

Benedikt Scharf

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,247
citations

430754

18
h-index

454834

30
g-index

30
all docs

30
docs citations

30
times ranked

1736
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological superconductivity in a phase-controlled Josephson junction. Nature, 2019, 569, 93-98.	13.7	225
2	Proximitized materials. Materials Today, 2019, 22, 85-107.	8.3	206
3	Magnetic Proximity Effects in Transition-Metal Dichalcogenides: Converting Excitons. Physical Review Letters, 2017, 119, 127403.	2.9	111
4	Wireless Majorana Bound States: From Magnetic Tunability to Braiding. Physical Review Letters, 2016, 117, 077002.	2.9	59
5	Probing many-body interactions in monolayer transition-metal dichalcogenides. Physical Review B, 2019, 99, .	1.1	56
6	Magnetic properties of HgTe quantum wells. Physical Review B, 2012, 86, .	1.1	54
7	Excitonic Stark effect in MoS_2 . Physical Review B, 2016, 94, .	1.1	48
8	Coulomb drag between massless and massive fermions. Physical Review B, 2012, 86, .	1.1	46
9	Effects of optical and surface polar phonons on the optical conductivity of doped graphene. Physical Review B, 2013, 87, .	1.1	44
10	Magneto-optical conductivity of graphene on polar substrates. Physical Review B, 2013, 88, .	1.1	43
11	Marrying Excitons and Plasmons in Monolayer Transition-Metal Dichalcogenides. Physical Review X, 2017, 7, .	2.8	41
12	Dynamical screening in monolayer transition-metal dichalcogenides and its manifestations in the exciton spectrum. Journal of Physics Condensed Matter, 2019, 31, 203001.	0.7	38
13	Tunable magnetic textures: From Majorana bound states to braiding. Solid State Communications, 2017, 262, 1-6.	0.9	37
14	Theory of thermal spin-charge coupling in electronic systems. Physical Review B, 2012, 85, .	1.1	33
15	Tunneling Planar Hall Effect in Topological Insulators: Spin Valves and Amplifiers. Physical Review Letters, 2016, 117, 166806.	2.9	33
16	Testing topological protection of edge states in hexagonal quantum spin Hall candidate materials. Physical Review B, 2018, 98, .	1.1	32
17	Tuning topological superconductivity in phase-controlled Josephson junctions with Rashba and Dresselhaus spin-orbit coupling. Physical Review B, 2019, 99, .	1.1	31
18	Optically Probing Tunable Band Topology in Atomic Monolayers. Physical Review Letters, 2020, 125, 157402.	2.9	21

#	ARTICLE	IF	CITATIONS
19	Probing topological transitions in HgTe/CdTe quantum wells by magneto-optical measurements. Physical Review B, 2015, 91, .	1.1	18
20	Probing Majorana-like states in quantum dots and quantum rings. Physical Review B, 2015, 91, .	1.1	14
21	Common nonlinear features and spin-orbit coupling effects in the Zeeman splitting of novel wurtzite materials. Physical Review B, 2019, 99, .	1.1	13
22	Topological Josephson heat engine. Communications Physics, 2020, 3, .	2.0	13
23	Crystalline anisotropic topological superconductivity in planar Josephson junctions. Physical Review Research, 2021, 3, .	1.3	8
24	Planar Josephson Hall effect in topological Josephson junctions. Physical Review B, 2021, 103, .	1.1	6
25	Charge density wave activated excitons in TiSe ₂ –MoSe ₂ heterostructures. APL Materials, 2022, 10, .	2.2	6
26	Resonant tunneling anisotropic magnetoresistance induced by magnetic proximity. Physical Review B, 2020, 102, .	1.1	4
27	Thermodynamics in topological Josephson junctions. Physical Review Research, 2021, 3, .	1.3	3
28	Quantized phase-coherent heat transport of counterpropagating Majorana modes. Physical Review B, 2021, 104, .	1.1	2
29	Nanoelectronics with proximitized materials. Solid-State Electronics, 2019, 155, 93-98.	0.8	1
30	Crystalline Weyl semimetal phase in Quantum Spin Hall systems under magnetic fields. SciPost Physics Core, 2022, 5, .	0.9	1