

Mark H Fischer

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

4,432
citations

257450

24
h-index

144013

57
g-index

61
all docs

61
docs citations

61
times ranked

5192
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of many-body localization of interacting fermions in a quasirandom optical lattice. Science, 2015, 349, 842-845.	12.6	1,222
2	Spin-transfer torque generated by a topological insulator. Nature, 2014, 511, 449-451.	27.8	1,134
3	Signatures of Many-Body Localization in a Controlled Open Quantum System. Physical Review X, 2017, 7, .	8.9	169
4	Evidence for superconductivity with broken time-reversal symmetry in locally noncentrosymmetric SrPtAs. Physical Review B, 2013, 87, .	3.2	166
5	Topological superconductivity in monolayer transition metal dichalcogenides. Nature Communications, 2017, 8, 14985.	12.8	148
6	Chiral d -wave superconductivity in SrPtAs. Physical Review B, 2014, 89, .	3.2	139
7	$\sqrt{A} V^3$		

#	ARTICLE	IF	CITATIONS
19	Exceptional topological insulators. Nature Communications, 2021, 12, 5681.	12.8	43
20	Broken-Symmetry Ground States of the Heisenberg Model on the Pyrochlore Lattice. Physical Review X, 2021, 11, .	8.9	40
21	Identifying the 'fingerprint' of antiferromagnetic spin fluctuations in iron pnictide superconductors. Nature Physics, 2015, 11, 177-182.	16.7	35
22	Gap symmetry and stability analysis in the multi-orbital Fe-based superconductors. New Journal of Physics, 2013, 15, 073006.	2.9	26
23	Spin-orbit coupling in $\text{LaAlO}_3/\text{SrTiO}_3$ interfaces: magnetism and orbital ordering. New Journal of Physics, 2013, 15, 023022.	2.9	25
24	Unusual phase diagram of $\text{H}_x\text{T}_y\text{Ce}_z\text{Rh}_w$: The role of staggered noncentrosymmetry. Physical Review Research, 2021, 3, .	3.6	25
25	Effect of a staggered spin-orbit coupling on the occurrence of a nematic phase in $\text{Sr}_3\text{Ru}_2\text{O}_7$. Physical Review B, 2010, 81, .	3.2	24
26	Algorithmic Error Mitigation Scheme for Current Quantum Processors. Quantum - the Open Journal for Quantum Science, 0, 5, 492.	0.0	24
27	Superconductivity without Inversion and Time-Reversal Symmetries. Physical Review Letters, 2018, 121, 157003.	7.8	23
28	Direct evidence for Cooper pairing without a spectral gap in a disordered superconductor above T_c . Science, 2021, 374, 608-611.	12.6	23
29	Fluctuation and strain effects in a chiral p -wave superconductor. Physical Review B, 2016, 93, .	3.2	21
30	Dynamics of many-body localization in the presence of particle loss. Quantum Science and Technology, 2018, 3, 01LT02.	5.8	21
31	Nematic and spin-charge orders driven by hole-doping a charge-transfer insulator. New Journal of Physics, 2014, 16, 093057.	2.9	20
32	Symmetry and Gap Classification of Non-Symmorphic SrPtAs. Journal of the Physical Society of Japan, 2015, 84, .	1.6	20
33	Formation of heavy d-electron quasiparticles in $\text{Sr}_3\text{Ru}_2\text{O}_7$. New Journal of Physics, 2013, 15, 063029.	2.9	19
34	Spin response and topology of a staggered-Rashba superconductor. Physical Review Research, 2021, 3, .	3.6	19
35	Pressure-induced rotational symmetry breaking in URu_2Si_2 . Physical Review B, 2018, 98, .	2.2	18
36	Pairing Obstructions in Topological Superconductors. Physical Review Letters, 2020, 124, 247001.	7.8	18

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37	Localization Counteracts Decoherence in Noisy Floquet Topological Chains. Physical Review Letters, 2018, 120, 216801.	7.8	17
38	Fully Automated Identification of Two-Dimensional Material Samples. Physical Review Applied, 2020, 13, .	3.8	16
39	Deviation from Fermi-liquid transport behavior in the vicinity of a Van Hove singularity. Physical Review B, 2019, 99, .	3.2	14
40	Effects of surface-bulk hybridization in three-dimensional topological metals. Physical Review B, 2014, 89, .	3.2	13
41	Efficient learning of a one-dimensional density functional theory. Physical Review Research, 2020, 2, .	3.6	13
42	Superconducting proximity effect in topological metals. Physical Review B, 2014, 90, .	3.2	12
43	Uniaxial pressure induced stripe order rotation in La _{1.88} Sr _{0.12} CuO ₄ . Nature Communications, 2022, 13, 1795.	12.8	12
44	Electronic reconstruction forming a C ₂ -symmetric Dirac semimetal in Ca ₃ Ru ₂ O ₇ . Npj Quantum Materials, 2021, 6, .	5.2	11
45	Unveiling Unequivocal Charge Stripe Order in a Prototypical Cuprate Superconductor. Physical Review Letters, 2022, 128, .	7.8	11
46	Simulating a ring-like Hubbard system with a quantum computer. Physical Review Research, 2022, 4, .	3.6	10
47	Statistical periodicity in driven quantum systems: General formalism and application to noisy Floquet topological chains. Physical Review B, 2018, 98, .	3.2	9
48	Flat bands with fragile topology through superlattice engineering on single-layer graphene. Physical Review Research, 2021, 3, .	3.6	7
49	Towards a topological quantum chemistry description of correlated systems: The case of the Hubbard diamond chain. Physical Review B, 2021, 104, .	3.2	7
50	Creating better superconductors by periodic nanopatterning. SciPost Physics, 2017, 3, .	4.9	6
51	Particle statistics and lossy dynamics of ultracold atoms in optical lattices. Physical Review A, 2018, 97, .	2.5	4
52	Superconducting gap anisotropy and topological singularities due to lattice translational symmetry and their thermodynamic signatures. Physical Review B, 2019, 100, .	3.2	4
53	Slave-boson mean-field study of the dimensional crossover in Sr ₂ RuO ₄ . Journal of Physics: Conference Series, 2010, 200, 012034.	0.4	3
54	Signatures of unconventional pairing in near-vortex electronic structure of LiFeAs. New Journal of Physics, 2013, 15, 053048.	2.9	3

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55	Observation of semilocalized dispersive states in the strongly correlated electron-doped ferromagnet EuO . Physical Review B, 2016, 94, .	3.2	1
56	Role of topology and symmetry for the edge currents of a two-dimensional superconductor. Physical Review Research, 2022, 4, .	3.6	1
57	Dimensional crossover in Sr_2RuO_4 within a slave-boson mean-field theory. Europhysics Letters, 2009, 85, 27011.	2.0	0
58	Effects of spin-orbit coupling on the metamagnetic transition in $\text{Sr}_3\text{Ru}_2\text{O}_7$. , 2010, , .		0
59	Decoupling of lattice and orbital degrees of freedom in an iron-pnictide superconductor. Physical Review Research, 2021, 3, .	3.6	0