Stephen R Power

List of Publications by Citations

39 papers	773 citations	17 h-index	26 g-index
39 ext. papers	934 ext. citations	5.3 avg, IF	4.41 L-index

#	Paper	IF	Citations
39	Graphene Nanobubbles as Valley Filters and Beam Splitters. *Physical Review Letters*, **2016**, 117, 276801	7.4	86
38	Indirect Exchange and Ruderman–Kittel–Kasuya–Yosida (RKKY) Interactions in Magnetically-Doped Graphene. *Crystals*, **2013**, 3, 49-78	2.3	70
37	Emergence of local magnetic moments in doped graphene-related materials. *Physical Review B*, **2009**, 80,	3.3	58
36	Dynamic RKKY interaction in graphene. *Physical Review B*, **2012**, 85,	3.3	40
35	Pseudomagnetic fields and triaxial strain in graphene. *Physical Review B*, **2016**, 93,	3.3	36
34	Electronic structure of graphene beyond the linear dispersion regime. *Physical Review B*, **2011**, 83,	3.3	32
33	Ballistic tracks in graphene nanoribbons. *Nature Communications*, **2018**, 9, 4426	17.4	31
32	Electronic transport in disordered graphene antidot lattice devices. *Physical Review B*, **2014**, 90,	3.3	30
31	Patched Green's function techniques for two-dimensional systems: Electronic behavior of bubbles and perforations in graphene. *Physical Review B*, **2015**, 91,	3.3	27
30	RKKY interaction between adsorbed magnetic impurities in graphene: Symmetry and strain effects. *Physical Review B*, **2013**, 88,	3.3	26
29	Theoretical analysis of a dual-probe scanning tunneling microscope setup on graphene. *Physical Review Letters*, **2014**, 112, 096801	7.4	24
28	Strain-induced modulation of magnetic interactions in graphene. *Physical Review B*, **2012**, 86,	3.3	21
27	1D ferromagnetic edge contacts to 2D graphene/h-BN heterostructures. *2D Materials*, **2018**, 5, 014001	5.9	20
26	Electron Interference in Ballistic Graphene Nanoconstrictions. *Physical Review Letters*, **2016**, 116, 186602	7.4	20
25	Magnetization profile for impurities in graphene nanoribbons. *Physical Review B*, **2011**, 84,	3.3	20
24	Friedel oscillations in graphene: Sublattice asymmetry in doping. *Physical Review B*, **2013**, 88,	3.3	19
23	Conductance quantization suppression in the quantum Hall regime. *Nature Communications*, **2018**, 9, 659	17.4	18

22	Sublattice imbalance of substitutionally doped nitrogen in graphene. *Carbon*, **2014**, 77, 645-650	10.4	17
21	Variable range of the RKKY interaction in edged graphene. *Journal of Physics Condensed Matter*, **2014**, 26, 055007	1.8	16
20	Model of impurity segregation in graphene nanoribbons. *Physical Review B*, **2009**, 80,	3.3	14
19	Graphene on graphene antidot lattices: Electronic and transport properties. *Physical Review B*, **2015**, 91,	3.3	13
18	Scale-invariant large nonlocality in polycrystalline graphene. *Nature Communications*, **2017**, 8, 2198	17.4	13
17	Nanostructured graphene for spintronics. *Physical Review B*, **2017**, 95,	3.3	12
16	Electron trajectories and magnetotransport in nanopatterned graphene under commensurability conditions. *Physical Review B*, **2017**, 96,	3.3	11
15	Nonlocal Spin Dynamics in the Crossover from Diffusive to Ballistic Transport. *Physical Review Letters*, **2020**, 124, 196602	7.4	10
14	Electronic transport in graphene nanoribbons with sublattice-asymmetric doping. *Physical Review B*, **2016**, 93,	3.3	10
13	Bubbles in graphene - a computational study. *Journal of Physics: Conference Series*, **2015**, 647, 012022	0.3	10
12	Dual-probe spectroscopic fingerprints of defects in graphene. *Physical Review B*, **2014**, 90,	3.3	9
11	RKKY interaction between extended magnetic defect lines in graphene. *Physical Review B*, **2014**, 90,	3.3	9
10	One-dimensional confinement and width-dependent bandgap formation in epitaxial graphene nanoribbons. *Nature Communications*, **2020**, 11, 6380	17.4	9
9	Probing the nanoscale origin of strain and doping in graphene-hBN heterostructures. *2D Materials*, **2019**, 6, 015022	5.9	8
8	Magnetic edge states and magnetotransport in graphene antidot barriers. *Physical Review B*, **2016**, 94,	3.3	7
7	Robust band gap and half-metallicity in graphene with triangular perforations. *Physical Review B*, **2016**, 93,	3.3	6
6	Strain-modified RKKY interaction in carbon nanotubes. *Physical Review B*, **2015**, 92,	3.3	5
5	Charge and spin transport anisotropy in nanopatterned graphene. *JPhys Materials*, **2018**, 1, 015005	4.2	5

4	Valley Hall effect and nonlocal resistance in locally gapped graphene. *Physical Review B*, **2021**, 103,	3.3	4
3	Gate electrostatics and quantum capacitance in ballistic graphene devices. *Physical Review B*, **2019**, 99,	3.3	3
2	Valley current generation using biased bilayer graphene dots. *Physical Review B*, **2021**, 103,	3.3	3
1	Have mysterious topological valley currents been observed in graphene superlattices?. *JPhys Materials*, **2022**, 5, 021001	4.2	1