

# Elisabeth Nicol

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45  
papers

1,820  
citations

25  
h-index

42  
g-index

46  
ext. papers

2,052  
ext. citations

3.6  
avg, IF

5.36  
L-index

#	Paper	IF	Citations
45	Valley-spin polarization in the magneto-optical response of silicene and other similar 2D crystals. <i>Physical Review Letters</i> , <b>2013</b> , 110, 197402	7.4	160
44	Optical conductivity of bilayer graphene with and without an asymmetry gap. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	133
43	Properties of the superconducting state in a two-band model. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	111
42	Optical signatures of the tunable band gap and valley-spin coupling in silicene. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	102
41	Magneto-optical conductivity of silicene and other buckled honeycomb lattices. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	90
40	Dynamical conductivity of AA-stacked bilayer graphene. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	83
39	Optical and transport properties in three-dimensional Dirac and Weyl semimetals. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	74
38	AC/DC spin and valley Hall effects in silicene and germanene. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	71
37	Dynamical polarization function, plasmons, and screening in silicene and other buckled honeycomb lattices. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	62
36	Effect of electron-phonon interaction on spectroscopies in graphene. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	59
35	Comparison of pressurized sulfur hydride with conventional superconductors. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	57
34	Optical conductivity of twisted bilayer graphene. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	56
33	Magneto-optics of massless Kane fermions: Role of the flat band and unusual Berry phase. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	54
32	Optical conductivity in high-Tc superconductors. <i>Physical Review B</i> , <b>1991</b> , 43, 473-479	3.3	53
31	Temperature-dependent low-frequency conductivity in marginal-Fermi-liquid theory. <i>Physical Review B</i> , <b>1991</b> , 44, 7741-7744	3.3	51
30	Thermodynamics of d-wave superconductors in a magnetic field. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	50
29	Spectroscopic evidence of a new energy scale for superconductivity in HS. <i>Nature Physics</i> , <b>2017</b> , 13, 859-863	3.3	49

28	Magnetic properties of the $\mathbb{Z}_3$ model: Magneto-optical conductivity and the Hofstadter butterfly. <i>Physical Review B</i> , <b>2016</b> , 94,	3-3	47
27	Hall quantization and optical conductivity evolution with variable Berry phase in the $\mathbb{Z}_3$ model. <i>Physical Review B</i> , <b>2015</b> , 92,	3-3	46
26	Effect of pseudogap formation on the penetration depth of underdoped high-Tc cuprates. <i>Physical Review B</i> , <b>2010</b> , 81,	3-3	34
25	Signatures of Fermi surface reconstruction in Raman spectra of underdoped cuprates. <i>Physical Review B</i> , <b>2010</b> , 81,	3-3	34
24	Non-Bardeen-Cooper-Schrieffer behavior of optical properties across the phase diagram of cuprate superconductors. <i>Physical Review B</i> , <b>2009</b> , 79,	3-3	32
23	Magneto-optical conductivity in graphene including electron-phonon coupling. <i>Physical Review B</i> , <b>2012</b> , 85,	3-3	32
22	Optical self-energy of superconducting Pb in the terahertz region. <i>Physical Review B</i> , <b>2008</b> , 77,	3-3	31
21	Specific heat of underdoped cuprates: Resonating valence bond description versus Fermi arcs. <i>Physical Review B</i> , <b>2009</b> , 80,	3-3	30
20	Emergence of plasmaronic structure in the near-field optical response of graphene. <i>Physical Review B</i> , <b>2012</b> , 85,	3-3	24
19	Effects of electron-phonon coupling on Landau levels in graphene. <i>Physical Review B</i> , <b>2011</b> , 84,	3-3	22
18	Effect of electron-phonon coupling on energy and density of states renormalizations of dynamically screened graphene. <i>Physical Review B</i> , <b>2011</b> , 84,	3-3	22
17	Signature of pseudogap formation in the density of states of underdoped cuprates. <i>Physical Review B</i> , <b>2010</b> , 82,	3-3	20
16	Optical response for the d-density-wave model. <i>Physical Review B</i> , <b>2005</b> , 71,	3-3	19
15	Phonon spectroscopy through the electronic density of states in graphene. <i>Physical Review B</i> , <b>2009</b> , 80,	3-3	17
14	Optical properties of a semi-Dirac material. <i>Physical Review B</i> , <b>2019</b> , 99,	3-3	15
13	Magnetic properties of Dirac fermions in a buckled honeycomb lattice. <i>Physical Review B</i> , <b>2015</b> , 91,	3-3	12
12	Detecting Superconductivity in the High Pressure Hydrides and Metallic Hydrogen from Optical Properties. <i>Physical Review Letters</i> , <b>2018</b> , 121, 047002	7-4	12
11	Analytic evaluation of Kane fermion magneto-optics in two and three dimensions. <i>Physical Review B</i> , <b>2016</b> , 94,	3-3	11

10	Specific heat across the superconducting dome in the cuprates. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	10
9	Effects of a particle-hole asymmetric pseudogap on Bogoliubov quasiparticles. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	10
8	Optical properties of the pseudogap state in underdoped cuprates. <i>European Physical Journal B</i> , <b>2011</b> , 81, 69-77	1.2	7
7	Spectroscopic signatures of phonons in high pressure superconducting hydrides. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	5
6	Optical properties of superconducting pressurized LaH10. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	5
5	Electron pockets and pseudogap Dirac point in underdoped cuprate superconductors. <i>Europhysics Letters</i> , <b>2011</b> , 95, 47008	1.6	4
4	Signatures of merging Dirac points in optics and transport. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	2
3	Anisotropic transport properties in a layered d+s-wave superconductor. <i>Journal of Low Temperature Physics</i> , <b>1996</b> , 105, 539-544	1.3	1
2	Infrared imaging of samples in ultrahigh pressure diamond anvil cells. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 173101	2.5	1
1	Vertex-corrected tunneling inversion in superconductors. <i>European Physical Journal D</i> , <b>1996</b> , 46, 603-604		