

Charles Kane

List of Publications by Year in descending order

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48
papers

43,480
citations

117571

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223716

46
g-index

48
all docs

48
docs citations

48
times ranked

18423
citing authors

#	ARTICLE	IF	CITATIONS
1	Toric-code insulator enriched by translation symmetry. Physical Review B, 2022, 105, .	1.1	7
2	Quantized Nonlinear Conductance in Ballistic Metals. Physical Review Letters, 2022, 128, 076801.	2.9	16
3	Imaging the Néel vector switching in the monolayer antiferromagnet MnPS ₃ with strain-controlled Ising order. Nature Nanotechnology, 2021, 16, 782-787.	15.6	70
4	Nondiagonal anisotropic quantum Hall states. Physical Review B, 2021, 103, .	1.1	13
5	Direct Imaging of Antiferromagnetic Domains and Anomalous Layer-Dependent Mirror Symmetry Breaking in Atomically Thin MnPS_3 . Physical Review Letters, 2021, 127, 187201.	2.9	20
6	Coupled wire model of orbifold quantum Hall states. Physical Review B, 2020, 101, .	2.1	6
7	Equivalent critical behavior of a helical point contact and a two-channel Luttinger liquid topological superconductor junction. Physical Review Research, 2020, 2, .	1.3	12
8	Spatially dispersive circular photogalvanic effect in a Weyl semimetal. Nature Materials, 2019, 18, 955-962.	13.3	99
9	Higher angular momentum band inversions in two dimensions. Physical Review B, 2018, 98, .	1.1	6
10	Dirac-Weyl Semimetal: Coexistence of Dirac and Weyl Fermions in Polar Hexagonal Crystals. Physical Review Letters, 2018, 121, 106404.	2.9	50
11	Wallpaper fermions and the nonsymmorphic Dirac insulator. Science, 2018, 361, 246-251.	6.0	125
12	Pairing in Luttinger Liquids and Quantum Hall States. Physical Review X, 2017, 7, .	2.8	50
13	Topological Classification of Crystalline Insulators through Band Structure Combinatorics. Physical Review X, 2017, 7, .	2.8	437
14	Spin-orbit semimetals in the layer groups. Physical Review B, 2016, 94, .	1.1	99
15	Double Dirac Semimetals in Three Dimensions. Physical Review Letters, 2016, 116, 186402.	2.9	273
16	Dirac Line Nodes in Inversion-Symmetric Crystals. Physical Review Letters, 2015, 115, 036806.	2.9	674
17	Layered Topological Crystalline Insulators. Physical Review Letters, 2015, 115, 086802.	2.9	28
18	Critical behavior of four-terminal conductance of bilayer graphene domain walls. Physical Review B, 2015, 92, .	1.1	5

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19	Symmetry-respecting topologically ordered surface phase of three-dimensional electron topological insulators. Physical Review B, 2015, 92, .	1.1	111
20	Dirac Semimetals in Two Dimensions. Physical Review Letters, 2015, 115, 126803.	2.9	518
21	Topological boundary modes in isostatic lattices. Nature Physics, 2014, 10, 39-45.	6.5	595
22	Bulk Dirac Points in Distorted Spinels. Physical Review Letters, 2014, 112, 036403.	2.9	150
23	Anomalous topological pumps and fractional Josephson effects. Physical Review B, 2014, 90, .	1.1	51
24	Bosonic topological insulator in three dimensions and the statistical Witten effect. Physical Review B, 2013, 88, .	1.1	129
25	Spin texture on the Fermi surface of tensile-strained HgTe. Physical Review B, 2013, 87, .	1.1	48
26	Surface State Magnetization and Chiral Edge States on Topological Insulators. Physical Review Letters, 2013, 110, 046404.	2.9	199
27	Topology, Delocalization via Average Symmetry and the Symplectic Anderson Transition. Physical Review Letters, 2012, 109, 246605.	2.9	132
28	Dirac Semimetal in Three Dimensions. Physical Review Letters, 2012, 108, 140405.	2.9	1,388
29	<i>Colloquium</i>: Topological insulators. Reviews of Modern Physics, 2010, 82, 3045-3067.	16.4	15,620
30	Critical behavior of a point contact in a quantum spin Hall insulator. Physical Review B, 2009, 79, .	1.1	122
31	TOPOLOGICAL INSULATORS AND THE QUANTUM SPIN HALL EFFECT. , 2009, , .		0
32	Superconducting Proximity Effect and Majorana Fermions at the Surface of a Topological Insulator. Topologica, 2009, 2, 013.	0.3	1
33	An insulator with a twist. Nature Physics, 2008, 4, 348-349.	6.5	57
34	Surface states and topological invariants in three-dimensional topological insulators: Application to \mathbb{Z}_2 topological insulators. Physical Review B, 2008, 78, .	1.1	632
35	GRAPHENE AND THE QUANTUM SPIN HALL EFFECT. International Journal of Modern Physics B, 2007, 21, 1155-1164.	1.0	9
36	Topological Insulators in Three Dimensions. Physical Review Letters, 2007, 98, 106803.	2.9	3,769

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37	Topological insulators with inversion symmetry. <i>Physical Review B</i> , 2007, 76, .	1.1	3,388
38	Time reversal polarization and aZadiabatic spin pump. <i>Physical Review B</i> , 2006, 74, .	1.1	716
39	Quantum Spin Hall Effect in Graphene. <i>Physical Review Letters</i> , 2005, 95, 226801.	2.9	6,191
40	Z2Topological Order and the Quantum Spin Hall Effect. <i>Physical Review Letters</i> , 2005, 95, 146802.	2.9	5,045
41	Electron Interactions and Scaling Relations for Optical Excitations in Carbon Nanotubes. <i>Physical Review Letters</i> , 2004, 93, 197402.	2.9	165
42	Electron Interactions and Excitons in Carbon Nanotube Fluorescence Spectroscopy. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	0
43	Fractional Quantum Hall Effect in an Array of Quantum Wires. <i>Physical Review Letters</i> , 2002, 88, 036401.	2.9	216
44	Quantum Brownian motion in a periodic potential and the multichannel Kondo problem. <i>Physical Review B</i> , 1998, 57, R5579-R5582.	1.1	54
45	A shot in the arm for fractional charge. <i>Nature</i> , 1997, 389, 119-120.	13.7	4
46	Resonant tunneling between quantum Hall edge states. <i>Physical Review Letters</i> , 1993, 71, 4381-4384.	2.9	186
47	Transmission through barriers and resonant tunneling in an interacting one-dimensional electron gas. <i>Physical Review B</i> , 1992, 46, 15233-15262.	1.1	988
48	Transport in a one-channel Luttinger liquid. <i>Physical Review Letters</i> , 1992, 68, 1220-1223.	2.9	1,006