

Chengwang Niu

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

48 papers	2,326 citations	21 h-index	48 g-index
57 ext. papers	2,717 ext. citations	5.7 avg, IF	4.81 L-index

#	Paper	IF	Citations
48	Evidence of the existence of magnetism in pristine VX ₂ monolayers (X = S, Se) and their strain-induced tunable magnetic properties. <i>ACS Nano</i> , 2012 , 6, 1695-701	16.7	590
47	Electronic and magnetic properties of perfect, vacancy-doped, and nonmetal adsorbed MoSe ₂ , MoTe ₂ and WS ₂ monolayers. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 15546-53	3.6	349
46	Graphene adhesion on MoS ₂ monolayer: an ab initio study. <i>Nanoscale</i> , 2011 , 3, 3883-7	7.7	315
45	First-Principles Study of the ₂ Heterobilayers. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 20237-20241	3.8	112
44	Strain-induced magnetic transitions in half-fluorinated single layers of BN, GaN and graphene. <i>Nanoscale</i> , 2011 , 3, 2301-6	7.7	107
43	Halogenated two-dimensional germanium: candidate materials for being of Quantum Spin Hall state. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12587		74
42	Mn induced ferromagnetism and modulated topological surface states in Bi ₂ Te ₃ . <i>Applied Physics Letters</i> , 2011 , 98, 252502	3.4	66
41	Magnetic properties of the semifluorinated and semihydrogenated 2D sheets of group-IV and III-V binary compounds. <i>Applied Surface Science</i> , 2011 , 257, 7845-7850	6.7	59
40	Functionalized bismuth films: Giant gap quantum spin Hall and valley-polarized quantum anomalous Hall states. <i>Physical Review B</i> , 2015 , 91,	3.3	56
39	Two-dimensional inversion-asymmetric topological insulators in functionalized III-Bi bilayers. <i>Physical Review B</i> , 2015 , 91,	3.3	51
38	Electronic properties of two-dimensional van der Waals GaS/GaSe heterostructures. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 11548-11554	7.1	50
37	. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 12977-12981	3.8	47
36	BiTe is a dual topological insulator. <i>Nature Communications</i> , 2017 , 8, 14976	17.4	46
35	Two-Dimensional Topological Crystalline Insulator and Topological Phase Transition in TlSe and TlS Monolayers. <i>Nano Letters</i> , 2015 , 15, 6071-5	11.5	32
34	Topological crystalline insulator and quantum anomalous Hall states in IV-VI-based monolayers and their quantum wells. <i>Physical Review B</i> , 2015 , 91,	3.3	28
33	Two-dimensional topological nodal line semimetal in layered X ₂ Y (X=Ca, Sr, and Ba; Y=As, Sb, and Bi). <i>Physical Review B</i> , 2017 , 95,	3.3	28
32	Robust dual topological character with spin-valley polarization in a monolayer of the Dirac semimetal Na ₃ Bi. <i>Physical Review B</i> , 2017 , 95,	3.3	27

31	Mixed Weyl semimetals and low-dissipation magnetization control in insulators by spin-orbit torques. <i>Nature Communications</i> , 2017 , 8, 1479	17.4	25
30	Engineering a topological phase transition in InSe via strain. <i>New Journal of Physics</i> , 2013 , 15, 073008	2.9	23
29	Antiferromagnetic Topological Insulator with Nonsymmorphic Protection in Two Dimensions. <i>Physical Review Letters</i> , 2020 , 124, 066401	7.4	21
28	Controlling the Electronic Structures and Properties of in-Plane Transition-Metal Dichalcogenides Quantum Wells. <i>Scientific Reports</i> , 2015 , 5, 17578	4.9	21
27	Quantum anomalous Hall effect in doped ternary chalcogenide topological insulators TlBiTe_2 and TlBiSe_2 . <i>Applied Physics Letters</i> , 2011 , 99, 142502	3.4	21
26	Realization of tunable Dirac cone and insulating bulk states in topological insulators $\text{Bi}(1-x)\text{Sb}(x)(\text{Te})_3$. <i>Scientific Reports</i> , 2012 , 2, 976	4.9	20
25	Electronic and magnetic properties of the two-dimensional C ₄ H-type polymer with strain effects, intrinsic defects and foreign atom substitutions. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 3651-8	3.6	20
24	Mixed topological semimetals driven by orbital complexity in two-dimensional ferromagnets. <i>Nature Communications</i> , 2019 , 10, 3179	17.4	17
23	Material realization of topological crystalline insulators: Role of strain and spin-orbit coupling. <i>Materials Express</i> , 2013 , 3, 159-165	1.3	10
22	Lateral topological crystalline insulator heterostructure. <i>2D Materials</i> , 2017 , 4, 025038	5.9	9
21	Quantum anomalous Hall effect and gate-controllable topological phase transition in layered EuCd_2As_2 . <i>Physical Review B</i> , 2019 , 99,	3.3	8
20	Ferromagnetism and manipulation of topological surface states in Bi_2Se_3 family by 2p light elements. <i>Applied Physics Letters</i> , 2012 , 100, 252410	3.4	8
19	Separable states and geometric phases of an interacting two-spin system. <i>Physical Review A</i> , 2010 , 81,	2.6	8
18	Hybrid quantum anomalous Hall effect at graphene-oxide interfaces. <i>Physical Review B</i> , 2018 , 98,	3.3	7
17	MoTe_2 is a good match for Ge by preserving quantum spin Hall phase. <i>Nano Research</i> , 2017 , 10, 2823-2832	3.2	6
16	Two-dimensional ferroelastic topological insulator with tunable topological edge states in single-layer ZrAsX ($X = \text{Br}$ and Cl). <i>Journal of Materials Chemistry C</i> , 2019 , 7, 9743-9747	7.1	6
15	Ag-mediated charge transfer from electron-doped SrTiO_3 to CO and NO: A first-principles study. <i>Surface Science</i> , 2011 , 605, 1331-1335	1.8	6
14	Large gap Quantum Spin Hall Insulators of Hexagonal III-Bi monolayer. <i>Scientific Reports</i> , 2016 , 6, 34861	4.9	5

13	Two-dimensional topological crystalline insulator phase in quantum wells of trivial insulators. <i>2D Materials</i> , 2016 , 3, 025037	5.9	5
12	Topological phase transition and unexpected mass acquisition of Dirac fermion in TlBi(S1Se _x) ₂ . <i>Applied Physics Letters</i> , 2012 , 101, 182101	3.4	5
11	Electronic and magnetic properties of C-doped Mg ₃ N ₂ : A density functional theory study. <i>Solid State Communications</i> , 2010 , 150, 2223-2226	1.6	5
10	Antiferromagnetic topological insulator in stable exfoliated two-dimensional materials. <i>Physical Review B</i> , 2020 , 102,	3.3	5
9	A magnetic topological insulator in two-dimensional EuCdBi: giant gap with robust topology against magnetic transitions. <i>Materials Horizons</i> , 2021 , 8, 956-961	14.4	5
8	Tunable quantum order in bilayer Bi ₂ Te ₃ : Stacking dependent quantum spin Hall states. <i>Applied Physics Letters</i> , 2018 , 112, 243103	3.4	4
7	Ferromagnetic dual topological insulator in a two-dimensional honeycomb lattice. <i>Materials Horizons</i> , 2020 , 7, 2431-2438	14.4	3
6	Tunable topological surface and realization of insulating massive Dirac fermion state in Bi ₂ Te ₂ Se with co-substitution. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 114-120	7.1	3
5	Realization of insulating massive Dirac fermion state in Bi ₂ Te ₃ by co-substitution of magnetic and non-magnetic elements. <i>Applied Physics Letters</i> , 2013 , 102, 092402	3.4	3
4	Enhanced stability and stacking dependent magnetic/electronic properties of 2D monolayer FeTiO ₃ on a Ti ₂ CO ₂ substrate. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 15308-15314	7.1	2
3	Quantum spin Hall effect in antiferromagnetic topological heterobilayers. <i>Physical Review B</i> , 2021 , 103,	3.3	2
2	Dual topological insulator and insulator-semimetal transition in mirror-symmetric honeycomb materials. <i>Physical Review B</i> , 2019 , 100,	3.3	1
1	Engineering antiferromagnetic topological insulator by strain in two-dimensional rare-earth pnictide EuCd ₂ Sb ₂ . <i>Applied Physics Letters</i> , 2021 , 119, 173105	3.4	1