

Matthew J Gilbert

List of Publications by Year in descending order

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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	Competing Energy Scales in Topological Superconducting Heterostructures. Nano Letters, 2021, 21, 2758-2765.	9.1	3
2	Topological electronics. Communications Physics, 2021, 4, .	5.3	76
3	Proximity-induced anisotropic magnetoresistance in magnetized topological insulators. Applied Physics Letters, 2021, 118, .	3.3	7
4	Metallic antiferromagnets. Journal of Applied Physics, 2020, 128, .	2.5	57
5	Topology and observables of the non-Hermitian Chern insulator. Physical Review B, 2019, 100, .	3.2	43
6	Magnetotransport in a strain superlattice of graphene. Applied Physics Letters, 2019, 115, .	3.3	16
7	A review of modeling interacting transient phenomena with non-equilibrium Green functions. Reports on Progress in Physics, 2019, 82, 046001.	20.1	19
8	Voltage-induced switching of an antiferromagnetically ordered topological Dirac semimetal. Physical Review B, 2018, 97, .	3.2	7
9	Coupled wire models of interacting Dirac nodal superconductors. Physical Review B, 2018, 98, .	3.2	9
10	Electronic transport in a two-dimensional superlattice engineered via self-assembled nanostructures. Npj 2D Materials and Applications, 2018, 2, .	7.9	25
11	Loss of Hall conductivity quantization in a non-Hermitian quantum anomalous Hall insulator. Physical Review B, 2018, 98, .	3.2	53
12	Theory of AC quantum transport with fully electrodynamic coupling. Journal of Computational Electronics, 2018, 17, 934-948.	2.5	6
13	Impact of thermal fluctuations on transport in antiferromagnetic semimetals. Physical Review B, 2018, 98, .	3.2	1
14	Finite momentum Cooper pairing in three-dimensional topological insulator Josephson junctions. Nature Communications, 2018, 9, 3478.	12.8	32
15	Performance of Topological Insulator Interconnects. IEEE Electron Device Letters, 2017, 38, 138-141.	3.9	10
16	High-performance nanoscale topological energy transduction. Scientific Reports, 2017, 7, 6736.	3.3	5
17	Modeling of black phosphorus vertical TFETs without chemical doping for drain. , 2017, , .		0
18	Voltage-induced dynamical quantum phase transitions in exciton condensates. Physical Review B, 2016, 94, .	3.2	1

#	ARTICLE	IF	CITATIONS
19	Topological superconductivity in an ultrathin, magnetically-doped topological insulator proximity coupled to a conventional superconductor. <i>Physical Review B</i> , 2016, 94, .	3.2	5
20	Probing unconventional superconductivity in inversion-symmetric doped Weyl semimetal. <i>Physical Review B</i> , 2016, 93, .	3.2	30
21	Aharonovâ€™Bohm oscillations in a quasi-ballistic three-dimensional topological insulator nanowire. <i>Nature Communications</i> , 2015, 6, 7634.	12.8	100
22	New Class of Topological Superconductors Protected by Magnetic Group Symmetries. <i>Physical Review Letters</i> , 2014, 112, 106401.	7.8	54
23	Large-Chern-Number Quantum Anomalous Hall Effect in Thin-Film Topological Crystalline Insulators. <i>Physical Review Letters</i> , 2014, 112, 046801.	7.8	170
24	Momentum-space imaging of Cooper pairing in a half-Dirac-gas topological superconductor. <i>Nature Physics</i> , 2014, 10, 943-950.	16.7	134
25	Spin-Orbit-Free Topological Insulators without Time-Reversal Symmetry. <i>Physical Review Letters</i> , 2014, 113, 116403.	7.8	111
26	Towards understanding the superfluid behavior in double layer graphene nanostructures. <i>Journal of Computational Electronics</i> , 2013, 12, 248-264.	2.5	1
27	Topological insulators with commensurate antiferromagnetism. <i>Physical Review B</i> , 2013, 88, .	3.2	82
28	Vortex lattices in the superconducting phases of doped topological insulators and heterostructures. <i>Physical Review B</i> , 2013, 87, .	3.2	25
29	Entanglement spectrum classification of C_n -invariant noninteracting topological insulators in two dimensions. <i>Physical Review B</i> , 2013, 87, .	3.2	65
30	Weyl phases in point-group symmetric superconductors. <i>Physical Review B</i> , 2013, 88, .	3.2	15
31	Theory of quasiparticle interference in mirror-symmetric two-dimensional systems and its application to surface states of topological crystalline insulators. <i>Physical Review B</i> , 2013, 88, .	3.2	31
32	Signature of phase transitions in the disordered quantum spin Hall state from the entanglement spectrum. <i>Physical Review B</i> , 2012, 86, .	3.2	13
33	Topological excitonic superfluids in three dimensions. <i>Physical Review B</i> , 2012, 86, .	3.2	6
34	Fractional spin Josephson effect and electrically controlled magnetization in quantum spin Hall edges. <i>Physical Review B</i> , 2012, 86, .	3.2	20
35	Effects of fermion flavor on exciton condensation in double-layer systems. <i>Physical Review B</i> , 2012, 85, .	3.2	9
36	Imaging topologically protected transport with quantum degenerate gases. <i>Physical Review B</i> , 2012, 85, .	3.2	12

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37	Pseudospin transfer torques in semiconductor electron bilayers. Physical Review B, 2012, 85, .	3.2	5
38	Gate controlled spin-density wave and chiral FFLO superconducting phases in interacting helical liquids. Physical Review B, 2012, 86, .	3.2	7
39	Bulk topological invariants in noninteracting point group symmetric insulators. Physical Review B, 2012, 86, .	3.2	347
40	Vortex lines in topological insulator-superconductor heterostructures. Physical Review B, 2011, 84, .	3.2	62