

# Tamar Pereg-Barnea

## List of Publications by Year in descending order

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44  
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394421

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citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic skyrmion crystal at a topological insulator surface. Physical Review B, 2022, 105, .	3.2	3
2	Dynamical approach to improving Majorana qubits and distinguishing them from trivial bound states. Physical Review B, 2022, 105, .	3.2	3
3	Renormalization-group-inspired neural networks for computing topological invariants. Physical Review B, 2022, 105, .	3.2	1
4	Modeling multiorbital effects in $\langle \text{mml:math} \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML"> \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \text{Sr} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \text{2} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{ under strain and a Zeeman field. Physical Review B, 2021, 103, .$	3.2	1
5	Surface theory of a second-order topological insulator beyond the Dirac approximation. Physical Review B, 2021, 104, .	3.2	1
6	Linear response theory and optical conductivity of Floquet topological insulators. Physical Review B, 2020, 101, .	3.2	19
7	Second-order topological insulator under strong magnetic field: Landau levels, Zeeman effect, and magnetotransport. Physical Review Research, 2020, 2, .	3.6	5
8	Topologically protected braiding in a single wire using Floquet Majorana modes. Physical Review B, 2019, 100, .	3.2	33
9	Tunable skyrmion-skyrmion binding on the surface of a topological insulator. Physical Review B, 2019, 100, .	3.2	9
10	Revisiting $\langle \text{mml:math} \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML"> \langle \text{mml:mrow} \langle \text{mml:mn} \text{2} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{€} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{ phase slip suppression in topological Josephson junctions. Physical Review B, 2019, 99, .$	3.2	2
11	Phase-Dependent Chiral Transport and Effective Non-Hermitian Dynamics in a Bosonic Kitaev-Majorana Chain. Physical Review X, 2018, 8, .	8.9	109
12	Analytic expression for the entanglement entropy of a two-dimensional topological superconductor. Physical Review B, 2017, 95, .	3.2	2
13	Magnetoconductance signatures of chiral domain-wall bound states in magnetic topological insulators. Physical Review B, 2017, 96, .	3.2	8
14	Edge-state transport in Floquet topological insulators. Physical Review B, 2016, 93, .	3.2	40
15	Anderson topological superconductor. Physical Review B, 2016, 93, .	3.2	20
16	Effects of order parameter self-consistency in a $\langle \text{mml:math} \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML"> \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \text{s} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \text{^} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{ Physical Review B, 2016, 93, .$	3.2	2
17	Incommensurate spin density wave as a signature of spin-orbit coupling and precursor of topological superconductivity. Physical Review B, 2016, 94, .	3.2	2
18	Dirac cones, Floquet side bands, and theory of time-resolved angle-resolved photoemission. Physical Review B, 2016, 94, .	3.2	17

#	ARTICLE	IF	CITATIONS
19	Quasiparticle interference patterns in a topological superconductor. Physical Review B, 2015, 91, .	3.2	4
20	Photon-Inhibited Topological Transport in Quantum Well Heterostructures. Physical Review Letters, 2015, 115, 106403.	7.8	40
21	Berry phase in cuprate superconductors. Physical Review B, 2015, 91, .	3.2	8
22	Entanglement spectrum as a probe for the topology of a spin-orbit-coupled superconductor. Physical Review B, 2014, 90, .	3.2	16
23	Zeeman-field-induced nontrivial topology in a spin-orbit-coupled superconductor. Physical Review B, 2014, 90, .	3.2	7
24	Strong coupling expansion of the extended Hubbard model with spin-orbit coupling. Physical Review B, 2014, 89, .	3.2	18
25	Magnetic structure of GdBiPt: A candidate antiferromagnetic topological insulator. Physical Review B, 2014, 90, .	3.2	57
26	Transport through a disordered topological-metal strip. Physical Review B, 2013, 87, .	3.2	7
27	Topological superconductivity without proximity effect. Physical Review B, 2013, 87, .	3.2	11
28	Inducing topological order in a honeycomb lattice. Physical Review B, 2012, 85, .	3.2	20
29	The Origin of $T_c$ Enhancement in Heterostructure Cuprate Superconductors. Materials, 2011, 4, 1835-1845.	2.9	10
30	Metastable $\mathbb{Z}_2$ Anomalous Junction between an $s$ -Wave and an $s$ -Wave Superconductor. Physical Review Letters, 2011, $s$ -Wave Superconductor. Physical Review Letters, 2011, $s$ -Wave Superconductor.	7.8	23
31	Quantum oscillations from Fermi arcs. Nature Physics, 2010, 6, 44-49.	16.7	36
32	Probing order parameter structure in iron-based superconductors using vortices. Physical Review B, 2010, 81, .	3.2	14
33	Klein Tunneling in Deformed Honeycomb Lattices. Physical Review Letters, 2010, 104, 063901.	7.8	132
34	Theory of Interedge Superexchange in Zigzag Edge Magnetism. Physical Review Letters, 2009, 102, 227205.	7.8	141
35	Plasmons and the spectral function of graphene. Physical Review B, 2008, 77, .	3.2	253
36	Magnetic-field dependence of quasiparticle interference peaks in a $d$ -wave superconductor with weak disorder. Physical Review B, 2008, 78, .	3.2	31

#	ARTICLE	IF	CITATIONS
37	Chiral quasiparticle local density of states maps in graphene. Physical Review B, 2008, 78, .	3.2	26
38	Chirality and Correlations in Graphene. Physical Review Letters, 2007, 98, 236601.	7.8	193
39	Graphene: A pseudochiral Fermi liquid. Solid State Communications, 2007, 143, 58-62.	1.9	102
40	Duality and the vibrational modes of a Cooper-pair Wigner crystal. Physical Review B, 2006, 74, .	3.2	8
41	Andreev edge state on semi-infinite triangular lattice: Detecting the pairing symmetry in Na <sub>0.35</sub> CoO <sub>2</sub> ·xH <sub>2</sub> O. Europhysics Letters, 2005, 69, 791-797.	2.0	8
42	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
43	Absolute values of the London penetration depth in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+x</sub> measured by zero field ESR spectroscopy on Gd doped single crystals. Physical Review B, 2004, 69, .	3.2	76
44	Theory of quasiparticle interference patterns in the pseudogap phase of the cuprate superconductors. Physical Review B, 2003, 68, .	3.2	59