Matthew J Gilbert

List of Publications by Year
in descending order

40 papers	1,674 citations	394421 19 h-index	302126 39 g-index
40 all docs	40 docs citations	40 times ranked	2169 citing authors

#	Article	IF	Citations
1	Bulk topological invariants in noninteracting point group symmetric insulators. Physical Review B, 2012, 86, .	3.2	347
2	Large-Chern-Number Quantum Anomalous Hall Effect in Thin-Film Topological Crystalline Insulators. Physical Review Letters, 2014, 112, 046801.	7.8	170
3	Momentum-space imaging of Cooper pairing in a half-Dirac-gas topological superconductor. Nature Physics, 2014, 10, 943-950.	16.7	134
4	Spin-Orbit-Free Topological Insulators without Time-Reversal Symmetry. Physical Review Letters, 2014, 113, 116403.	7.8	111
5	Aharonovâ€“Bohm oscillations in a quasi-ballistic three-dimensional topological insulator nanowire. Nature Communications, 2015, 6, 7634.	12.8	100
6	Topological insulators with commensurate antiferromagnetism. Physical Review B, 2013, 88, .	3.2	82
7	Topological electronics. Communications Physics, 2021, 4, .	5.3	76
8	Entanglement spectrum classification of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>C</mml:mi><mml:mi>n</mml:mi></mml:msub></mml:math>-invariant noninteracting topological insulators in two dimensions. Physical Review B, 2013, 87, .	3.2	65
9	Vortex lines in topological insulator-superconductor heterostructures. Physical Review B, 2011, 84, .	3.2	62
10	Metallic antiferromagnets. Journal of Applied Physics, 2020, 128, .	2.5	57
11	New Class of Topological Superconductors Protected by Magnetic Group Symmetries. Physical Review Letters, 2014, 112, 106401.	7.8	54
12	Loss of Hall conductivity quantization in a non-Hermitian quantum anomalous Hall insulator. Physical Review B, 2018, 98, .	3.2	53
13	Topology and observables of the non-Hermitian Chern insulator. Physical Review B, 2019, 100, .	3.2	43
14	Finite momentum Cooper pairing in three-dimensional topological insulator Josephson junctions. Nature Communications, 2018, 9, 3478.	12.8	32
15	Theory of quasiparticle interference in mirror-symmetric two-dimensional systems and its application to surface states of topological crystalline insulators. Physical Review B, 2013, 88, .	3.2	31
16	Probing unconventional superconductivity in inversion-symmetric doped Weyl semimetal. Physical Review B, 2016, 93, .	3.2	30
17	Vortex lattices in the superconducting phases of doped topological insulators and heterostructures. Physical Review B, 2013, 87, .	3.2	25
18	Electronic transport in a two-dimensional superlattice engineered via self-assembled nanostructures. Npj 2D Materials and Applications, 2018, 2, .	7.9	25

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19	Fractional spin Josephson effect and electrically controlled magnetization in quantum spin Hall edges. Physical Review B, 2012, 86, .	3.2	20
20	A review of modeling interacting transient phenomena with non-equilibrium Green functions. Reports on Progress in Physics, 2019, 82, 046001.	20.1	19
21	Magnetotransport in a strain superlattice of graphene. Applied Physics Letters, 2019, 115, .	3.3	16
22	Weyl phases in point-group symmetric superconductors. Physical Review B, 2013, 88, .	3.2	15
23	Signature of phase transitions in the disordered quantum spin Hall state from the entanglement spectrum. Physical Review B, 2012, 86, .	3.2	13
24	Imaging topologically protected transport with quantum degenerate gases. Physical Review B, 2012, 85, .	3.2	12
25	Performance of Topological Insulator Interconnects. IEEE Electron Device Letters, 2017, 38, 138-141.	3.9	10
26	Effects of fermion flavor on exciton condensation in double-layer systems. Physical Review B, 2012, 85, .	3.2	9
27	Coupled wire models of interacting Dirac nodal superconductors. Physical Review B, 2018, 98, .	3.2	9
28	Gate controlled spin-density wave and chiral FFLO superconducting phases in interacting helical liquids. Physical Review B, 2012, 86, .	3.2	7
29	Voltage-induced switching of an antiferromagnetically ordered topological Dirac semimetal. Physical Review B, 2018, 97, .	3.2	7
30	Proximity-induced anisotropic magnetoresistance in magnetized topological insulators. Applied Physics Letters, 2021, 118, .	3.3	7
31	Topological excitonic superfluids in three dimensions. Physical Review B, 2012, 86, .	3.2	6
32	Theory of AC quantum transport with fully electrodynamic coupling. Journal of Computational Electronics, 2018, 17, 934-948.	2.5	6
33	Pseudospin transfer torques in semiconductor electron bilayers. Physical Review B, 2012, 85, .	3.2	5
34	Topological superconductivity in an ultrathin, magnetically-doped topological insulator proximity coupled to a conventional superconductor. Physical Review B, 2016, 94, .	3.2	5
35	High-performance nanoscale topological energy transduction. Scientific Reports, 2017, 7, 6736.	3.3	5
36	Competing Energy Scales in Topological Superconducting Heterostructures. Nano Letters, 2021, 21, 2758-2765.	9.1	3

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37	Towards understanding the superfluid behavior in double layer graphene nanostructures. Journal of Computational Electronics, 2013, 12, 248-264.	2.5	1
38	Voltage-induced dynamical quantum phase transitions in exciton condensates. Physical Review B, 2016, 94, .	3.2	1
39	Impact of thermal fluctuations on transport in antiferromagnetic semimetals. Physical Review B, 2018, 98, .	3.2	1
40	Modeling of black phosphorus vertical TFETs without chemical doping for drain. , 2017, , .		0