Yuan Cao

List of Publications by Year
in descending order

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24 papers	12,660 citations	257357 24 h-index	580701 25 g-index
26 all docs	26 docs citations	26 times ranked	9787 citing authors

#	Article	IF	Citations
1	Robust superconductivity in magic-angle multilayer graphene family. Nature Materials, 2022, 21, 877-883.	13.3	100
2	Tunable strongly coupled superconductivity in magic-angle twisted trilayer graphene. Nature, 2021, 590, 249-255.	13.7	449
3	Flavour Hundâ€™s coupling, Chern gaps and charge diffusivity in moirÃ© graphene. Nature, 2021, 592, 43-48.	13.7	127
4	Entropic evidence for a Pomeranchuk effect in magic-angle graphene. Nature, 2021, 592, 214-219.	13.7	118
5	Nematicity and competing orders in superconducting magic-angle graphene. Science, 2021, 372, 264-271.	6.0	223
6	Highly tunable junctions and non-local Josephson effect in magic-angle graphene tunnelling devices. Nature Nanotechnology, 2021, 16, 769-775.	15.6	58
7	Pauli-limit violation and re-entrant superconductivity in moirÃ© graphene. Nature, 2021, 595, 526-531.	13.7	165
8	Observation of interband collective excitations in twisted bilayer graphene. Nature Physics, 2021, 17, 1162-1168.	6.5	47
9	Unconventional sequence of correlated Chern insulators in magic-angle twisted bilayer graphene. Nature Physics, 2021, 17, 1210-1215.	6.5	78
10	Fractional Chern insulators in magic-angle twisted bilayer graphene. Nature, 2021, 600, 439-443.	13.7	158
11	Mapping the twist-angle disorder and Landau levels in magic-angle graphene. Nature, 2020, 581, 47-52.	13.7	241
12	Tunable correlated states and spin-polarized phases in twisted bilayerâ€“bilayer graphene. Nature, 2020, 583, 215-220.	13.7	433
13	Cascade of phase transitions and Dirac revivals in magic-angle graphene. Nature, 2020, 582, 203-208.	13.7	297
14	Deepâ€Learningâ€Enabled Fast Optical Identification and Characterization of 2D Materials. Advanced Materials, 2020, 32, e2000953.	11.1	54
15	Strange Metal in Magic-Angle Graphene with near Planckian Dissipation. Physical Review Letters, 2020, 124, 076801.	2.9	293
16	Electronic Compressibility of Magic-Angle Graphene Superlattices. Physical Review Letters, 2019, 123, 046601.	2.9	106
17	Nearly flat Chern bands in moirÃ© superlattices. Physical Review B, 2019, 99, .	1.1	295
18	Giant intrinsic photoresponse in pristine graphene. Nature Nanotechnology, 2019, 14, 145-150.	15.6	61

#	Article	IF	Citations
19	Correlated insulator behaviour at half-filling in magic-angle graphene superlattices. Nature, 2018, 556, 80-84.	13.7	3,086
20	Unconventional superconductivity in magic-angle graphene superlattices. Nature, 2018, 556, 43-50.	13.7	5,221
21	Electrically tunable low-density superconductivity in a monolayer topological insulator. Science, 2018, 362, 926-929.	6.0	271
22	A MoTe2-based light-emitting diode and photodetector for silicon photonic integrated circuits. Nature Nanotechnology, 2017, 12, 1124-1129.	15.6	344
23	High-temperature quantum oscillations caused by recurring Bloch states in graphene superlattices. Science, 2017, 357, 181-184.	6.0	117
24	Superlattice-Induced Insulating States and Valley-Protected Orbits in Twisted Bilayer Graphene. Physical Review Letters, 2016, 117, 116804.	2.9	312