

Gregory A Fiete

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.

121
papers

3,931
citations

35
h-index

58
g-index

136
ext. papers

4,629
ext. citations

6.3
avg, IF

5.99
L-index

#	Paper	IF	Citations
121	Spontaneous quantum Hall states in chirally stacked few-layer graphene systems. <i>Physical Review Letters</i> , 2011 , 106, 156801	7.4	326
120	Colloquium: Theory of quantum corrals and quantum mirages. <i>Reviews of Modern Physics</i> , 2003 , 75, 933-948	44.5	181
119	New frontiers for the materials genome initiative. <i>Npj Computational Materials</i> , 2019 , 5,	10.9	171
118	Thermoelectric properties of Weyl and Dirac semimetals. <i>Physical Review B</i> , 2014 , 90,	3.3	143
117	Topological insulators from complex orbital order in transition-metal oxides heterostructures. <i>Physical Review B</i> , 2011 , 84,	3.3	140
116	Heterointerface engineered electronic and magnetic phases of NdNiO ₃ thin films. <i>Nature Communications</i> , 2013 , 4, 2714	17.4	136
115	Interaction-driven topological insulators on the kagome and the decorated honeycomb lattices. <i>Physical Review B</i> , 2010 , 82,	3.3	124
114	Colloquium: The spin-incoherent Luttinger liquid. <i>Reviews of Modern Physics</i> , 2007 , 79, 801-820	40.5	102
113	Competing exotic topological insulator phases in transition-metal oxides on the pyrochlore lattice with distortion. <i>Physical Review B</i> , 2011 , 83,	3.3	92
112	Topological order and semions in a strongly correlated quantum spin Hall insulator. <i>Physical Review Letters</i> , 2012 , 108, 046401	7.4	85
111	Topological crystalline insulators in transition metal oxides. <i>Physical Review Letters</i> , 2013 , 110, 156403	7.4	80
110	Scattering theory of Kondo mirages and observation of single Kondo atom phase shift. <i>Physical Review Letters</i> , 2001 , 86, 2392-5	7.4	77
109	Topological insulators and fractional quantum Hall effect on the ruby lattice. <i>Physical Review B</i> , 2011 , 84,	3.3	69
108	Mean-field magnetization relaxation in conducting ferromagnets. <i>Applied Physics Letters</i> , 2004 , 84, 5234-5236	3.4	67
107	Green's function for magnetically incoherent interacting electrons in one dimension. <i>Physical Review Letters</i> , 2004 , 93, 226401	7.4	67
106	Fractionalized topological insulators. <i>Nature Physics</i> , 2015 , 11, 385-388	16.2	66
105	Topological phases and phase transitions on the square-octagon lattice. <i>Physical Review B</i> , 2010 , 82,	3.3	64

104	Electronic structure of $(\text{LaNiO}_3)_2/(\text{LaAlO}_3)_N$ heterostructures grown along [111]. <i>Physical Review B</i> , 2012 , 85,	3.3	63
103	Visualization of geometric influences on proximity effects in heterogeneous superconductor thin films. <i>Nature Physics</i> , 2012 , 8, 464-469	16.2	60
102	Models of degeneracy breaking in pyrochlore antiferromagnets. <i>Physical Review B</i> , 2006 , 74,	3.3	57
101	Quantum effects in a half-polarized pyrochlore antiferromagnet. <i>Physical Review Letters</i> , 2006 , 96, 097207	7.4	55
100	Semiclassical theory of coherence and decoherence. <i>Physical Review A</i> , 2003 , 68,	2.6	49
99	Coulomb drag between two spin-incoherent Luttinger liquids. <i>Physical Review B</i> , 2006 , 73,	3.3	47
98	Topological phases in layered pyrochlore oxide thin films along the [111] direction. <i>Physical Review B</i> , 2012 , 86,	3.3	45
97	Topological phase transition in a generalized Kane-Mele-Hubbard model: A combined quantum Monte Carlo and Green's function study. <i>Physical Review B</i> , 2013 , 87,	3.3	43
96	Topological insulators on the decorated honeycomb lattice. <i>Physical Review B</i> , 2010 , 81,	3.3	42
95	Theory of momentum resolved tunneling into a short quantum wire. <i>Physical Review B</i> , 2005 , 72,	3.3	42
94	Thermoelectric transport in double-Weyl semimetals. <i>Physical Review B</i> , 2016 , 93,	3.3	41
93	Topological order in a correlated three-dimensional topological insulator. <i>Physical Review Letters</i> , 2014 , 112, 016404	7.4	41
92	Lattice distortion effects on topological phases in $(\text{LaNiO}_3)_2/(\text{LaAlO}_3)_N$ heterostructures grown along the [111] direction. <i>Physical Review B</i> , 2013 , 88,	3.3	41
91	NMR probe of metallic states in nanoscale topological insulators. <i>Physical Review Letters</i> , 2013 , 110, 026602	7.4	40
90	Ordering in a frustrated pyrochlore antiferromagnet proximate to a spin liquid. <i>Physical Review B</i> , 2006 , 73,	3.3	39
89	Topological Magnon Bands and Unconventional Superconductivity in Pyrochlore Iridate Thin Films. <i>Physical Review Letters</i> , 2017 , 118, 177201	7.4	37
88	Entanglement entropy and spectra of the one-dimensional Kugel-Khomskii model. <i>Physical Review B</i> , 2012 , 86,	3.3	37
87	Effective Hamiltonian for $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ in the dilute limit. <i>Physical Review Letters</i> , 2003 , 91, 097202	7.4	36

86	Mixing of $t_{2g}e_g$ orbitals in 4d and 5d transition metal oxides. <i>Physical Review B</i> , 2018 , 97,	3-3	34
85	Momentum-space entanglement spectrum of bosons and fermions with interactions. <i>Physical Review Letters</i> , 2014 , 113, 256404	7-4	34
84	Electronic cooling in Weyl and Dirac semimetals. <i>Physical Review B</i> , 2015 , 92,	3-3	33
83	Interaction effects on topological phase transitions via numerically exact quantum Monte Carlo calculations. <i>Physical Review B</i> , 2014 , 89,	3-3	33
82	Quadratic band touching points and flat bands in two-dimensional topological Floquet systems. <i>Physical Review B</i> , 2017 , 95,	3-3	32
81	Magnon thermal Hall effect in kagome antiferromagnets with Dzyaloshinskii-Moriya interactions. <i>Physical Review B</i> , 2018 , 98,	3-3	32
80	Fractionally charged topological point defects on the kagome lattice. <i>Physical Review B</i> , 2011 , 83,	3-3	31
79	Exact chiral spin liquid with stable spin Fermi surface on the kagome lattice. <i>Physical Review B</i> , 2011 , 83,	3-3	30
78	Unusual magnetic phases in the strong interaction limit of two-dimensional topological band insulators in transition metal oxides. <i>Physical Review B</i> , 2012 , 86,	3-3	30
77	Spectral properties of a spin-incoherent Luttinger liquid. <i>Physical Review B</i> , 2010 , 81,	3-3	29
76	Quantum Hall states at $\mathbb{Z}2k+2$: Analysis of the particle-hole conjugates of the general level-k Read-Rezayi states. <i>Physical Review B</i> , 2008 , 77,	3-3	28
75	Transport in a spin-incoherent Luttinger liquid. <i>Physical Review B</i> , 2005 , 72,	3-3	28
74	Flow Equation Approach to Periodically Driven Quantum Systems. <i>Physical Review X</i> , 2019 , 9,	9-1	27
73	First Principles Prediction of Topological Phases in Thin Films of Pyrochlore Iridates. <i>Scientific Reports</i> , 2015 , 5, 11072	4-9	26
72	Doping the Kane-Mele-Hubbard model: A slave-boson approach. <i>Physical Review B</i> , 2011 , 84,	3-3	26
71	Kondo effect and STM spectra through ferromagnetic nanoclusters. <i>Physical Review B</i> , 2002 , 66,	3-3	26
70	Topological insulators and quantum spin liquids. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012 , 44, 845-859	3	23
69	Multichannel Kondo models in non-Abelian quantum Hall droplets. <i>Physical Review Letters</i> , 2008 , 101, 176801	7-4	23

68	Degenerate perturbation theory of quantum fluctuations in a pyrochlore antiferromagnet. <i>Physical Review B</i> , 2007 , 75,	3.3	23
67	Fourier transform of the 2kF Luttinger liquid density correlation function with different spin and charge velocities. <i>Physical Review B</i> , 2007 , 75,	3.3	23
66	Correlation effects in pyrochlore iridate thin films grown along the [111] direction. <i>Physical Review B</i> , 2015 , 92,	3.3	21
65	Coulomb drag between helical edge states. <i>Physical Review B</i> , 2010 , 82,	3.3	20
64	Positional disorder, spin-orbit coupling, and frustration in Ga _{1-x} Mn _x As. <i>Physical Review B</i> , 2005 , 71,	3.3	20
63	Cellular dynamical mean-field theory study of an interacting topological honeycomb lattice model at finite temperature. <i>Physical Review B</i> , 2015 , 91,	3.3	19
62	Floquet band structure of a semi-Dirac system. <i>Physical Review B</i> , 2018 , 97,	3.3	18
61	Universal quenching of the superconducting state of two-dimensional nanosize Pb-island structures. <i>Physical Review B</i> , 2011 , 84,	3.3	18
60	Effective Floquet Hamiltonians for periodically driven twisted bilayer graphene. <i>Physical Review B</i> , 2020 , 101,	3.3	16
59	Floquet engineering of interlayer couplings: Tuning the magic angle of twisted bilayer graphene at the exit of a waveguide. <i>Physical Review B</i> , 2020 , 101,	3.3	16
58	Nanoscale μ nuclear magnetic resonance depth imaging of topological insulators. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E3645-50	11.5	15
57	Sum rule violation in self-consistent hybridization expansions. <i>Physical Review B</i> , 2013 , 87,	3.3	15
56	Effective Floquet Hamiltonian in the low-frequency regime. <i>Physical Review B</i> , 2020 , 101,	3.3	14
55	Discovery of the soft electronic modes of the trimeron order in magnetite. <i>Nature Physics</i> , 2020 , 16, 541-545	11.5	13
54	Exactly solvable topological chiral spin liquid with random exchange. <i>Physical Review B</i> , 2011 , 84,	3.3	13
53	Fermi-edge singularity in a spin-incoherent Luttinger liquid. <i>Physical Review Letters</i> , 2006 , 97, 256403	7.4	13
52	Disorder, spin-orbit, and interaction effects in dilute Ga _{1-x} Mn _x As. <i>Physical Review B</i> , 2005 , 72,	3.3	13
51	Topological phases in oxide heterostructures with light and heavy transition metal ions (invited). <i>Journal of Applied Physics</i> , 2015 , 117, 172602	2.5	12

50	Spin-incoherent behavior in the ground state of strongly correlated systems. <i>Physical Review Letters</i> , 2011 , 106, 146401	7.4	12
49	Universal periods in quantum Hall droplets. <i>Physical Review Letters</i> , 2007 , 99, 166805	7.4	12
48	Disorder-induced local-density-of-states oscillations on narrow Ag(111) terraces. <i>Physical Review B</i> , 2005 , 71,	3.3	12
47	Floquet engineering of twisted double bilayer graphene. <i>Physical Review Research</i> , 2020 , 2,	3.9	12
46	Exotic resonant level models in non-Abelian quantum Hall states coupled to quantum dots. <i>Physical Review B</i> , 2010 , 82,	3.3	11
45	Phonon-mediated dimensional crossover in bilayer CrI ₃ . <i>Physical Review B</i> , 2020 , 102,	3.3	11
44	Disorder effects in correlated topological insulators. <i>Physical Review B</i> , 2016 , 94,	3.3	11
43	Strongly correlated and topological states in [111] grown transition metal oxide thin films and heterostructures. <i>APL Materials</i> , 2020 , 8, 050904	5.7	10
42	Universal entanglement spectra in critical spin chains. <i>Physical Review B</i> , 2016 , 94,	3.3	10
41	Interfacial spin Seebeck effect in noncollinear magnetic systems. <i>Physical Review B</i> , 2019 , 99,	3.3	9
40	Low-frequency and Moiré Floquet engineering: A review. <i>Annals of Physics</i> , 2021 , 168434	2.5	9
39	Microscopic investigation of Bi _{2-x} Sb _x Te _{3-y} Se _y systems: On the origin of a robust intrinsic topological insulator. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 128, 251-257	3.9	9
38	Thermal conductivity of local moment models with strong spin-orbit coupling. <i>Physical Review B</i> , 2017 , 95,	3.3	8
37	Terahertz Faraday and Kerr rotation spectroscopy of Bi _{1-x} Sb _x films in high magnetic fields up to 30 tesla. <i>Physical Review B</i> , 2019 , 100,	3.3	8
36	Floquet engineering of topological transitions in a twisted transition metal dichalcogenide homobilayer. <i>Physical Review B</i> , 2021 , 103,	3.3	8
35	Analog of Hamilton-Jacobi theory for the time-evolution operator. <i>Physical Review A</i> , 2019 , 100,	2.6	7
34	Multiorbital effects on thermoelectric properties of strongly correlated materials. <i>Physical Review B</i> , 2013 , 88,	3.3	7
33	Physics. How do you want that insulator?. <i>Science</i> , 2011 , 332, 546-7	3.3	7

32	Effective Hamiltonians for some highly frustrated magnets. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 145204	1.8	6
31	Pure Spin Current and Magnon Chemical Potential in a Nonequilibrium Magnetic Insulator. <i>Physical Review X</i> , 2020 , 10,	9.1	5
30	Short-ranged interaction effects on Z2 topological phase transitions. <i>Physical Review B</i> , 2014 , 90,	3.3	5
29	Visualizing quantum well state perturbations of metallic thin films near stacking fault defects. <i>Physical Review B</i> , 2010 , 81,	3.3	5
28	Electron-Phonon and Spin-Lattice Coupling in Atomically Thin Layers of MnBiTe. <i>Nano Letters</i> , 2021 , 21, 6139-6145	11.5	5
27	Floquet Hofstadter butterfly on the kagome and triangular lattices. <i>Physical Review B</i> , 2018 , 98,	3.3	5
26	Floquet topological transitions in extended Kane-Mele models with disorder. <i>Physical Review B</i> , 2018 , 98,	3.3	4
25	Comparative DMFT study of the eg-orbital Hubbard model in thin films. <i>Physical Review B</i> , 2014 , 89,	3.3	4
24	Floquet states in (LaNiO ₃) ₂ /(LaAlO ₃) _N heterostructures grown along the (111) direction. <i>Physical Review B</i> , 2017 , 95,	3.3	4
23	Singular responses of spin-incoherent Luttinger liquids. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 193201	1.8	4
22	Exact chiral spin liquids and mean-field perturbations of gamma matrix models on the ruby lattice. <i>New Journal of Physics</i> , 2012 , 14, 115029	2.9	4
21	Tunneling density of states, pair correlation, and Josephson current in spin-incoherent Luttinger-liquid/superconductor hybrid systems. <i>Physical Review B</i> , 2008 , 77,	3.3	4
20	Resummation of the Holstein-Primakoff expansion and differential equation approach to operator square roots. <i>Physical Review Research</i> , 2020 , 2,	3.9	4
19	Rare earths in a nutshell. <i>Physics Today</i> , 2020 , 73, 66-67	0.9	4
18	Behavior of superconductivity in a Pb/Ag heterostructure. <i>Physical Review B</i> , 2019 , 100,	3.3	3
17	Spin-selective thermalization plateau in the mass-imbalanced Hubbard model. <i>Physical Review B</i> , 2017 , 96,	3.3	3
16	Spatially anisotropic kagome antiferromagnet with Dzyaloshinskii-Moriya interaction. <i>Physical Review B</i> , 2012 , 85,	3.3	3
15	Nonequilibrium charge noise and dephasing from a spin-incoherent Luttinger liquid. <i>Physical Review B</i> , 2007 , 75,	3.3	3

14	Evidence of topological boundary modes with topological nodal-point superconductivity. <i>Nature Physics</i> ,	16.2	3
13	Group theory study of the vibrational modes and magnetic order in the topological antiferromagnet MnBi ₂ Te ₄ . <i>Physical Review B</i> , 2020 , 102,	3.3	3
12	Physics. Seeing quantum fractals. <i>Science</i> , 2010 , 327, 652-3	33.3	2
11	Non-Fermi-liquid quantum impurity physics from non-Abelian quantum Hall states. <i>Physical Review B</i> , 2011 , 84,	3.3	2
10	PTCDA Molecular Monolayer on Pb Thin Films: An Unusual π -Electron Kondo System and Its Interplay with a Quantum-Confined Superconductor. <i>Physical Review Letters</i> , 2021 , 127, 186805	7.4	2
9	Longitudinal spin Seebeck effect in pyrochlore iridates with bulk and interfacial Dzyaloshinskii-Moriya interaction. <i>Physical Review B</i> , 2020 , 101,	3.3	2
8	Momentum-space entanglement after a quench in one-dimensional disordered fermionic systems. <i>Physical Review B</i> , 2019 , 100,	3.3	2
7	Light-Driven Topological and Magnetic Phase Transitions in Thin Layer Antiferromagnets.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 4152-4158	6.4	2
6	Dynamical recovery of SU(2) symmetry in the mass-quenched Hubbard model. <i>Physical Review B</i> , 2018 , 97,	3.3	1
5	Junctions of spin-incoherent Luttinger liquids with ferromagnets and superconductors. <i>Physical Review B</i> , 2009 , 79,	3.3	1
4	Influence of Nanosize Hole Defects and their Geometric Arrangements on the Superfluid Density in Atomically Thin Single Crystals of Indium Superconductor. <i>Physical Review Letters</i> , 2021 , 127, 127003	7.4	1
3	Magnons and magnetic fluctuations in atomically thin MnBiTe.. <i>Nature Communications</i> , 2022 , 13, 2527	17.4	1
2	Magnetic Control of Soft Chiral Phonons in PbTe.. <i>Physical Review Letters</i> , 2022 , 128, 075901	7.4	0
1	Quantum materials out of equilibrium. <i>Physics Today</i> , 2022 , 75, 42-47	0.9	