

Carmine Ortix

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.

64
papers

1,516
citations

23
h-index

37
g-index

69
ext. papers

1,905
ext. citations

5.8
avg, IF

5.4
L-index

#	Paper	IF	Citations
64	Hall effects in artificially corrugated bilayer graphene without breaking time-reversal symmetry. <i>Nature Electronics</i> , 2021 , 4, 116-125	28.4	11
63	Magnetic impurities along the edge of a quantum spin Hall insulator: Realizing a one-dimensional AllI insulator. <i>Physical Review B</i> , 2021 , 103,	3.3	1
62	Nonlinear Hall Effect with Time-Reversal Symmetry: Theory and Material Realizations. <i>Advanced Quantum Technologies</i> , 2021 , 4, 2100056	4.3	4
61	Anomalous planar Hall effect in two-dimensional trigonal crystals. <i>Physical Review Research</i> , 2021 , 3,	3.9	4
60	The bulk-corner correspondence of time-reversal symmetric insulators. <i>Npj Quantum Materials</i> , 2021 , 6,	5	8
59	Geometric driving of two-level quantum systems. <i>Physical Review Research</i> , 2020 , 2,	3.9	6
58	On the topological immunity of corner states in two-dimensional crystalline insulators. <i>Npj Quantum Materials</i> , 2020 , 5,	5	10
57	Hybrid-order topology of weak topological insulators. <i>Physical Review B</i> , 2020 , 102,	3.3	4
56	Independent Geometrical Control of Spin and Charge Resistances in Curved Spintronics. <i>Nano Letters</i> , 2019 , 19, 6839-6844	11.5	4
55	Tuning topology in thin films of topological insulators by strain gradients. <i>Physical Review B</i> , 2019 , 100,	3.3	1
54	Topological Semimetals in the SnTe Material Class: Nodal Lines and Weyl Points. <i>Physical Review Letters</i> , 2019 , 122, 186801	7.4	14
53	Engineering Topological Nodal Line Semimetals in Rashba Spin-Orbit Coupled Atomic Chains. <i>Condensed Matter</i> , 2019 , 4, 25	1.8	1
52	Berry Curvature Dipole in Strained Graphene: A Fermi Surface Warping Effect. <i>Physical Review Letters</i> , 2019 , 123, 196403	7.4	21
51	Classification of crystalline insulators without symmetry indicators: Atomic and fragile topological phases in twofold rotation symmetric systems. <i>Physical Review B</i> , 2019 , 100,	3.3	10
50	Higher-order topological insulators protected by inversion and rotoinversion symmetries. <i>Physical Review B</i> , 2018 , 98,	3.3	89
49	Topological quantum pump in serpentine-shaped semiconducting narrow channels. <i>Physical Review B</i> , 2018 , 97,	3.3	7
48	Novel topological insulators from crystalline symmetries. <i>European Physical Journal: Special Topics</i> , 2018 , 227, 1309-1321	2.3	8

47	Inversion-symmetry protected chiral hinge states in stacks of doped quantum Hall layers. <i>Physical Review B</i> , 2018 , 98,	3.3	30
46	Spin field-effect transistor in a quantum spin-Hall device. <i>Physical Review B</i> , 2018 , 98,	3.3	5
45	Spin Interference Effects in Rashba Quantum Rings. <i>Nanoscience and Technology</i> , 2018 , 327-346	0.6	
44	Dislocation charges reveal two-dimensional topological crystalline invariants. <i>Physical Review B</i> , 2018 , 97,	3.3	15
43	Theoretical Prediction of a Giant Anisotropic Magnetoresistance in Carbon Nanoscrolls. <i>Nano Letters</i> , 2017 , 17, 3076-3080	11.5	15
42	Topological origin of edge states in two-dimensional inversion-symmetric insulators and semimetals. <i>2D Materials</i> , 2017 , 4, 015023	5.9	30
41	Generic Coexistence of Fermi Arcs and Dirac Cones on the Surface of Time-Reversal Invariant Weyl Semimetals. <i>Physical Review Letters</i> , 2017 , 119, 076801	7.4	22
40	Tuning pairing amplitude and spin-triplet texture by curving superconducting nanostructures. <i>Physical Review B</i> , 2017 , 96,	3.3	15
39	Synthesizing Weyl semimetals in weak topological insulator and topological crystalline insulator multilayers. <i>Physical Review B</i> , 2017 , 96,	3.3	3
38	Fate of interaction-driven topological insulators under disorder. <i>Physical Review B</i> , 2017 , 96,	3.3	10
37	Ballistic anisotropic magnetoresistance in core-shell nanowires and rolled-up nanotubes. <i>International Journal of Modern Physics B</i> , 2017 , 31, 1630016	1.1	8
36	Excess charges as a probe of one-dimensional topological crystalline insulating phases. <i>Physical Review B</i> , 2017 , 96,	3.3	25
35	Angle-dependent Weiss oscillations in a nanocorrugated two-dimensional electron gas. <i>Nano Futures</i> , 2017 , 1, 035004	3.6	1
34	Engineering interaction-induced topological insulators in a 3D substrate-induced honeycomb superlattice. <i>Physical Review B</i> , 2016 , 93,	3.3	14
33	Topological end states due to inhomogeneous strains in wrinkled semiconducting ribbons. <i>Physical Review B</i> , 2016 , 93,	3.3	4
32	Topological mirror insulators in one dimension. <i>Physical Review B</i> , 2016 , 94,	3.3	37
31	Surface-state spin textures in strained bulk HgTe: Strain-induced topological phase transitions. <i>Physical Review B</i> , 2016 , 94,	3.3	6
30	Designing electron spin textures and spin interferometers by shape deformations. <i>Physical Review B</i> , 2016 , 94,	3.3	25

29	Quantum mechanics of a spin-orbit coupled electron constrained to a space curve. <i>Physical Review B</i> , 2015 , 91,	3-3	46
28	Energy-tunable sources of entangled photons: a viable concept for solid-state-based quantum relays. <i>Physical Review Letters</i> , 2015 , 114, 150502	7-4	53
27	Kekulé textures, pseudospin-one Dirac cones, and quadratic band crossings in a graphene-hexagonal indium chalcogenide bilayer. <i>Physical Review B</i> , 2015 , 91,	3-3	39
26	Topological Edge States with Zero Hall Conductivity in a Dimerized Hofstadter Model. <i>Physical Review Letters</i> , 2015 , 115, 216805	7-4	24
25	Edge States and Topological Insulating Phases Generated by Curving a Nanowire with Rashba Spin-Orbit Coupling. <i>Physical Review Letters</i> , 2015 , 115, 256801	7-4	36
24	Fractional quantization of the topological charge pumping in a one-dimensional superlattice. <i>Physical Review B</i> , 2015 , 91,	3-3	45
23	One-dimensional Dirac electrons on the surface of weak topological insulators. <i>Physical Review B</i> , 2015 , 91,	3-3	7
22	Absence of helical surface states in bulk semimetals with broken inversion symmetry. <i>Physical Review B</i> , 2014 , 89,	3-3	4
21	Strongly Anisotropic Ballistic Magnetoresistance in Compact Three-Dimensional Semiconducting Nanoarchitectures. <i>Physical Review Letters</i> , 2014 , 113, 227205	7-4	18
20	Stacked topological insulator built from bismuth-based graphene sheet analogues. <i>Nature Materials</i> , 2013 , 12, 422-5	27	144
19	GUEST EDITORIAL IFUNCTIONAL MAGNETIC NANOMEMBRANES. <i>Spin</i> , 2013 , 03, 1302001	1-3	2
18	CURVATURE-INDUCED RASHBA SPINORBIT INTERACTION IN STRAIN-DRIVEN NANOSTRUCTURES. <i>Spin</i> , 2013 , 03, 1340002	1-3	13
17	Fundamental differences between quantum spin Hall edge states at zigzag and armchair terminations of honeycomb and ruby nets. <i>Physical Review Letters</i> , 2013 , 111, 146801	7-4	16
16	Universal recovery of the energy-level degeneracy of bright excitons in InGaAs quantum dots without a structure symmetry. <i>Physical Review Letters</i> , 2012 , 109, 147401	7-4	136
15	Microscopic origin of large negative magnetoelectric coupling in Sr(1/2)Ba(1/2)MnO ₃ . <i>Physical Review Letters</i> , 2012 , 109, 107601	7-4	39
14	Graphene on incommensurate substrates: Trigonal warping and emerging Dirac cone replicas with halved group velocity. <i>Physical Review B</i> , 2012 , 86,	3-3	70
13	Curvature-induced geometric potential in strain-driven nanostructures. <i>Physical Review B</i> , 2011 , 84,	3-3	42
12	Proximity of iron pnictide superconductors to a quantum tricritical point. <i>Nature Communications</i> , 2011 , 2, 398	17-4	67

11	Defect formation preempts dynamical symmetry breaking in closed quantum systems. <i>Physical Review B</i> , 2011 , 84,	3.3	1
10	Absence of anomalous couplings in the quantum theory of constrained electrically charged particles. <i>Physical Review B</i> , 2011 , 83,	3.3	25
9	Effect of curvature on the electronic structure and bound-state formation in rolled-up nanotubes. <i>Physical Review B</i> , 2010 , 81,	3.3	46
8	Universality classes for Coulomb frustrated phase separation. <i>Physica B: Condensed Matter</i> , 2009 , 404, 499-502	2.8	6
7	Coarse grained models in Coulomb frustrated phase separation. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 434229	1.8	6
6	Coulomb-frustrated phase separation phase diagram in systems with short-range negative compressibility. <i>Physical Review Letters</i> , 2008 , 100, 246402	7.4	39
5	Competing orders in FeAs layers. <i>Physical Review Letters</i> , 2008 , 101, 186402	7.4	76
4	AdS/CFT duality at strong coupling. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 2007 , 152, 1060-1068	0.7	
3	Screening effects in Coulomb-frustrated phase separation. <i>Physical Review B</i> , 2007 , 75,	3.3	16
2	Strong coupling anomalous dimensions of Script N = 4 super Yang-Mills. <i>Journal of High Energy Physics</i> , 2006 , 2006, 016-016	5.4	5
1	Frustrated phase separation in two-dimensional charged systems. <i>Physical Review B</i> , 2006 , 73,	3.3	26