

Andrea F Young

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.

60
papers

13,152
citations

37
h-index

64
g-index

64
ext. papers

15,923
ext. citations

19.2
avg, IF

6.53
L-index

#	Paper	IF	Citations
60	Boron nitride substrates for high-quality graphene electronics. <i>Nature Nanotechnology</i> , 2010 , 5, 722-6	28.7	4874
59	Current saturation in zero-bandgap, top-gated graphene field-effect transistors. <i>Nature Nanotechnology</i> , 2008 , 3, 654-9	28.7	1223
58	Massive Dirac fermions and Hofstadter butterfly in a van der Waals heterostructure. <i>Science</i> , 2013 , 340, 1427-30	33.3	1092
57	Quantum interference and Klein tunnelling in graphene heterojunctions. <i>Nature Physics</i> , 2009 , 5, 222-226	16.2	858
56	Tuning superconductivity in twisted bilayer graphene. <i>Science</i> , 2019 , 363, 1059-1064	33.3	814
55	Synthesis of novel transition metal nitrides IrN ₂ and OsN ₂ . <i>Physical Review Letters</i> , 2006 , 96, 155501	7.4	442
54	Intrinsic quantized anomalous Hall effect in a moiré heterostructure. <i>Science</i> , 2020 , 367, 900-903	33.3	377
53	Multicomponent fractional quantum Hall effect in graphene. <i>Nature Physics</i> , 2011 , 7, 693-696	16.2	347
52	Interstellar chemistry recorded in organic matter from primitive meteorites. <i>Science</i> , 2006 , 312, 727-30	33.3	273
51	Spin and valley quantum Hall ferromagnetism in graphene. <i>Nature Physics</i> , 2012 , 8, 550-556	16.2	255
50	Tunable symmetry breaking and helical edge transport in a graphene quantum spin Hall state. <i>Nature</i> , 2014 , 505, 528-32	50.4	188
49	Graphene based heterostructures. <i>Solid State Communications</i> , 2012 , 152, 1275-1282	1.6	158
48	Superconductivity and strong correlations in moiré flat bands. <i>Nature Physics</i> , 2020 , 16, 725-733	16.2	139
47	Large linear-in-temperature resistivity in twisted bilayer graphene. <i>Nature Physics</i> , 2019 , 15, 1011-1016	16.2	127
46	Independent superconductors and correlated insulators in twisted bilayer graphene. <i>Nature Physics</i> , 2020 , 16, 926-930	16.2	124
45	Channel length scaling in graphene field-effect transistors studied with pulsed current-voltage measurements. <i>Nano Letters</i> , 2011 , 11, 1093-7	11.5	122
44	Interstitial dinitrogen makes PtN ₂ an insulating hard solid. <i>Physical Review B</i> , 2006 , 73,	3.3	118

43	Evidence for a spin phase transition at charge neutrality in bilayer graphene. <i>Nature Physics</i> , 2013 , 9, 154-158	16.2	115
42	Electronic compressibility of layer-polarized bilayer graphene. <i>Physical Review B</i> , 2012 , 85,	3.3	112
41	Tunable interacting composite fermion phases in a half-filled bilayer-graphene Landau level. <i>Nature</i> , 2017 , 549, 360-364	50.4	110
40	Tuning ultrafast electron thermalization pathways in a van der Waals heterostructure. <i>Nature Physics</i> , 2016 , 12, 455-459	16.2	96
39	Visualization of superparamagnetic dynamics in magnetic topological insulators. <i>Science Advances</i> , 2015 , 1, e1500740	14.3	95
38	Observation of fractional Chern insulators in a van der Waals heterostructure. <i>Science</i> , 2018 , 360, 62-66	33.3	84
37	Renormalization of the graphene dispersion velocity determined from scanning tunneling spectroscopy. <i>Physical Review Letters</i> , 2012 , 109, 116802	7.4	73
36	Electronic Transport in Graphene Heterostructures. <i>Annual Review of Condensed Matter Physics</i> , 2011 , 2, 101-120	19.7	65
35	Electrical switching of magnetic order in an orbital Chern insulator. <i>Nature</i> , 2020 , 588, 66-70	50.4	63
34	Even-denominator fractional quantum Hall states at an isospin transition in monolayer graphene. <i>Nature Physics</i> , 2018 , 14, 930-935	16.2	62
33	Spin-orbit-driven band inversion in bilayer graphene by the van der Waals proximity effect. <i>Nature</i> , 2019 , 571, 85-89	50.4	61
32	Graphene field-effect transistors based on boron nitride gate dielectrics 2010 ,		60
31	Helical edge states and fractional quantum Hall effect in a graphene electron-hole bilayer. <i>Nature Nanotechnology</i> , 2017 , 12, 118-122	28.7	57
30	Direct measurement of discrete valley and orbital quantum numbers in bilayer graphene. <i>Nature Communications</i> , 2017 , 8, 948	17.4	49
29	Quantum and classical confinement of resonant states in a trilayer graphene Fabry-Pérot interferometer. <i>Nature Communications</i> , 2012 , 3, 1239	17.4	44
28	Hofstadter subband ferromagnetism and symmetry-broken Chern insulators in twisted bilayer graphene. <i>Nature Physics</i> , 2021 , 17, 478-481	16.2	44
27	Collapse of Landau levels in gated graphene structures. <i>Physical Review Letters</i> , 2011 , 106, 066601	7.4	43
26	The marvels of moiré materials. <i>Nature Reviews Materials</i> , 2021 , 6, 201-206	73.3	41

25	Mineral associations and character of isotopically anomalous organic material in the Tagish Lake carbonaceous chondrite. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 5966-5983	5.5	40
24	Isospin Pomeranchuk effect in twisted bilayer graphene. <i>Nature</i> , 2021 , 592, 220-224	50.4	38
23	Linear Magnetoelectric Phase in Ultrathin MnPS ₃ Probed by Optical Second Harmonic Generation. <i>Physical Review Letters</i> , 2020 , 124, 027601	7.4	36
22	Superconductivity in rhombohedral trilayer graphene. <i>Nature</i> , 2021 , 598, 434-438	50.4	26
21	Imaging orbital ferromagnetism in a moiré Chern insulator. <i>Science</i> , 2021 , 372, 1323-1327	33.3	25
20	Capacitance of graphene bilayer as a probe of layer-specific properties. <i>Physical Review B</i> , 2011 , 84,	3.3	24
19	Quantitative Transport Measurements of Fractional Quantum Hall Energy Gaps in Edgeless Graphene Devices. <i>Physical Review Letters</i> , 2018 , 121, 226801	7.4	21
18	Solids of quantum Hall skyrmions in graphene. <i>Nature Physics</i> , 2020 , 16, 154-158	16.2	19
17	Half- and quarter-metals in rhombohedral trilayer graphene. <i>Nature</i> , 2021 , 598, 429-433	50.4	16
16	Electrically Tunable Multiterminal SQUID-on-Tip. <i>Nano Letters</i> , 2016 , 16, 6910-6915	11.5	13
15	Bilayer Graphene as a Platform for Bosonic Symmetry-Protected Topological States. <i>Physical Review Letters</i> , 2017 , 118, 126801	7.4	12
14	Isospin magnetism and spin-polarized superconductivity in Bernal bilayer graphene. <i>Science</i> , 2022 , 375, eabm8386	33.3	12
13	Emergent Dirac Gullies and Gully-Symmetry-Breaking Quantum Hall States in ABA Trilayer Graphene. <i>Physical Review Letters</i> , 2018 , 121, 167601	7.4	10
12	Quantum oscillations observed in graphene at microwave frequencies. <i>Applied Physics Letters</i> , 2010 , 97, 062113	3.4	9
11	Topological Exciton Fermi Surfaces in Two-Component Fractional Quantized Hall Insulators. <i>Physical Review Letters</i> , 2018 , 121, 026603	7.4	7
10	On-chip terahertz modulation and emission with integrated graphene junctions. <i>Applied Physics Letters</i> , 2020 , 116, 161104	3.4	5
9	Fractional Chern insulator edges and layer-resolved lattice contacts. <i>Physical Review B</i> , 2019 , 99,	3.3	5
8	Topological charge density waves at half-integer filling of a moiré superlattice. <i>Nature Physics</i> , 2022 , 18, 42-47	16.2	5

7	Torque magnetometry of an amorphous-alumina/strontium-titanate interface. <i>Physical Review B</i> , 2014 , 90,	3.3	4
6	Graphene nanoribbon devices and quantum heterojunction devices 2009 ,		4
5	Fractional Quantum Hall Effects in Graphene 2020 , 317-375		4
4	Experimental Determination of the Energy per Particle in Partially Filled Landau Levels. <i>Physical Review Letters</i> , 2021 , 126, 156802	7.4	4
3	Quantum Oscillations in Two-Dimensional Insulators Induced by Graphite Gates.. <i>Physical Review Letters</i> , 2021 , 127, 247702	7.4	4
2	Experimental Manifestation of Berry Phase in Graphene. <i>Nanoscience and Technology</i> , 2014 , 3-27	0.6	1
1	Toward carbon based quantum electronics: Quantum transport in graphene heterojunctions 2011 ,		1