

Nicholas Sedlmayr

List of Publications by Year in Descending Order

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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.

40
papers

402
citations

11
h-index

18
g-index

46
ext. papers

534
ext. citations

2.8
avg, IF

4.11
L-index

#	Paper	IF	Citations
40	Hybridization mechanism of the dual proximity effect in superconductor/topological insulator interfaces. <i>Solid State Communications</i> , 2021 , 327, 114221	1.6	1
39	Majorana bound states in a superconducting Rashba nanowire in the presence of antiferromagnetic order. <i>Physical Review B</i> , 2021 , 103,	3.3	1
38	Analytical and semianalytical tools to determine the topological character of Shiba chains. <i>Physical Review B</i> , 2021 , 104,	3.3	1
37	Dimerization-induced topological superconductivity in a Rashba nanowire. <i>Physical Review B</i> , 2020 , 101,	3.3	4
36	Chiral Hall effect in the kink states in topological insulators with magnetic domain walls. <i>Physical Review B</i> , 2020 , 101,	3.3	2
35	Quasiperiodic dynamical quantum phase transitions in multiband topological insulators and connections with entanglement entropy and fidelity susceptibility. <i>Physical Review B</i> , 2020 , 101,	3.3	8
34	How to measure the Majorana polarization of a topological planar Josephson junction. <i>Physical Review B</i> , 2020 , 102,	3.3	3
33	Scaling of intrinsic domain wall magnetoresistance with confinement in electromigrated nanocontacts. <i>Physical Review B</i> , 2019 , 99,	3.3	6
32	Dynamical Phase Transitions in Topological Insulators. <i>Acta Physica Polonica A</i> , 2019 , 135, 1191-1197	0.6	5
31	Current Induced Dynamics of One-Dimensional Skyrmions. <i>Acta Physica Polonica A</i> , 2019 , 135, 1268-1270.	0.6	0
30	Bulk-boundary correspondence for dynamical phase transitions in one-dimensional topological insulators and superconductors. <i>Physical Review B</i> , 2018 , 97,	3.3	25
29	Fate of dynamical phase transitions at finite temperatures and in open systems. <i>Physical Review B</i> , 2018 , 97,	3.3	22
28	Bulk boundary correspondence and the existence of Majorana bound states on the edges of 2D topological superconductors. <i>Physical Review B</i> , 2017 , 96,	3.3	11
27	Majorana bound states in open quasi-one-dimensional and two-dimensional systems with transverse Rashba coupling. <i>Physical Review B</i> , 2016 , 93,	3.3	29
26	Scanning tunneling microscopy of superconducting topological surface states in Bi ₂ Se ₃ . <i>Physical Review B</i> , 2016 , 93,	3.3	6
25	Universal fidelity near quantum and topological phase transitions in finite one-dimensional systems. <i>Physical Review B</i> , 2016 , 93,	3.3	11
24	Signature of a topological phase transition in long SN junctions in the spin-polarized density of states. <i>Europhysics Letters</i> , 2016 , 115, 47005	1.6	9

23	Conductance in inhomogeneous quantum wires: Luttinger liquid predictions and quantum Monte Carlo results. <i>Physical Review B</i> , 2016 , 94,	3.3	7
22	Flat Majorana bands in two-dimensional lattices with inhomogeneous magnetic fields: Topology and stability. <i>Physical Review B</i> , 2015 , 91,	3.3	28
21	Visualizing Majorana bound states in one and two dimensions using the generalized Majorana polarization. <i>Physical Review B</i> , 2015 , 92,	3.3	32
20	Majoranas with and without a characteric hybridization, braiding and chiral Majorana number. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 455601	1.8	7
19	Locality and thermalization in closed quantum systems. <i>Physical Review A</i> , 2014 , 89,	2.6	40
18	Boundary fidelity and entanglement in the symmetry protected topological phase of the SSH model. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014 , 2014, P10032	1.9	35
17	Dynamics of the polarization of a pinned domain wall in a magnetic nanowire. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 235-238	1.3	1
16	Conducting fixed points for inhomogeneous quantum wires: A conformally invariant boundary theory. <i>Physical Review B</i> , 2014 , 89,	3.3	9
15	Closed and open system dynamics in a fermionic chain with a microscopically specified bath: relaxation and thermalization. <i>Physical Review Letters</i> , 2013 , 110, 100406	7.4	11
14	Theory of the conductance of interacting quantum wires with good contacts and applications to carbon nanotubes. <i>Physical Review B</i> , 2013 , 87,	3.3	5
13	Two-band Luttinger liquid with spin-orbit coupling: Applications to monatomic chains on surfaces. <i>Physical Review B</i> , 2013 , 88,	3.3	7
12	Transport and scattering in inhomogeneous quantum wires. <i>Physical Review B</i> , 2012 , 86,	3.3	16
11	Particle injection into a chain: decoherence versus relaxation for Hermitian and non-Hermitian dynamics. <i>Annalen Der Physik</i> , 2012 , 524, 286-301	2.6	5
10	Negative differential magnetoresistance in ferromagnetic wires with domain walls. <i>Physical Review B</i> , 2012 , 86,	3.3	2
9	Non-collinear ferromagnetic Luttinger liquids. <i>Journal of Physics: Conference Series</i> , 2011 , 303, 012107	0.3	
8	Indirect interaction of magnetic domain walls. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 450-452	1.5	2
7	Spin-density waves and domain wall interactions in nanowires. <i>Physical Review B</i> , 2011 , 83,	3.3	6
6	Electron scattering from domain walls in ferromagnetic Luttinger liquids. <i>Physical Review B</i> , 2011 , 84,	3.3	10

5	Spin and charge transport through non-collinear magnetic nanowires. <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 1419-1421	2.8	3
4	Role of non-collinear magnetization: From ferromagnetic nanowires to quantum rings. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2603-2609	1.3	2
3	Current-induced interactions of multiple domain walls in magnetic quantum wires. <i>Physical Review B</i> , 2009 , 79,	3.3	13
2	Transport properties of an interacting quantum dot with a non-uniform magnetization. <i>Europhysics Letters</i> , 2008 , 83, 57003	1.6	3
1	Tunnelling density of states at Coulomb-blockade peaks. <i>Europhysics Letters</i> , 2006 , 76, 109-114	1.6	14