

# Cory Dean

## List of Publications by Year in descending order

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87  
papers

21,324  
citations

38660

50  
h-index

54797

84  
g-index

90  
all docs

90  
docs citations

90  
times ranked

18629  
citing authors

#	ARTICLE	IF	CITATIONS
1	Boron nitride substrates for high-quality graphene electronics. <i>Nature Nanotechnology</i> , 2010, 5, 722-726.	15.6	5,794
2	One-Dimensional Electrical Contact to a Two-Dimensional Material. <i>Science</i> , 2013, 342, 614-617.	6.0	2,236
3	Tuning superconductivity in twisted bilayer graphene. <i>Science</i> , 2019, 363, 1059-1064.	6.0	1,460
4	Hofstadter's butterfly and the fractal quantum Hall effect in moiré superlattices. <i>Nature</i> , 2013, 497, 598-602.	13.7	1,404
5	Probing Symmetry Properties of Few-Layer MoS <sub>2</sub> and h-BN by Optical Second-Harmonic Generation. <i>Nano Letters</i> , 2013, 13, 3329-3333.	4.5	848
6	Maximized electron interactions at the magic angle in twisted bilayer graphene. <i>Nature</i> , 2019, 572, 95-100.	13.7	644
7	Correlated electronic phases in twisted bilayer transition metal dichalcogenides. <i>Nature Materials</i> , 2020, 19, 861-866.	13.3	544
8	Superconductivity and strong correlations in moiré flat bands. <i>Nature Physics</i> , 2020, 16, 725-733.	6.5	448
9	Multicomponent fractional quantum Hall effect in Ågraphene. <i>Nature Physics</i> , 2011, 7, 693-696.	6.5	405
10	Fundamental limits to graphene plasmonics. <i>Nature</i> , 2018, 557, 530-533.	13.7	401
11	Twistable electronics with dynamically rotatable heterostructures. <i>Science</i> , 2018, 361, 690-693.	6.0	387
12	Chemical Vapor Deposition-Derived Graphene with Electrical Performance of Exfoliated Graphene. <i>Nano Letters</i> , 2012, 12, 2751-2756.	4.5	365
13	Switching 2D magnetic states via pressure tuning of layer stacking. <i>Nature Materials</i> , 2019, 18, 1298-1302.	13.3	358
14	Moiré heterostructures as a condensed-matter quantum simulator. <i>Nature Physics</i> , 2021, 17, 155-163.	6.5	317
15	Spin and valley quantum Hall ferromagnetism in Ågraphene. <i>Nature Physics</i> , 2012, 8, 550-556.	6.5	307
16	Oxygen-activated growth and bandgap tunability of large single-crystal bilayer graphene. <i>Nature Nanotechnology</i> , 2016, 11, 426-431.	15.6	287
17	Electron optics with p-n junctions in ballistic graphene. <i>Science</i> , 2016, 353, 1522-1525.	6.0	253
18	Large linear-in-temperature resistivity in twisted bilayer graphene. <i>Nature Physics</i> , 2019, 15, 1011-1016.	6.5	240

#	ARTICLE	IF	CITATIONS
19	Nature of the quantum metal in a two-dimensional crystalline superconductor. <i>Nature Physics</i> , 2016, 12, 208-212.	6.5	228
20	Dynamic band-structure tuning of graphene moiré superlattices with pressure. <i>Nature</i> , 2018, 557, 404-408.	13.7	223
21	Visualization of moiré superlattices. <i>Nature Nanotechnology</i> , 2020, 15, 580-584.	15.6	187
22	Excitonic superfluid phase in double bilayer graphene. <i>Nature Physics</i> , 2017, 13, 751-755.	6.5	173
23	Electrically tunable correlated and topological states in twisted monolayer-bilayer graphene. <i>Nature Physics</i> , 2021, 17, 374-380.	6.5	173
24	Quantum criticality in twisted transition metal dichalcogenides. <i>Nature</i> , 2021, 597, 345-349.	13.7	163
25	Specular interband Andreev reflections at van der Waals interfaces between graphene and NbSe <sub>2</sub> . <i>Nature Physics</i> , 2016, 12, 328-332.	6.5	159
26	Band structure engineering of 2D materials using patterned dielectric superlattices. <i>Nature Nanotechnology</i> , 2018, 13, 566-571.	15.6	157
27	Evidence for a fractional fractal quantum Hall effect in graphene superlattices. <i>Science</i> , 2015, 350, 1231-1234.	6.0	155
28	The Magnetic Genome of Two-Dimensional van der Waals Materials. <i>ACS Nano</i> , 2022, 16, 6960-7079.	7.3	149
29	Magnetic Order and Symmetry in the 2D Semiconductor CrSBr. <i>Nano Letters</i> , 2021, 21, 3511-3517.	4.5	141
30	Evidence for a spin phase transition at charge neutrality in bilayer graphene. <i>Nature Physics</i> , 2013, 9, 154-158.	6.5	138
31	Graphene Field-Effect Transistors Based on Boron Nitride Dielectrics. <i>Proceedings of the IEEE</i> , 2013, 101, 1609-1619.	16.4	137
32	Tunable fractional quantum Hall phases in bilayer graphene. <i>Science</i> , 2014, 345, 61-64.	6.0	137
33	Electronic compressibility of layer-polarized bilayer graphene. <i>Physical Review B</i> , 2012, 85, .	1.1	121
34	Layered Antiferromagnetism Induces Large Negative Magnetoresistance in the van der Waals Semiconductor CrSBr. <i>Advanced Materials</i> , 2020, 32, e2003240.	11.1	116
35	Tunable crystal symmetry in graphene-boron nitride heterostructures with coexisting moiré superlattices. <i>Nature Nanotechnology</i> , 2019, 14, 1029-1034.	15.6	114
36	Interlayer electronic coupling on demand in a 2D magnetic semiconductor. <i>Nature Materials</i> , 2021, 20, 1657-1662.	13.3	94

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37	Even-denominator fractional quantum Hall states in bilayer graphene. <i>Science</i> , 2017, 358, 648-652.	6.0	90
38	Negative Coulomb Drag in Double Bilayer Graphene. <i>Physical Review Letters</i> , 2016, 117, 046802.	2.9	83
39	Enhanced tunable second harmonic generation from twistable interfaces and vertical superlattices in boron nitride homostructures. <i>Science Advances</i> , 2021, 7, .	4.7	73
40	Direct measurement of discrete valley and orbital quantum numbers in bilayer graphene. <i>Nature Communications</i> , 2017, 8, 948.	5.8	71
41	Photonic crystal for graphene plasmons. <i>Nature Communications</i> , 2019, 10, 4780.	5.8	69
42	Orderly disorder in magic-angle twisted trilayer graphene. <i>Science</i> , 2022, 376, 193-199.	6.0	63
43	High-Quality Magnetotransport in Graphene Using the Edge-Free Corbino Geometry. <i>Physical Review Letters</i> , 2019, 122, 137701.	2.9	62
44	Ambipolar Landau levels and strong band-selective carrier interactions in monolayer <i>WSe<sub>2</sub></i> . <i>Nature Materials</i> , 2018, 17, 411-415.	13.3	60
45	Moiré metrology of energy landscapes in van der Waals heterostructures. <i>Nature Communications</i> , 2021, 12, 242.	5.8	60
46	Coupling between magnetic order and charge transport in a two-dimensional magnetic semiconductor. <i>Nature Materials</i> , 2022, 21, 754-760.	13.3	60
47	Via Method for Lithography Free Contact and Preservation of 2D Materials. <i>Nano Letters</i> , 2018, 18, 1416-1420.	4.5	59
48	Moiré correlations in ABCA graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	59
49	Resistivity of Rotated Graphite Graphene Contacts. <i>Nano Letters</i> , 2016, 16, 4477-4482.	4.5	57
50	Pairing states of composite fermions in double-layer graphene. <i>Nature Physics</i> , 2019, 15, 898-903.	6.5	54
51	Sensitivity of the superconducting state in thin films. <i>Science Advances</i> , 2019, 5, eaau3826.	4.7	54
52	Charge-Transfer Plasmon Polaritons at Graphene/ $\pm$ -RuCl <sub>3</sub> Interfaces. <i>Nano Letters</i> , 2020, 20, 8438-8445.	4.5	53
53	Diffusivity Reveals Three Distinct Phases of Interlayer Excitons in $\text{MoSe}_2/\text{MoTe}_2$ Heterobilayers. <i>Physical Review Letters</i> , 2021, 126, 106804.	2.9	49
54	Enhanced Superconductivity in Monolayer $\text{Td-MoTe}_2$ . <i>Nano Letters</i> , 2021, 21, 2505-2511.	4.5	49

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55	Odd- and even-denominator fractional quantum Hall states in monolayer WSe <sub>2</sub> . Nature Nanotechnology, 2020, 15, 569-573.	15.6	48
56	Anisotropic band flattening in graphene with one-dimensional superlattices. Nature Nanotechnology, 2021, 16, 525-530.	15.6	44
57	Multiple hot-carrier collection in photo-excited graphene Moiré superlattices. Science Advances, 2016, 2, e1600002.	4.7	42
58	Long-Lived Phonon Polaritons in Hyperbolic Materials. Nano Letters, 2021, 21, 5767-5773.	4.5	38
59	Hyperbolic enhancement of photocurrent patterns in minimally twisted bilayer graphene. Nature Communications, 2021, 12, 1641.	5.8	34
60	Nanoscale lattice dynamics in hexagonal boron nitride moiré superlattices. Nature Communications, 2021, 12, 5741.	5.8	34
61	Unconventional Correlation between Quantum Hall Transport Quantization and Bulk State Filling in Gated Graphene Devices. Physical Review Letters, 2016, 117, 186601.	2.9	33
62	Crossover between strongly coupled and weakly coupled exciton superfluids. Science, 2022, 375, 205-209.	6.0	33
63	High-frequency performance of graphene field effect transistors with saturating IV-characteristics. , 2011, , .		32
64	Quantifying electronic band interactions in van der Waals materials using angle-resolved reflected-electron spectroscopy. Nature Communications, 2016, 7, 13621.	5.8	32
65	Emergent Dirac Gullies and Gully-Symmetry-Breaking Quantum Hall States in $A$ Trilayer Graphene. Physical Review Letters, 2018, 121, 167601.	2.9	30
66	Fragility of the dissipationless state in clean two-dimensional superconductors. Nature Physics, 2019, 15, 947-953.	6.5	29
67	Competing Fractional Quantum Hall and Electron Solid Phases in Graphene. Physical Review Letters, 2019, 122, 026802.	2.9	28
68	Doping-Induced Superconductivity in the van der Waals Superatomic Crystal $\text{Re}_6\text{Se}_8\text{Cl}_2$ . Nano Letters, 2020, 20, 1718-1724.	4.5	28
69	Nanometer-Scale Lateral p-n Junctions in Graphene/ $\pm$ -RuCl <sub>3</sub> Heterostructures. Nano Letters, 2022, 22, 1946-1953.	4.5	25
70	Edge channels of broken-symmetry quantum Hall states in graphene visualized by atomic force microscopy. Nature Communications, 2021, 12, 2852.	5.8	24
71	Nano-spectroscopy of excitons in atomically thin transition metal dichalcogenides. Nature Communications, 2022, 13, 542.	5.8	23
72	Bilayer WSe <sub>2</sub> as a natural platform for interlayer exciton condensates in the strong coupling limit. Nature Nanotechnology, 2022, 17, 577-582.	15.6	22

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73	Visualizing Atomically Layered Magnetism in CrSBr. <i>Advanced Materials</i> , 2022, 34, e2201000.	11.1	22
74	Frictional Magneto-Coulomb Drag in Graphene Double-Layer Heterostructures. <i>Physical Review Letters</i> , 2017, 119, 056802.	2.9	20
75	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.	1.6	19
76	High-Quality Electrostatically Defined Hall Bars in Monolayer Graphene. <i>Nano Letters</i> , 2019, 19, 2583-2587.	4.5	16
77	Dissipation-enabled hydrodynamic conductivity in a tunable bandgap semiconductor. <i>Science Advances</i> , 2022, 8, eabi8481.	4.7	15
78	Dual-Gated Graphene Devices for Near-Field Nano-imaging. <i>Nano Letters</i> , 2021, 21, 1688-1693.	4.5	13
79	Unusual magnetotransport in twisted bilayer graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2118482119.	3.3	13
80	Programmable Bloch polaritons in graphene. <i>Science Advances</i> , 2021, 7, .	4.7	12
81	Deep Learning Analysis of Polaritonic Wave Images. <i>ACS Nano</i> , 2021, 15, 18182-18191.	7.3	10
82	Fractional Quantum Hall Effects in Graphene. , 2020, , 317-375.		7
83	Hierarchical patterns with sub-20 nm pattern fidelity <i>via</i> block copolymer self-assembly and soft nanotransfer printing. <i>Polymer Chemistry</i> , 2019, 10, 3194-3200.	1.9	3
84	Andreev Reflections in NbN/Graphene Junctions under Large Magnetic Fields. <i>Nano Letters</i> , 2021, 21, 8229-8235.	4.5	3
85	Nonmonotonic Temperature-Dependent Dissipation at Nonequilibrium in Atomically Thin Clean-Limit Superconductors. <i>Nano Letters</i> , 2021, 21, 583-589.	4.5	3
86	Even denominators in odd places. <i>Nature Physics</i> , 2015, 11, 298-299.	6.5	1
87	Grapheneâ€“BN Heterostructures. , 0, , 219-237.		0