

Carmine Ortix

List of Publications by Year in descending order

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69
papers

2,140
citations

185998

28
h-index

233125

45
g-index

69
all docs

69
docs citations

69
times ranked

2454
citing authors

#	ARTICLE	IF	CITATIONS
1	Stacked topological insulator built from bismuth-based graphene sheet analogues. Nature Materials, 2013, 12, 422-425.	13.3	177
2	Universal Recovery of the Energy-Level Degeneracy of Bright Excitons in InGaAs Quantum Dots without a Structure Symmetry. Physical Review Letters, 2012, 109, 147401.	2.9	154
3	Higher-order topological insulators protected by inversion and rotoinversion symmetries. Physical Review B, 2018, 98, .	1.1	147
4	Competing Orders in FeAs Layers. Physical Review Letters, 2008, 101, 186402.	2.9	84
5	Graphene on incommensurate substrates: Trigonal warping and emerging Dirac cone replicas with halved group velocity. Physical Review B, 2012, 86, .	1.1	78
6	Berry Curvature Dipole in Strained Graphene: A Fermi Surface Warping Effect. Physical Review Letters, 2019, 123, 196403.	2.9	73
7	Proximity of iron pnictide superconductors to a quantum tricritical point. Nature Communications, 2011, 2, 398.	5.8	72
8	Energy-Tunable Sources of Entangled Photons: A Viable Concept for Solid-State-Based Quantum Relays. Physical Review Letters, 2015, 114, 150502.	2.9	62
9	Quantum mechanics of a spin-orbit coupled electron constrained to a space curve. Physical Review B, 2015, 91, .	1.1	58
10	Effect of curvature on the electronic structure and bound-state formation in rolled-up nanotubes. Physical Review B, 2010, 81, .	1.1	55
11	Kekulé textures, pseudospin-one Dirac cones, and quadratic band crossings in a graphene-hexagonal indium chalcogenide bilayer. Physical Review B, 2015, 91, .	1.1	55
12	Curvature-induced geometric potential in strain-driven nanostructures. Physical Review B, 2011, 84, .	1.1	51
13	Topological mirror insulators in one dimension. Physical Review B, 2016, 94, .	1.1	51
14	Fractional quantization of the topological charge pumping in a one-dimensional superlattice. Physical Review B, 2015, 91, .	1.1	50
15	Hall effects in artificially corrugated bilayer graphene without breaking time-reversal symmetry. Nature Electronics, 2021, 4, 116-125.	13.1	49
16	Edge States and Topological Insulating Phases Generated by Curving a Nanowire with Rashba Spin-Orbit Coupling. Physical Review Letters, 2015, 115, 256801.	2.9	48
17	Coulomb-Frustrated Phase Separation Phase Diagram in Systems with Short-Range Negative Compressibility. Physical Review Letters, 2008, 100, 246402.	2.9	42
18	Microscopic Origin of Large Negative Magnetoelectric Coupling in Sr_2IrO_7 . Physical Review Letters, 2012, 109, 107601.	2.9	42

#	ARTICLE	IF	CITATIONS
19	Topological origin of edge states in two-dimensional inversion-symmetric insulators and semimetals. 2D Materials, 2017, 4, 015023.	2.0	39
20	Inversion-symmetry protected chiral hinge states in stacks of doped quantum Hall layers. Physical Review B, 2018, 98, .	1.1	39
21	On the topological immunity of corner states in two-dimensional crystalline insulators. Npj Quantum Materials, 2020, 5, .	1.8	38
22	Designing electron spin textures and spin interferometers by shape deformations. Physical Review B, 2016, 94, .	1.1	36
23	Nonlinear Hall Effect with Time-Reversal Symmetry: Theory and Material Realizations. Advanced Quantum Technologies, 2021, 4, 2100056.	1.8	36
24	The bulk-corner correspondence of time-reversal symmetric insulators. Npj Quantum Materials, 2021, 6, .	1.8	35
25	Excess charges as a probe of one-dimensional topological crystalline insulating phases. Physical Review B, 2017, 96, .	1.1	34
26	Topological Edge States with Zero Hall Conductivity in a Dimerized Hofstadter Model. Physical Review Letters, 2015, 115, 216805.	2.9	33
27	Frustrated phase separation in two-dimensional charged systems. Physical Review B, 2006, 73, .	1.1	30
28	Generic Coexistence of Fermi Arcs and Dirac Cones on the Surface of Time-Reversal Invariant Weyl Semimetals. Physical Review Letters, 2017, 119, 076801.	2.9	30
29	Anomalous planar Hall effect in two-dimensional trigonal crystals. Physical Review Research, 2021, 3, .	1.3	29
30	Dislocation charges reveal two-dimensional topological crystalline invariants. Physical Review B, 2018, 97, .	1.1	28
31	Absence of anomalous couplings in the quantum theory of constrained electrically charged particles. Physical Review B, 2011, 83, .	1.1	27
32	Topological Semimetals in the SnTe Material Class: Nodal Lines and Weyl Points. Physical Review Letters, 2019, 122, 186801.	2.9	27
33	Engineering interaction-induced topological insulators in a honeycomb superlattice. Physical Review B, 2016, 93, .	1.1	25
34	Theoretical Prediction of a Giant Anisotropic Magnetoresistance in Carbon Nanoscrolls. Nano Letters, 2017, 17, 3076-3080.	4.5	22
35	Tuning pairing amplitude and spin-triplet texture by curving superconducting nanostructures. Physical Review B, 2017, 96, .	1.1	22
36	Fundamental Differences between Quantum Spin Hall Edge States at Zigzag and Armchair Terminations of Honeycomb and Ruby Nets. Physical Review Letters, 2013, 111, 146801.	2.9	21

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37	Classification of crystalline insulators without symmetry indicators: Atomic and fragile topological phases in twofold rotation symmetric systems. <i>Physical Review B</i> , 2019, 100, .	1.1	21
38	Strongly Anisotropic Ballistic Magnetoresistance in Compact Three-Dimensional Semiconducting Nanoarchitectures. <i>Physical Review Letters</i> , 2014, 113, 227205.	2.9	20
39	Screening effects in Coulomb-frustrated phase separation. <i>Physical Review B</i> , 2007, 75, .	1.1	17
40	CURVATURE-INDUCED RASHBA SPIN-ORBIT INTERACTION IN STRAIN-DRIVEN NANOSTRUCTURES. <i>Spin</i> , 2013, 03, 1340002.	0.6	17
41	Fate of interaction-driven topological insulators under disorder. <i>Physical Review B</i> , 2017, 96, .	1.1	16
42	Hybrid-order topology of weak topological insulators. <i>Physical Review B</i> , 2020, 102, .	1.1	13
43	Novel topological insulators from crystalline symmetries. <i>European Physical Journal: Special Topics</i> , 2018, 227, 1309-1321.	1.2	11
44	Topological quantum pump in serpentine-shaped semiconducting narrow channels. <i>Physical Review B</i> , 2018, 97, .	1.1	11
45	Independent Geometrical Control of Spin and Charge Resistances in Curved Spintronics. <i>Nano Letters</i> , 2019, 19, 6839-6844.	4.5	11
46	Geometric driving of two-level quantum systems. <i>Physical Review Research</i> , 2020, 2, .	1.3	11
47	One-dimensional Dirac electrons on the surface of weak topological insulators. <i>Physical Review B</i> , 2015, 91, .	1.1	10
48	Surface-state spin textures in strained bulk HgTe: Strain-induced topological phase transitions. <i>Physical Review B</i> , 2016, 94, .	1.1	9
49	Coarse grained models in Coulomb frustrated phase separation. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 434229.	0.7	8
50	Absence of helical surface states in bulk semimetals with broken inversion symmetry. <i>Physical Review B</i> , 2014, 89, .	1.1	8
51	Ballistic anisotropic magnetoresistance in core-shell nanowires and rolled-up nanotubes. <i>International Journal of Modern Physics B</i> , 2017, 31, 1630016.	1.0	8
52	Universality classes for Coulomb frustrated phase separation. <i>Physica B: Condensed Matter</i> , 2009, 404, 499-502.	1.3	7
53	Spin field-effect transistor in a quantum spin-Hall device. <i>Physical Review B</i> , 2018, 98, .	1.1	7
54	Topological end states due to inhomogeneous strains in wrinkled semiconducting ribbons. <i>Physical Review B</i> , 2016, 93, .	1.1	6

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55	Strong coupling anomalous dimensions of Script $N = 4$ super Yang-Mills. Journal of High Energy Physics, 2006, 2006, 016-016.	1.6	5
56	Tuning topology in thin films of topological insulators by strain gradients. Physical Review B, 2019, 100, .	1.1	5
57	Synthesizing Weyl semimetals in weak topological insulator and topological crystalline insulator multilayers. Physical Review B, 2017, 96, .	1.1	4
58	Electrons broken into pieces at crystal defects. Nature, 2021, 589, 356-357.	13.7	4
59	Orbital vortices in s -wave spin-singlet superconductors in zero magnetic field. Physical Review B, 2022, 105, .	1.1	3
60	Defect formation preempts dynamical symmetry breaking in closed quantum systems. Physical Review B, 2011, 84, .	1.1	2
61	GUEST EDITORIAL "FUNCTIONAL MAGNETIC NANOMEMBRANES". Spin, 2013, 03, 1302001.	0.6	2
62	Angle-dependent Weiss oscillations in a nanocorrugated two-dimensional electron gas. Nano Futures, 2017, 1, 035004.	1.0	2
63	Magnetic impurities along the edge of a quantum spin Hall insulator: Realizing a one-dimensional All insulator. Physical Review B, 2021, 103, .	1.1	2
64	Engineering Topological Nodal Line Semimetals in Rashba Spin-Orbit Coupled Atomic Chains. Condensed Matter, 2019, 4, 25.	0.8	1
65	AdS/CFT duality at strong coupling. Theoretical and Mathematical Physics(Russian Federation), 2007, 152, 1060-1068.	0.3	0
66	Quantum collapses and revivals of matter wave in dynamics of symmetry breaking. Physical Review B, 2013, 87, .	1.1	0
67	Self-organized electronic superlattices in layered materials. Physical Review B, 2014, 90, .	1.1	0
68	Spin Interference Effects in Rashba Quantum Rings. Nanoscience and Technology, 2018, , 327-346.	1.5	0
69	Magnetoconductance modulations due to interlayer tunneling in radial superlattices. Nanoscale Horizons, 2022, 7, 168-173.	4.1	0