

Benedikt Scharf

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,247
citations

489802

18
h-index

511568

30
g-index

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all docs

30
docs citations

30
times ranked

1939
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge density wave activated excitons in TiSe ₂ –MoSe ₂ heterostructures. <i>APL Materials</i> , 2022, 10, .	2.2	6
2	Crystalline Weyl semimetal phase in Quantum Spin Hall systems under magnetic fields. <i>SciPost Physics Core</i> , 2022, 5, .	0.9	1
3	Crystalline anisotropic topological superconductivity in planar Josephson junctions. <i>Physical Review Research</i> , 2021, 3, .	1.3	8
4	Planar Josephson Hall effect in topological Josephson junctions. <i>Physical Review B</i> , 2021, 103, .	1.1	6
5	Thermodynamics in topological Josephson junctions. <i>Physical Review Research</i> , 2021, 3, .	1.3	3
6	Quantized phase-coherent heat transport of counterpropagating Majorana modes. <i>Physical Review B</i> , 2021, 104, .	1.1	2
7	Optically Probing Tunable Band Topology in Atomic Monolayers. <i>Physical Review Letters</i> , 2020, 125, 157402.	2.9	21
8	Resonant tunneling anisotropic magnetoresistance induced by magnetic proximity. <i>Physical Review B</i> , 2020, 102, .	1.1	4
9	Topological Josephson heat engine. <i>Communications Physics</i> , 2020, 3, .	2.0	13
10	Proximitized materials. <i>Materials Today</i> , 2019, 22, 85-107.	8.3	206
11	Probing many-body interactions in monolayer transition-metal dichalcogenides. <i>Physical Review B</i> , 2019, 99, .	1.1	56
12	Tuning topological superconductivity in phase-controlled Josephson junctions with Rashba and Dresselhaus spin-orbit coupling. <i>Physical Review B</i> , 2019, 99, .	1.1	31
13	Common nonlinear features and spin-orbit coupling effects in the Zeeman splitting of novel wurtzite materials. <i>Physical Review B</i> , 2019, 99, .	1.1	13
14	Topological superconductivity in a phase-controlled Josephson junction. <i>Nature</i> , 2019, 569, 93-98.	13.7	225
15	Nanoelectronics with proximitized materials. <i>Solid-State Electronics</i> , 2019, 155, 93-98.	0.8	1
16	Dynamical screening in monolayer transition-metal dichalcogenides and its manifestations in the exciton spectrum. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 203001.	0.7	38
17	Testing topological protection of edge states in hexagonal quantum spin Hall candidate materials. <i>Physical Review B</i> , 2018, 98, .	1.1	32
18	Magnetic Proximity Effects in Transition-Metal Dichalcogenides: Converting Excitons. <i>Physical Review Letters</i> , 2017, 119, 127403.	2.9	111

#	ARTICLE	IF	CITATIONS
19	Marrying Excitons and Plasmons in Monolayer Transition-Metal Dichalcogenides. <i>Physical Review X</i> , 2017, 7, .	2.8	41
20	Tunable magnetic textures: From Majorana bound states to braiding. <i>Solid State Communications</i> , 2017, 262, 1-6.	0.9	37
21	Excitonic Stark effect in MoS_2 . <i>Physical Review B</i> , 2016, 94, .		
22	Wireless Majorana Bound States: From Magnetic Tunability to Braiding. <i>Physical Review Letters</i> , 2016, 117, 077002.	2.9	59
23	Tunneling Planar Hall Effect in Topological Insulators: Spin Valves and Amplifiers. <i>Physical Review Letters</i> , 2016, 117, 166806.	2.9	33
24	Probing Majorana-like states in quantum dots and quantum rings. <i>Physical Review B</i> , 2015, 91, .	1.1	14
25	Probing topological transitions in HgTe/CdTe quantum wells by magneto-optical measurements. <i>Physical Review B</i> , 2015, 91, .	1.1	18
26	Magneto-optical conductivity of graphene on polar substrates. <i>Physical Review B</i> , 2013, 88, .	1.1	43
27	Effects of optical and surface polar phonons on the optical conductivity of doped graphene. <i>Physical Review B</i> , 2013, 87, .	1.1	44
28	Theory of thermal spin-charge coupling in electronic systems. <i>Physical Review B</i> , 2012, 85, .	1.1	33
29	Coulomb drag between massless and massive fermions. <i>Physical Review B</i> , 2012, 86, .	1.1	46
30	Magnetic properties of HgTe quantum wells. <i>Physical Review B</i> , 2012, 86, .	1.1	54