Chengwang Niu

List of Publications by Year in Descending Order

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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

h-index

48
g-index

57
ext. papers

2,717
ext. papers

2,717
ext. citations

21
48
g-index

L-index

#	Paper	IF	Citations
48	Engineering antiferromagnetic topological insulator by strain in two-dimensional rare-earth pnictide EuCd2Sb2. <i>Applied Physics Letters</i> , 2021 , 119, 173105	3.4	1
47	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
46	Quantum spin Hall effect in antiferromagnetic topological heterobilayers. <i>Physical Review B</i> , 2021 , 103,	3.3	2
45	Ferromagnetic dual topological insulator in a two-dimensional honeycomb lattice. <i>Materials Horizons</i> , 2020 , 7, 2431-2438	14.4	3
44	Antiferromagnetic Topological Insulator with Nonsymmorphic Protection in Two Dimensions. <i>Physical Review Letters</i> , 2020 , 124, 066401	7.4	21
43	Antiferromagnetic topological insulator in stable exfoliated two-dimensional materials. <i>Physical Review B</i> , 2020 , 102,	3.3	5
42	Quantum anomalous Hall effect and gate-controllable topological phase transition in layered EuCd2As2. <i>Physical Review B</i> , 2019 , 99,	3.3	8
41	Mixed topological semimetals driven by orbital complexity in two-dimensional ferromagnets. <i>Nature Communications</i> , 2019 , 10, 3179	17.4	17
40	Two-dimensional ferroelastic topological insulator with tunable topological edge states in single-layer ZrAsX (X = Br and Cl). <i>Journal of Materials Chemistry C</i> , 2019 , 7, 9743-9747	7.1	6
39	Enhanced stability and stacking dependent magnetic/electronic properties of 2D monolayer FeTiO3 on a Ti2CO2 substrate. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 15308-15314	7.1	2
38	Dual topological insulator and insulator-semimetal transition in mirror-symmetric honeycomb materials. <i>Physical Review B</i> , 2019 , 100,	3.3	1
37	Tunable quantum order in bilayer Bi2Te3: Stacking dependent quantum spin Hall states. <i>Applied Physics Letters</i> , 2018 , 112, 243103	3.4	4
36	Hybrid quantum anomalous Hall effect at graphene-oxide interfaces. <i>Physical Review B</i> , 2018 , 98,	3.3	7
35	Lateral topological crystalline insulator heterostructure. 2D Materials, 2017, 4, 025038	5.9	9
34	Robust dual topological character with spin-valley polarization in a monolayer of the Dirac semimetal Na3Bi. <i>Physical Review B</i> , 2017 , 95,	3.3	27
33	BiTe is a dual topological insulator. <i>Nature Communications</i> , 2017 , 8, 14976	17.4	46
32	MoTe2 is a good match for GeI by preserving quantum spin Hall phase. <i>Nano Research</i> , 2017 , 10, 2823-7	2832	6

(2012-2017)

	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	Two-dimensional topological nodal line semimetal in layered X2Y (X=Ca, Sr, and Ba; Y=As, Sb, and Bi). <i>Physical Review B</i> , 2017 , 95,	3.3	28	
	29	Large gap Quantum Spin Hall Insulators of Hexagonal III-Bi monolayer. <i>Scientific Reports</i> , 2016 , 6, 34861	4.9	5	
	28	Two-dimensional topological crystalline insulator phase in quantum wells of trivial insulators. <i>2D Materials</i> , 2016 , 3, 025037	5.9	5	
,	27	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	
	26	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	
	25	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	
	24	Two-dimensional inversion-asymmetric topological insulators in functionalized III-Bi bilayers. <i>Physical Review B</i> , 2015 , 91,	3.3	51	
	23	Controlling the Electronic Structures and Properties of in-Plane Transition-Metal Dichalcogenides Quantum Wells. <i>Scientific Reports</i> , 2015 , 5, 17578	4.9	21	
	22	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	
	21	Tunable topological surface and realization of insulating massive Dirac fermion state in Bi2Te2Se with co-substitution. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 114-120	7.1	3	
	20	Realization of insulating massive Dirac fermion state in Bi2Te3 by co-substitution of magnetic and non-magnetic elements. <i>Applied Physics Letters</i> , 2013 , 102, 092402	3.4	3	
	19	Engineering a topological phase transition in EnSe via strain. New Journal of Physics, 2013, 15, 073008	2.9	23	
	18	Material realization of topological crystalline insulators: Role of strain and spin-orbit coupling. <i>Materials Express</i> , 2013 , 3, 159-165	1.3	10	
•	17	Realization of tunable Dirac cone and insulating bulk states in topological insulators (Bi(1-x)Sb(x))(2)Te(3). <i>Scientific Reports</i> , 2012 , 2, 976	4.9	20	
	16	Electronic and magnetic properties of the two-dimensional C4H-type polymer with strain effects, intrinsic defects and foreign atom substitutions. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 3651-8	3.6	20	
	15	Ferromagnetism and manipulation of topological surface states in Bi2Se3 family by 2p light elements. <i>Applied Physics Letters</i> , 2012 , 100, 252410	3.4	8	
	14	. Journal of Physical Chemistry C, 2012 , 116, 12977-12981	3.8	47	

13	Evidence of the existence of magnetism in pristine VXImonolayers (X = S, Se) and their strain-induced tunable magnetic properties. <i>ACS Nano</i> , 2012 , 6, 1695-701	16.7	590
12	Halogenated two-dimensional germanium: candidate materials for being of Quantum Spin Hall state. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12587		74
11	Topological phase transition and unexpected mass acquisition of Dirac fermion in TlBi(S1⊠Sex)2. <i>Applied Physics Letters</i> , 2012 , 101, 182101	3.4	5
10	Graphene adhesion on MoSImonolayer: an ab initio study. <i>Nanoscale</i> , 2011 , 3, 3883-7	7.7	315
9	First-Principles Study of the [email[protected]2 Heterobilayers. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 20237-20241	3.8	112
8	Strain-induced magnetic transitions in half-fluorinated single layers of BN, GaN and graphene. <i>Nanoscale</i> , 2011 , 3, 2301-6	7.7	107
7	Quantum anomalous Hall effect in doped ternary chalcogenide topological insulators TlBiTe2 and TlBiSe2. <i>Applied Physics Letters</i> , 2011 , 99, 142502	3.4	21
6	Mn induced ferromagnetism and modulated topological surface states in Bi2Te3. <i>Applied Physics Letters</i> , 2011 , 98, 252502	3.4	66
5	Electronic and magnetic properties of perfect, vacancy-doped, and nonmetal adsorbed MoSe2, MoTe2 and WS2 monolayers. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 15546-53	3.6	349
4	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
3	Ag-mediated charge transfer from electron-doped SrTiO3 to CO and NO: A first-principles study. <i>Surface Science</i> , 2011 , 605, 1331-1335	1.8	6
2	Separable states and geometric phases of an interacting two-spin system. <i>Physical Review A</i> , 2010 , 81,	2.6	8
1	Electronic and magnetic properties of C-doped Mg3N2: A density functional theory study. <i>Solid State Communications</i> , 2010 , 150, 2223-2226	1.6	5