Eva Y Andrei

List of Publications by Year
in descending order

44 papers	7,917 citations	185998 28 h-index	243296 44 g-index
48 all docs	48 docs citations	48 times ranked	9848 citing authors

#	Article	IF	Citations
1	Approaching ballistic transport in suspended graphene. Nature Nanotechnology, 2008, 3, 491-495.	15.6	2,865
2	Fractional quantum Hall effect and insulating phase of Dirac electrons in graphene. Nature, 2009, 462, 192-195.	13.7	823
3	Charge order and broken rotational symmetry in magic-angle twisted bilayer graphene. Nature, 2019, 573, 91-95.	13.7	491
4	Scanning Tunneling Spectroscopy of Graphene on Graphite. Physical Review Letters, 2009, 102, 176804.	2.9	456
5	Graphene bilayers with a twist. Nature Materials, 2020, 19, 1265-1275.	13.3	416
6	Observation of Landau levels of Dirac fermions in graphite. Nature Physics, 2007, 3, 623-627.	6.5	308
7	Bandgap, Mid-Gap States, and Gating Effects in MoS₂. Nano Letters, 2014, 14, 4628-4633.	4.5	286
8	The marvels of moirÃ© materials. Nature Reviews Materials, 2021, 6, 201-206.	23.3	262
9	Electronic properties of graphene: a perspective from scanning tunneling microscopy and magnetotransport. Reports on Progress in Physics, 2012, 75, 056501.	8.1	220
10	Chern insulators, van Hove singularities and topological flat bands in magic-angle twisted bilayer graphene. Nature Materials, 2021, 20, 488-494.	13.3	192
11	Epitaxial growth of topological insulator Bi2Se3 film on Si(111) with atomically sharp interface. Thin Solid Films, 2011, 520, 224-229.	0.8	180
12	Visualizing Strain-Induced Pseudomagnetic Fields in Graphene through an hBN Magnifying Glass. Nano Letters, 2017, 17, 2839-2843.	4.5	125
13	Evidence of flat bands and correlated states in buckled graphene superlattices. Nature, 2020, 584, 215-220.	13.7	118
14	High thermoelectricpower factor in graphene/hBN devices. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14272-14276.	3.3	112
15	Realization of a tunable artificial atom at a supercritically charged vacancy in graphene. Nature Physics, 2016, 12, 545-549.	6.5	110
16	Flame synthesis of graphene films in open environments. Carbon, 2011, 49, 5064-5070.	5.4	90
17	Quantized Landau level spectrum and its density dependence in graphene. Physical Review B, 2011, 83, .	1.1	90
18	Tuning a circular pâ€“n junction in graphene from quantum confinement to optical guiding. Nature Nanotechnology, 2017, 12, 1045-1049.	15.6	79

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19	Observation of the Polaronic Transition in a Two-Dimensional Electron System. Physical Review Letters, 1984, 52, 1449-1452.	2.9	73
20	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MoS</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></r Choice Substrate for Accessing and Tuning the Electronic Properties of Graphene. Physical Review Letters, 2014, 113, 156804.	2.9	69
21	Screening Charged Impurities and Lifting the Orbital Degeneracy in Graphene by Populating Landau Levels. Physical Review Letters, 2014, 112, 036804.	2.9	65
22	Scanning tunneling microscopy and spectroscopy of graphene layers on graphite. Solid State Communications, 2009, 149, 1151-1156.	0.9	56
23	Ferromagnetism in magic-angle graphene. Science, 2019, 365, 543-543.	6.0	50
24	Ageing memory and glassiness of a driven vortex system. Nature Physics, 2007, 3, 111-114.	6.5	48
25	Evolution of Landau levels into edge states in graphene. Nature Communications, 2013, 4, 1744.	5.8	48
26	Inducing Kondo screening of vacancy magnetic moments in graphene with gating and local curvature. Nature Communications, 2018, 9, 2349.	5.8	44
27	Onset of Motion and Dynamic Reordering of a Vortex Lattice. Physical Review Letters, 2006, 96, 017009.	2.9	31
28	Local, global, and nonlinear screening in twisted double-layer graphene. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6623-6628.	3.3	30
29	Self-navigation of a scanning tunneling microscope tip toward a micron-sized graphene sample. Review of Scientific Instruments, 2011, 82, 073701.	0.6	28
30	TOWARDS BALLISTIC TRANSPORT IN GRAPHENE. International Journal of Modern Physics B, 2008, 22, 4579-4588.	1.0	25
31	Scientists of the world speak up for equality. Nature, 2013, 495, 35-38.	13.7	23
32	Flat band carrier confinement in magic-angle twisted bilayer graphene. Nature Communications, 2021, 12, 4180.	5.8	22
33	Modeling of the gate-controlled Kondo effect at carbon point defects in graphene. Physical Review B, 2018, 97, .	1.1	14
34	Tunneling time and energy uncertainty of surface-state electrons. Physical Review B, 1992, 46, 2448-2451.	1.1	12
35	Charge Density Wave Vortex Lattice Observed in Graphene-Passivated 1T-TaS₂ by Ambient Scanning Tunneling Microscopy. Nano Letters, 2021, 21, 6132-6138.	4.5	11
36	Electrostatic imaging of encapsulated graphene. 2D Materials, 2019, 6, 045034.	2.0	9

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37	Atomic scale characterization of mismatched graphene layers. Journal of Electron Spectroscopy and Related Phenomena, 2017, 219, 92-98.	0.8	8
38	Nanoscale Internal Fields in a Biased Grapheneâ€“Insulatorâ€“Semiconductor Structure. Journal of Physical Chemistry Letters, 2016, 7, 3434-3439.	2.1	5
39	Observation of a topological defect lattice in the charge density wave of 1T-TaS2. Applied Physics Letters, 2021, 119, .	1.5	5
40	Electronic states on the surface of graphite. Physica B: Condensed Matter, 2009, 404, 2673-2677.	1.3	3
41	Probing Dirac Fermions in Graphene by Scanning Tunneling Microscopy and Spectroscopy. Nanoscience and Technology, 2014, , 29-63.	1.5	2
42	Dynamic phase boundary of a moving Bragg glass. Physica C: Superconductivity and Its Applications, 2004, 408-410, 510-511.	0.6	1
43	TOWARDS BALLISTIC TRANSPORT IN GRAPHENE. , 2008, , .		0
44	Scanning Tunneling Microscopy and Spectroscopy of Graphene. Nanoscience and Technology, 2011, , 57-91.	1.5	0