

Elisabeth Nicol

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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	Infrared imaging of samples in ultrahigh pressure diamond anvil cells. <i>Journal of Applied Physics</i> , 2021 , 130, 173101	2.5	1
44	Optical properties of superconducting pressurized LaH10. <i>Physical Review B</i> , 2020 , 102,	3.3	5
43	Spectroscopic signatures of phonons in high pressure superconducting hydrides. <i>Physical Review B</i> , 2019 , 100,	3.3	5
42	Optical properties of a semi-Dirac material. <i>Physical Review B</i> , 2019 , 99,	3.3	15
41	Signatures of merging Dirac points in optics and transport. <i>Physical Review B</i> , 2019 , 100,	3.3	2
40	Detecting Superconductivity in the High Pressure Hydrides and Metallic Hydrogen from Optical Properties. <i>Physical Review Letters</i> , 2018 , 121, 047002	7.4	12
39	Spectroscopic evidence of a new energy scale for superconductivity in HS. <i>Nature Physics</i> , 2017 , 13, 859-863	8.6	49
38	Optical and transport properties in three-dimensional Dirac and Weyl semimetals. <i>Physical Review B</i> , 2016 , 93,	3.3	74
37	Analytic evaluation of Kane fermion magneto-optics in two and three dimensions. <i>Physical Review B</i> , 2016 , 94,	3.3	11
36	Magnetic properties of the \mathbb{Z}_3 model: Magneto-optical conductivity and the Hofstadter butterfly. <i>Physical Review B</i> , 2016 , 94,	3.3	47
35	Magnetic properties of Dirac fermions in a buckled honeycomb lattice. <i>Physical Review B</i> , 2015 , 91,	3.3	12
34	Comparison of pressurized sulfur hydride with conventional superconductors. <i>Physical Review B</i> , 2015 , 91,	3.3	57
33	Magneto-optics of massless Kane fermions: Role of the flat band and unusual Berry phase. <i>Physical Review B</i> , 2015 , 92,	3.3	54
32	Hall quantization and optical conductivity evolution with variable Berry phase in the \mathbb{Z}_3 model. <i>Physical Review B</i> , 2015 , 92,	3.3	46
31	Dynamical polarization function, plasmons, and screening in silicene and other buckled honeycomb lattices. <i>Physical Review B</i> , 2014 , 89,	3.3	62
30	Magneto-optical conductivity of silicene and other buckled honeycomb lattices. <i>Physical Review B</i> , 2013 , 88,	3.3	90
29	AC/DC spin and valley Hall effects in silicene and germanene. <i>Physical Review B</i> , 2013 , 87,	3.3	71

28	Valley-spin polarization in the magneto-optical response of silicene and other similar 2D crystals. <i>Physical Review Letters</i> , 2013 , 110, 197402	7.4	160
27	Optical conductivity of twisted bilayer graphene. <i>Physical Review B</i> , 2013 , 87,	3.3	56
26	Dynamical conductivity of AA-stacked bilayer graphene. <i>Physical Review B</i> , 2012 , 86,	3.3	83
25	Optical signatures of the tunable band gap and valley-spin coupling in silicene. <i>Physical Review B</i> , 2012 , 86,	3.3	102
24	Emergence of plasmaronic structure in the near-field optical response of graphene. <i>Physical Review B</i> , 2012 , 85,	3.3	24
23	Magneto-optical conductivity in graphene including electron-phonon coupling. <i>Physical Review B</i> , 2012 , 85,	3.3	32
22	Optical properties of the pseudogap state in underdoped cuprates. <i>European Physical Journal B</i> , 2011 , 81, 69-77	1.2	7
21	Effects of electron-phonon coupling on Landau levels in graphene. <i>Physical Review B</i> , 2011 , 84,	3.3	22
20	Effects of a particle-hole asymmetric pseudogap on Bogoliubov quasiparticles. <i>Physical Review B</i> , 2011 , 83,	3.3	10
19	Effect of electron-phonon coupling on energy and density of states renormalizations of dynamically screened graphene. <i>Physical Review B</i> , 2011 , 84,	3.3	22
18	Electron pockets and pseudogap Dirac point in underdoped cuprate superconductors. <i>Europhysics Letters</i> , 2011 , 95, 47008	1.6	4
17	Effect of pseudogap formation on the penetration depth of underdoped high-T _c cuprates. <i>Physical Review B</i> , 2010 , 81,	3.3	34
16	Signatures of Fermi surface reconstruction in Raman spectra of underdoped cuprates. <i>Physical Review B</i> , 2010 , 81,	3.3	34
15	Effect of electron-phonon interaction on spectroscopies in graphene. <i>Physical Review B</i> , 2010 , 81,	3.3	59
14	Specific heat across the superconducting dome in the cuprates. <i>Physical Review B</i> , 2010 , 82,	3.3	10
13	Signature of pseudogap formation in the density of states of underdoped cuprates. <i>Physical Review B</i> , 2010 , 82,	3.3	20
12	Non-Bardeen-Cooper-Schrieffer behavior of optical properties across the phase diagram of cuprate superconductors. <i>Physical Review B</i> , 2009 , 79,	3.3	32
11	Specific heat of underdoped cuprates: Resonating valence bond description versus Fermi arcs. <i>Physical Review B</i> , 2009 , 80,	3.3	30

10	Phonon spectroscopy through the electronic density of states in graphene. <i>Physical Review B</i> , 2009 , 80,	3-3	17
9	Optical conductivity of bilayer graphene with and without an asymmetry gap. <i>Physical Review B</i> , 2008 , 77,	3-3	133
8	Optical self-energy of superconducting Pb in the terahertz region. <i>Physical Review B</i> , 2008 , 77,	3-3	31
7	Properties of the superconducting state in a two-band model. <i>Physical Review B</i> , 2005 , 71,	3-3	111
6	Optical response for the d-density-wave model. <i>Physical Review B</i> , 2005 , 71,	3-3	19
5	Thermodynamics of d-wave superconductors in a magnetic field. <i>Physical Review B</i> , 2001 , 64,	3-3	50
4	Vertex-corrected tunneling inversion in superconductors. <i>European Physical Journal D</i> , 1996 , 46, 603-604		
3	Anisotropic transport properties in a layered d+s-wave superconductor. <i>Journal of Low Temperature Physics</i> , 1996 , 105, 539-544	1-3	1
2	Temperature-dependent low-frequency conductivity in marginal-Fermi-liquid theory. <i>Physical Review B</i> , 1991 , 44, 7741-7744	3-3	51
1	Optical conductivity in high-Tc superconductors. <i>Physical Review B</i> , 1991 , 43, 473-479	3-3	53