

AndrĀjs PĀļyi

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

682
citations

623734

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552781

26
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29
all docs

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docs citations

29
times ranked

851
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Caustics due to a Negative Refractive Index in Circular Graphene $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle p \langle \text{mml:mi} \rangle \langle \text{mml:mtext mathvariant="normal"} \rangle \hat{\langle \text{mml:mtext} \rangle} \langle \text{mml:mi} \rangle n \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Junctions. Physical Review Letters, 2007, 99, 246801. | 7.8 | 107 |
| 2 | Spin-Orbit-Induced Strong Coupling of a Single Spin to a Nanomechanical Resonator. Physical Review Letters, 2012, 108, 206811. | 7.8 | 85 |
| 3 | Spin-strain interaction in nitrogen-vacancy centers in diamond. Physical Review B, 2018, 98, . | 3.2 | 77 |
| 4 | Disorder-Mediated Electron Valley Resonance in Carbon Nanotube Quantum Dots. Physical Review Letters, 2011, 106, 086801. | 7.8 | 55 |
| 5 | Subharmonic transitions and Bloch-Siegert shift in electrically driven spin resonance. Physical Review B, 2015, 92, . | 3.2 | 47 |
| 6 | Spin-valley blockade in carbon nanotube double quantum dots. Physical Review B, 2010, 82, . | 3.2 | 44 |
| 7 | Poor man's topological quantum gate based on the Su-Schrieffer-Heeger model. Physical Review B, 2019, 100, . | 3.2 | 37 |
| 8 | Control of valley dynamics in silicon quantum dots in the presence of an interface step. Physical Review B, 2016, 94, . | 3.2 | 31 |
| 9 | Transport signatures of an Andreev molecule in a quantum dot "superconductor" quantum dot setup. Beilstein Journal of Nanotechnology, 2019, 10, 363-378. | 2.8 | 24 |
| 10 | Maximal Rabi frequency of an electrically driven spin in a disordered magnetic field. Physical Review B, 2014, 89, . | 3.2 | 22 |
| 11 | Charge Noise and Overdrive Errors in Dispersive Readout of Charge, Spin, and Majorana Qubits. Physical Review Applied, 2020, 14, . | 3.8 | 18 |
| 12 | Valley-enhanced fast relaxation of gate-controlled donor qubits in silicon. Nanotechnology, 2016, 27, 314002. | 2.6 | 17 |
| 13 | Triplet-blockaded Josephson supercurrent in double quantum dots. Physical Review B, 2020, 102, . | 3.2 | 17 |
| 14 | Parity-to-charge conversion for readout of topological Majorana qubits. Physical Review B, 2020, 101, . | 3.2 | 16 |
| 15 | Shape-sensitive Pauli blockade in a bent carbon nanotube. Physical Review B, 2015, 91, . | 3.2 | 11 |
| 16 | Observation of spin-orbit coupling induced Weyl points in a two-electron double quantum dot. Communications Physics, 2019, 2, . | 5.3 | 11 |
| 17 | Valley relaxation in graphene due to charged impurities. Physical Review B, 2015, 92, . | 3.2 | 10 |
| 18 | Current hot spot in the spin-valley blockade in carbon nanotubes. Physical Review B, 2013, 88, . | 3.2 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | From Cooper pair splitting to nonlocal spectroscopy of a Shiba state. <i>Physical Review Research</i> , 2022, 4, . | 3.6 | 7 |
| 20 | Coulomb-blockade and Pauli-blockade magnetometry. <i>Physical Review B</i> , 2017, 95, . | 3.2 | 6 |
| 21 | Hyperfine-assisted fast electric control of dopant nuclear spins in semiconductors. <i>Physical Review B</i> , 2018, 97, . | 3.2 | 6 |
| 22 | Orbital hyperfine interaction and qubit dephasing in carbon nanotube quantum dots. <i>Physical Review B</i> , 2014, 90, . | 3.2 | 5 |
| 23 | Fast electron spin flips via strong subcycle electric excitation. <i>Physical Review B</i> , 2018, 97, . | 3.2 | 5 |
| 24 | Magnetic degeneracy points in interacting two-spin systems: Geometrical patterns, topological charge distributions, and their stability. <i>Physical Review B</i> , 2020, 101, . | 3.2 | 5 |
| 25 | Catastrophe optics of caustics in single and bilayer graphene: Fine structure of caustics. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2949-2952. | 1.5 | 4 |
| 26 | Hyperfine-assisted decoherence of a phosphorus nuclear-spin qubit in silicon. <i>Physical Review B</i> , 2019, 100, . | 3.2 | 3 |
| 27 | Electron-electron attraction in an engineered electromechanical system. <i>Physical Review B</i> , 2017, 96, . | 3.2 | 2 |
| 28 | Dephasing of Majorana qubits due to quasistatic disorder. <i>Physical Review B</i> , 2022, 105, . | 3.2 | 2 |
| 29 | Topological charge distributions of an interacting two-spin system. <i>Physical Review B</i> , 2022, 105, . | 3.2 | 0 |