advanced Materials, 2021, 33, e2104406.	21.0	18
25	Control of Spin-Wave Refraction Using Arrays of Skyrmions. Physical Review Applied, 2016, 6, .	3.8	17
26	Evaluation Method for Fieldlike-Torque Efficiency by Modulation of the Resonance Field. Physical Review Applied, 2018, 9, .	3.8	17
27	Field-Free Switching of Magnetization by Tilting the Perpendicular Magnetic Anisotropy of Gd/Co Multilayers. Advanced Functional Materials, 2022, 32, .	14.9	17
28	Spin-Orbit Torque Driven Magnetization Switching and Precession by Manipulating Thickness of CoFeB/W Heterostructures. Advanced Electronic Materials, 2020, 6, 1901004.	5.1	14
29	Universal method for magnetic skyrmion bubble generation by controlling the stripe domain instability. NPG Asia Materials, 2021, 13, .	7.9	14
30	Guiding of dynamic skyrmions using chiral magnetic domain wall. Applied Physics Express, 2020, 13, 063002.	2.4	11
31	A spin torque meter with magnetic facet domains. Nature Communications, 2018, 9, 3788.	12.8	10
32	Robust quantum point contact operation of narrow graphene constrictions patterned by AFM cleavage lithography. Npj 2D Materials and Applications, 2020, 4, .	7.9	10
33	Control of the Half-Skyrmion Hall Effect and Its Application to Adder-Subtractor. Advanced Quantum Technologies, 2021, 4, 2000060.	3.9	10
34	One-dimensional chain structures produced by Ce on Si(111). Surface Science, 2005, 596, 39-44.	1.9	9
35	Electrical transport properties of graphene-covered-Cu wires grown by chemical vapor deposition. Current Applied Physics, 2012, 12, 115-118.	2.4	8
36	Omnidirectional Spin-Wave Array Antenna. Physical Review Applied, 2019, 11, .	3.8	7

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37	Observation of Thermal Spin-Orbit Torque in W/CoFeB/MgO Structures. Nano Letters, 2020, 20, 7803-7810.	9.1	7
38	Programmable Dynamics of Exchange-Biased Domain Wall via Spin-Current-Induced Antiferromagnet Switching. Advanced Science, 2021, 8, e2100908.	11.2	7
39	Measuring the Magnetization from the Image of the Stripe Magnetic Domain. Physical Review Applied, 2019, 12, .	3.8	6
40	Triangular and Sawtooth Magnetic Domains in Measuring the Dzyaloshinskii-Moriya Interaction. Physical Review Applied, 2018, 10, .	3.8	5
41	Dynamics of liquid crystal on hexagonal lattice. 2D Materials, 2018, 5, 045021.	4.4	5
42	Growth of Graphene on the Cu(110) Surface. Journal of Physical Chemistry C, 2020, 124, 12106-12111.	3.1	5
43	Interrelation among superstructural ordering, oxygen nonstoichiometry and lattice strain of double perovskite Sr ₂ FeMoO ₆ materials. Journal of Materials Science, 2021, 56, 11698-11710.	3.7	5
44	Role of step roughening in the formation of Ce silicide on Si(111). Surface Science, 2005, 579, 116-122.	1.9	4
45	Ultralow-current magnetization switching in nearly compensated synthetic antiferromagnetic frames using sandwiched spin sources. Acta Materialia, 2021, 208, 116708.	7.9	4
46	One-dimensional chain structure produced by Ce on vicinal Si(100). Surface Science, 2006, 600, 1283-1289.	1.9	2
47	Electronic states of ultrathin Co layers on Cu. Physica Status Solidi (B): Basic Research, 2007, 244, 4411-4414.	1.5	2
48	Independence of the spin current from the Néel vector orientation in antiferromagnet CoO. Physical Review B, 2020, 101, .	3.2	2
49	Reversible magnetic spiral domain. Scientific Reports, 2021, 11, 20970.	3.3	2
50	Structural phase transition at a finite thickness of cerium overlayers on Si(111). New Journal of Physics, 2008, 10, 043008.	2.9	1
51	Correlation between ferromagnetic state and thermally stable layer of Fe on the W(001) surface. Current Applied Physics, 2014, 14, 68-71.	2.4	1
52	Deterministic switching of magnetization by chiral buckling. Physical Review B, 2019, 100, .	3.2	0
53	Spin canting of Ni/CoO/Fe films grown on curved MgO(0 0 1) substrate. Journal of Magnetism and Magnetic Materials, 2022, 561, 169668.	2.3	0