

Fabrizio Nichele

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

2,139
citations

257450

24
h-index

377865

34
g-index

35
all docs

35
docs citations

35
times ranked

1822
citing authors

#	ARTICLE	IF	CITATIONS
1	Scaling of Majorana Zero-Bias Conductance Peaks. Physical Review Letters, 2017, 119, 136803.	7.8	338
2	Evidence of topological superconductivity in planar Josephson junctions. Nature, 2019, 569, 89-92.	27.8	261
3	Two-dimensional epitaxial superconductor-semiconductor heterostructures: A platform for topological superconducting networks. Physical Review B, 2016, 93, .	3.2	211
4	Zero-Energy Modes from Coalescing Andreev States in a Two-Dimensional Semiconductor-Superconductor Hybrid Platform. Physical Review Letters, 2017, 119, 176805.	7.8	182
5	Quantized conductance doubling and hard gap in a two-dimensional semiconductor-superconductor heterostructure. Nature Communications, 2016, 7, 12841.	12.8	146
6	Transparent Semiconductor-Superconductor Interface and Induced Gap in an Epitaxial Heterostructure Josephson Junction. Physical Review Applied, 2017, 7, .	3.8	104
7	Edge transport in the trivial phase of InAs/GaSb. New Journal of Physics, 2016, 18, 083005.	2.9	103
8	Superconducting, insulating and anomalous metallic regimes in a gated two-dimensional semiconductor-superconductor array. Nature Physics, 2018, 14, 1138-1144.	16.7	68
9	Anomalous Fraunhofer interference in epitaxial superconductor-semiconductor Josephson junctions. Physical Review B, 2017, 95, .	3.2	63
10	Relating Andreev Bound States and Supercurrents in Hybrid Josephson Junctions. Physical Review Letters, 2020, 124, 226801.	7.8	53
11	Insulating State and Giant Nonlocal Response in an InAs/GaSb Quantum Well in the Quantum Hall Regime. Physical Review Letters, 2014, 112, 036802.	7.8	50
12	Quantized Conductance and Large g -Factor Anisotropy in InSb Quantum Point Contacts. Nano Letters, 2016, 16, 7509-7513.	9.1	49
13	A superconducting switch actuated by injection of high-energy electrons. Nature Communications, 2021, 12, 1266.	12.8	40
14	Coherent transport through a Majorana island in an Aharonov-Bohm interferometer. Nature Communications, 2020, 11, 3212.	12.8	39
15	Decoupling Edge Versus Bulk Conductance in the Trivial Regime of an InAs/GaSb Quantum Well Using Corbino Ring Geometry. Physical Review Letters, 2016, 117, 077701.	7.8	38
16	Transport Studies of Epi-Al/InAs Two-Dimensional Electron Gas Systems for Required Building-Blocks in Topological Superconductor Networks. Nano Letters, 2019, 19, 3083-3090.	9.1	38
17	Hybridization of Subgap States in One-Dimensional Superconductor-Semiconductor Coulomb Islands. Physical Review Letters, 2018, 121, 256803.	7.8	34
18	Spin-orbit splitting and effective masses in p -type GaAs two-dimensional hole gases. Physical Review B, 2014, 89, .	3.2	33

#	ARTICLE	IF	CITATIONS
19	Effects of spin-orbit coupling and spatial symmetries on the Josephson current in SNS junctions. Physical Review B, 2016, 93, .	3.2	33
20	Giant Spin-Orbit Splitting in Inverted InAs/GaSb Quantum Wells. Physical Review Letters, 2017, 118, 016801.	10.0	33
21	A Graphene Nanoribbon Memory Cell. Small, 2010, 6, 2822-2825.	10.0	32
22	Spin-orbit interaction in a dual gated InAs/GaSb quantum well. Physical Review B, 2017, 96, .	3.2	31
23	Suppression of bulk conductivity in InAs/GaSb broken gap composite quantum wells. Applied Physics Letters, 2013, 103, 112102.	3.3	28
24	Characterization of Spin-Orbit Interactions of GaAs Heavy Holes Using a Quantum Point Contact. Physical Review Letters, 2014, 113, 046801.	7.8	25
25	Counting statistics of hole transfer in a p -type GaAs quantum dot with dense excitation spectrum. Physical Review B, 2013, 88, .	3.2	21
26	Generation and Detection of Spin Currents in Semiconductor Nanostructures with Strong Spin-Orbit Interaction. Physical Review Letters, 2015, 114, 206601.	7.8	18
27	Out-of-equilibrium phonons in gated superconducting switches. Nature Electronics, 2022, 5, 71-77.	26.0	18
28	Proximity Effect Transfer from NbTi into a Semiconductor Heterostructure via Epitaxial Aluminum. Nano Letters, 2017, 17, 1200-1203.	9.1	15
29	Anodic oxidation of epitaxial superconductor-semiconductor hybrids. Physical Review Materials, 2021, 5, .	2.4	8
30	Data storage: A Graphene Nanoribbon Memory Cell (Small 24/2010). Small, 2010, 6, 2821-2821.	10.0	5
31	Aharonov-Bohm rings with strong spin-orbit interaction: the role of sample-specific properties. New Journal of Physics, 2013, 15, 033029.	2.9	4
32	Publisher's Note: Two-dimensional epitaxial superconductor-semiconductor heterostructures: A platform for topological superconducting networks [Phys. Rev. B, 93, 155402 (2016)]. Physical Review B, 2016, 93, .	3.2	3
33	Nonlinear spin filter for nonmagnetic materials at zero magnetic field. Physical Review B, 2020, 102, .	3.2	2
34	Semiconductor Epitaxy in Superconducting Templates. Nano Letters, 2021, 21, 9922-9929.	9.1	2