

Cory Dean

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82
papers

14,347
citations

37
h-index

90
g-index

90
ext. papers

18,002
ext. citations

19.4
avg, IF

6.44
L-index

#	Paper	IF	Citations
82	Crossover between strongly coupled and weakly coupled exciton superfluids.. <i>Science</i> , 2022 , 375, 205-209	33.3	4
81	Nano-spectroscopy of excitons in atomically thin transition metal dichalcogenides.. <i>Nature Communications</i> , 2022 , 13, 542	17.4	3
80	Orderly disorder in magic-angle twisted trilayer graphene.. <i>Science</i> , 2022 , 376, 193-199	33.3	8
79	Dissipation-enabled hydrodynamic conductivity in a tunable bandgap semiconductor.. <i>Science Advances</i> , 2022 , 8, eabi8481	14.3	1
78	Unusual magnetotransport in twisted bilayer graphene.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2118482119	11.5	2
77	Visualizing Atomically-Layered Magnetism in CrSBr.. <i>Advanced Materials</i> , 2022 , e2201000	24	2
76	Deep Learning Analysis of Polaritonic Wave Images. <i>ACS Nano</i> , 2021 ,	16.7	4
75	Nonmonotonic Temperature-Dependent Dissipation at Nonequilibrium in Atomically Thin Clean-Limit Superconductors. <i>Nano Letters</i> , 2021 , 21, 583-589	11.5	1
74	Diffusivity Reveals Three Distinct Phases of Interlayer Excitons in MoSe ₂ /WSe ₂ Heterobilayers. <i>Physical Review Letters</i> , 2021 , 126, 106804	7.4	18
73	Enhanced tunable second harmonic generation from twistable interfaces and vertical superlattices in boron nitride homostructures. <i>Science Advances</i> , 2021 , 7,	14.3	23
72	Hyperbolic enhancement of photocurrent patterns in minimally twisted bilayer graphene. <i>Nature Communications</i> , 2021 , 12, 1641	17.4	13
71	Enhanced Superconductivity in Monolayer -MoTe. <i>Nano Letters</i> , 2021 , 21, 2505-2511	11.5	14
70	Magnetic Order and Symmetry in the 2D Semiconductor CrSBr. <i>Nano Letters</i> , 2021 , 21, 3511-3517	11.5	27
69	Programmable Bloch polaritons in graphene. <i>Science Advances</i> , 2021 , 7,	14.3	1
68	Edge channels of broken-symmetry quantum Hall states in graphene visualized by atomic force microscopy. <i>Nature Communications</i> , 2021 , 12, 2852	17.4	3
67	Long-Lived Phonon Polaritons in Hyperbolic Materials. <i>Nano Letters</i> , 2021 , 21, 5767-5773	11.5	11
66	Interlayer electronic coupling on demand in a 2D magnetic semiconductor. <i>Nature Materials</i> , 2021 , 20, 1657-1662	27	12

65	Electrically tunable correlated and topological states in twisted monolayer/bilayer graphene. <i>Nature Physics</i> , 2021 , 17, 374-380	16.2	64
64	Moiré metrology of energy landscapes in van der Waals heterostructures. <i>Nature Communications</i> , 2021 , 12, 242	17.4	22
63	Anisotropic band flattening in graphene with one-dimensional superlattices. <i>Nature Nanotechnology</i> , 2021 , 16, 525-530	28.7	10
62	Dual-Gated Graphene Devices for Near-Field Nano-imaging. <i>Nano Letters</i> , 2021 , 21, 1688-1693	11.5	5
61	Moiré heterostructures as a condensed-matter quantum simulator. <i>Nature Physics</i> , 2021 , 17, 155-163	16.2	66
60	Andreev Reflections in NbN/Graphene Junctions under Large Magnetic Fields. <i>Nano Letters</i> , 2021 , 21, 8229-8235	11.5	0
59	Nanoscale lattice dynamics in hexagonal boron nitride moiré superlattices. <i>Nature Communications</i> , 2021 , 12, 5741	17.4	7
58	Quantum criticality in twisted transition metal dichalcogenides. <i>Nature</i> , 2021 , 597, 345-349	50.4	17
57	Moiréless correlations in ABCA graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	21
56	Superconductivity and strong correlations in moiré flat bands. <i>Nature Physics</i> , 2020 , 16, 725-733	16.2	139
55	Correlated electronic phases in twisted bilayer transition metal dichalcogenides. <i>Nature Materials</i> , 2020 , 19, 861-866	27	197
54	Visualization of moiré superlattices. <i>Nature Nanotechnology</i> , 2020 , 15, 580-584	28.7	88
53	Odd- and even-denominator fractional quantum Hall states in monolayer WSe. <i>Nature Nanotechnology</i> , 2020 , 15, 569-573	28.7	21
52	Doping-Induced Superconductivity in the van der Waals Superatomic Crystal ReSeCl. <i>Nano Letters</i> , 2020 , 20, 1718-1724	11.5	13
51	Fractional Quantum Hall Effects in Graphene 2020 , 317-375		4
50	Charge-Transfer Plasmon Polaritons at Graphene/IRuCl Interfaces. <i>Nano Letters</i> , 2020 , 20, 8438-8445	11.5	17
49	Layered Antiferromagnetism Induces Large Negative Magnetoresistance in the van der Waals Semiconductor CrSBr. <i>Advanced Materials</i> , 2020 , 32, e2003240	24	30
48	Tuning superconductivity in twisted bilayer graphene. <i>Science</i> , 2019 , 363, 1059-1064	33.3	814

47	Pairing states of composite fermions in double-layer graphene. <i>Nature Physics</i> , 2019 , 15, 898-903	16.2	28
46	Hierarchical patterns with sub-20 nm pattern fidelity via block copolymer self-assembly and soft nanotransfer printing. <i>Polymer Chemistry</i> , 2019 , 10, 3194-3200	4.9	3
45	High-Quality Electrostatically Defined Hall Bars in Monolayer Graphene. <i>Nano Letters</i> , 2019 , 19, 2583-2587.5	7.5	9
44	Sensitivity of the superconducting state in thin films. <i>Science Advances</i> , 2019 , 5, eaau3826	14.3	30
43	High-Quality Magnetotransport in Graphene Using the Edge-Free Corbino Geometry. <i>Physical Review Letters</i> , 2019 , 122, 137701	7.4	37
42	Large linear-in-temperature resistivity in twisted bilayer graphene. <i>Nature Physics</i> , 2019 , 15, 1011-1016	16.2	127
41	Fragility of the dissipationless state in clean two-dimensional superconductors. <i>Nature Physics</i> , 2019 , 15, 947-953	16.2	13
40	Maximized electron interactions at the magic angle in twisted bilayer graphene. <i>Nature</i> , 2019 , 572, 95-100	30.4	351
39	Switching 2D magnetic states via pressure tuning of layer stacking. <i>Nature Materials</i> , 2019 , 18, 1298-1302.7	12.7	194
38	Photonic crystal for graphene plasmons. <i>Nature Communications</i> , 2019 , 10, 4780	17.4	30
37	Tunable crystal symmetry in graphene-boron nitride heterostructures with coexisting moiré superlattices. <i>Nature Nanotechnology</i> , 2019 , 14, 1029-1034	28.7	61
36	Competing Fractional Quantum Hall and Electron Solid Phases in Graphene. <i>Physical Review Letters</i> , 2019 , 122, 026802	7.4	17
35	Via Method for Lithography Free Contact and Preservation of 2D Materials. <i>Nano Letters</i> , 2018 , 18, 1416-1420	14.2	37
34	Ambipolar Landau levels and strong band-selective carrier interactions in monolayer WSe ₂ . <i>Nature Materials</i> , 2018 , 17, 411-415	27	41
33	Band structure engineering of 2D materials using patterned dielectric superlattices. <i>Nature Nanotechnology</i> , 2018 , 13, 566-571	28.7	87
32	Twistable electronics with dynamically rotatable heterostructures. <i>Science</i> , 2018 , 361, 690-693	33.3	242
31	Emergent Dirac Gullies and Gully-Symmetry-Breaking Quantum Hall States in ABA Trilayer Graphene. <i>Physical Review Letters</i> , 2018 , 121, 167601	7.4	10
30	Fundamental limits to graphene plasmonics. <i>Nature</i> , 2018 , 557, 530-533	50.4	280

29	Dynamic band-structure tuning of graphene moiré superlattices with pressure. <i>Nature</i> , 2018 , 557, 404-408	30.4	154
28	Excitonic superfluid phase in double bilayer graphene. <i>Nature Physics</i> , 2017 , 13, 751-755	16.2	85
27	Even-denominator fractional quantum Hall states in bilayer graphene. <i>Science</i> , 2017 , 358, 648-652	33.3	58
26	Direct measurement of discrete valley and orbital quantum numbers in bilayer graphene. <i>Nature Communications</i> , 2017 , 8, 948	17.4	49
25	Frictional Magneto-Coulomb Drag in Graphene Double-Layer Heterostructures. <i>Physical Review Letters</i> , 2017 , 119, 056802	7.4	16
24	Multiple hot-carrier collection in photo-excited graphene Moiré superlattices. <i>Science Advances</i> , 2016 , 2, e1600002	14.3	28
23	Negative Coulomb Drag in Double Bilayer Graphene. <i>Physical Review Letters</i> , 2016 , 117, 046802	7.4	60
22	Unconventional Correlation between Quantum Hall Transport Quantization and Bulk State Filling in Gated Graphene Devices. <i>Physical Review Letters</i> , 2016 , 117, 186601	7.4	23
21	Resistivity of Rotated Graphite-Graphene Contacts. <i>Nano Letters</i> , 2016 , 16, 4477-82	11.5	45
20	Nature of the quantum metal in a two-dimensional crystalline superconductor. <i>Nature Physics</i> , 2016 , 12, 208-212	16.2	177
19	Specular interband Andreev reflections at van der Waals interfaces between graphene and NbSe ₂ . <i>Nature Physics</i> , 2016 , 12, 328-332	16.2	108
18	Oxygen-activated growth and bandgap tunability of large single-crystal bilayer graphene. <i>Nature Nanotechnology</i> , 2016 , 11, 426-31	28.7	227
17	Quantifying electronic band interactions in van der Waals materials using angle-resolved reflected-electron spectroscopy. <i>Nature Communications</i> , 2016 , 7, 13621	17.4	23
16	Electron optics with p-n junctions in ballistic graphene. <i>Science</i> , 2016 , 353, 1522-1525	33.3	189
15	Properties of Self-Aligned Short-Channel Graphene Field-Effect Transistors Based on Boron-Nitride-Dielectric Encapsulation and Edge Contacts. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 4322-4326	2.9	15
14	Evidence for a fractional fractal quantum Hall effect in graphene superlattices. <i>Science</i> , 2015 , 350, 1231-4	33.3	107
13	Bilayer graphene. Tunable fractional quantum Hall phases in bilayer graphene. <i>Science</i> , 2014 , 345, 61-4	33.3	113
12	One-dimensional electrical contact to a two-dimensional material. <i>Science</i> , 2013 , 342, 614-7	33.3	1676

11	Evidence for a spin phase transition at charge neutrality in bilayer graphene. <i>Nature Physics</i> , 2013 , 9, 154-158	16.2	115
10	Graphene Field-Effect Transistors Based on Boron Nitride Dielectrics. <i>Proceedings of the IEEE</i> , 2013 , 101, 1609-1619	14.3	114
9	Probing symmetry properties of few-layer MoS ₂ and h-BN by optical second-harmonic generation. <i>Nano Letters</i> , 2013 , 13, 3329-33	11.5	649
8	Hofstadter's butterfly and the fractal quantum Hall effect in moiré superlattices. <i>Nature</i> , 2013 , 497, 598-602	15.4	1084
7	Chemical vapor deposition-derived graphene with electrical performance of exfoliated graphene. <i>Nano Letters</i> , 2012 , 12, 2751-6	11.5	321
6	Electronic compressibility of layer-polarized bilayer graphene. <i>Physical Review B</i> , 2012 , 85,	3.3	112
5	Spin and valley quantum Hall ferromagnetism in graphene. <i>Nature Physics</i> , 2012 , 8, 550-556	16.2	255
4	High-frequency performance of graphene field effect transistors with saturating IV-characteristics 2011 ,		27
3	Multicomponent fractional quantum Hall effect in graphene. <i>Nature Physics</i> , 2011 , 7, 693-696	16.2	347
2	Boron nitride substrates for high-quality graphene electronics. <i>Nature Nanotechnology</i> , 2010 , 5, 722-6	28.7	4874
1	Graphene/BN Heterostructures 219-237		