

Stephen R Power

List of Publications by Year in Descending Order

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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.

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	Have mysterious topological valley currents been observed in graphene superlattices?. <i>JPhys Materials</i> , 2022 , 5, 021001	4.2	1
38	Valley Hall effect and nonlocal resistance in locally gapped graphene. <i>Physical Review B</i> , 2021 , 103,	3.3	4
37	Valley current generation using biased bilayer graphene dots. <i>Physical Review B</i> , 2021 , 103,	3.3	3
36	Nonlocal Spin Dynamics in the Crossover from Diffusive to Ballistic Transport. <i>Physical Review Letters</i> , 2020 , 124, 196602	7.4	10
35	One-dimensional confinement and width-dependent bandgap formation in epitaxial graphene nanoribbons. <i>Nature Communications</i> , 2020 , 11, 6380	17.4	9
34	Gate electrostatics and quantum capacitance in ballistic graphene devices. <i>Physical Review B</i> , 2019 , 99,	3.3	3
33	Probing the nanoscale origin of strain and doping in graphene-hBN heterostructures. <i>2D Materials</i> , 2019 , 6, 015022	5.9	8
32	Conductance quantization suppression in the quantum Hall regime. <i>Nature Communications</i> , 2018 , 9, 659	17.4	18
31	1D ferromagnetic edge contacts to 2D graphene/h-BN heterostructures. <i>2D Materials</i> , 2018 , 5, 014001	5.9	20
30	Charge and spin transport anisotropy in nanopatterned graphene. <i>JPhys Materials</i> , 2018 , 1, 015005	4.2	5
29	Ballistic tracks in graphene nanoribbons. <i>Nature Communications</i> , 2018 , 9, 4426	17.4	31
28	Nanostructured graphene for spintronics. <i>Physical Review B</i> , 2017 , 95,	3.3	12
27	Electron trajectories and magnetotransport in nanopatterned graphene under commensurability conditions. <i>Physical Review B</i> , 2017 , 96,	3.3	11
26	Scale-invariant large nonlocality in polycrystalline graphene. <i>Nature Communications</i> , 2017 , 8, 2198	17.4	13
25	Electronic transport in graphene nanoribbons with sublattice-asymmetric doping. <i>Physical Review B</i> , 2016 , 93,	3.3	10
24	Pseudomagnetic fields and triaxial strain in graphene. <i>Physical Review B</i> , 2016 , 93,	3.3	36
23	Electron Interference in Ballistic Graphene Nanoconstrictions. <i>Physical Review Letters</i> , 2016 , 116, 186602	7.4	20

22	Robust band gap and half-metallicity in graphene with triangular perforations. <i>Physical Review B</i> , 2016 , 93,	3.3	6
21	Graphene Nanobubbles as Valley Filters and Beam Splitters. <i>Physical Review Letters</i> , 2016 , 117, 276801	7.4	86
20	Magnetic edge states and magnetotransport in graphene antidot barriers. <i>Physical Review B</i> , 2016 , 94,	3.3	7
19	Patched Green's function techniques for two-dimensional systems: Electronic behavior of bubbles and perforations in graphene. <i>Physical Review B</i> , 2015 , 91,	3.3	27
18	Graphene on graphene antidot lattices: Electronic and transport properties. <i>Physical Review B</i> , 2015 , 91,	3.3	13
17	Strain-modified RKKY interaction in carbon nanotubes. <i>Physical Review B</i> , 2015 , 92,	3.3	5
16	Bubbles in graphene - a computational study. <i>Journal of Physics: Conference Series</i> , 2015 , 647, 012022	0.3	10
15	Theoretical analysis of a dual-probe scanning tunneling microscope setup on graphene. <i>Physical Review Letters</i> , 2014 , 112, 096801	7.4	24
14	Variable range of the RKKY interaction in edged graphene. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 055007	1.8	16
13	Electronic transport in disordered graphene antidot lattice devices. <i>Physical Review B</i> , 2014 , 90,	3.3	30
12	Sublattice imbalance of substitutionally doped nitrogen in graphene. <i>Carbon</i> , 2014 , 77, 645-650	10.4	17
11	Dual-probe spectroscopic fingerprints of defects in graphene. <i>Physical Review B</i> , 2014 , 90,	3.3	9
10	RKKY interaction between extended magnetic defect lines in graphene. <i>Physical Review B</i> , 2014 , 90,	3.3	9
9	RKKY interaction between adsorbed magnetic impurities in graphene: Symmetry and strain effects. <i>Physical Review B</i> , 2013 , 88,	3.3	26
8	Friedel oscillations in graphene: Sublattice asymmetry in doping. <i>Physical Review B</i> , 2013 , 88,	3.3	19
7	Indirect Exchange and Ruderman-Kittel-Kasuya-Yosida (RKKY) Interactions in Magnetically-Doped Graphene. <i>Crystals</i> , 2013 , 3, 49-78	2.3	70
6	Dynamic RKKY interaction in graphene. <i>Physical Review B</i> , 2012 , 85,	3.3	40
5	Strain-induced modulation of magnetic interactions in graphene. <i>Physical Review B</i> , 2012 , 86,	3.3	21

- 4 Magnetization profile for impurities in graphene nanoribbons. *Physical Review B*, **2011**, 84, 3.3 20
- 3 Electronic structure of graphene beyond the linear dispersion regime. *Physical Review B*, **2011**, 83, 3.3 32
- 2 Model of impurity segregation in graphene nanoribbons. *Physical Review B*, **2009**, 80, 3.3 14
- 1 Emergence of local magnetic moments in doped graphene-related materials. *Physical Review B*, **2009**, 80, 3.3 58