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Robust intrinsic ferromagnetism and half
semiconductivity in stable two-dimensional
single-layer chromium trihalides

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#	Paper	IF	Citations
498	2D Intrinsic Ferromagnets from van der Waals Antiferromagnets.		
497	Skyrmions in the Moire of van der Waals 2D Magnets.		
496	Tunable electronic properties of GeSe/phosphorene heterostructure from first-principles study. 2016 , 109, 103104		71
495	Magnetic Properties of Restacked 2D Spin 1/2 honeycomb RuCl ₃ Nanosheets. 2016 , 16, 3578-84		67
494	First-principles design of spintronics materials. 2016 , 3, 365-381		191
493	Electronic and magnetic properties of single-layer MPX ₃ metal phosphorous trichalcogenides. <i>Physical Review B</i> , 2016 , 94,	3.3	166
492	Magnetic structure and phase stability of the van der Waals bonded ferromagnet Fe ₃ GeTe ₂ . <i>Physical Review B</i> , 2016 , 93,	3.3	125
491	Theoretical perspective of energy harvesting properties of atomically thin BiI ₃ . 2016 , 4, 19086-19094		41
490	New two-dimensional Mn-based MXenes with room-temperature ferromagnetism and half-metallicity. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 11143-11149	7.1	105
489	Doping enhanced ferromagnetism and induced half-metallicity in CrI ₃ monolayer. 2016 , 114, 47001		99
488	High temperature spin-polarized semiconductivity with zero magnetization in two-dimensional Janus MXenes. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6500-6509	7.1	88
487	Unusual Dirac half-metallicity with intrinsic ferromagnetism in vanadium trihalide monolayers. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2518-2526	7.1	151
486	Study on structure and properties of transition metal doped BiF ₃ by first-principles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016 , 80, 125-129	3	2
485	DFT studies for optoelectronic properties of pure l-alanine and doped with Li. 2016 , 27, 4887-4897		4
484	Near-room-temperature Chern insulator and Dirac spin-gapless semiconductor: nickel chloride monolayer. 2017 , 9, 2246-2252		88
483	Electronic structure, optical properties and band edges of layered MoO ₃ : A first-principles investigation. 2017 , 130, 242-248		47
482	Valley Pseudospin with a Widely Tunable Bandgap in Doped Honeycomb BN Monolayer. 2017 , 17, 2079-2087		29

481	Layer-dependent ferromagnetism in a van der Waals crystal down to the monolayer limit. 2017 , 546, 270-273		2210
480	On the origin of magnetic anisotropy in two dimensional CrI ₃ . 2017 , 4, 035002		323
479	Quantum anomalous Hall effect in ferromagnetic transition metal halides. <i>Physical Review B</i> , 2017 , 95,	3.3	69
478	High-Mobility Transport Anisotropy in Few-Layer MoO ₃ and Its Origin. 2017 , 9, 1702-1709		36
477	Stability and carrier mobility of organic-inorganic hybrid perovskite CH ₃ NH ₃ PbI ₃ in two-dimensional limit. 2017 , 147, 164703		11
476	Half-metals and half-semiconductors in a transition metal doped SnSe ₂ monolayer: a first-principles study. 2017 , 7, 44499-44504		20
475	Dirac Magnon Nodal Loops in Quasi-2D Quantum Magnets. 2017 , 7, 6931		29
474	Single-layer metal halides MX ₂ (X = Cl, Br, I): stability and tunable magnetism from first principles and Monte Carlo simulations. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8734-8741	7.1	140
473	Enhancing the perpendicular magnetic anisotropy of 1T-FeCl ₂ monolayer by applying strain: first-principles study. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 444, 184-189	2.8	18
472	Surface magnetism of gallium arsenide nanofilms. <i>Physical Review B</i> , 2017 , 96,	3.3	
471	Critical behavior of the van der Waals bonded ferromagnet Fe ₃ GeTe ₂ . <i>Physical Review B</i> , 2017 , 96,	3.3	43
470	Lifting the mist of flatland: The recent progress in the characterizations of two-dimensional materials. 2017 , 63, 72-93		6
469	Antiferromagnetism in the van der Waals layered spin-lozenge semiconductor CrTe ₃ . <i>Physical Review B</i> , 2017 , 95,	3.3	28
468	Crystal and Magnetic Structures in Layered, Transition Metal Dihalides and Trihalides. 2017 , 7, 121		195
467	Two-Dimensional Lattices of VN: Emergence of Ferromagnetism and Half-Metallicity on Nanoscale. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1422-1428	6.4	35
466	Surface Vacancy-Induced Switchable Electric Polarization and Enhanced Ferromagnetism in Monolayer Metal Trihalides. 2018 , 18, 2943-2949		94
465	Anomalous Hall effect in the van der Waals bonded ferromagnet Fe ₃ GeTe ₂ . <i>Physical Review B</i> , 2018 , 97,	3.3	26
464	Analysis of electrical-field-dependent Dzyaloshinskii-Moriya interaction and magnetocrystalline anisotropy in a two-dimensional ferromagnetic monolayer. <i>Physical Review B</i> , 2018 , 97,	3.3	47

463	Strong magnetization and Chern insulators in compressed graphene/CrI ₃ van der Waals heterostructures. <i>Physical Review B</i> , 2018 , 97,	3.3	77
462	Critical behavior of two-dimensional intrinsically ferromagnetic semiconductor CrI ₃ . 2018 , 112, 072405		35
461	Novel two-dimensional ferromagnetic semiconductors: Ga-based transition-metal trichalcogenide monolayers. 2018 , 20, 6374-6382		27
460	Manipulating light-wave-controlled charges into a spin-asymmetric flow: Petahertz frequency control of spins. <i>Physical Review B</i> , 2018 , 97,	3.3	2
459	Tuning electronic and magnetic properties of monolayer ERuCl_3 by in-plane strain. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2019-2025	7.1	31
458	Dirac Magnons in Honeycomb Ferromagnets. 2018 , 8,		62
457	Probing magnetism in 2D van der Waals crystalline insulators via electron tunneling. 2018 , 360, 1218-1222		444
456	Controlling Magnetic and Optical Properties of the van der Waals Crystal CrCl_2Br via Mixed Halide Chemistry. 2018 , 30, e1801325		68
455	Theoretical prediction of a two-dimensional intrinsic double-metal ferromagnetic semiconductor MnCoO_4 . 2018 , 450, 422-428		3
454	Half-metallicity and enhanced ferromagnetism in Li-adsorbed ultrathin chromium triiodide. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5716-5720	7.1	46
453	Prediction of Intrinsic Ferromagnetic Ferroelectricity in a Transition-Metal Halide Monolayer. 2018 , 120, 147601		149
452	AlI_3 (A = As, Sb) Single Layers and Their vdW Heterostructure for Photocatalysis and Solar Cell Applications. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 7656-7663	3.8	25
451	Electronic and magnetic properties of monolayer ERuCl_2 : a first-principles and Monte Carlo study. 2018 , 20, 997-1004		42
450	Strain Tunable Bandgap and High Carrier Mobility in SiAs and SiAs Monolayers from First-Principles Studies. 2018 , 13, 404		11
449	Ferromagnetism in magnesium chloride monolayer with an unusually large spin-up gap. 2018 , 10, 22280-22292		13
448	Topological Spin Excitations in Honeycomb Ferromagnet CrI ₃ . 2018 , 8,		82
447	Long range intrinsic ferromagnetism in two dimensional materials and dissipationless future technologies. 2018 , 5, 041105		77
446	Critical behavior of the single-crystalline van der Waals bonded ferromagnet $\text{Cr}_2\text{Ge}_2\text{Te}_6$. <i>Physical Review B</i> , 2018 , 98,	3.3	25

445	Strain-tunable magnetic anisotropy in monolayer CrCl ₃ , CrBr ₃ , and CrI ₃ . <i>Physical Review B</i> , 2018 , 98,	3.3	219
444	Large magneto-optical effects and magnetic anisotropy energy in two-dimensional Cr ₂ Ge ₂ Te ₆ . <i>Physical Review B</i> , 2018 , 98,	3.3	71
443	Skymions in the Moiré of van der Waals 2D Magnets. 2018 , 18, 7194-7199		80
442	Large tunneling magnetoresistance in magnetic tunneling junctions based on two-dimensional CrX (X = Br, I) monolayers. 2018 , 10, 22196-22202		26
441	Tunable magnetic topological insulating phases in monolayer CrI ₃ . <i>Physical Review B</i> , 2018 , 98,	3.3	19
440	Chemical vapor growth and delamination of RuCl ₃ nanosheets down to the monolayer limit. 2018 , 10, 19014-19022		21
439	Lattice dynamics and phase transition in CrI ₃ single crystals. <i>Physical Review B</i> , 2018 , 98,	3.3	33
438	Distinct spin-lattice and spin-phonon interactions in monolayer magnetic CrI. 2018 , 20, 23546-23555		54
437	Chromium sulfide halide monolayers: intrinsic ferromagnetic semiconductors with large spin polarization and high carrier mobility. 2018 , 10, 18036-18042		58
436	Anisotropic magnetocaloric effect in single crystals of CrI ₃ . <i>Physical Review B</i> , 2018 , 97,	3.3	34
435	Tunable electronic structure and magnetic coupling in strained two-dimensional semiconductor MnPSe ₃ . 2018 , 13, 1		17
434	Spin Direction-Controlled Electronic Band Structure in Two-Dimensional Ferromagnetic CrI. 2018 , 18, 3844-3849		95
433	Electrical-field-induced magnetic Skyrmion ground state in a two-dimensional chromium tri-iodide ferromagnetic monolayer. <i>AIP Advances</i> , 2018 , 8, 055316	1.5	19
432	Two-dimensional Janus transition-metal dichalcogenides with intrinsic ferromagnetism and half-metallicity. 2018 , 152, 151-157		48
431	Very large tunneling magnetoresistance in layered magnetic semiconductor CrI. 2018 , 9, 2516		317
430	Theoretical prediction of two-dimensional CrOF sheet as a ferromagnetic semiconductor or a half-metal. 2018 , 513, 182-187		14
429	A class of Pb-free double perovskite halide semiconductors with intrinsic ferromagnetism, large spin splitting and high Curie temperature. 2018 , 5, 961-968		40
428	Multi-scale analysis of strain-dependent magnetocrystalline anisotropy and strain-induced Villari and Nagaoka-Honda effects in a two-dimensional ferromagnetic chromium tri-iodide monolayer. 2018 , 124, 044303		10

427	Raman spectrum of CrI ₃ : An abinitio study. <i>Physical Review B</i> , 2018 , 98,	3.3	31
426	Robust two-dimensional bipolar magnetic semiconductors by defect engineering. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 8435-8443	7.1	12
425	One Million Percent Tunnel Magnetoresistance in a Magnetic van der Waals Heterostructure. 2018 , 18, 4885-4890		147
424	High Curie-temperature intrinsic ferromagnetism and hole doping-induced half-metallicity in two-dimensional scandium chlorine monolayers. 2018 , 3, 551-555		49
423	A 2D ferromagnetic semiconductor in monolayer Cr-trihalide and its Janus structures. 2018 , 20, 21755-21763		28
422	Effects of external magnetic field and out-of-plane strain on magneto-optical Kerr spectra in CrI monolayer. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 285303	1.8	9
421	Magnon-assisted tunnelling in van der Waals heterostructures based on CrBr ₃ . 2018 , 1, 344-349		167
420	Double transition metal MXenes with wide band gaps and novel magnetic properties. 2018 , 10, 11962-11968		51
419	First-Principles Study of Strain Engineered Electronic Properties of GeSe-SnS Hetero-bilayer. 2019 , 48, 6735-6741		5
418	Electronic structure, strain effects and transport property of armchair graphene nanoribbon with variously possible edge oxidation. 2019 , 52, 475301		6
417	Electron Spin Resonance Properties of CrI ₃ and CrCl ₃ Single Crystals. 2019 , 4, 2169-2175		3
416	Magnetic Proximity Effect in a van der Waals Moiré Superlattice. 2019 , 12,		17
415	Proximity exchange effects in MoSe ₂ and WSe ₂ heterostructures with CrI ₃ : Twist angle, layer, and gate dependence. <i>Physical Review B</i> , 2019 , 100,	3.3	65
414	Electronic and magnetic properties of a black phosphorene/TIS heterostructure with transition metal atom intercalation: a first-principles study.. 2019 , 9, 19418-19428		1
413	Two-dimensional spintronics for low-power electronics. 2019 , 2, 274-283		163
412	Electronic structure and magnetic properties of few-layer Cr ₂ Ge ₂ Te ₆ : the key role of nonlocal electron-electron interaction effects. 2019 , 6, 045042		18
411	Layer-dependent intrinsic anomalous Hall effect in Fe ₃ GeTe ₂ . <i>Physical Review B</i> , 2019 , 100,	3.3	10
410	Perspectives on exfoliated two-dimensional spintronics. 2019 , 40, 081508		12

409	Tailored Tunnel Magnetoresistance Response in Three Ultrathin Chromium Trihalides. 2019 , 19, 5739-5745		29
408	Band gap and magnetism engineering in Dirac half-metallic Na ₂ C nanosheet via layer thickness, strain and point defects. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 491, 165565	2.8	26
407	Computational Design of One-Dimensional Ferromagnetic Semiconductors in Transition Metal Embedded Stannaspherene Nanowires. 2019 , 37, 1021-1024		3
406	2D Magnetic Janus Semiconductors with Exotic Structural and Quantum-Phase Transitions. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3922-3928	6.4	14
405	Layered HfTiCl_3 : Microsheets on YSZ Substrates for Ethylene Polymerization with Enhanced Activity. 2019 , 31, 5305-5313		3
404	Unconventional thermal magnon Hall effect in a ferromagnetic topological insulator. <i>Physical Review B</i> , 2019 , 99,	3.3	6
403	Theoretical study on spintronic and spin caloritronic applications for equiatomic quaternary Heusler alloy NiCoMnAl. 2019 , 52, 505004		2
402	Two-Dimensional Ferroics and Multiferroics: Platforms for New Physics and Applications. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 6634-6649	6.4	57
401	Chromium Trihalides CrX ₃ (X = Cl, Br, I): Direct Deposition of Micro- and Nanosheets on Substrates by Chemical Vapor Transport. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1901410	4.6	23
400	Spin-Resolved Electronic and Transport Properties of Graphyne-Based Nanojunctions with Different N-Substituting Positions. 2019 , 14, 299		18
399	Theoretical insights in Ni doped intrinsic magnetic CrCl ₃ monolayer. 2019 , 21, 100724		3
398	Curie temperature of emerging two-dimensional magnetic structures. <i>Physical Review B</i> , 2019 , 100,	3.3	21
397	Strain-tunable orbital, spin-orbit, and optical properties of monolayer transition-metal dichalcogenides. <i>Physical Review B</i> , 2019 , 100,	3.3	38
396	Magnetic anisotropy of the two-dimensional ferromagnetic insulator MnBi ₂ Te ₄ . <i>Physical Review B</i> , 2019 , 100,	3.3	24
395	Density Functional Theory Study of Defect Induced Ferromagnetism and Half-Metallicity in CaI ₂ Based Monolayer for Spintronics Applications. 2019 , 2, 6152-6161		10
394	Probing and controlling magnetic states in 2D layered magnetic materials. 2019 , 1, 646-661		129
393	Achieving a direct band gap and high power conversion efficiency in an SbI/BiI type-II vdW heterostructure via interlayer compression and electric field application. 2019 , 21, 2619-2627		9
392	CrTiC-based double MXenes: novel 2D bipolar antiferromagnetic semiconductor with gate-controllable spin orientation toward antiferromagnetic spintronics. 2018 , 11, 356-364		77

391	Strain-tunable magnetic and electronic properties of monolayer CrI. 2019 , 21, 7750-7755		83
390	Simulation and synthesis of MoCl_3 nanosheets on substrates by short time chemical vapor transport. 2019 , 19, 100324		7
389	Structural and magnetic response of CrI ₃ monolayer to electric field. 2019 , 570, 166-171		10
388	Magnetism and magneto-optical effects in bulk and few-layer CrI ₃ : a theoretical GGA +U study. 2019 , 21, 053012		30
387	Intrinsic magnetism in monolayer transition metal trihalides: A comparative study. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 489, 165384	2.8	16
386	Chemical disorder and spin-liquid-like magnetism in the van der Waals layered 5d transition metal halide $\text{Os}_{0.55}\text{Cl}_2$. <i>Physical Review B</i> , 2019 , 99,	3.3	11
385	Magnetic skyrmions in atomic thin CrI ₃ monolayer. 2019 , 114, 232402		32
384	Super-exchange theory for polyvalent anion magnets. 2019 , 21, 053033		14
383	Fully Spin-Polarized Nodal Loop Semimetals in Alkaline Metal Monochalcogenide Monolayers. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3101-3108	6.4	20
382	Interface depended electronic and magnetic properties of vertical CrI/WSe heterostructures.. 2019 , 9, 14766-14771		13
381	Intrinsic Van Der Waals Magnetic Materials from Bulk to the 2D Limit: New Frontiers of Spintronics. 2019 , 31, e1900065		136
380	Evolution of interlayer and intralayer magnetism in three atomically thin chromium trihalides. 2019 , 116, 11131-11136		120
379	Magnetic 2D materials and heterostructures. 2019 , 14, 408-419		571
378	Strain induced electronic and magnetic properties of 2D magnet CrI: a DFT approach. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 335802	1.8	8
377	Noncollinearity-modulated Electronic Properties of Monolayer CrI ₃ . 2019 , 11,		1
376	The enhanced ferromagnetism of single-layer CrX (X = Br and I) via van der Waals engineering. 2019 , 21, 11949-11955		14
375	Growth and stabilization of two-dimensional multiferroics MnI ₂ . 2019 , 6, 085046		2
374	Enhanced Valley Splitting of Transition-Metal Dichalcogenide by Vacancies in Robust Ferromagnetic Insulating Chromium Trihalides. 2019 , 11, 18858-18864		21

373	Nonvolatile Electrical Control and Heterointerface-Induced Half-Metallicity of 2D Ferromagnets. 2019 , 29, 1901420		59
372	Thermoelectric Properties of Hexagonal $M\text{Te}$ ($M = \text{As, Sb, and Bi}$) Monolayers from First-Principles Calculations. 2019 , 9,		16
371	Triferroic Material and Electrical Control of Valley Degree of Freedom. 2019 , 11, 12675-12682		26
370	Tight-binding modeling of excitonic response in van der Waals stacked 2D semiconductors. 2019 , 4, 969-974		9
369	Interfacial Properties for a Monolayer CrS_2 Contact with Metal: A Theoretical Perspective. 2019 , 256, 1800597		4
368	Accelerated Degradation of CrCl_3 Nanoflakes Induced by Metal Electrodes: Implications for Remediation in Nanodevice Fabrication. 2019 , 2, 1597-1603		7
367	Strain effects on electronic and magnetic properties of the monolayer RuCl_3 : A first-principles and Monte Carlo study. 2019 , 125, 083903		20
366	Novel half-metallic and bipolar materials formed by decoration of g-SiC_2 with selected 3d transition metals. 2019 , 481, 484-497		7
365	Remarkably enhanced ferromagnetism in a super-exchange governed $\text{Cr}_2\text{Ge}_2\text{Te}_6$ monolayer via molecular adsorption. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5084-5093	7.1	32
364	Ferromagnetic van der Waals Crystal VI . 2019 , 141, 5326-5333		88
363	Intrinsic ferromagnetism and topological properties in two-dimensional rhenium halides. 2019 , 11, 6101-6107		15
362	Magnetism in two-dimensional materials beyond graphene. 2019 , 27, 107-122		69
361	Spin Filtering in CrI Tunnel Junctions. 2019 , 11, 15781-15787		37
360	First-Principles Prediction of Room-Temperature Ferromagnetic Semiconductor MnS_2 via Isovalent Alloying. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10114-10119	3.8	19
359	Control of magnetism in bilayer CrI_3 by an external electric field. 2019 , 6, 025020		28
358	First principles study of the electronic and magnetic properties of (Co,Ga) co-doped LiNbO_3 . 2019 , 125, 073901		3
357	Prediction of colossal magnetocrystalline anisotropy for transition metal triiodides. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 295801	1.8	1
356	Tuning Magnetism in Layered Magnet VI_3 : A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 30545-30550	3.8	23

355	Spin-dependent Dirac electrons and valley polarization in the ferromagnetic stanene/CrI ₃ van der Waals heterostructure. <i>Physical Review B</i> , 2019 , 100,	3.3	17
354	Direct observation of van der Waals stacking-dependent interlayer magnetism. 2019 , 366, 983-987		198
353	Quantum anomalous Hall effect by coupling heavy atomic layers with CrI ₃ . <i>Physical Review B</i> , 2019 , 100,	3.3	3
352	The emerging ferroic orderings in two dimensions. 2019 , 62, 1		7
351	Topological Magnon-Phonon Hybrid Excitations in Two-Dimensional Ferromagnets with Tunable Chern Numbers. 2019 , 123, 237207		16
350	Ferromagnetism in 2D organic iron hemoglobin crystals based on nitrogenated conjugated micropore materials. 2019 , 21, 25820-25825		2
349	Control of spintronic and electronic properties of bimetallic and vacancy-ordered vanadium carbide MXenes via surface functionalization. 2019 , 21, 25802-25808		14
348	Strain-tunable magnetic anisotropy in two-dimensional Dirac half-metals: nickel trihalides.. 2019 , 9, 35614-35623		3
347	Two-dimensional ferromagnetic van der Waals CrCl ₃ monolayer with enhanced anisotropy and Curie temperature. <i>Physical Review B</i> , 2019 , 100,	3.3	32
346	Exploring the electronic and magnetic properties of new metal halides from bulk to two-dimensional monolayer: RuX ₃ (X = Br, I). <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 476, 111-119	2.8	32
345	Theoretical investigation on the ferromagnetic two-dimensional scandium monochloride sheet that has a high Curie temperature. 2019 , 471, 1011-1016		3
344	Bulk properties of the van der Waals hard ferromagnet VI ₃ . <i>Physical Review B</i> , 2019 , 99,	3.3	69
343	Nonmetallic Atoms Induced Magnetic Anisotropy in Monolayer Chromium Trihalides. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 691-697	3.8	18
342	First-principles calculations of magnetic edge states in zigzag CrI ₃ nanoribbons. 2019 , 383, 754-758		5
341	Insights Into Interfacial Interaction and Its Influence on the Electronic and Optical Properties of Two-Dimensional WS ₂ /TX ₂ CO ₂ (TX = Ti, Zr) van der Waals Heterostructures. 2019 , 256, 1800377		1
340	Structural, electrical and optical properties of halogen doped phosphorene based on density functional theory. <i>Journal of Alloys and Compounds</i> , 2020 , 812, 152125	5.7	3
339	Strain-tunable magnetic order and electronic structure in 2D CrAsS ₄ . <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 497, 165941	2.8	3
338	Spin-Dependent Electronic Structure and Magnetic Anisotropy of 2D Ferromagnetic Janus Cr ₂ IX ₃ (X = Br, Cl) Monolayers. 2020 , 6, 1900778		45

337	Regulating electronic and magnetic properties in chromium trihalide monolayer. 2020 , 694, 121560	2
336	Recent advances in two-dimensional ferromagnetism: materials synthesis, physical properties and device applications. 2020 , 12, 2309-2327	32
335	Fundamental Spin Interactions Underlying the Magnetic Anisotropy in the Kitaev Ferromagnet CrI ₃ . 2020 , 124, 017201	62
334	Fully spin-polarized quadratic non-Dirac bands realized quantum anomalous Hall effect. 2020 , 22, 549-555	6
333	Spin Transport Study in Chromium Trihalides CrCl ₃ , CrBr ₃ , and CrI ₃ : an Ab Initio Study. 2020 , 33, 1447-1456	1
332	Stacking-Dependent Interlayer Magnetic Coupling in 2D CrI ₃ /CrGeTe ₃ Nanostructures for Spintronics. 2020 , 3, 1282-1288	27
331	Novel phenomena in two-dimensional semiconductors. 2020 , 25-79	
330	The intrinsic magnetism, quantum anomalous Hall effect and Curie temperature in 2D transition metal trihalides. 2020 , 22, 2429-2436	19
329	Relativistic exchange interactions in CrX ₃ (X=Cl, Br, I) monolayers. <i>Physical Review B</i> , 2020 , 102, 3.3	17
328	Valence band electronic structure of the van der Waals ferromagnetic insulators: VI[Formula: see text] and CrI[Formula: see text]. 2020 , 10, 15602	10
327	Two-dimensional stable Fe-based ferromagnetic semiconductors: FeI and FeCl monolayers. 2020 , 22, 24506-24515	6
326	Iodine orbital moment and chromium anisotropy contributions to CrI ₃ magnetism. 2020 , 117, 022411	5
325	Magnetic and electronic properties of 2D TiX (X = F, Cl, Br and I). 2020 , 22, 17632-17638	3
324	Magnetism and spin exchange coupling in strained monolayer CrOCl. 2020 , 22, 17255-17262	9
323	K ₂ CoS ₂ : A two-dimensional in-plane antiferromagnetic insulator. <i>Physical Review B</i> , 2020 , 102, 3.3	0
322	Ultrahigh tunneling magnetoresistance in van der Waals and lateral magnetic tunnel junctions formed by intrinsic ferromagnets Li _{0.5} CrI ₃ and CrI ₃ . 2020 , 117, 022412	10
321	Spontaneous skyrmionic lattice from anisotropic symmetric exchange in a Ni-halide monolayer. 2020 , 11, 5784	34
320	Ferroic orders in two-dimensional transition/rare-earth metal halides. 2020 , 8, 110704	10

319	Curie temperature engineering in a novel 2D analog of iron ore (hematene) via strain. 2020 , 2, 5890-5896		5
318	Tunable two dimensional ferromagnetic topological half-metal CrO ₂ by electronic correction and spin direction. 2020 , 117, 222407		7
317	Pressure-driven switching of magnetism in layered CrCl ₃ . 2020 , 12, 22935-22944		2
316	Theoretical study on the anomalies of the magnetic susceptibility in the honeycomb lattice compound Na ₂ Co ₂ TeO ₆ . <i>Physical Review B</i> , 2020 , 102,	3.3	2
315	Magnetic Two-Dimensional Chromium Trihalides: A Theoretical Perspective. 2020 , 20, 6225-6234		42
314	Vapor Deposition of Magnetic Van der Waals Nil Crystals. <i>ACS Nano</i> , 2020 , 14, 10544-10551	16.7	24
313	Flat-band splitting induced tunable magnetism in defective CrI ₃ monolayer. 2020 , 321, 114037		2
312	Electric polarization related Dirac half-metallicity in Mn-trihalide Janus monolayers. 2020 , 22, 26468-26477		1
311	Role of Buffer Layer and Building Unit in the Monolayer CrI Growth: A First-Principles Perspective. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 9453-9460	6.4	8
310	Observation of site-controlled localized charged excitons in CrI/WSe heterostructures. 2020 , 11, 5502		6
309	Rotated angular modulated electronic and optical properties of bilayer phosphorene: A first-principles study. 2020 , 117, 163102		6
308	Magnetic anisotropy and anomalous Hall effect in monoclinic single crystal Cr ₅ Te ₈ . <i>Physical Review B</i> , 2020 , 102,	3.3	4
307	Controlled Two-Dimensional Ferromagnetism in 1T'CrTe ₂ : The Role of Charge Density Wave and Strain. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 21047-21053	3.8	11
306	Computational Study of a Novel 2D Ferromagnetic Metal: the Ce ₂ C Monolayer. 2020 , 14, 2000324		1
305	Emergent phenomena and proximity effects in two-dimensional magnets and heterostructures. 2020 , 19, 1276-1289		80
304	Large Magnetic Anisotropy Energy and Robust Half-Metallic Ferromagnetism in 2D MnXSe ₄ (X = As, Sb). 2020 , 532, 2000365		1
303	Tuning Electronic and Magnetic Properties of Two-Dimensional Ferromagnetic Semiconductor CrI ₃ through Adsorption of Benzene. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 22143-22149	3.8	10
302	Anisotropic properties of monolayer 2D materials: An overview from the C2DB database. 2020 , 128, 105101		6

301	Charge transfer and strain tuned antiferromagnetism in the two-dimensional CrCl/[MoC(-O)] heterojunction. 2020 , 22, 20477-20481		0
300	Exchange splitting and exchange-induced nonreciprocal photonic behavior of graphene in CrI3-graphene van der Waals heterostructures. <i>Physical Review B</i> , 2020 , 102,	3.3	4
299	Tuning intrinsic ferromagnetic and anisotropic properties of the Janus VSeS monolayer. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 13286-13296	7.1	3
298	Mott localization in the van der Waals crystal CrI3: A GGA+DMFT study. <i>Physical Review B</i> , 2020 , 102,	3.3	2
297	Atomic-orbital-free intrinsic ferromagnetism in electrenes. <i>Physical Review B</i> , 2020 , 102,	3.3	9
296	Magnetism of Layered TiO2. 2020 , 1622, 012007		1
295	TM2B6: a newly designed ferromagnetic 2D metal-boride with a high Curie temperature. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 14805-14811	7.1	2
294	Magneto-optical response of chromium trihalide monolayers: chemical trends. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 8856-8863	7.1	14
293	Two-dimensional Dirac spin-gapless semiconductors with tunable perpendicular magnetic anisotropy and a robust quantum anomalous Hall effect. 2020 , 7, 2071-2077		14
292	Remarkably enhanced Curie temperature in monolayer CrI3 by hydrogen and oxygen adsorption: A first-principles calculations. 2020 , 183, 109820		18
291	Tunable magnetic anisotropy in Cr-trihalide Janus monolayers. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 355702	1.8	10
290	Prediction of MnSiTe3 as an intrinsic layered half-metal. <i>Physical Review B</i> , 2020 , 101,	3.3	10
289	Realization of quantized anomalous Hall effect by inserting CrI3 layer in Bi2Se3 film. 2020 , 22, 073005		2
288	Recent breakthroughs in two-dimensional van der Waals magnetic materials and emerging applications. 2020 , 34, 100902		16
287	High-temperature 2D ferromagnetism in conjugated microporous porphyrin-type polymers. 2020 , 22, 14480-14488		1
286	Direct measurements of proximity induced spin polarization in 2D systems. 2020 , 53, 343001		
285	Mechanical-electro-magnetic coupling in strained bilayer CrI3. 2020 , 63, 1265-1271		2
284	Two-dimensional hexagonal chromium chalcogenides with large vertical piezoelectricity, high-temperature ferromagnetism, and high magnetic anisotropy. 2020 , 22, 14503-14513		10

283	Electronic Structure and Magnetic Anisotropy of Single-Layer Rare-Earth Oxybromide. 2020 , 5, 14194-14201	7
282	Mechanical exfoliation and layer number identification of single crystal monoclinic CrCl. 2020 , 31, 395706	16
281	Exchange bias and quantum anomalous Hall effect in the MnBiTe/CrI heterostructure. 2020 , 6, eaaz0948	43
280	Proximity Spin-Orbit Torque on a Two-Dimensional Magnet within van der Waals Heterostructure: Current-Driven Antiferromagnet-to-Ferromagnet Reversible Nonequilibrium Phase Transition in Bilayer CrI. 2020 , 20, 2288-2295	45
279	Magnetic field control of topological magnon-polaron bands in two-dimensional ferromagnets. <i>Physical Review B</i> , 2020 , 101,	3.3 5
278	First-principles study the single-layer transition metal trihalide CrXSe (X = Sn, Ge, Si) as monolayer ferromagnetic semiconductor. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 085801	1.8 4
277	Monolayer TiC MXene: manipulating magnetic properties and electronic structures by an electric field. 2020 , 22, 11266-11272	16
276	Prospects and Opportunities of 2D van der Waals Magnetic Systems. 2020 , 532, 1900452	33
275	Prediction of a two-dimensional high-TC f-electron ferromagnetic semiconductor. 2020 , 7, 1623-1630	59
274	Thermoelectric Properties of NiCl Monolayer: A First-Principles-Based Transport Study. 2020 , 10,	2
273	Study on thermoelectric properties of CrI ₃ monolayer. 2020 , 13, 045001	3
272	Magnetic Proximity Effect in Graphene/CrBr van der Waals Heterostructures. 2020 , 32, e1908498	36
271	Electronic structure and magnetic exchange interactions of Cr-based van der Waals ferromagnets. A comparative study between CrBr ₃ and Cr ₂ Ge ₂ Te ₆ . <i>Journal of Materials Chemistry C</i> , 2020 , 8, 13582-13589	7.1 5
270	Magnetic Correlation Engineering in Spin-Sandwiched Layered Magnetic Frameworks. 2020 , 26, 16755-16766	1
269	First-principles investigation of a new 2D magnetic crystal: Ferromagnetic ordering and intrinsic half-metallicity. 2020 , 152, 244704	4
268	Ferromagnetic dual topological insulator in a two-dimensional honeycomb lattice. 2020 , 7, 2431-2438	3
267	Magnetic two-dimensional layered crystals meet with ferromagnetic semiconductors. 2020 , 2, 639-655	34
266	Orbitally-resolved ferromagnetism of monolayer CrI ₃ . 2020 , 7, 025036	30

265	Manipulation of valley pseudospin in WSe ₂ /CrI ₃ heterostructures by the magnetic proximity effect. <i>Physical Review B</i> , 2020 , 101,	3.3	26
264	Carrier- and strain-tunable intrinsic magnetism in two-dimensional MAX ₃ transition metal chalcogenides. <i>Physical Review B</i> , 2020 , 101,	3.3	21
263	Modulating superexchange strength to achieve robust ferromagnetic couplings in two-dimensional semiconductors. <i>Physical Review B</i> , 2020 , 101,	3.3	3
262	Band engineering in intrinsically magnetic CrBr ₃ monolayer. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 502, 166608	2.8	5
261	Bipolar Doping by Intrinsic Defects and Magnetic Phase Instability in Monolayer CrI ₃ . 2020 , 32, 1545-1552		13
260	Tuning the electronic structure of RhX (X = Cl, Br, I) nonmagnetic monolayers: effects of charge-injection and external strain. 2020 , 22, 4561-4573		3
259	Surface Functionalization Tailored Electronic Structure and Magnetic Properties of Two-Dimensional CrC ₂ Monolayers. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 3095-3106	3.8	7
258	Dirac half-metallicity of Thin PdCl Nanosheets: Investigation of the Effects of External Fields, Surface Adsorption and Defect Engineering on the Electronic and Magnetic Properties. 2020 , 10, 213		26
257	Theoretical model of spintronic device based on tunable anomalous Hall conductivity of monolayer CrI ₃ . 2020 , 116, 022404		4
256	Two-dimensional intrinsic ferromagnetic half-metals: monolayers Mn ₃ X ₄ (X = Te, Se, S). 2020 , 55, 7680-7690		12
255	Single-layer CrI ₃ grown by molecular beam epitaxy. 2020 , 65, 1064-1071		25
254	Realization of Single-atom ferromagnetism in graphene by Cu ₂ N ₄ moieties anchoring. 2020 , 116, 113102		4
253	Effects of 5d transition metals doping on the structural, electronic and magnetic properties of monolayer SnS ₂ . 2020 , 705, 138045		10
252	Thermoelectric properties of two-dimensional magnet CrI. 2020 , 31, 315713		5
251	Spin-dependent Schottky barriers and vacancy-induced spin-selective ohmic contacts in magnetic vdW heterostructures. 2020 , 22, 9460-9466		6
250	High-temperature ferromagnetic semiconductors: Janus monolayer vanadium trihalides. <i>Physical Review B</i> , 2020 , 101,	3.3	20
249	Tuning magnetic properties of single-layer MnTe ₂ via strain engineering. <i>Journal of Physics and Chemistry of Solids</i> , 2020 , 143, 109489	3.9	6
248	Ferromagnetic and ferroelectric two-dimensional materials for memory application. 2021 , 14, 1802-1813		9

247	First-principles study on the electric field manipulation of the magnetic property and the electronic structures for monolayer Fe ₂ C MXene. 2021 , 386, 126960		2
246	Magnetic Phase Transition in strained two-dimensional semiconductor MoTe ₁ Monolayer. 2021 , 536, 147842		1
245	Observation of Standing Spin Waves in a van der Waals Magnetic Material. 2021 , 33, e2005105		6
244	Small energy gap revealed in CrBr by scanning tunneling spectroscopy. 2021 , 23, 3225-3232		1
243	Tunable magnetism in layered CoPS ₃ by pressure and carrier doping. 2021 , 64, 673-682		8
242	Epitaxial growth of large-grain-size ferromagnetic monolayer CrI for valley Zeeman splitting enhancement. 2021 , 13, 2955-2962		3
241	Ni(NCS) monolayer: a robust bipolar magnetic semiconductor. 2021 , 13, 16564-16570		11
240	Enhancing the Curie temperature of two-dimensional monolayer CrI by introducing I-vacancies and interstitial H-atoms. 2021 , 23, 22103-22109		1
239	Electron correlation effects on exchange interactions and spin excitations in 2D van der Waals materials. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	14
238	Magnetization textures in twisted bilayer CrX ₃ (X=Br, I). 2021 , 3,		11
237	The Dirac half-semimetal and quantum anomalous Hall effect in two-dimensional Janus MnXY (X, Y = F, Cl, Br, I). 2021 , 23, 19673-19679		2
236	Engineering the ligand states by surface functionalization: a new way to enhance the ferromagnetism of CrI. 2021 , 13, 4821-4827		0
235	First principles study of electrical and magnetic properties of two-dimensional ferromagnetic semiconductors CrI ₃ adsorbed by atoms. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2021 , 70, 117101-117101	0.6	1
234	CrSbS monolayer: a potential phase transition ferromagnetic semiconductor. 2021 , 13, 14067-14072		1
233	High magnetoresistance and perfect spin filtering effect in silicane/germanene based magnetic Li _{0.5} CrI ₃ /Si/Ge/Li _{0.5} CrI ₃ tunnel junctions. <i>Journal of Materials Chemistry C</i> ,	7.1	1
232	Critical behavior of the ferromagnets CrI ₃ , CrBr ₃ , and CrGeTe ₃ and the antiferromagnet FeCl ₂ : A detailed first-principles study. <i>Physical Review B</i> , 2021 , 103,	3.3	10
231	Transition-metal adatoms on 2D-GaAs: a route to chiral magnetic 2D materials by design. <i>Journal of Physics Condensed Matter</i> , 2021 ,	1.8	
230	Imaging Vacancy Defects in Single-Layer Chromium Triiodide. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2199-2205	6.4	1

229	Bipolar ferromagnetic semiconductors and doping-tuned room-temperature half-metallicity in monolayer MoX ₃ (X=Cl, Br, I): An HSE06 study. <i>Physical Review B</i> , 2021 , 103,	3.3	3
228	Magnetoelectric Response of Antiferromagnetic CrI Bilayers. 2021 , 21, 1948-1954		5
227	Magnetism and thermal stability of layered TiO ₂ /MoS ₂ . 1-6		
226	Polymorphism in Post-Dichalcogenide Two-Dimensional Materials. 2021 , 121, 2713-2775		20
225	Revealing the Underlying Mechanisms of the Stacking Order and Interlayer Magnetism of Bilayer CrBr ₃ . <i>Journal of Physical Chemistry C</i> , 2021 , 125, 7314-7320	3.8	4
224	Strength of effective Coulomb interaction in two-dimensional transition-metal halides MX ₂ and MX ₃ (M=Ti, V, Cr, Mn, Fe, Co, Ni; X=Cl, Br, I). <i>Physical Review Materials</i> , 2021 , 5,	3.2	5
223	Spin-induced negative thermal expansion and spin-phonon coupling in van der Waals material CrBr ₃ . 2021 , 6,		11
222	Intrinsic room-temperature ferromagnetic semiconductor InCrTe ₃ monolayers with large magnetic anisotropy and large piezoelectricity. 2021 , 118, 123102		10
221	Two-Dimensional CrXS (X = Br, I) Janus Semiconductor with Intrinsic Room-Temperature Magnetism. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2905-2911	6.4	6
220	Distinctive magnetic properties of CrI ₃ and CrBr ₃ monolayers caused by spin-orbit coupling. <i>Physical Review B</i> , 2021 , 103,	3.3	6
219	Twistronics: a turning point in 2D quantum materials. 2021 , 3, 014004		9
218	Extrinsic room-temperature ferromagnetism in MoS ₂ . 2021 , 56, 9692-9701		1
217	Optical properties of monolayer, multilayer, and bulk BiI ₃ studied using time-dependent density functional theory. <i>Physical Review B</i> , 2021 , 103,	3.3	0
216	Magnetic anisotropy in spin-3/2 with heavy ligand in honeycomb Mott insulators: Application to CrI ₃ . 2021 , 3,		5
215	Conversion from antiferromagnetic MnBr to ferromagnetic MnBr monolayer with large MAE. 2021 , 16, 72		0
214	Recent developments on 2D magnetic materials: challenges and opportunities. 2021 , 4, 827-846		3
213	Layer-Dependent Mechanical Properties and Enhanced Plasticity in the Van der Waals Chromium Trihalide Magnets. 2021 , 21, 3379-3385		7
212	Modulation of electronic and magnetic properties of monolayer chromium trihalides by alloy and strain engineering. 2021 , 129, 155104		1

211	Symmetry analysis of tensors in the honeycomb lattice of edge-sharing octahedra. <i>Physical Review B</i> , 2021 , 103,	3.3	2
210	Computational design of two-dimensional magnetic materials. e1545		4
209	Strain modulation of magnetic properties of monolayer and bilayer FePS ₃ antiferromagnet. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 525, 167687	2.8	9
208	Theory of magnetism in the van der Waals magnet CrI ₃ . <i>Physical Review B</i> , 2021 , 103,	3.3	2
207	Magnetic order and critical temperature of substitutionally doped transition metal dichalcogenide monolayers. 2021 , 5,		11
206	Magnetic phase diagram of single-layer CrBr ₃ .		0
205	Robust ferromagnetism in single-atom-thick ternary chromium carbonitride CrN ₄ C ₂ . 2021 , 118, 223104		2
204	Ferromagnetic half-metal with high Curie temperature: Janus Mn ₂ PAs monolayer. 2021 , 56, 13215-13226		5
203	Hybrid improper ferroelectricity and magnetoelectric coupling in a two-dimensional perovskite oxide. <i>Physical Review B</i> , 2021 , 103,	3.3	1
202	Electronic structure of rhombohedral CrX ₃ (X=Br, Cl, I) van der Waals crystals. <i>Physical Review B</i> , 2021 , 103,	3.3	0
201	Intrinsic piezoelectric ferromagnetism with large out-of-plane piezoelectric response in Janus monolayer CrBr _{1.5} I _{1.5} . 2021 , 129, 214301		6
200	Magnetic exchange interactions in bilayer CrX ₃ (X=Cl, Br, and I): A critical assessment of the DFT+U approach. <i>Physical Review B</i> , 2021 , 103,	3.3	0
199	Valley-Dependent Interlayer Excitons in Magnetic WSe ₂ /CrI ₃ . 2021 , 21, 5173-5178		5
198	Using ferroelectric polarization to regulate and preserve the valley polarization in a HfN ₂ /CrI ₃ /In ₂ Se ₃ heterotrilayer. <i>Physical Review B</i> , 2021 , 103,	3.3	3
197	Monolayer CrCl ₃ as an Ideal Test Bed for the Universality Classes of 2D Magnetism. 2021 , 127, 037204		4
196	Band shifting and magnetic anisotropy switching induced by electric field in CrI ₃ /1T'-MX ₂ heterojunction. 2021 , 54, 395302		0
195	A First-Principle Study of Monolayer Transition Metal Carbon Trichalcogenides. 2021 , 34, 2141-2149		0
194	Strain-Controllable High Curie Temperature and Magnetic Crystal Anisotropy in a 2D Ferromagnetic Semiconductive FeI ₃ Monolayer. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 3147-3157	4	10

193	Chiral hinge magnons in second-order topological magnon insulators. <i>Physical Review B</i> , 2021 , 104,	3.3	4
192	Magnetic field modulated photoelectric devices in ferromagnetic semiconductor CrXh (X = S/Se, h = Cl/Br/I) van der Waals heterojunctions. 2021 , 119, 032103		1
191	Full-Electrical Writing and Reading of Magnetization States in a Magnetic Junction with Symmetrical Structure and Antiparallel Magnetic Configuration. <i>ACS Nano</i> , 2021 ,	16.7	1
190	Significant enhancement of magnetic anisotropy and conductivity in GaN/CrI3 van der Waals heterostructures via electrostatic doping. <i>Physical Review B</i> , 2021 , 104,	3.3	2
189	Self-consistently renormalized spin-wave theory of layered ferromagnets on the honeycomb lattice. <i>Physical Review B</i> , 2021 , 104,	3.3	1
188	One-dimensional ferromagnetic semiconductor CrSbSe3 with high Curie temperature and large magnetic anisotropy. <i>Physical Review B</i> , 2021 , 104,	3.3	2
187	Electronic structure of van der Waals ferromagnet CrI3 from self-consistent vertex corrected GW approaches. <i>Physical Review Materials</i> , 2021 , 5,	3.2	0
186	A new ternary Pentagonal Monolayer based on Bi with large intrinsic Dzyaloshinskii-Moriya interaction..		0
185	Exploring magnetic stability and valley splitting on CrI3/SiC van der Waals heterostructure. 2021 , 560, 149858		10
184	Strain-tunable phase transition and doping-induced magnetism in iodine. 2021 , 119, 102403		2
183	High-temperature ferromagnetism in monolayers MnGaX3 (X = Te, Se). <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 534, 168041	2.8	0
182	The 3d transition-metals doping tunes the electronic and magnetic properties of 2D monolayer InP3. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 533, 168026	2.8	2
181	A universal framework for metropolis Monte Carlo simulation of magnetic Curie temperature. 2021 , 197, 110638		2
180	Recent progress on emergent two-dimensional magnets and heterostructures. 2021 , 32,		6
179	Recent progress on 2D magnets: Fundamental mechanism, structural design and modification. 2021 , 8, 031305		35
178	Spin-flip-driven giant magnetotransport in A-type antiferromagnet NaCrTe2. <i>Physical Review Materials</i> , 2021 , 5,	3.2	0
177	Switchable Interlayer Magnetic Coupling of Bilayer CrI. 2021 , 11,		1
176	Noncollinear Magnetic Order in Two-Dimensional NiBr Films Grown on Au(111). <i>ACS Nano</i> , 2021 , 15, 14985-14995	14.985	14995

175	Predicting MnB6 monolayer with room temperature ferromagnetism and high magnetic anisotropy. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 134, 114930	3	1
174	The tuning on the magnetism and the electronic structures of monolayer Ti2N MXene by electric field. 2021 , 618, 413183		2
173	Half-metallicity and Curie temperature enhancement of CrI3 through boron atoms adsorption. 2021 , 159, 107054		2
172	Prediction of two-dimensional M2As (M = Mn, Fe) with high Curie temperature and large perpendicular magnetic anisotropy. 2021 , 200, 110838		1
171	Defect stability and intriguing magnetic properties in Janus chromium trihalides monolayer. 2021 , 569, 150995		1
170	First-principles study on the electronic properties and enhanced ferromagnetism of alkali metals adsorbed monolayer CrI3. 2021 , 194, 110561		1
169	Tuning the magnetic and electronic properties of monolayer VI3 by 3d transition metal doping: A first-principles study. 2022 , 571, 151208		1
168	The induction of half-metallicity and enhanced ferromagnetism in a Cr2Ge2Te6 monolayer via electron doping and alkali metal adsorption. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 5952-5960	7.1	1
167	Intrinsic room-temperature piezoelectric quantum anomalous hall insulator in Janus monolayer FeIX (X = Cl and Br). 2021 , 13, 12956-12965		12
166	Magnetism and electronic structures of bismuth (stannum) films at the CrI (CrBr) interface. 2021 , 23, 4255-4261		1
165	Two dimensional CrGaSe: a spin-gapless ferromagnetic semiconductor with inclined uniaxial anisotropy. 2021 , 13, 6024-6029		7
164	Difference in magnetic anisotropy of the ferromagnetic monolayers VI3 and CrI3. <i>Physical Review B</i> , 2021 , 103,	3.3	9
163	Spin-constrained optoelectronic functionality in two-dimensional ferromagnetic semiconductor heterojunctions. 2021 , 8, 1323-1333		5
162	Tunable magneto-optical effect, anomalous Hall effect, and anomalous Nernst effect in the two-dimensional room-temperature ferromagnet 1T'CrTe2. <i>Physical Review B</i> , 2021 , 103,	3.3	3
161	CrI3 magnetic nanotubes: A comparative DFT and DFT+U study, and strain effect. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 123, 114205	3	5
160	Atomic structure, work function and magnetism in layered single crystal VOCl. 2021 , 8, 015027		7
159	Magnetic behavior and spin-lattice coupling in cleavable van der Waals layered CrCl3 crystals. <i>Physical Review Materials</i> , 2017 , 1,	3.2	141
158	High-temperature magnetostructural transition in van der Waals-layered MoCl3. <i>Physical Review Materials</i> , 2017 , 1,	3.2	28

157	Temperature-dependent magnetic anisotropy in the layered magnetic semiconductors CrI ₃ and CrBr ₃ . <i>Physical Review Materials</i> , 2018 , 2,	3.2	49
156	Systematic search for two-dimensional ferromagnetic materials. <i>Physical Review Materials</i> , 2018 , 2,	3.2	59
155	Microscopic understanding of magnetic interactions in bilayer CrI ₃ . <i>Physical Review Materials</i> , 2019 , 3,	3.2	79
154	Crystal structures and phase transitions of the van der Waals ferromagnet VI ₃ . <i>Physical Review Materials</i> , 2019 , 3,	3.2	22
153	Electron spin resonance and ferromagnetic resonance spectroscopy in the high-field phase of the van der Waals magnet CrCl ₃ . <i>Physical Review Materials</i> , 2020 , 4,	3.2	11
152	Ferromagnetism and half-metallicity in two-dimensional MO (M=Ga,In) monolayers induced by hole doping. <i>Physical Review Materials</i> , 2020 , 4,	3.2	5
151	Strain and electric-field control of spin-spin interactions in monolayer CrI ₃ . <i>Physical Review Materials</i> , 2020 , 4,	3.2	10
150	Localized surface electromagnetic waves in CrI-based magnetophotonic structures. 2020 , 28, 29155-29165		1
149	Electronic structure and stability of two-dimensional bimetallic ferromagnetic semiconductor CrMoI ₆ . <i>Wuli Xuebao/Acta Physica Sinica</i> , 2021 , 70, 207301-207301	0.6	
148	Transition of CrI from a two-dimensional network to one-dimensional chain at the monolayer limit. 2021 , 23, 25291-25297		0
147	Generalization of piezoelectric quantum anomalous Hall insulator based on monolayer FeI: a first-principles study. 2021 , 23, 25994-26003		2
146	Intrinsic Polarization-Induced Enhanced Ferromagnetism and Self-Doped p-n Junctions in CrBr/GaN van der Waals Heterostructures. 2021 , 13, 8764-8773		4
145	Environmental screening and ligand-field effects to magnetism in CrI ₃ monolayer. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	0
144	Spin-Dependent Electronic Structure and Magnetic Properties of 2D JANUS Mn ₂ CFCl/CuBiP ₂ Se ₆ Van Der Waals Multiferroic Heterostructures. <i>Advanced Theory and Simulations</i> , 2021 , 4, 2100302	3.5	1
143	Massless Dirac magnons in the two dimensional van der Waals honeycomb magnet CrCl ₃ . 2022 , 9, 015006		2
142	First-Principles Calculations of Room-Temperature Antiferromagnetism in Crystalline Transition-Metal Borate Nanosheets: Implications for Spintronics Applications. 2021 , 4, 10877-10885		1
141	Intrinsic 2D-XY ferromagnetism in a van der Waals monolayer. 2021 , 374, 616-620		21
140	Newtype two-dimensional Cr ₂ O ₃ monolayer with half-metallicity, high curie temperature, and magnetic anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 2022 , 543, 168657	2.8	1

139	Two-dimensional magnetic atomic crystals. 2021 ,		1
138	Intrinsic ferromagnetism in 2D h-CrC semiconductors with strong magnetic anisotropy and high Curie temperatures. <i>Journal of Materials Chemistry C</i> ,	7.1	1
137	Analysis of Ionicity-Magnetism Competition in 2D-MX ₃ Halides towards a Low-Dimensional Materials Study Based on GPU-Enabled Computational Systems. 2021 , 11,		0
136	Magnetic tunneling junctions based on 2D CrI ₃ and CrBr ₃ : spin filtering effects and high tunnel magnetoresistance via energy band difference.		1
135	Engineering magnetic anisotropy and exchange couplings in double transition metal MXenes via surface defects. <i>Journal of Physics Condensed Matter</i> , 2020 , 33, 035801	1.8	1
134	Self-modulated photoluminescence of CrBr ₃ flake. 2020 , 15, 788-792		1
133	Ferromagnetic barrier induced large enhancement of tunneling magnetoresistance in van der Waals perpendicular magnetic tunnel junctions. 2021 ,		0
132	Effective modulating the electronic and magnetic properties of VI ₃ monolayer: A first-principles calculation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022 , 137, 115079	3	0
131	Spin-valley coupling and valley splitting in the MoSi ₂ N ₄ /CrCl ₃ van der Waals heterostructure. 2021 , 119, 213101		6
130	Tunable band gap and transition between antiferromagnetism and ferromagnetism by surface adsorption in single-layer FePS ₃ . 1		0
129	Room-temperature non-Dirac quantum anomalous Hall states, half semiconductors, and strain-tuned half metals in monolayer zirconium trihalide. <i>Physical Review B</i> , 2021 , 104,	3.3	0
128	Recent Developments in van der Waals Antiferromagnetic 2D Materials: Synthesis, Characterization, and Device Implementation. <i>ACS Nano</i> , 2021 ,	16.7	9
127	Electrically switchable valley polarization, spin/valley filter, and valve effects in transition-metal dichalcogenide monolayers interfaced with two-dimensional ferromagnetic semiconductors. <i>Physical Review B</i> , 2021 , 104,	3.3	3
126	Structure, magnetism, and electronic properties of MXene bilayer Fe ₂ NO ₂ H _x (x = 1.5, 1)/Ti ₂ CO ₂ stacked heterojunction. 2022 , 790, 139319		0
125	Coexistence of intrinsic room-temperature ferromagnetism and piezoelectricity in monolayer BiCrX (X = S, Se, and Te).. 2021 ,		2
124	Tunable magnetic order in two-dimensional layered GdGe ₂ . <i>Journal of Materials Chemistry C</i> , 2022 , 10, 1259-1269	7.1	1
123	Ferromagnetic Double Perovskite Semiconductors with Tunable Properties.. 2022 , e2104319		1
122	Magnetism, symmetry and spin transport in van der Waals layered systems.		9

121	Ferromagnetism of Mn-N4 Architecture Embedded Graphene.		0
120	A combined first principles study of the structural, magnetic, and phonon properties of monolayer CrI ₃ . 2022 , 156, 014707		3
119	Strain-induced topological phase transition and enhanced Curie temperature in MnBi ₂ Te ₄ /CrI ₃ heterojunction. <i>Physical Review Materials</i> , 2022 , 6,	3.2	2
118	Multiwavelength magnetic coding of helical luminescence in ferromagnetic 2D layered CrI ₃ . 2022 , 25, 103623		3
117	Exploring the heavy transition metal trihalide family: Two-dimensional magnetic materials with tunable band gap, huge magnetic anisotropy, and high-temperature magnetic ordering. <i>Physical Review Materials</i> , 2022 , 6,	3.2	0
116	Element-dependent unique properties of Janus Cr ₂ I ₃ X ₃ (X = F, Cl, Br) monolayer: Insight from first-principles calculations. 2022 , 278, 115610		0
115	Machine Learning Study of the Magnetic Ordering in 2D Materials.. 2022 ,		2
114	Exotic magnetic and electronic properties of layered CrI ₃ single crystals under high pressure. <i>Physical Review B</i> , 2022 , 105,	3.3	1
113	Giant interlayer magnetic exchange interaction and charge-spin coupling in a van der Waals magnetic interface driven by p _d coupling. <i>Physical Review B</i> , 2022 , 105,	3.3	1
112	Tuning the Magnetic and Electronic Properties of MoI ₃ Monolayer by 3d Transition Metal Doping: A First-Principles Study?. <i>Journal of Magnetism and Magnetic Materials</i> , 2022 , 551, 169163	2.8	0
111	??3d<sup>2</sup>??VI<sub>3</sub>??????. 2022 ,		
110	Unconventional ferrimagnetism and enhanced magnetic ordering temperature in monolayer CrCl ₃ by introducing O impurities and Cl vacancies. 2022 , 5, 014004		
109	Stability, electronic and magnetic properties of the penta-CoAsSe monolayer: a first-principles and Monte Carlo study.. 2022 ,		0
108	A Study of transition metal dichalcogenides/Chromium Trihalides vdW heterostructure based on band unfolding method. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022 ,	0.6	
107	Prediction of high Curie-temperature intrinsic ferromagnetic semiconductors and quantum anomalous Hall states in XBr ₃ (X = Cu, Ag, Au) monolayers. <i>Journal of Materials Chemistry C</i> ,	7.1	1
106	Uniaxial pressure effects in the two-dimensional van der Waals ferromagnet CrI ₃ . <i>Physical Review B</i> , 2022 , 105,	3.3	0
105	Theoretical realization of two-dimensional half-metallicity and fully spin-polarized multiple nodal-line fermions in monolayer PrOBr. <i>Physical Review B</i> , 2022 , 105,	3.3	1
104	Spin-Phonon Coupling in Ferromagnetic Monolayer Chromium Tribromide.. 2022 , e2108506		1

103	Scaling Behavior of Magnetoresistance with the Layer Number in CrI ₃ Magnetic Tunnel Junctions. 2022 , 17,		2
102	Tuning electronic properties and ferromagnetism of CrI ₃ monolayers with doped transition-metal atoms.		
101	Valley-dependent properties in two-dimensional Cr ₂ COF MXene predicted from first principles. <i>Physical Review Materials</i> , 2022 , 6,	3.2	1
100	Spin transport properties and nanodevice simulations of NiI ₂ monolayer. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022 , 115262	3	1
99	Vacancy-engineered half-metallicity and magnetic anisotropy in CrSi semiconductor monolayer. <i>Journal of Alloys and Compounds</i> , 2022 , 909, 164797	5.7	1
98	Growth of high-quality CrI ₃ single crystals and engineering of its magnetic properties via V and Mn doping. <i>Journal of Alloys and Compounds</i> , 2022 , 908, 164573	5.7	
97	DyOCl: A rare-earth based two-dimensional van der Waals material with strong magnetic anisotropy. <i>Physical Review B</i> , 2021 , 104,	3.3	2
96	Unveiling 2D Ferroelectricity and Ferromagnetism Interaction in van der Waals Heterobilayers. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 27837-27843	3.8	1
95	CrI ₃ monolayer: magnetic and electronic behaviors under biaxial strain and external electric field—first principle study. <i>European Physical Journal B</i> , 2022 , 95,	1.2	1
94	Electronic structure and magnetism of the Hund's insulator CrI ₃ . <i>Physical Review B</i> , 2022 , 105,	3.3	0
93	Rational Design of Heteroanionic Two-Dimensional Materials with Emerging Topological, Magnetic, and Dielectric Properties.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 3594-3601	6.4	4
92	Pressure dependent magnetic properties on bulk CrBr ₃ single crystals. <i>Journal of Alloys and Compounds</i> , 2022 , 165034	5.7	1
91	2D spontaneous valley polarization from inversion symmetric single-layer lattices. <i>Npj Computational Materials</i> , 2022 , 8,	10.9	2
90	Magnetic Phase Transition in Two-Dimensional CrBr ₃ Probed by a Quantum Sensor. <i>Chinese Physics Letters</i> , 2022 , 39, 047601	1.8	0
89	The Magnetic Genome of Two-Dimensional van der Waals Materials.. <i>ACS Nano</i> , 2022 ,	16.7	10
88	Electrically Tunable Second Harmonic Generation in Atomically Thin ReS ₂ . <i>ACS Nano</i> , 2022 ,	16.7	0
87	Quantum anomalous Hall and valley quantum anomalous Hall effects in two-dimensional d ₀ orbital XY monolayers. <i>Physical Review Materials</i> , 2022 , 6,	3.2	
86	Modulated Ferromagnetism and Electric Polarization Induced by Surface Vacancy in MX ₂ Monolayers. <i>Journal of Physical Chemistry C</i> ,	3.8	1

85	Strain and electric field dependent spin polarization in two-dimensional arsenene/CrI ₃ heterostructure. <i>Journal of Alloys and Compounds</i> , 2022 , 912, 165093	5.7	
84	Characterization of two dimensional ferromagnetic binary and Janus manganese dichalcogenides. <i>Journal of Magnetism and Magnetic Materials</i> , 2022 , 556, 169412	2.8	0
83	Lateral magnetic tunnel junctions with a heterointerface-induced half-metallic electrode. <i>Journal of Physics and Chemistry of Solids</i> , 2022 , 167, 110754	3.9	1
82	Goodenough-Kanamori-Anderson Rules in CrI ₃ /MoTe ₂ /CrI ₃ Van der Waals Heterostructure. <i>Journal of the Electrochemical Society</i> ,	3.9	0
81	Layer-independent ferromagnetic insulators in a new structural phase of Cr ₂ S ₃ . <i>Physical Review Materials</i> , 2022 , 6,	3.2	0
80	Spin-orbit-derived giant magnetoresistance in a layered magnetic semiconductor AgCrSe ₂ . <i>Physical Review Materials</i> , 2022 , 6,	3.2	1
79	Dynamical correlations in single-layer CrI ₃ . <i>Physical Review B</i> , 2022 , 105,	3.3	0
78	Two-Dimensional Multifunctional Metal-Organic Framework with Intrinsic Bipolar Magnetic Semiconductivity and Negative Poisson's Ratio. <i>ACS Applied Electronic Materials</i> ,	4	1
77	Spin-Transport through Van der Waals Heterojunctions Based on 2D-Ferromagnet and Transition Metal Dichalcogenides: A Study from First-Principles Calculations. <i>Advanced Theory and Simulations</i> , 2200178	3.5	0
76	Large Vertical Piezoelectricity in a Janus Cr ₂ I ₃ F ₃ Monolayer. <i>Materials</i> , 2022 , 15, 4418	3.5	1
75	Achieving High-Temperature Ferromagnetism by Means of Magnetic Ion Dimerization in the Graphene-like Mn ₂ N ₆ C ₆ Monolayer. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 10139-10144	3.8	0
74	Strong Spin-Phonon Coupling in Two-Dimensional Magnetic Semiconductor CrSBr. <i>Journal of Physical Chemistry C</i> ,	3.8	1
73	Ferromagnetism and valley polarization in Janus single-layer VS ₂ . <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022 , 143, 115341	3	
72	Two dimensional Janus Ti-trihalide monolayers with half-metallic characteristics, Mott insulator properties and tunable magnetic anisotropy. <i>Journal of Materials Chemistry C</i> ,	7.1	
71	Strain-tunable charge carrier transport properties and optical properties of CrI ₃ monolayer using first-principles. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022 ,	0.6	
70	Emergent Phenomena in Magnetic Two-Dimensional Materials and van der Waals Heterostructures. <i>ACS Applied Electronic Materials</i> ,	4	2
69	Interlayer Hopping Kinetics of Vacancies in CrI ₃ Layers Leading to Monolayer/Bilayer Heterostructures. <i>Advanced Materials Interfaces</i> , 2200626	4.6	
68	Magnetic phase transition of monolayer chromium trihalides investigated with machine learning: Toward a universal magnetic Hamiltonian. <i>Journal of Physics Condensed Matter</i> ,	1.8	

- 67 A simple descriptor for magnetic classification of 2D MXene materials. *AIP Advances*, **2022**, 12, 075106 1.5
- 66 Magnetic two-dimensional chromium trihalides: structure, properties and modulation. *Rare Metals*, 5.5 0
- 65 Theoretical prediction of Curie temperature in two-dimensional ferromagnetic monolayer. **2022**, 132, 053901 2
- 64 Ferromagnetic Order in Two- and One-Dimensional Materials. **2022**, 65-80
- 63 Band Gap Opening in Bilayer Graphene-CrCl₃/CrBr₃/CrI₃ van der Waals Interfaces. **2022**, 22, 6760-6766 0
- 62 Dynamic magnetic crossover at the origin of the hidden-order in van der Waals antiferromagnet CrSBr. **2022**, 13, 2
- 61 High Curie temperature and large perpendicular magnetic anisotropy in two-dimensional half metallic OsI₃ monolayer with quantum anomalous Hall effect. **2022**, 28, 100847 2
- 60 Electronic structure, magnetoresistance and spin filtering in graphene|2 monolayer-CrI₃|graphene van der Waals magnetic tunnel junctions. **2022**, 12, 28533-28544 0
- 59 Anisotropy-induced phase transitions in an intrinsic half-Chern insulator Ni₂I₂. **2022**, 14, 13378-13388 0
- 58 Integrating ferromagnetism and ferroelectricity in an iron chalcogenide monolayer: a first-principles study. **2022**, 14, 14231-14239 1
- 57 In-plane CrI₂/CrI₃ 2D superlattice: novel electronic properties and strain induced phase transition. 1
- 56 Tunable large spin Nernst effect in a two-dimensional magnetic bilayer. **2022**, 106, 0
- 55 Coupling of ferroelectric and valley properties in 2D materials. **2022**, 132, 120902 0
- 54 Tunable Weyl half-semimetals in two-dimensional iron-based materials MFeSe (M=Ti, In, Ga). **2022**, 106, 1
- 53 High-Temperature Ferromagnetism in a Two-Dimensional Semiconductor with a Rectangular Spin Lattice. **2022**, 126, 16034-16041 2
- 52 Giant tunnel magnetoresistance in two-dimensional van der Waals magnetic tunnel junctions: Ag/CrI₃/MoSi₂N₄/Cr. **2022**, 106, 0
- 51 Lattice dynamics, elastic, magnetic, thermodynamic and thermoelectric properties of the two-dimensional semiconductors MPSe₃ (M=Cd, Fe and Ni): a first-principles study. 0
- 50 Electron-doping induced tunable magnetisms in 2D janus TiXO (X = S, Se). **2022**, 115518 0

49	2D-Double transition metal MXenes for spintronics applications: surface functionalization induced ferromagnetic half-metallic complexes.	1
48	Tunable magnetic anisotropy in two-dimensional CrX_3/AlN ($\text{X}=\text{I}, \text{Br}, \text{Cl}$) heterostructures. 2022 , 106,	1
47	Two-dimensional Janus monolayers with tunable electronic and magnetic properties.	1
46	Ultrafast Spontaneous Localization of a Jahn-Teller Exciton Polaron in Two-Dimensional Semiconducting CrI_3 by Symmetry Breaking.	0
45	Intrinsic bitunable magnetism/polarity behavior in 2D Janus CrI_3Y_3 ($\text{Y} = \text{F}, \text{Cl}, \text{or Br}$) systems. 2022 , 6,	3
44	Two-dimensional semiconductors of CrX_3H_3 ($\text{X} = \text{O}, \text{S}, \text{Se}, \text{and Te}$) structures with large magnetic anisotropy and high Curie temperature.	0
43	Electronic properties and magnetism of CrCl_3 nanoribbons. 2022 , 564, 170105	0
42	Large vertical piezoelectricity and high-temperature ferromagnetism in 2D ferromagnetic semiconductors MnAsX ($\text{X} = \text{I}, \text{Br}, \text{Cl}$). 2023 , 146, 115544	0
41	Two-dimensional half Chern-Weyl semimetal with multiple screw axes. 2022 , 106,	0
40	Two-dimensional Cr-based ferromagnetic semiconductor: Theoretical simulations and design. 10,	0
39	Understanding External Pressure Effects and Interlayer Orbital Exchange Pathways in the Two-Dimensional Magnet-Chromium Triiodide. 2022 , 126, 19327-19335	1
38	Li_2NiSe_2 : a new type intrinsic two dimensional ferromagnetic semiconductor above 200 K.	0
37	Theoretical investigation of the magnetic properties of ferromagnetic CrI_3 monolayer. 2022 , 447, 169166	0
36	Synchrotron Radiation Photoemission Spectroscopy of Oxygen Modified CrCl_3 Surface.	0
35	Tailoring Bulk Photovoltaic Effects in Magnetic Sliding Ferroelectric Materials. 2022 , 22, 9297-9305	0
34	The VdW Heterostructure Interface Physics. 2022 , 125-156	0
33	Exchange-mediated magnon-phonon scattering in monolayer CrI_3 . 2022 , 106,	0
32	Asymmetric magnetic proximity interactions in $\text{MoSe}_2/\text{CrBr}_3$ van der Waals heterostructures.	1

- 31 Identification of a Magnetic Phase via a Raman Spectrum in Single-Layer MnSe: An ab Initio Study. ○
- 30 Superexchange and spin-orbit coupling in monolayer and bilayer chromium trihalides. **2022**, 106, ○
- 29 Structural, Magnetic and Vibrational Properties of Van Der Waals Ferromagnet CrBr₃ at High Pressure. **2023**, 16, 454 ○
- 28 Inter-layer magnetic tuning by gas adsorption in stacked pillared-layer framework magnets. ○
- 27 Prediction of monolayer FeP₄ with intrinsic half-metal ferrimagnetism above room temperature. **2023**, 107, ○
- 26 Systematic DFT+U and Quantum Monte Carlo Benchmark of Magnetic Two-Dimensional (2D) CrX₃ (X = I, Br, Cl, F). 2
- 25 Tuned electronic and magnetic properties in 3d transition metal doped VCl₃ monolayer: a first-principles study. **2023**, 98, 025814 ○
- 24 Monolayer and bilayer lanthanide compound Gd₂C with large magnetic anisotropy energy and high Curie temperature. **2023**, 58, 268-280 ○
- 23 Orbital and magnetic ordering in single-layer FePS₃ : A DFT+U study. **2023**, 107, ○
- 22 Fourth order Heisenberg models with minimal number of parameters for two-dimensional magnetic crystals. **2023**, 568, 170385 ○
- 21 Tunable Electronic and Magnetic Properties of T-CrTe₂ Monolayer by Li Adsorption. **2023**, 231, 133-141 ○
- 20 Large spontaneous valley polarization and high magnetic transition temperature in stable two-dimensional ferrovalley YX₂(X=I, Br, and F). **2023**, 107, ○
- 19 Spin-selective contact type and strong Fermi level pinning at CrI₃/metal interface. **2023**, 100309 ○
- 18 Enhancement of Perpendicular Magnetic Anisotropy and Curie Temperature in V-Doped Two-Dimensional CrSI Janus Semiconductor Monolayer. **2023**, 127, 2003-2011 ○
- 17 Tunable surface magnetism by gate voltage in a slab of nonmagnetic half-Heusler compound CoTiSb. **2023**, 158, 064705 ○
- 16 Moiré-driven multiferroic order in twisted CrCl₃, CrBr₃ and CrI₃ bilayers. **2023**, 10, 025026 ○
- 15 Influence of Mo Doping on Electronic and Magnetic Properties of Monolayer CrX₃: A First-Principles Study. **2023**, 12, 043001 ○
- 14 First-principles prediction of room-temperature half-metallicity in strain- and carrier-tunable monolayer Mn₂Sn₂Te₆. **2023**, 150, 115704 ○

- 13 Intrinsic ferromagnetic half-metal: Non-equivalent alloying compounds CrMnI₆ monolayer. **2023**, 623, 157084 ○
- 12 Strain enhanced magnetism of V-implanted CrI₃ monolayer. **2023**, 122, 063101 ○
- 11 Ferroelectricity and High Curie Temperature in a 2D Janus Magnet. ○
- 10 Electronic and magnetic properties of charged point defects in monolayer CrI₃. **2023**, 25, 8809-8815 ○
- 9 Theoretical studies on electronic, magnetic and optical properties of two dimensional transition metal trihalides. **2023**, 35, 233001 ○
- 8 Physical insights into enhancing magnetic stability of 2D magnets. **2023**, 133, 110902 ○
- 7 Frequency Splitting of Chiral Phonons from Broken Time-Reversal Symmetry in CrI₃. **2023**, 130, ○
- 6 Doping- and strain-tuned high Curie temperature half-metallicity and quantum anomalous Hall effect in monolayer NiAl₂S₄ with non-Dirac and Dirac states. **2023**, 107, ○
- 5 Flexomagnetic noncollinear state with a plumb line shape spin configuration in edged two-dimensional magnetic CrI₃. **2023**, 8, ○
- 4 First principles study in two-dimensional antiferromagnetic Mn₂Cl₈ with strain-controllable and hydrogenation. **2023**, 10, 046102 ○
- 3 Visualization of Moiré Magnons in Monolayer Ferromagnet. ○
- 2 Electrically manipulating magnetization reversal via energy band engineering. **2023**, 66, ○
- 1 Stacking effect on the electronic structures of hexagonal GaTe. ○