

# Andrea F Young

## List of Publications by Year in descending order

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62  
papers

18,264  
citations

76326

40  
h-index

128289

60  
g-index

64  
all docs

64  
docs citations

64  
times ranked

17457  
citing authors

#	ARTICLE	IF	CITATIONS
1	Boron nitride substrates for high-quality graphene electronics. <i>Nature Nanotechnology</i> , 2010, 5, 722-726.	31.5	5,794
2	Tuning superconductivity in twisted bilayer graphene. <i>Science</i> , 2019, 363, 1059-1064.	12.6	1,460
3	Current saturation in zero-bandgap, top-gated graphene field-effect transistors. <i>Nature Nanotechnology</i> , 2008, 3, 654-659.	31.5	1,426
4	Massive Dirac Fermions and Hofstadter Butterfly in a van der Waals Heterostructure. <i>Science</i> , 2013, 340, 1427-1430.	12.6	1,392
5	Quantum interference and Klein tunnelling in graphene heterojunctions. <i>Nature Physics</i> , 2009, 5, 222-226.	16.7	1,011
6	Intrinsic quantized anomalous Hall effect in a moiré heterostructure. <i>Science</i> , 2020, 367, 900-903.	12.6	844
7	Synthesis of Novel Transition Metal Nitrides IrN <sub>2</sub> and OsN <sub>2</sub> . <i>Physical Review Letters</i> , 2006, 96, 155501.	7.8	481
8	Superconductivity and strong correlations in moiré flat bands. <i>Nature Physics</i> , 2020, 16, 725-733.	16.7	448
9	Multicomponent fractional quantum Hall effect in graphene. <i>Nature Physics</i> , 2011, 7, 693-696.	16.7	405
10	Interstellar Chemistry Recorded in Organic Matter from Primitive Meteorites. <i>Science</i> , 2006, 312, 727-730.	12.6	315
11	Spin and valley quantum Hall ferromagnetism in graphene. <i>Nature Physics</i> , 2012, 8, 550-556.	16.7	307
12	Independent superconductors and correlated insulators in twisted bilayer graphene. <i>Nature Physics</i> , 2020, 16, 926-930.	16.7	276
13	The marvels of moiré materials. <i>Nature Reviews Materials</i> , 2021, 6, 201-206.	48.7	262
14	Large linear-in-temperature resistivity in twisted bilayer graphene. <i>Nature Physics</i> , 2019, 15, 1011-1016.	16.7	240
15	Tunable symmetry breaking and helical edge transport in a graphene quantum spin Hall state. <i>Nature</i> , 2014, 505, 528-532.	27.8	229
16	Graphene based heterostructures. <i>Solid State Communications</i> , 2012, 152, 1275-1282.	1.9	184
17	Electrical switching of magnetic order in an orbital Chern insulator. <i>Nature</i> , 2020, 588, 66-70.	27.8	179
18	Superconductivity in rhombohedral trilayer graphene. <i>Nature</i> , 2021, 598, 434-438.	27.8	178

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19	Tunable interacting composite fermion phases in a half-filled bilayer-graphene Landau level. Nature, 2017, 549, 360-364.	27.8	163
20	Observation of fractional Chern insulators in a van der Waals heterostructure. Science, 2018, 360, 62-66.	12.6	147
21	Evidence for a spin phase transition at charge neutrality in bilayer graphene. Nature Physics, 2013, 9, 154-158.	16.7	138
22	Hofstadter subband ferromagnetism and symmetry-broken Chern insulators in twisted bilayer graphene. Nature Physics, 2021, 17, 478-481.	16.7	138
23	Channel Length Scaling in Graphene Field-Effect Transistors Studied with Pulsed Current-Voltage Measurements. Nano Letters, 2011, 11, 1093-1097.	9.1	135
24	Visualization of superparamagnetic dynamics in magnetic topological insulators. Science Advances, 2015, 1, e1500740.	10.3	129
25	Tuning ultrafast electron thermalization pathways in a van der Waals heterostructure. Nature Physics, 2016, 12, 455-459.	16.7	127
26	Isospin magnetism and spin-polarized superconductivity in Bernal bilayer graphene. Science, 2022, 375, 774-778.	12.6	127
27	Spin-orbit-driven band inversion in bilayer graphene by the van der Waals proximity effect. Nature, 2019, 571, 85-89.	27.8	126
28	Interstitial dinitrogen makes PtN <sub>2</sub> an insulating hard solid. Physical Review B, 2006, 73, .	3.2	125
29	Isospin Pomeranchuk effect in twisted bilayer graphene. Nature, 2021, 592, 220-224.	27.8	125
30	Electronic compressibility of layer-polarized bilayer graphene. Physical Review B, 2012, 85, .	3.2	121
31	Half- and quarter-metals in rhombohedral trilayer graphene. Nature, 2021, 598, 429-433.	27.8	119
32	Even-denominator fractional quantum Hall states at an isospin transition in monolayer graphene. Nature Physics, 2018, 14, 930-935.	16.7	100
33	Imaging orbital ferromagnetism in a moiré Chern insulator. Science, 2021, 372, 1323-1327.	12.6	94
34	Electronic Transport in Graphene Heterostructures. Annual Review of Condensed Matter Physics, 2011, 2, 101-120.	14.5	92
35	Renormalization of the Graphene Dispersion Velocity Determined from Scanning Tunneling Spectroscopy. Physical Review Letters, 2012, 109, 116802.	7.8	86
36	Linear Magnetoelectric Phase in Ultrathin $MnPS_3$ Probed by Optical Second Harmonic Generation. Physical Review Letters, 2020, 124, 027601.	7.8	80

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37	Helical edge states and fractional quantum Hall effect in a graphene electron-hole bilayer. Nature Nanotechnology, 2017, 12, 118-122.	31.5	72
38	Direct measurement of discrete valley and orbital quantum numbers in bilayer graphene. Nature Communications, 2017, 8, 948.	12.8	71
39	Graphene field-effect transistors based on boron nitride gate dielectrics. , 2010, , .		67
40	Collapse of Landau Levels in Gated Graphene Structures. Physical Review Letters, 2011, 106, 066601.	7.8	48
41	Quantum and classical confinement of resonant states in a trilayer graphene Fabry-Pérot interferometer. Nature Communications, 2012, 3, 1239.	12.8	48
42	Mineral associations and character of isotopically anomalous organic material in the Tagish Lake carbonaceous chondrite. Geochimica Et Cosmochimica Acta, 2010, 74, 5966-5983.	3.9	40
43	Solids of quantum Hall skyrmions in graphene. Nature Physics, 2020, 16, 154-158.	16.7	39
44	Quantitative Transport Measurements of Fractional Quantum Hall Energy Gaps in Edgeless Graphene Devices. Physical Review Letters, 2018, 121, 226801.	7.8	38
45	Topological charge density waves at half-integer filling of a moiré superlattice. Nature Physics, 2022, 18, 42-47.	16.7	34
46	Emergent Dirac Gullies and Gully-Symmetry-Breaking Quantum Hall States in $A$ Trilayer Graphene. Physical Review Letters, 2018, 121, 167601.	7.8	30
47	Capacitance of graphene bilayer as a probe of layer-specific properties. Physical Review B, 2011, 84, .	3.2	28
48	Experimental Determination of the Energy per Particle in Partially Filled Landau Levels. Physical Review Letters, 2021, 126, 156802.	7.8	24
49	Electrically Tunable Multiterminal SQUID-on-Tip. Nano Letters, 2016, 16, 6910-6915.	9.1	18
50	Bilayer Graphene as a Platform for Bosonic Symmetry-Protected Topological States. Physical Review Letters, 2017, 118, 126801.	7.8	13
51	On-chip terahertz modulation and emission with integrated graphene junctions. Applied Physics Letters, 2020, 116, .	3.3	13
52	Quantum Oscillations in Two-Dimensional Insulators Induced by Graphite Gates. Physical Review Letters, 2021, 127, 247702.	7.8	12
53	Topological Exciton Fermi Surfaces in Two-Component Fractional Quantized Hall Insulators. Physical Review Letters, 2018, 121, 026603.	7.8	11
54	Current distribution in a slit connecting two graphene half planes. Physical Review B, 2020, 102, .	3.2	10

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55	Quantum oscillations observed in graphene at microwave frequencies. Applied Physics Letters, 2010, 97, 062113.	3.3	9
56	Strong-Magnetic-Field Magnon Transport in Monolayer Graphene. Physical Review X, 2022, 12, .	8.9	8
57	Fractional Chern insulator edges and layer-resolved lattice contacts. Physical Review B, 2019, 99, .	3.2	7
58	Fractional Quantum Hall Effects in Graphene. , 2020, , 317-375.		7
59	Graphene nanoribbon devices and quantum heterojunction devices. , 2009, , .		5
60	Torque magnetometry of an amorphous-alumina/strontium-titanate interface. Physical Review B, 2014, 90, .	3.2	4
61	Experimental Manifestation of Berry Phase in Graphene. Nanoscience and Technology, 2014, , 3-27.	1.5	2
62	Toward carbon based quantum electronics: Quantum transport in graphene heterojunctions. , 2011, , .		1