

Dmitry I Pikulin

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

866
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567247

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28
times ranked

1112
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Geometric and Conventional Contribution to the Superfluid Weight in Twisted Bilayer Graphene. Physical Review Letters, 2019, 123, 237002. | 7.8 | 116 |
| 2 | Observation of the 4π -periodic Josephson effect in indium arsenide nanowires. Nature Communications, 2019, 10, 245. | 12.8 | 113 |
| 3 | Interplay of Exciton Condensation and the Quantum Spin Hall Effect in InAs/GaSb Bilayers. Physical Review Letters, 2014, 112, 176403. | 7.8 | 78 |
| 4 | Pseudo-electromagnetic fields in 3D topological semimetals. Nature Reviews Physics, 2020, 2, 29-41. | 26.6 | 76 |
| 5 | Aperiodic Weak Topological Superconductors. Physical Review Letters, 2016, 116, 257002. | 7.8 | 61 |
| 6 | Supercurrent Interference in Few-Mode Nanowire Josephson Junctions. Physical Review Letters, 2017, 119, 187704. | 7.8 | 43 |
| 7 | Photon-assisted tunnelling of zero modes in a Majorana wire. Nature Physics, 2020, 16, 663-668. | 16.7 | 39 |
| 8 | Two types of topological transitions in finite Majorana wires. Physical Review B, 2013, 87, . | 3.2 | 37 |
| 9 | Noise-Induced Backscattering in a Quantum Spin Hall Edge. Physical Review Letters, 2018, 121, 106601. | 7.8 | 37 |
| 10 | Quasiparticle Poisoning of Majorana Qubits. Physical Review Letters, 2021, 126, 057702. | 7.8 | 33 |
| 11 | Robust helical edge transport in quantum spin Hall quantum wells. Physical Review B, 2018, 98, . | 3.2 | 28 |
| 12 | Majorana-Hubbard model on the square lattice. Physical Review B, 2017, 96, . | 3.2 | 27 |
| 13 | Magnetic-field-dependent quasiparticle dynamics of nanowire single-Cooper-pair transistors. Physical Review B, 2018, 98, . | 3.2 | 24 |
| 14 | Luttinger liquid in contact with a Kramers pair of Majorana bound states. Physical Review B, 2016, 93, . | 3.2 | 18 |
| 15 | Designing Three-Dimensional Flat Bands in Nodal-Line Semimetals. Physical Review X, 2021, 11, . | 8.9 | 17 |
| 16 | Modeling noise and error correction for Majorana-based quantum computing. Quantum - the Open Journal for Quantum Science, 0, 2, 88. | 0.0 | 16 |
| 17 | Coulomb Blockade of a Nearly Open Majorana Island. Physical Review Letters, 2019, 122, 016801. | 7.8 | 15 |
| 18 | Hawking fragmentation and Hawking attenuation in Weyl semimetals. Physical Review Research, 2022, 4, . | 3.6 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Suppressing quasiparticle poisoning with a voltage-controlled filter. <i>Physical Review B</i> , 2019, 100, . | 3.2 | 14 |
| 20 | Phase diagrams of Majorana-Hubbard ladders. <i>Physical Review B</i> , 2019, 99, . | 3.2 | 12 |
| 21 | Quantum-metric-enabled exciton condensate in double twisted bilayer graphene. <i>Physical Review B</i> , 2022, 105, . | 3.2 | 10 |
| 22 | First-principles feasibility assessment of a topological insulator at the InAs/GaSb interface. <i>Physical Review Materials</i> , 2021, 5, . | 2.4 | 9 |
| 23 | Majorana signatures in charge transport through a topological superconducting double-island system. <i>Physical Review B</i> , 2021, 103, . | 3.2 | 8 |
| 24 | Visibility of noisy quantum dot-based measurements of Majorana qubits. <i>SciPost Physics</i> , 2021, 10, . | 4.9 | 6 |
| 25 | Quantized, finally. <i>Nature Physics</i> , 2018, 14, 334-336. | 16.7 | 5 |
| 26 | Pseudo field effects in type II Weyl semimetals: new probes for over tilted cones. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 484002. | 1.8 | 5 |
| 27 | Bulk-boundary quantum oscillations in inhomogeneous Weyl semimetals. <i>New Journal of Physics</i> , 2020, 22, 013035. | 2.9 | 4 |