

Recent Developments in van der Waals Antiferromagnetic Characterization, and Device Implementation

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Citation Report

#	ARTICLE	IF	CITATIONS
1	2D Heterostructures for Ubiquitous Electronics and Optoelectronics: Principles, Opportunities, and Challenges. <i>Chemical Reviews</i> , 2022, 122, 6514-6613.	47.7	187
2	All-Electrical Control of Compact SOT-MRAM: Toward Highly Efficient and Reliable Non-Volatile In-Memory Computing. <i>Micromachines</i> , 2022, 13, 319.	2.9	15
3	Raman spectroscopy investigation on the pressure-induced structural and magnetic phase transition in two-dimensional antiferromagnet FePS ₃ . <i>Chinese Physics B</i> , 2022, 31, 056109.	1.4	3
4	Magnetic van der Waals materials: Synthesis, structure, magnetism, and their potential applications. <i>Chinese Physics B</i> , 2022, 31, 087506.	1.4	6
5	Tunable Strong Magnetic Anisotropy in Two-Dimensional van der Waals Antiferromagnets. <i>Nano Letters</i> , 2022, 22, 3946-3952.	9.1	8
6	Spin Ordering Induced Broadband Photodetection Based on Two-Dimensional Magnetic Semiconductor In_2MnSe . <i>Advanced Science</i> , 2022, 9, .	11.2	9
7	Nano-engineering and nano-manufacturing in 2D materials: marvels of nanotechnology. <i>Nanoscale Horizons</i> , 2022, 7, 849-872.	8.0	19
8	Emergent Phenomena in Magnetic Two-Dimensional Materials and van der Waals Heterostructures. <i>ACS Applied Electronic Materials</i> , 2022, 4, 3278-3302.	4.3	26
9	2D Magnetic Heterostructures and Emergent Spintronic Devices. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	16
10	On functional boron nitride: Electronic structures and thermal properties. , 2022, 2, 100005.		7
11	Dipole-exchange spin waves in two-dimensional van der Waals ferromagnetic films and stripes. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 445801.	1.8	4
12	Spin-Filter Magnetic Tunnel Junctions Based on A-Type Antiferromagnetic CrSBr with Giant Tunnel Magnetoresistance. <i>Magnetochemistry</i> , 2022, 8, 89.	2.4	4
13	Extraordinary Nonlinear Optical Interaction from Strained Nanostructures in van der Waals CuInP_2S_6 . <i>ACS Nano</i> , 2022, 16, 13959-13968.	14.6	10
14	Coupling of ferroelectric and valley properties in 2D materials. <i>Journal of Applied Physics</i> , 2022, 132, .	2.5	5
15	Tailoring Exchange-Dominated Synthetic Layered Antiferromagnets: From Collective Magnetic Reversal to Exchange Bias. <i>Small</i> , 0, , 2204804.	10.0	0
16	Magnetic damping anisotropy in the two-dimensional van der Waals material Fe_3S_2 from first principles. <i>Physical Review B</i> , 2022, 106, .		
17	Magnetic properties and critical behavior of quasi-2D layered Cr ₄ Te ₅ thin film. <i>Frontiers of Physics</i> , 2023, 18, .	5.0	4
18	Extraordinary Phonon Displacement and Giant Resonance Raman Enhancement in WSe_2/WS_2 Moiré Heterostructures. <i>ACS Nano</i> , 2022, 16, 21505-21517.	14.6	4

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19	Metamagnetism and Magnetocaloric Properties in a van der Waals Antiferromagnet CrOCl. <i>Physica Status Solidi (B): Basic Research</i> , 2023, 260, .	1.5	1
20	Superexchange and spin-orbit coupling in monolayer and bilayer chromium trihalides. <i>Physical Review B</i> , 2022, 106, .	3.2	3
21	Spin direction tunable topological transition in two-dimensional frustrate antiferromagnetic triangular lattice T-FeO ₂ monolayer. <i>Applied Physics Letters</i> , 2022, 121, .	3.3	2
22	Two Dimensional Heterostructures for Optoelectronics: Current Status and Future Perspective. <i>Molecules</i> , 2023, 28, 2275.	3.8	2
23	Antiferromagnetic Ising model with frustration on Graphenylene lattice. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2023, 614, 128566.	2.6	0
24	Spin Hall magnetoresistance in quasi-two-dimensional antiferromagnetic-insulator/metal bilayer systems. <i>Physical Review B</i> , 2023, 107, .	3.2	1
25	Spin-Phonon Coupling in Two-Dimensional Magnetic Materials. , 2023, , .		4
26	Direct Observation of Magnetic Bubble Lattices and Magnetoelastic Effects in van der Waals Cr ₂ Ge ₂ Te ₆ . <i>Advanced Functional Materials</i> , 2023, 33, .	14.9	5
27	van der Waals Heterostructures Based on Nanolayered Paramagnetic Tm(II) Compounds and Boron Nitride for Investigating Spin Frustration. <i>ACS Applied Nano Materials</i> , 0, , .	5.0	1
28	An Optical Spectroscopic Study of Air-Degradation of van der Waals Magnetic Semiconductor Cr ₂ Ge ₂ Te ₆ . <i>Magnetochemistry</i> , 2023, 9, 104.	2.4	0
29	Probing the Néel-Type Antiferromagnetic Order and Coherent Magnon-Exciton Coupling in Van Der Waals VPS ₃ . <i>Advanced Materials</i> , 2023, 35, .	21.0	5
30	Emerging Enhancement and Regulation Strategies for Ferromagnetic 2D Transition Metal Dichalcogenides. <i>Advanced Science</i> , 2023, 10, .	11.2	9
31	Solution-Processed NiPS ₃ Thin Films from Liquid Exfoliated Inks with Long-Lived Spin-Entangled Excitons. <i>ACS Nano</i> , 2023, 17, 10423-10430.	14.6	1
32	Observation of a magnetic phase transition in monolayer NiP_3S . <i>Physical Review B</i> , 2023, 107, .	3.2	1
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34	Switchable Anomalous Hall Effects in Polar-Stacked 2D Antiferromagnet MnBi ₂ Te ₄ . <i>Nano Letters</i> , 2023, 23, 3781-3787.	9.1	4
35	Magnetic behavior of two-dimensional manganese telluride. <i>2D Materials</i> , 2023, 10, 045006.	4.4	0
36	Antiferromagnetic semiconducting FeCN ₂ monolayer with a large magnetic anisotropy and strong magnetic coupling. <i>Physical Chemistry Chemical Physics</i> , 0, , .	2.8	1

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37	Strain Engineering of Intrinsic Ferromagnetism in 2D van der Waals Materials. <i>Nanomaterials</i> , 2023, 13, 2378.	4.1	1
38	Valence band electronic structure of the van der Waals antiferromagnet FePS ₃ . , 2023, 6, 100061.		1
39	Cavity-renormalized quantum criticality in a honeycomb bilayer antiferromagnet. <i>Communications Physics</i> , 2023, 6, .	5.3	3
40	Band type engineering using different stacking configurations of anisotropic and isotropic monolayer transition metal dichalcogenides. <i>2D Materials</i> , 2023, 10, 045032.	4.4	0
41	$\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{CrTe} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mg} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle$ as a two-dimensional material for topological magnetism in complex heterobilayers. <i>Physical Review B</i> , 2023, 108, .	3.2	0
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43	Antiferromagnetic Fe ₃ As nanostructure with a unique planar Fe arrangement. <i>Journal of Materials Chemistry C</i> , 2023, 11, 16766-16771.	5.5	1
44	Interplay between Local Moment and Itinerant Magnetism in the Layered Metallic Antiferromagnet TaFe _{1.14} Te ₃ . <i>Nano Letters</i> , 2023, 23, 10449-10457.	9.1	0
45	Enhanced ferromagnetism, magnetic anisotropy, and spin polarization in Janus CrSeTe via strain and doping. <i>Applied Physics Letters</i> , 2023, 123, .	3.3	0
46	Raman study of the spin-lattice excitations of the layered antiferromagnets MPS ₃ (M=Fe, Mn). <i>Results in Physics</i> , 2024, 56, 107256.	4.1	0
47	Tunable topological magnon-polaron states and intrinsic anomalous Hall phenomena in two-dimensional ferromagnetic insulators. <i>Physical Review B</i> , 2023, 108, .	3.2	1
49	Berry-Curvature Engineering for Nonreciprocal Directional Dichroism in Two-Dimensional Antiferromagnets. <i>Physical Review Letters</i> , 2023, 131, .	7.8	0
50	Magnetic order in 2D antiferromagnets revealed by spontaneous anisotropic magnetostriction. <i>Nature Communications</i> , 2023, 14, .	12.8	0
51	Raman Evidence of Phase Transitions for FePS ₃ and FePSe ₃ under High Pressure. <i>Journal of Physical Chemistry C</i> , 0, , .	3.1	0
52	Second Harmonic Generation Control in 2D Layered Materials: Status and Outlook. <i>Advanced Functional Materials</i> , 2024, 34, .	14.9	0
53	Nondestructive Testing of Metal Cracks: Contemporary Methods and Emerging Challenges. <i>Crystals</i> , 2024, 14, 54.	2.2	0
54	Temperature-Dependent Phase Variations in Van Der Waals CdPS ₃ Revealed by Raman Spectroscopy. <i>Symmetry</i> , 2024, 16, 140.	2.2	0
55	Theory for magnetic impurity modes in two-dimensional van der Waals ferromagnetic films. <i>Journal of Physics Condensed Matter</i> , 2024, 36, 215801.	1.8	0

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56	Magneto-optical anisotropies of two-dimensional antiferromagnetic M P X 3 from first principles. Physical Review B, 2024, 109, .	3.2	0
57	Goodenough-Kanamori Anderson Rules in 2D Magnet: A Chemical Trend in MCl_2 with $M = V, Mn, \text{ and } Ni$. Journal of the Physical Society of Japan, 2024, 93, .	1.6	0