

Andrea F Young

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/456881/publications.pdf>

Version: 2024-02-01

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	Isospin magnetism and spin-polarized superconductivity in Bernal bilayer graphene. <i>Science</i> , 2022, 375, 774-778.	12.6	127
2	Topological charge density waves at half-integer filling of a moiré superlattice. <i>Nature Physics</i> , 2022, 18, 42-47.	16.7	34
3	Strong-Magnetic-Field Magnon Transport in Monolayer Graphene. <i>Physical Review X</i> , 2022, 12, .	8.9	8
4	Hofstadter subband ferromagnetism and symmetry-broken Chern insulators in twisted bilayer graphene. <i>Nature Physics</i> , 2021, 17, 478-481.	16.7	138
5	The marvels of moiré materials. <i>Nature Reviews Materials</i> , 2021, 6, 201-206.	48.7	262
6	Experimental Determination of the Energy per Particle in Partially Filled Landau Levels. <i>Physical Review Letters</i> , 2021, 126, 156802.	7.8	24
7	Isospin Pomeranchuk effect in twisted bilayer graphene. <i>Nature</i> , 2021, 592, 220-224.	27.8	125
8	Imaging orbital ferromagnetism in a moiré Chern insulator. <i>Science</i> , 2021, 372, 1323-1327.	12.6	94
9	Superconductivity in rhombohedral trilayer graphene. <i>Nature</i> , 2021, 598, 434-438.	27.8	178
10	Half- and quarter-metals in rhombohedral trilayer graphene. <i>Nature</i> , 2021, 598, 429-433.	27.8	119
11	Quantum Oscillations in Two-Dimensional Insulators Induced by Graphite Gates. <i>Physical Review Letters</i> , 2021, 127, 247702.	7.8	12
12	Intrinsic quantized anomalous Hall effect in a moiré heterostructure. <i>Science</i> , 2020, 367, 900-903.	12.6	844
13	Solids of quantum Hall skyrmions in graphene. <i>Nature Physics</i> , 2020, 16, 154-158.	16.7	39
14	Electrical switching of magnetic order in an orbital Chern insulator. <i>Nature</i> , 2020, 588, 66-70.	27.8	179
15	Current distribution in a slit connecting two graphene half planes. <i>Physical Review B</i> , 2020, 102, .	3.2	10
16	Superconductivity and strong correlations in moiré flat bands. <i>Nature Physics</i> , 2020, 16, 725-733.	16.7	448
17	Independent superconductors and correlated insulators in twisted bilayer graphene. <i>Nature Physics</i> , 2020, 16, 926-930.	16.7	276
18	Linear Magnetoelectric Phase in Ultrathin MnPS_3 Probed by Optical Second Harmonic Generation. <i>Physical Review Letters</i> , 2020, 124, 027601.	7.8	80

#	ARTICLE	IF	CITATIONS
19	On-chip terahertz modulation and emission with integrated graphene junctions. Applied Physics Letters, 2020, 116, .	3.3	13
20	Fractional Quantum Hall Effects in Graphene. , 2020, , 317-375.		7
21	Large linear-in-temperature resistivity in twisted bilayer graphene. Nature Physics, 2019, 15, 1011-1016.	16.7	240
22	Tuning superconductivity in twisted bilayer graphene. Science, 2019, 363, 1059-1064.	12.6	1,460
23	Spin-orbit-driven band inversion in bilayer graphene by the van der Waals proximity effect. Nature, 2019, 571, 85-89.	27.8	126
24	Fractional Chern insulator edges and layer-resolved lattice contacts. Physical Review B, 2019, 99, .	3.2	7
25	Observation of fractional Chern insulators in a van der Waals heterostructure. Science, 2018, 360, 62-66.	12.6	147
26	Quantitative Transport Measurements of Fractional Quantum Hall Energy Gaps in Edgeless Graphene Devices. Physical Review Letters, 2018, 121, 226801.	7.8	38
27	Emergent Dirac Gullies and Gully-Symmetry-Breaking Quantum Hall States in A B A Trilayer Graphene. Physical Review Letters, 2018, 121, 167601.	7.8	30
28	Even-denominator fractional quantum Hall states at an isospin transition in monolayer graphene. Nature Physics, 2018, 14, 930-935.	16.7	100
29	Topological Exciton Fermi Surfaces in Two-Component Fractional Quantized Hall Insulators. Physical Review Letters, 2018, 121, 026603.	7.8	11
30	Bilayer Graphene as a Platform for Bosonic Symmetry-Protected Topological States. Physical Review Letters, 2017, 118, 126801.	7.8	13
31	Direct measurement of discrete valley and orbital quantum numbers in bilayer graphene. Nature Communications, 2017, 8, 948.	12.8	71
32	Tunable interacting composite fermion phases in a half-filled bilayer-graphene Landau level. Nature, 2017, 549, 360-364.	27.8	163
33	Helical edge states and fractional quantum Hall effect in a graphene electron-hole bilayer. Nature Nanotechnology, 2017, 12, 118-122.	31.5	72
34	Electrically Tunable Multiterminal SQUID-on-Tip. Nano Letters, 2016, 16, 6910-6915.	9.1	18
35	Tuning ultrafast electron thermalization pathways in a van der Waals heterostructure. Nature Physics, 2016, 12, 455-459.	16.7	127
36	Visualization of superparamagnetic dynamics in magnetic topological insulators. Science Advances, 2015, 1, e1500740.	10.3	129

#	ARTICLE	IF	CITATIONS
37	Torque magnetometry of an amorphous-alumina/strontium-titanate interface. <i>Physical Review B</i> , 2014, 90, .	3.2	4
38	Experimental Manifestation of Berry Phase in Graphene. <i>Nanoscience and Technology</i> , 2014, , 3-27.	1.5	2
39	Tunable symmetry breaking and helical edge transport in a graphene quantum spin Hall state. <i>Nature</i> , 2014, 505, 528-532.	27.8	229
40	Evidence for a spin phase transition at charge neutrality in bilayer graphene. <i>Nature Physics</i> , 2013, 9, 154-158.	16.7	138
41	Massive Dirac Fermions and Hofstadter Butterfly in a van der Waals Heterostructure. <i>Science</i> , 2013, 340, 1427-1430.	12.6	1,392
42	Quantum and classical confinement of resonant states in a trilayer graphene Fabry-Pérot interferometer. <i>Nature Communications</i> , 2012, 3, 1239.	12.8	48
43	Graphene based heterostructures. <i>Solid State Communications</i> , 2012, 152, 1275-1282.	1.9	184
44	Renormalization of the Graphene Dispersion Velocity Determined from Scanning Tunneling Spectroscopy. <i>Physical Review Letters</i> , 2012, 109, 116802.	7.8	86
45	Electronic compressibility of layer-polarized bilayer graphene. <i>Physical Review B</i> , 2012, 85, .	3.2	121
46	Spin and valley quantum Hall ferromagnetism in graphene. <i>Nature Physics</i> , 2012, 8, 550-556.	16.7	307
47	Toward carbon based quantum electronics: Quantum transport in graphene heterojunctions. , 2011, , .		1
48	Capacitance of graphene bilayer as a probe of layer-specific properties. <i>Physical Review B</i> , 2011, 84, .	3.2	28
49	Channel Length Scaling in Graphene Field-Effect Transistors Studied with Pulsed Current-Voltage Measurements. <i>Nano Letters</i> , 2011, 11, 1093-1097.	9.1	135
50	Collapse of Landau Levels in Gated Graphene Structures. <i>Physical Review Letters</i> , 2011, 106, 066601.	7.8	48
51	Multicomponent fractional quantum Hall effect in graphene. <i>Nature Physics</i> , 2011, 7, 693-696.	16.7	405
52	Electronic Transport in Graphene Heterostructures. <i>Annual Review of Condensed Matter Physics</i> , 2011, 2, 101-120.	14.5	92
53	Boron nitride substrates for high-quality graphene electronics. <i>Nature Nanotechnology</i> , 2010, 5, 722-726.	31.5	5,794
54	Quantum oscillations observed in graphene at microwave frequencies. <i>Applied Physics Letters</i> , 2010, 97, 062113.	3.3	9

#	ARTICLE	IF	CITATIONS
55	Graphene field-effect transistors based on boron nitride gate dielectrics. , 2010, , .		67
56	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.	3.9	40
57	Quantum interference and Klein tunnelling in graphene heterojunctions. <i>Nature Physics</i> , 2009, 5, 222-226.	16.7	1,011
58	Graphene nanoribbon devices and quantum heterojunction devices. , 2009, , .		5
59	Current saturation in zero-bandgap, top-gated graphene field-effect transistors. <i>Nature Nanotechnology</i> , 2008, 3, 654-659.	31.5	1,426
60	Synthesis of Novel Transition Metal NitridesIrN ₂ andOsN ₂ . <i>Physical Review Letters</i> , 2006, 96, 155501.	7.8	481
61	Interstellar Chemistry Recorded in Organic Matter from Primitive Meteorites. <i>Science</i> , 2006, 312, 727-730.	12.6	315
62	Interstitial dinitrogen makesPtN ₂ an insulating hard solid. <i>Physical Review B</i> , 2006, 73, .	3.2	125