

Johan Nilsson

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

5,022
citations

361413

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h-index

477307

29
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29
all docs

29
docs citations

29
times ranked

5140
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Equation of motion truncation scheme based on partial orthogonalization. European Physical Journal B, 2021, 94, 1. | 1.5 | 1 |
| 2 | Multiple scales and phases in discrete chains with application to folded proteins. Physical Review E, 2018, 97, 052107. | 2.1 | 1 |
| 3 | Ferromagnetism in the one-dimensional Kondo lattice: Mean-field approach via Majorana fermion canonical transformation. Physical Review B, 2014, 89, . | 3.2 | 1 |
| 4 | Trapping Massless Dirac Particles in a Rotating Saddle. Physical Review Letters, 2013, 111, 100403. | 7.8 | 5 |
| 5 | Majorana fermion description of the Kondo lattice: Variational and path integral approach. Physical Review B, 2013, 88, . | 3.2 | 9 |
| 6 | Fermionic representations of the Kondo lattice model. Physical Review B, 2011, 83, . | 3.2 | 11 |
| 7 | Unified description of the dc conductivity of monolayer and bilayer graphene at finite densities based on resonant scatterers. Physical Review B, 2011, 83, . | 3.2 | 152 |
| 8 | Probing Majorana edge states with a flux qubit. Physical Review B, 2011, 84, . | 3.2 | 10 |
| 9 | Theory of non-Abelian Fabry-Perot interferometry in topological insulators. Physical Review B, 2010, 81, . | 3.2 | 20 |
| 10 | Electronic properties of a biased graphene bilayer. Journal of Physics Condensed Matter, 2010, 22, 175503. | 1.8 | 209 |
| 11 | Adatoms in graphene. Solid State Communications, 2009, 149, 1094-1100. | 1.9 | 65 |
| 12 | Observation of the Kohn anomaly near the K point of bilayer graphene. Physical Review B, 2009, 80, . | 3.2 | 32 |
| 13 | Bound states and magnetic field induced valley splitting in gate-tunable graphene quantum dots. Physical Review B, 2009, 79, . | 3.2 | 164 |
| 14 | Electrically Detected Interferometry of Majorana Fermions in a Topological Insulator. Physical Review Letters, 2009, 102, 216404. | 7.8 | 522 |
| 15 | Splitting of a Cooper Pair by a Pair of Majorana Bound States. Physical Review Letters, 2008, 101, 120403. | 7.8 | 394 |
| 16 | Electronic properties of bilayer and multilayer graphene. Physical Review B, 2008, 78, . | 3.2 | 259 |
| 17 | f -sum rule and unconventional spectral weight transfer in graphene. Physical Review B, 2008, 78, . | 3.2 | 64 |
| 18 | Electronic Compressibility of a Graphene Bilayer. Physical Review Letters, 2008, 100, 106805. | 7.8 | 40 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Proposed method for detection of the pseudospin- $\frac{1}{2}$ Berry phase in a photonic crystal with a Dirac spectrum. Physical Review B, 2006, 76, . | 3.2 | 47 |
| 20 | Impurities in a Biased Graphene Bilayer. Physical Review Letters, 2007, 98, 126801. | 7.8 | 100 |
| 21 | Persistent currents through a quantum impurity: Protection through integrability. Physical Review B, 2007, 76, . | 3.2 | 4 |
| 22 | Probing the electronic structure of bilayer graphene by Raman scattering. Physical Review B, 2007, 76, . | 3.2 | 303 |
| 23 | Biased Bilayer Graphene: Semiconductor with a Gap Tunable by the Electric Field Effect. Physical Review Letters, 2007, 99, 216802. | 7.8 | 1,728 |
| 24 | Transmission through a biased graphene bilayer barrier. Physical Review B, 2007, 76, . | 3.2 | 125 |
| 25 | Coulomb Impurity Problem in Graphene. Physical Review Letters, 2007, 99, 166802. | 7.8 | 261 |
| 26 | Electronic Properties of Graphene Multilayers. Physical Review Letters, 2006, 97, 266801. | 7.8 | 264 |
| 27 | Exact results for the persistent current in an Aharonov-Bohm ring with a quantum impurity. European Physical Journal D, 2006, 56, 1251-1256. | 0.4 | 1 |
| 28 | Electron-electron interactions and the phase diagram of a graphene bilayer. Physical Review B, 2006, 73, . | 3.2 | 200 |
| 29 | Heat bath approach to Landau damping and Pomeranchuk quantum critical points. Physical Review B, 2005, 72, . | 3.2 | 30 |