

Tamar Pereg-Barnea

List of Publications by Year in descending order

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44
papers

1,604
citations

394421

19
h-index

289244

40
g-index

44
all docs

44
docs citations

44
times ranked

1967
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmons and the spectral function of graphene. Physical Review B, 2008, 77, .	3.2	253
2	Chirality and Correlations in Graphene. Physical Review Letters, 2007, 98, 236601.	7.8	193
3	Theory of Interedge Superexchange in Zigzag Edge Magnetism. Physical Review Letters, 2009, 102, 227205.	7.8	141
4	Klein Tunneling in Deformed Honeycomb Lattices. Physical Review Letters, 2010, 104, 063901.	7.8	132
5	Phase-Dependent Chiral Transport and Effective Non-Hermitian Dynamics in a Bosonic Kitaev-Majorana Chain. Physical Review X, 2018, 8, .	8.9	109
6	Graphene: A pseudo-chiral Fermi liquid. Solid State Communications, 2007, 143, 58-62.	1.9	102
7	Absolute values of the London penetration depth in $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ measured by zero field ESR spectroscopy on Gd doped single crystals. Physical Review B, 2004, 69, .	3.2	76
8	Theory of quasiparticle interference patterns in the pseudogap phase of the cuprate superconductors. Physical Review B, 2003, 68, .	3.2	59
9	Magnetic structure of GdBiPt : A candidate antiferromagnetic topological insulator. Physical Review B, 2014, 90, .	3.2	57
10	Photon-Inhibited Topological Transport in Quantum Well Heterostructures. Physical Review Letters, 2015, 115, 106403.	7.8	40
11	Edge-state transport in Floquet topological insulators. Physical Review B, 2016, 93, .	3.2	40
12	Quantum oscillations from Fermi arcs. Nature Physics, 2010, 6, 44-49.	16.7	36
13	Topologically protected braiding in a single wire using Floquet Majorana modes. Physical Review B, 2019, 100, .	3.2	33
14	Magnetic-field dependence of quasiparticle interference peaks in a d -wave superconductor with weak disorder. Physical Review B, 2008, 78, .	3.2	31
15	Chiral quasiparticle local density of states maps in graphene. Physical Review B, 2008, 78, .	3.2	26
16	Metastable I^{\pm} Junction between an s -Wave and an s -Wave Superconductor. Physical Review Letters, 2011, 106, 067001.	7.8	23
17	QUASIPARTICLE INTERFERENCE PATTERNS AS A TEST FOR THE NATURE OF THE PSEUDOGAP PHASE IN THE CUPRATE SUPERCONDUCTORS. International Journal of Modern Physics B, 2005, 19, 731-761.	2.0	20
18	Inducing topological order in a honeycomb lattice. Physical Review B, 2012, 85, .	3.2	20

#	ARTICLE	IF	CITATIONS
19	Anderson topological superconductor. Physical Review B, 2016, 93, .	3.2	20
20	Linear response theory and optical conductivity of Floquet topological insulators. Physical Review B, 2020, 101, .	3.2	19
21	Strong coupling expansion of the extended Hubbard model with spin-orbit coupling. Physical Review B, 2014, 89, .	3.2	18
22	Dirac cones, Floquet side bands, and theory of time-resolved angle-resolved photoemission. Physical Review B, 2016, 94, .	3.2	17
23	Entanglement spectrum as a probe for the topology of a spin-orbit-coupled superconductor. Physical Review B, 2014, 90, .	3.2	16
24	Probing order parameter structure in iron-based superconductors using vortices. Physical Review B, 2010, 81, .	3.2	14
25	Topological superconductivity without proximity effect. Physical Review B, 2013, 87, .	3.2	11
26	The Origin of T _c Enhancement in Heterostructure Cuprate Superconductors. Materials, 2011, 4, 1835-1845.	2.9	10
27	Tunable skyrmion-skyrmion binding on the surface of a topological insulator. Physical Review B, 2019, 100, .	3.2	9
28	Andreev edge state on semi-infinite triangular lattice: Detecting the pairing symmetry in Na _{0.35} CoO ₂ ·yH ₂ O. Europhysics Letters, 2005, 69, 791-797.	2.0	8
29	Duality and the vibrational modes of a Cooper-pair Wigner crystal. Physical Review B, 2006, 74, .	3.2	8
30	Berry phase in cuprate superconductors. Physical Review B, 2015, 91, .	3.2	8
31	Magnetoconductance signatures of chiral domain-wall bound states in magnetic topological insulators. Physical Review B, 2017, 96, .	3.2	8
32	Transport through a disordered topological-metal strip. Physical Review B, 2013, 87, .	3.2	7
33	Zeeman-field-induced nontrivial topology in a spin-orbit-coupled superconductor. Physical Review B, 2014, 90, .	3.2	7
34	Revisiting π phase slip suppression in topological Josephson junctions. Physical Review B, 2019, 99, .	3.2	6
35	Modeling multiorbital effects in Sr ₂ under strain and a Zeeman field. Physical Review B, 2021, 103, .	3.2	5
36	Second-order topological insulator under strong magnetic field: Landau levels, Zeeman effect, and magnetotransport. Physical Review Research, 2020, 2, .	3.6	5

#	ARTICLE	IF	CITATIONS
37	Quasiparticle interference patterns in a topological superconductor. Physical Review B, 2015, 91, .	3.2	4
38	Magnetic skyrmion crystal at a topological insulator surface. Physical Review B, 2022, 105, .	3.2	3
39	Dynamical approach to improving Majorana qubits and distinguishing them from trivial bound states. Physical Review B, 2022, 105, .	3.2	3
40	Effects of order parameter self-consistency in a \hat{H}_2 Physical Review B, 2016, 93, .	3.2	2
41	Incommensurate spin density wave as a signature of spin-orbit coupling and precursor of topological superconductivity. Physical Review B, 2016, 94, .	3.2	2
42	Analytic expression for the entanglement entropy of a two-dimensional topological superconductor. Physical Review B, 2017, 95, .	3.2	2
43	Surface theory of a second-order topological insulator beyond the Dirac approximation. Physical Review B, 2021, 104, .	3.2	1
44	Renormalization-group-inspired neural networks for computing topological invariants. Physical Review B, 2022, 105, .	3.2	1