

Babak Seradjeh

List of Publications by Year in Descending Order

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Version: 2024-04-27

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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.

35
papers

1,134
citations

17
h-index

33
g-index

38
ext. papers

1,354
ext. citations

6.1
avg, IF

4.98
L-index

#	Paper	IF	Citations
35	Dirac Magic and Lifshitz Transitions in AA-Stacked Twisted Multilayer Graphene.. <i>Physical Review Letters</i> , 2022 , 128, 026404	7.4	1
34	Floquet Gauge Pumps as Sensors for Spectral Degeneracies Protected by Symmetry or Topology. <i>Physical Review Letters</i> , 2021 , 126, 206602	7.4	
33	Linear response theory and optical conductivity of Floquet topological insulators. <i>Physical Review B</i> , 2020 , 101,	3.3	8
32	Floquet-engineered topological flat bands in irradiated twisted bilayer graphene. <i>Physical Review Research</i> , 2020 , 2,	3.9	9
31	Higher-order Floquet topological phases with corner and bulk bound states. <i>Physical Review B</i> , 2019 , 100,	3.3	48
30	How to Directly Measure Floquet Topological Invariants in Optical Lattices. <i>Physical Review Letters</i> , 2019 , 122, 253601	7.4	14
29	Surface spectra of Weyl semimetals through self-adjoint extensions. <i>Physical Review B</i> , 2018 , 97,	3.3	3
28	Quantum noise detects Floquet topological phases. <i>Physical Review B</i> , 2018 , 98,	3.3	8
27	Universal Fluctuations of Floquet Topological Invariants at Low Frequencies. <i>Physical Review Letters</i> , 2018 , 121, 036402	7.4	27
26	Floquet perturbation theory: formalism and application to low-frequency limit. <i>New Journal of Physics</i> , 2018 , 20, 093022	2.9	31
25	Optimal diabatic dynamics of Majorana-based quantum gates. <i>Physical Review B</i> , 2017 , 96,	3.3	11
24	Non-Abelian fermion parity interferometry of Majorana bound states in a Fermi sea. <i>Physical Review B</i> , 2017 , 95,	3.3	7
23	Floquet-Engineered Valleytronics in Dirac Systems. <i>Physical Review Letters</i> , 2016 , 116, 016802	7.4	43
22	On the role of self-adjointness in the continuum formulation of topological quantum phases. <i>American Journal of Physics</i> , 2016 , 84, 858-868	0.7	11
21	Effective theory of vortices in two-dimensional spinless chiral p-wave superfluids. <i>Physical Review B</i> , 2015 , 92,	3.3	7
20	Enhanced weak ferromagnetism and conductivity in hole-doped pyrochlore iridate Y ₂ Ir ₂ O ₇ . <i>Physical Review B</i> , 2014 , 90,	3.3	56
19	Tunable Floquet Majorana fermions in driven coupled quantum dots. <i>Physical Review B</i> , 2014 , 90,	3.3	25

18	Effective theory of Floquet topological transitions. <i>Physical Review Letters</i> , 2014 , 113, 236803	7.4	115
17	Zero modes of the generalized fermion-vortex system in a magnetic field. <i>Physical Review B</i> , 2014 , 89,	3.3	6
16	Transport signatures of Floquet Majorana fermions in driven topological superconductors. <i>Physical Review Letters</i> , 2013 , 111, 136402	7.4	156
15	Majorana edge modes of topological exciton condensate with superconductors. <i>Physical Review B</i> , 2012 , 86,	3.3	17
14	Topological exciton condensate of imbalanced electrons and holes. <i>Physical Review B</i> , 2012 , 85,	3.3	15
13	Proposed Aharonov-Casher interference measurement of non-Abelian vortices in chiral p-wave superconductors. <i>Physical Review B</i> , 2011 , 83,	3.3	24
12	Unpaired Majorana fermions in a layered topological superconductor. <i>Physical Review B</i> , 2011 , 83,	3.3	16
11	Are we home yet?. <i>Nature</i> , 2011 , 469, 1-1	50.4	1
10	Seradjeh, Wu, and Phillips Reply:. <i>Physical Review Letters</i> , 2010 , 104,	7.4	2
9	Creation and manipulation of anyons in a layered superconductorTwo-dimensional electron gas system. <i>Physical Review B</i> , 2009 , 79,	3.3	12
8	Exciton condensation and charge fractionalization in a topological insulator film. <i>Physical Review Letters</i> , 2009 , 103, 066402	7.4	212
7	Signatures of surface states in bismuth at high magnetic fields. <i>Physical Review Letters</i> , 2009 , 103, 136803	7.4	23
6	Midgap spectrum of the fermion-vortex system. <i>Nuclear Physics B</i> , 2008 , 805, 182-189	2.8	11
5	Vortices, zero modes, and fractionalization in the bilayer-graphene exciton condensate. <i>Physical Review Letters</i> , 2008 , 101, 246404	7.4	38
4	Fractional statistics of topological defects in graphene and related structures. <i>Physical Review Letters</i> , 2008 , 101, 146401	7.4	29
3	Fractionalization in a square-lattice model with time-reversal symmetry. <i>Physical Review B</i> , 2008 , 77,	3.3	43
2	Anyons in a weakly interacting system. <i>Nature Physics</i> , 2007 , 3, 796-801	16.2	46
1	Permanent confinement in the compact QED3 with fermionic matter. <i>Physical Review Letters</i> , 2003 , 91, 171601	7.4	58

