

# Johan Nilsson

## List of Publications by Year in descending order

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29  
papers

5,022  
citations

361413

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477307

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g-index

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all docs

29  
docs citations

29  
times ranked

5140  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biased Bilayer Graphene: Semiconductor with a Gap Tunable by the Electric Field Effect. Physical Review Letters, 2007, 99, 216802.	7.8	1,728
2	Electrically Detected Interferometry of Majorana Fermions in a Topological Insulator. Physical Review Letters, 2009, 102, 216404.	7.8	522
3	Splitting of a Cooper Pair by a Pair of Majorana Bound States. Physical Review Letters, 2008, 101, 120403.	7.8	394
4	Probing the electronic structure of bilayer graphene by Raman scattering. Physical Review B, 2007, 76, .	3.2	303
5	Electronic Properties of Graphene Multilayers. Physical Review Letters, 2006, 97, 266801.	7.8	264
6	Coulomb Impurity Problem in Graphene. Physical Review Letters, 2007, 99, 166802.	7.8	261
7	Electronic properties of bilayer and multilayer graphene. Physical Review B, 2008, 78, .	3.2	259
8	Electronic properties of a biased graphene bilayer. Journal of Physics Condensed Matter, 2010, 22, 175503.	1.8	209
9	Electron-electron interactions and the phase diagram of a graphene bilayer. Physical Review B, 2006, 73, .	3.2	200
10	Bound states and magnetic field induced valley splitting in gate-tunable graphene quantum dots. Physical Review B, 2009, 79, .	3.2	164
11	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
12	Transmission through a biased graphene bilayer barrier. Physical Review B, 2007, 76, .	3.2	125
13	Impurities in a Biased Graphene Bilayer. Physical Review Letters, 2007, 98, 126801.	7.8	100
14	Adatoms in graphene. Solid State Communications, 2009, 149, 1094-1100.	1.9	65
15	$\langle \text{sum rule and unconventional spectral weight transfer in graphene. Physical Review B, 2008, 78, .}$	3.2	64
16	Proposed method for detection of the pseudospin- $\langle \text{Berry phase in a photonic crystal with a Dirac spectrum. Physical Review B, 2008, 78, .}$	3.2	47
17	Electronic Compressibility of a Graphene Bilayer. Physical Review Letters, 2008, 100, 106805.	7.8	40
18	Observation of the Kohn anomaly near the $\langle \text{point of bilayer graphene. Physical Review B, 2009, 80, .}$	3.2	32

#	ARTICLE	IF	CITATIONS
19	Heat bath approach to Landau damping and Pomeranchuk quantum critical points. Physical Review B, 2005, 72, .	3.2	30
20	Theory of non-Abelian Fabry-Perot interferometry in topological insulators. Physical Review B, 2010, 81, .	3.2	20
21	Fermionic representations of the Kondo lattice model. Physical Review B, 2011, 83, .	3.2	11
22	Probing Majorana edge states with a flux qubit. Physical Review B, 2011, 84, .	3.2	10
23	Majorana fermion description of the Kondo lattice: Variational and path integral approach. Physical Review B, 2013, 88, .	3.2	9
24	Trapping Massless Dirac Particles in a Rotating Saddle. Physical Review Letters, 2013, 111, 100403.	7.8	5
25	Persistent currents through a quantum impurity: Protection through integrability. Physical Review B, 2007, 76, .	3.2	4
26	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
27	Ferromagnetism in the one-dimensional Kondo lattice: Mean-field approach via Majorana fermion canonical transformation. Physical Review B, 2014, 89, .	3.2	1
28	Multiple scales and phases in discrete chains with application to folded proteins. Physical Review E, 2018, 97, 052107.	2.1	1
29	Equation of motion truncation scheme based on partial orthogonalization. European Physical Journal B, 2021, 94, 1.	1.5	1