

Charles Kane

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6965469/publications.pdf>

Version: 2024-02-01

48
papers

43,480
citations

117571

34
h-index

223716

46
g-index

48
all docs

48
docs citations

48
times ranked

18423
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Colloquium</i> : Topological insulators. <i>Reviews of Modern Physics</i> , 2010, 82, 3045-3067.	16.4	15,620
2	Quantum Spin Hall Effect in Graphene. <i>Physical Review Letters</i> , 2005, 95, 226801.	2.9	6,191
3	Topological Order and the Quantum Spin Hall Effect. <i>Physical Review Letters</i> , 2005, 95, 146802.	2.9	5,045
4	Topological Insulators in Three Dimensions. <i>Physical Review Letters</i> , 2007, 98, 106803.	2.9	3,769
5	Topological insulators with inversion symmetry. <i>Physical Review B</i> , 2007, 76, .	1.1	3,388
6	Dirac Semimetal in Three Dimensions. <i>Physical Review Letters</i> , 2012, 108, 140405.	2.9	1,388
7	Transport in a one-channel Luttinger liquid. <i>Physical Review Letters</i> , 1992, 68, 1220-1223.	2.9	1,006
8	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
9	Time reversal polarization and a topological spin pump. <i>Physical Review B</i> , 2006, 74, .	1.1	716
10	Dirac Line Nodes in Inversion-Symmetric Crystals. <i>Physical Review Letters</i> , 2015, 115, 036806.	2.9	674
11	Surface states and topological invariants in three-dimensional topological insulators: Application to \mathbb{Z}_2 topological insulators. <i>Physical Review B</i> , 2008, 78, .	1.1	632
12	Topological boundary modes in isostatic lattices. <i>Nature Physics</i> , 2014, 10, 39-45.	6.5	595
13	Dirac Semimetals in Two Dimensions. <i>Physical Review Letters</i> , 2015, 115, 126803.	2.9	518
14	Topological Classification of Crystalline Insulators through Band Structure Combinatorics. <i>Physical Review X</i> , 2017, 7, .	2.8	437
15	Double Dirac Semimetals in Three Dimensions. <i>Physical Review Letters</i> , 2016, 116, 186402.	2.9	273
16	Fractional Quantum Hall Effect in an Array of Quantum Wires. <i>Physical Review Letters</i> , 2002, 88, 036401.	2.9	216
17	Surface State Magnetization and Chiral Edge States on Topological Insulators. <i>Physical Review Letters</i> , 2013, 110, 046404.	2.9	199
18	Resonant tunneling between quantum Hall edge states. <i>Physical Review Letters</i> , 1993, 71, 4381-4384.	2.9	186

#	ARTICLE	IF	CITATIONS
19	Electron Interactions and Scaling Relations for Optical Excitations in Carbon Nanotubes. Physical Review Letters, 2004, 93, 197402.	2.9	165
20	Bulk Dirac Points in Distorted Spinels. Physical Review Letters, 2014, 112, 036403.	2.9	150
21	Topology, Delocalization via Average Symmetry and the Symplectic Anderson Transition. Physical Review Letters, 2012, 109, 246605.	2.9	132
22	Bosonic topological insulator in three dimensions and the statistical Witten effect. Physical Review B, 2013, 88, .	1.1	129
23	Wallpaper fermions and the nonsymmorphic Dirac insulator. Science, 2018, 361, 246-251.	6.0	125
24	Critical behavior of a point contact in a quantum spin Hall insulator. Physical Review B, 2009, 79, .	1.1	122
25	Symmetry-respecting topologically ordered surface phase of three-dimensional electron topological insulators. Physical Review B, 2015, 92, .	1.1	111
26	Spin-orbit semimetals in the layer groups. Physical Review B, 2016, 94, .	1.1	99
27	Spatially dispersive circular photogalvanic effect in a Weyl semimetal. Nature Materials, 2019, 18, 955-962.	13.3	99
28	Imaging the Néel vector switching in the monolayer antiferromagnet MnPSe ₃ with strain-controlled Ising order. Nature Nanotechnology, 2021, 16, 782-787.	15.6	70
29	An insulator with a twist. Nature Physics, 2008, 4, 348-349.	6.5	57
30	Quantum Brownian motion in a periodic potential and the multichannel Kondo problem. Physical Review B, 1998, 57, R5579-R5582.	1.1	54
31	Anomalous topological pumps and fractional Josephson effects. Physical Review B, 2014, 90, .	1.1	51
32	Pairing in Luttinger Liquids and Quantum Hall States. Physical Review X, 2017, 7, .	2.8	50
33	Dirac-Weyl Semimetal: Coexistence of Dirac and Weyl Fermions in Polar Hexagonal Crystals. Physical Review Letters, 2018, 121, 106404.	2.9	50
34	Spin texture on the Fermi surface of tensile-strained HgTe. Physical Review B, 2013, 87, .	1.1	48
35	Layered Topological Crystalline Insulators. Physical Review Letters, 2015, 115, 086802.	2.9	28
36	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

#	ARTICLE	IF	CITATIONS
37	Quantized Nonlinear Conductance in Ballistic Metals. Physical Review Letters, 2022, 128, 076801.	2.9	16
38	Nondiagonal anisotropic quantum Hall states. Physical Review B, 2021, 103, .	1.1	13
39	Equivalent critical behavior of a helical point contact and a two-channel Luttinger liquidâ€“topological superconductor junction. Physical Review Research, 2020, 2, .	1.3	12
40	GRAPHENE AND THE QUANTUM SPIN HALL EFFECT. International Journal of Modern Physics B, 2007, 21, 1155-1164.	1.0	9
41	Toric-code insulator enriched by translation symmetry. Physical Review B, 2022, 105, .	1.1	7
42	Higher angular momentum band inversions in two dimensions. Physical Review B, 2018, 98, .	1.1	6
43	Coupled wire model of Z_2 orbifold quantum Hall states. Physical Review B, 2020, 101, .		
44	Critical behavior of four-terminal conductance of bilayer graphene domain walls. Physical Review B, 2015, 92, .	1.1	5
45	A shot in the arm for fractional charge. Nature, 1997, 389, 119-120.	13.7	4
46	Superconducting Proximity Effect and Majorana Fermions at the Surface of a Topological Insulator. Topologica, 2009, 2, 013.	0.3	1
47	Electron Interactions and Excitons in Carbon Nanotube Fluorescence Spectroscopy. AIP Conference Proceedings, 2004, , .	0.3	0
48	TOPOLOGICAL INSULATORS AND THE QUANTUM SPIN HALL EFFECT. , 2009, , .		0