

Carmine Ortix

List of Publications by Citations

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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	Stacked topological insulator built from bismuth-based graphene sheet analogues. <i>Nature Materials</i> , 2013 , 12, 422-5	27	144
63	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
62	Higher-order topological insulators protected by inversion and rotoinversion symmetries. <i>Physical Review B</i> , 2018 , 98,	3.3	89
61	Competing orders in FeAs layers. <i>Physical Review Letters</i> , 2008 , 101, 186402	7.4	76
60	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
59	Proximity of iron pnictide superconductors to a quantum tricritical point. <i>Nature Communications</i> , 2011 , 2, 398	17.4	67
58	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
57	Quantum mechanics of a spin-orbit coupled electron constrained to a space curve. <i>Physical Review B</i> , 2015 , 91,	3.3	46
56	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
55	Fractional quantization of the topological charge pumping in a one-dimensional superlattice. <i>Physical Review B</i> , 2015 , 91,	3.3	45
54	Curvature-induced geometric potential in strain-driven nanostructures. <i>Physical Review B</i> , 2011 , 84,	3.3	42
53	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
52	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
51	Coulomb-frustrated phase separation phase diagram in systems with short-range negative compressibility. <i>Physical Review Letters</i> , 2008 , 100, 246402	7.4	39
50	Topological mirror insulators in one dimension. <i>Physical Review B</i> , 2016 , 94,	3.3	37
49	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
48	Topological origin of edge states in two-dimensional inversion-symmetric insulators and semimetals. <i>2D Materials</i> , 2017 , 4, 015023	5.9	30

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	Frustrated phase separation in two-dimensional charged systems. <i>Physical Review B</i> , 2006 , 73,	3-3	26
45	Excess charges as a probe of one-dimensional topological crystalline insulating phases. <i>Physical Review B</i> , 2017 , 96,	3-3	25
44	Absence of anomalous couplings in the quantum theory of constrained electrically charged particles. <i>Physical Review B</i> , 2011 , 83,	3-3	25
43	Designing electron spin textures and spin interferometers by shape deformations. <i>Physical Review B</i> , 2016 , 94,	3-3	25
42	Topological Edge States with Zero Hall Conductivity in a Dimerized Hofstadter Model. <i>Physical Review Letters</i> , 2015 , 115, 216805	7-4	24
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	Berry Curvature Dipole in Strained Graphene: A Fermi Surface Warping Effect. <i>Physical Review Letters</i> , 2019 , 123, 196403	7-4	21
39	Strongly Anisotropic Ballistic Magnetoresistance in Compact Three-Dimensional Semiconducting Nanoarchitectures. <i>Physical Review Letters</i> , 2014 , 113, 227205	7-4	18
38	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
37	Screening effects in Coulomb-frustrated phase separation. <i>Physical Review B</i> , 2007 , 75,	3-3	16
36	Theoretical Prediction of a Giant Anisotropic Magnetoresistance in Carbon Nanoscrolls. <i>Nano Letters</i> , 2017 , 17, 3076-3080	11-5	15
35	Tuning pairing amplitude and spin-triplet texture by curving superconducting nanostructures. <i>Physical Review B</i> , 2017 , 96,	3-3	15
34	Dislocation charges reveal two-dimensional topological crystalline invariants. <i>Physical Review B</i> , 2018 , 97,	3-3	15
33	Topological Semimetals in the SnTe Material Class: Nodal Lines and Weyl Points. <i>Physical Review Letters</i> , 2019 , 122, 186801	7-4	14
32	Engineering interaction-induced topological insulators in a 3B substrate-induced honeycomb superlattice. <i>Physical Review B</i> , 2016 , 93,	3-3	14
31	CURVATURE-INDUCED RASHBA SPIN-ORBIT INTERACTION IN STRAIN-DRIVEN NANOSTRUCTURES. <i>Spin</i> , 2013 , 03, 1340002	1-3	13
30	Hall effects in artificially corrugated bilayer graphene without breaking time-reversal symmetry. <i>Nature Electronics</i> , 2021 , 4, 116-125	28.4	11

29	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
28	Fate of interaction-driven topological insulators under disorder. <i>Physical Review B</i> , 2017 , 96,	3.3	10
27	On the topological immunity of corner states in two-dimensional crystalline insulators. <i>Npj Quantum Materials</i> , 2020 , 5,	5	10
26	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
25	Novel topological insulators from crystalline symmetries. <i>European Physical Journal: Special Topics</i> , 2018 , 227, 1309-1321	2.3	8
24	The bulk-corner correspondence of time-reversal symmetric insulators. <i>Npj Quantum Materials</i> , 2021 , 6,	5	8
23	Topological quantum pump in serpentine-shaped semiconducting narrow channels. <i>Physical Review B</i> , 2018 , 97,	3.3	7
22	One-dimensional Dirac electrons on the surface of weak topological insulators. <i>Physical Review B</i> , 2015 , 91,	3.3	7
21	Surface-state spin textures in strained bulk HgTe: Strain-induced topological phase transitions. <i>Physical Review B</i> , 2016 , 94,	3.3	6
20	Universality classes for Coulomb frustrated phase separation. <i>Physica B: Condensed Matter</i> , 2009 , 404, 499-502	2.8	6
19	Coarse grained models in Coulomb frustrated phase separation. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 434229	1.8	6
18	Geometric driving of two-level quantum systems. <i>Physical Review Research</i> , 2020 , 2,	3.9	6
17	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
16	Spin field-effect transistor in a quantum spin-Hall device. <i>Physical Review B</i> , 2018 , 98,	3.3	5
15	Independent Geometrical Control of Spin and Charge Resistances in Curved Spintronics. <i>Nano Letters</i> , 2019 , 19, 6839-6844	11.5	4
14	Topological end states due to inhomogeneous strains in wrinkled semiconducting ribbons. <i>Physical Review B</i> , 2016 , 93,	3.3	4
13	Absence of helical surface states in bulk semimetals with broken inversion symmetry. <i>Physical Review B</i> , 2014 , 89,	3.3	4
12	Hybrid-order topology of weak topological insulators. <i>Physical Review B</i> , 2020 , 102,	3.3	4

11	Nonlinear Hall Effect with Time-Reversal Symmetry: Theory and Material Realizations. <i>Advanced Quantum Technologies</i> , 2021 , 4, 2100056	4.3	4
10	Anomalous planar Hall effect in two-dimensional trigonal crystals. <i>Physical Review Research</i> , 2021 , 3,	3.9	4
9	Synthesizing Weyl semimetals in weak topological insulator and topological crystalline insulator multilayers. <i>Physical Review B</i> , 2017 , 96,	3.3	3
8	GUEST EDITORIAL FUNCTIONAL MAGNETIC NANOMEMBRANES. <i>Spin</i> , 2013 , 03, 1302001	1.3	2
7	Tuning topology in thin films of topological insulators by strain gradients. <i>Physical Review B</i> , 2019 , 100,	3.3	1
6	Engineering Topological Nodal Line Semimetals in Rashba Spin-Orbit Coupled Atomic Chains. <i>Condensed Matter</i> , 2019 , 4, 25	1.8	1
5	Angle-dependent Weiss oscillations in a nanocorrugated two-dimensional electron gas. <i>Nano Futures</i> , 2017 , 1, 035004	3.6	1
4	Defect formation preempts dynamical symmetry breaking in closed quantum systems. <i>Physical Review B</i> , 2011 , 84,	3.3	1
3	Magnetic impurities along the edge of a quantum spin Hall insulator: Realizing a one-dimensional Anomalous Insulator. <i>Physical Review B</i> , 2021 , 103,	3.3	1
2	AdS/CFT duality at strong coupling. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 2007 , 152, 1060-1068	0.7	
1	Spin Interference Effects in Rashba Quantum Rings. <i>Nanoscience and Technology</i> , 2018 , 327-346	0.6	