

# Quantum anomalous Hall effect and related topological

Advances in Physics

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Large-gap two-dimensional topological insulator in oxygen functionalized MXene. Physical Review B, 2015, 92, .	1.1	229
2	Topological magnetic phase in $\text{LaMnO}_3$ bilayer. Physical Review B, 2015, 92, .		
3	Two-dimensional oxide topological insulator with iron-pnictide superconductor $\text{LiFeAs}$ structure. Physical Review B, 2015, 92, .	1.1	150
4	General response formula and application to topological insulator in quantum open system. Physical Review E, 2015, 92, 052122.	0.8	22
5	Observation of Fermi-Arc Spin Texture in TaAs. Physical Review Letters, 2015, 115, 217601.	2.9	115
6	Spin Hall conductivity in three-dimensional topological insulator/normal insulator heterostructures. JETP Letters, 2015, 102, 754-759.	0.4	7
7	Anomalous Hall and spin Hall conductivities in three-dimensional ferromagnetic topological insulator/normal insulator heterostructures. Europhysics Letters, 2016, 114, 37003.	0.7	8
8	Tuning ferromagnetic a high Chern number topological phase. Physical Review B, 2016, 94, .		
9	Relativistic $\mathbf{k} \cdot \mathbf{p}$ Hamiltonians for centrosymmetric topological insulators from $ab$ initio wave functions. Physical Review B, 2016, 94, .	1.1	34
10	Two-dimensional topological nanomaterials and related Hall effects. , 2016, , .		0
11	Quantum spin Hall phase in 2D trigonal lattice. Nature Communications, 2016, 7, 12746.	5.8	43
12	Quantum anomalous Hall effect in stanene on a nonmagnetic substrate. Physical Review B, 2016, 94, .	1.1	31
13	Prospect of quantum anomalous Hall and quantum spin Hall effect in doped kagome lattice Mott insulators. Scientific Reports, 2016, 6, 25988.	1.6	28
14	Quantum anomalous Hall effect in time-reversal-symmetry breaking topological insulators. Journal of Physics Condensed Matter, 2016, 28, 123002.	0.7	83
15	Topological phases in two-dimensional materials: a review. Reports on Progress in Physics, 2016, 79, 066501.	8.1	385
16	High thermoelectric performance of Weyl semimetal TaAs. Nano Energy, 2016, 30, 225-234.	8.2	47
17	Quantum Hall edge states in topological insulator nanoribbons. Physical Review B, 2016, 94, .	1.1	16
18	Topological insulators in the ordered double transition metals $\text{M}_2\text{C}$ MXenes		

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19	Quantum anomalous Hall effect in magnetically modulated topological insulator/normal insulator heterostructures. JETP Letters, 2016, 104, 453-459.	0.4	16
20	Coexistence of Weyl fermion and massless triply degenerate nodal points. Physical Review B, 2016, 94, .	1.1	169
21	Wigner transformation, momentum space topology, and anomalous transport. Annals of Physics, 2016, 373, 298-324.	1.0	40
22	Quantum anomalous Hall effect in atomic crystal layers from in-plane magnetization. Physical Review B, 2016, 94, .	1.1	40
23	Anomalous Hall effect on the surface of topological Kondo insulators. Physical Review B, 2016, 94, .	1.1	11
24	Impurity states in the magnetic topological insulator $\text{Bi}_2\text{Te}_3$ . Physical Review B, 2016, 94, .	1.1	35
25	Observation of Weyl nodes and Fermi arcs in tantalum phosphide. Nature Communications, 2016, 7, 11006.	5.8	264
26	Two Dimensional Antiferromagnetic Chern Insulator: $\text{NiRuCl}_6$ . Nano Letters, 2016, 16, 6325-6330.	4.5	45
27	Tunable spin-orbit coupling and symmetry-protected edge states in graphene/WS <sub>2</sub> . 2D Materials, 2016, 3, 031012.	2.0	135
28	Anderson Localization from the Berry-Curvature Interchange in Quantum Anomalous Hall Systems. Physical Review Letters, 2016, 117, 056802.	2.9	29
29	Topological semimetals with triply degenerate nodal points in $\text{TaN}$ -phase tantalum nitride. Physical Review B, 2016, 93, .	1.1	242
30	Predicted Quantum Topological Hall Effect and Noncoplanar Antiferromagnetism in $\text{TaN}$ . Physical Review Letters, 2016, 116, 056601.	2.9	57
31	Evidence for Topological Edge States in a Large Energy Gap near the Step Edges on the Surface of $\text{ZrTe}_5$ . Physical Review X, 2016, 6, .	2.8	105
32	Topological end states in two-orbital double-exchange model for colossal magnetoresistive manganites. Physical Review B, 2016, 93, .	1.1	2
33	Emergence of topological bands on the surface of $\text{ZrSnTe}$ crystal. Physical Review B, 2016, 93, .	1.1	73
34	Nonlinear electronic polarization and optical response in borophosphate $\text{BPO}_4$ . Physical Review B, 2016, 93, .	1.1	2
35	Disorder effects in topological states: Brief review of the recent developments. Chinese Physics B, 2016, 25, 117311.	0.7	28
36	Prediction of Quantum Anomalous Hall Insulator in half-fluorinated $\text{GaBi}$ Honeycomb. Scientific Reports, 2016, 6, 31317.	1.6	12

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37	Electron and magnetic properties of three-dimensional magnetic topological insulators Bi <sub>2</sub> Se <sub>3</sub> :Cr and Bi <sub>2</sub> Se <sub>3</sub> :Fe. Europhysics Letters, 2016, 115, 67004.	0.7	3
38	Topological node-line semimetal in compressed black phosphorus. Physical Review B, 2016, 94, .	1.1	107
39	Topological semimetals predicted from first-principles calculations. Journal of Physics Condensed Matter, 2016, 28, 303001.	0.7	286
40	Quantum Anomalous Hall Effect in a Perovskite and Inverse-Perovskite Sandwich Structure. Journal of the Physical Society of Japan, 2016, 85, 014706.	0.7	5
41	Near-room-temperature Chern insulator and Dirac spin-gapless semiconductor: nickel chloride monolayer. Nanoscale, 2017, 9, 2246-2252.	2.8	120
42	Control of topological phase transitions in Dirac semimetal films by exchange fields. Chinese Physics B, 2017, 26, 017102.	0.7	0
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44	Topological nodal line semimetals in the CaP <sub>3</sub> family of materials. Physical Review B, 2017, 95, .	1.1	191
45	Towards a Better Understanding of the Anomalous Hall Effect. Journal of the Physical Society of Japan, 2017, 86, 011006.	0.7	38
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47	Electronic properties and applications of MXenes: a theoretical review. Journal of Materials Chemistry C, 2017, 5, 2488-2503.	2.7	759
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49	Intrinsic ferromagnetism and quantum anomalous Hall effect in a CoBr <sub>2</sub> monolayer. Physical Chemistry Chemical Physics, 2017, 19, 13432-13437.	1.3	34
50	Electron-phonon coupling in topological surface states: The role of polar optical modes. Scientific Reports, 2017, 7, 1095.	1.6	43
51	Realization of quantum anomalous Hall effect in graphene from codoping-induced stable atomic adsorption. Physical Review B, 2017, 95, .	1.3	13
52	Anomalous Magneto-Transport Behavior in Transition Metal Pentatelluride HfTe <sub>5</sub> . Chinese Physics Letters, 2017, 34, 037102.	1.3	18
53	Quantum anomalous Hall effect in ferromagnetic transition metal halides. Physical Review B, 2017, 95, .	1.1	110
54	Emerging topological states in quasi-two-dimensional materials. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2017, 7, e1296.	6.2	28

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55	Chemically induced large-gap quantum anomalous Hall insulator states in III-Bi honeycombs. Npj Computational Materials, 2017, 3, .	3.5	15
56	Quantum anomalous Hall insulator phase in asymmetrically functionalized germanene. Physical Review B, 2017, 96, .	1.1	18
57	Global band topology of simple and double Dirac-point semimetals. Physical Review B, 2017, 95, .	1.1	48
58	Room temperature quantum spin Hall insulator: Functionalized stanene on layered PbI <sub>2</sub> substrate. Applied Physics Letters, 2017, 111, .	1.5	12
59	Magnetic two-dimensional organic topological insulator: Au-1,3,5-triethynylbenzene framework. Journal of Chemical Physics, 2017, 147, 104704.	1.2	9
60	Gate-tunable current partition in graphene-based topological zero lines. Physical Review B, 2017, 95, .	1.1	21
61	Quantum anomalous Hall phase and half-metallic phase in ferromagnetic (111) bilayers of 4d and 5d transition metal perovskites. Physical Review B, 2017, 95, .	1.1	13
62	Second-harmonic generation in noncentrosymmetric phosphates. Physical Review B, 2017, 96, .	1.1	37
63	Valley-Polarized Quantum Anomalous Hall Effect in Ferrimagnetic Honeycomb Lattices. Physical Review Letters, 2017, 119, 046403.	2.9	64
64	Realizing Haldane model in Fe-based honeycomb ferromagnetic insulators. Npj Quantum Materials, 2017, 2, .	1.8	32
65	Analytical theory and possible detection of the ac quantum spin Hall effect. Scientific Reports, 2017, 7, 5078.	1.6	1
66	Intrinsic spin Hall conductivity in three-dimensional topological insulator/normal insulator heterostructures. Physical Review B, 2017, 96, .	1.1	9
67	Robustness of topological states with respect to lattice instability in the nonsymmorphic topological insulator KHgSb. Physical Review B, 2017, 96, .	1.1	3
68	Topological phase transitions with SO(4) symmetry in (2+1)D interacting Dirac fermions. Physical Review B, 2017, 95, .	1.1	18
69	In-plane magnetization-induced quantum anomalous Hall effect in atomic crystals of group-V elements. Physical Review B, 2017, 96, .	1.1	25
70	Instability and topological robustness of Weyl semimetals against Coulomb interaction. Physical Review B, 2017, 96, .	1.1	8
71	Interaction-driven quantum anomalous Hall effect in halogenated hematite nanosheets. Physical Review B, 2017, 96, .	1.1	13
72	Tunable edge states and their robustness towards disorder. Physical Review B, 2017, 95, .	1.1	29

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74	Topological nodal line semimetals predicted from first-principles calculations. Frontiers of Physics, 2017, 12, 1.	2.4	133
75	Hall conductance for open two-band system beyond rotating-wave approximation. Scientific Reports, 2017, 7, 16243.	1.6	2
76	Symmetry-guaranteed nodal-line semimetals in an fcc lattice. Physical Review B, 2017, 96, .	1.1	27
77	Topological gapless phase in Kitaev model on square lattice. Scientific Reports, 2017, 7, 17179.	1.6	10
78	Weak Localization and Antilocalization in Topological Materials with Impurity Spin-Orbit Interactions. Materials, 2017, 10, 807.	1.3	24
79	Structural and electronic properties of hydrogenated GaBi and InBi honeycomb monolayers with point defects. RSC Advances, 2018, 8, 7022-7028.	1.7	9
80	Towards the manipulation of topological states of matter: a perspective from electron transport. Science Bulletin, 2018, 63, 580-594.	4.3	20
81	Magnetic proximity effect of a topological insulator and a ferromagnet in thin-film bilayers of $\text{Bi}_2\text{Te}_3$ and $\text{Bi}_2\text{Se}_3$ . Physical Review B, 2018, 97, .	1.1	12
82	Coexistent three-component and two-component Weyl phonons in TiS, ZrSe, and HfTe. Physical Review B, 2018, 97, .	1.1	75
83	Master equation for open two-band systems and its applications to Hall conductance. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 065302.	0.7	1
84	Formation of a large gap quantum spin Hall phase in a 2D trigonal lattice with three p-orbitals. Nanoscale, 2018, 10, 5496-5502.	2.8	13
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92	Recent Progress in the Study of Topological Semimetals. Journal of the Physical Society of Japan, 2018, 87, 041001.	0.7	118
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95	Interface induced quantized spin Hall response in three-dimensional topological insulator/normal insulator heterostructures. Journal of Magnetism and Magnetic Materials, 2018, 459, 231-235.	1.0	1
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104	Invariance and Quantization of Charges and Currents. , 0, , 5-37.		0
105	Review of Electronic Structure Theory. , 0, , 38-74.		0
106	Berry Phases and Curvatures. , 0, , 75-140.		1
107	Electric Polarization. , 0, , 141-200.		1
108	Topological Insulators and Semimetals. , 0, , 201-275.		0
109	Orbital Magnetization and Axion Coupling. , 0, , 276-315.		0
116	Topological LC-circuits based on microstrips and observation of electromagnetic modes with orbital angular momentum. Nature Communications, 2018, 9, 4598.	5.8	76

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118	Large intrinsic anomalous Hall effect in half-metallic ferromagnet Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> with magnetic Weyl fermions. Nature Communications, 2018, 9, 3681.	5.8	446
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154	Formation of the Magnetic Order in Three-Dimensional Topological Insulators for the Quantum Anomalous Hall Effect (Scientific Summary). JETP Letters, 2019, 110, 771-784.	0.4	10
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159	Interaction-driven spin-orbit effects and Chern insulating phases in corundum-based 4d and 5d oxide honeycomb lattices. Journal of Physics and Chemistry of Solids, 2019, 128, 301-309.	1.9	2
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167	Quantum anomalous Hall insulator state in ferromagnetically ordered $\text{MnBi}_2\text{Te}_4$ heterostructures. Physical Review B, 2020, 102, .	1.1	25
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169	Quantum anomalous Hall insulator phases in Fe-doped GaBi honeycomb. Chinese Journal of Physics, 2020, 67, 246-252.	2.0	9
170	Intense <i>d</i> - <i>p</i> Hybridization Induced a Vast SHG Response Disparity between Tetrahedral Vanadates and Arsenates. Journal of Physical Chemistry C, 2020, 124, 24949-24956.	1.5	8

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172	Non-Collinear Orbital-induced Planar Quantum Anomalous Hall Effect. <i>Nano Letters</i> , 2020, 20, 7606-7612.	4.5	7
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174	Quantum Anomalous Hall Effect in Magnetic Doped Topological Insulators and Ferromagnetic Spinâ€œGapless Semiconductorsâ€œA Perspective Review. <i>Small</i> , 2020, 16, e1904322.	5.2	33
175	Quenching of the relaxation pathway in the Weyl semimetal TaAs. <i>Physical Review B</i> , 2020, 102, .	1.1	4
176	Impact of magnetic dopants on magnetic and topological phases in magnetic topological insulators. <i>Physical Review B</i> , 2020, 102, .	1.1	4
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178	Electronic correlations in the van der Waals ferromagnet $\text{Fe}_3\text{X}_5$ revealed by its charge dynamics. <i>Physical Review B</i> , 2020, 102, .		
179	Layer construction of topological crystalline insulator LaSbTe. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	2.0	12
180	Spontaneous emission of a quantum emitter near a Chern insulator: Interplay of time-reversal symmetry breaking and Van Hove singularity. <i>Physical Review B</i> , 2020, 101, .	1.1	3
181	High-temperature quantum anomalous Hall insulator in two-dimensional Bi <sub>2</sub> ON. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	4
182	Emerging chiral edge states from the confinement of a magnetic Weyl semimetal in $\text{Co}_3\text{S}_2$ . <i>Physical Review B</i> , 2020, 101, .	1.1	48
183	Acoustic spin-Chern insulator induced by synthetic spinâ€œorbit coupling with spin conservation breaking. <i>Nature Communications</i> , 2020, 11, 3227.	5.8	52
184	Ferromagnetic dual topological insulator in a two-dimensional honeycomb lattice. <i>Materials Horizons</i> , 2020, 7, 2431-2438.	6.4	16
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191	BaHgSn: A Dirac semimetal with surface hourglass fermions. <i>Physical Review B</i> , 2020, 101, .	1.1	6
192	Spin excitations and spin wave gap in the ferromagnetic Weyl semimetal $\text{Co}_3\text{Sn}_2\text{S}_2$ . <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	35
193	Spin waves in magnetic Weyl semimetals. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	3
194	Chern insulating phases and thermoelectric properties of $\text{EuO}/\text{MgO}(001)$ superlattices. <i>Physical Review B</i> , 2021, 103, .	1.1	4
195	A magnetic topological insulator in two-dimensional $\text{EuCd}_2\text{Bi}_2$ : giant gap with robust topology against magnetic transitions. <i>Materials Horizons</i> , 2021, 8, 956-961.	6.4	18
196	Interface-induced sign reversal of the anomalous Hall effect in magnetic topological insulator heterostructures. <i>Nature Communications</i> , 2021, 12, 79.	5.8	31
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198	Berry curvature-induced emerging magnetic response in two-dimensional materials. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2021, 70, 127303.	0.2	2
199	Cobalt-based magnetic Weyl semimetals with high-thermodynamic stabilities. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	13
200	Chiral interface states and related quantized transport in disordered Chern insulators. <i>Physical Review B</i> , 2021, 103, .	1.1	12
201	Anisotropic magnetoelastic response in the magnetic Weyl semimetal $\text{Co}_3\text{Sn}_2\text{S}_2$ . <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	14
202	Tunable double Weyl phonons driven by chiral point group symmetry. <i>Physical Review B</i> , 2021, 103, .	1.1	22
203	First-principles calculations for topological quantum materials. <i>Nature Reviews Physics</i> , 2021, 3, 283-297.	11.9	48
204	Intertwined Topological and Magnetic Orders in Atomically Thin Chern Insulator $\text{MnBi}_2\text{Te}_4$ . <i>Nano Letters</i> , 2021, 21, 2544-2550.	4.5	92
205	Strain engineering the topological type-II Dirac semimetal $\text{NiTe}_2$ . <i>Physical Review B</i> , 2021, 103, .	1.1	23
206	Transport induced dimer state from topological corner states. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	7

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208	Quantum mold casting for topological insulating and edge states. <i>Physical Review B</i> , 2021, 103, .	1.1	7
210	Time-reversal symmetry breaking in a square lattice. <i>Journal of Physics Communications</i> , 2021, 5, 045001.	0.5	1
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