

Yuan Cao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9578919/publications.pdf>

Version: 2024-02-01

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 | Unconventional superconductivity in magic-angle graphene superlattices. Nature, 2018, 556, 43-50. | 13.7 | 5,221 |
| 2 | Correlated insulator behaviour at half-filling in magic-angle graphene superlattices. Nature, 2018, 556, 80-84. | 13.7 | 3,086 |
| 3 | Tunable strongly coupled superconductivity in magic-angle twisted trilayer graphene. Nature, 2021, 590, 249-255. | 13.7 | 449 |
| 4 | Tunable correlated states and spin-polarized phases in twisted bilayer bilayer graphene. Nature, 2020, 583, 215-220. | 13.7 | 433 |
| 5 | A MoTe ₂ -based light-emitting diode and photodetector for silicon photonic integrated circuits. Nature Nanotechnology, 2017, 12, 1124-1129. | 15.6 | 344 |
| 6 | Superlattice-Induced Insulating States and Valley-Protected Orbits in Twisted Bilayer Graphene. Physical Review Letters, 2016, 117, 116804. | 2.9 | 312 |
| 7 | Cascade of phase transitions and Dirac revivals in magic-angle graphene. Nature, 2020, 582, 203-208. | 13.7 | 297 |
| 8 | Nearly flat Chern bands in moiré superlattices. Physical Review B, 2019, 99, . | 1.1 | 295 |
| 9 | Strange Metal in Magic-Angle Graphene with near Planckian Dissipation. Physical Review Letters, 2020, 124, 076801. | 2.9 | 293 |
| 10 | Electrically tunable low-density superconductivity in a monolayer topological insulator. Science, 2018, 362, 926-929. | 6.0 | 271 |
| 11 | Mapping the twist-angle disorder and Landau levels in magic-angle graphene. Nature, 2020, 581, 47-52. | 13.7 | 241 |
| 12 | Nematicity and competing orders in superconducting magic-angle graphene. Science, 2021, 372, 264-271. | 6.0 | 223 |
| 13 | Pauli-limit violation and re-entrant superconductivity in moiré graphene. Nature, 2021, 595, 526-531. | 13.7 | 165 |
| 14 | Fractional Chern insulators in magic-angle twisted bilayer graphene. Nature, 2021, 600, 439-443. | 13.7 | 158 |
| 15 | Flavour Hund's coupling, Chern gaps and charge diffusivity in moiré graphene. Nature, 2021, 592, 43-48. | 13.7 | 127 |
| 16 | Entropic evidence for a Pomeranchuk effect in magic-angle graphene. Nature, 2021, 592, 214-219. | 13.7 | 118 |
| 17 | High-temperature quantum oscillations caused by recurring Bloch states in graphene superlattices. Science, 2017, 357, 181-184. | 6.0 | 117 |
| 18 | Electronic Compressibility of Magic-Angle Graphene Superlattices. Physical Review Letters, 2019, 123, 046601. | 2.9 | 106 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Robust superconductivity in magic-angle multilayer graphene family. Nature Materials, 2022, 21, 877-883. | 13.3 | 100 |
| 20 | Unconventional sequence of correlated Chern insulators in magic-angle twisted bilayer graphene. Nature Physics, 2021, 17, 1210-1215. | 6.5 | 78 |
| 21 | Giant intrinsic photoresponse in pristine graphene. Nature Nanotechnology, 2019, 14, 145-150. | 15.6 | 61 |
| 22 | Highly tunable junctions and non-local Josephson effect in magic-angle graphene tunnelling devices. Nature Nanotechnology, 2021, 16, 769-775. | 15.6 | 58 |
| 23 | Deepâ€Learningâ€Enabled Fast Optical Identification and Characterization of 2D Materials. Advanced Materials, 2020, 32, e2000953. | 11.1 | 54 |
| 24 | Observation of interband collective excitations in twisted bilayer graphene. Nature Physics, 2021, 17, 1162-1168. | 6.5 | 47 |