Cory Dean

List of Publications by Year
in descending order

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87 papers	21,324 citations	36271 51 h-index	54882 84 g-index
90 all docs	90 docs citations	90 times ranked	18629 citing authors

#	Article	IF	Citations
1	Crossover between strongly coupled and weakly coupled exciton superfluids. Science, 2022, 375, 205-209.	6.0	33
2	Nano-spectroscopy of excitons in atomically thin transition metal dichalcogenides. Nature Communications, 2022, 13, 542.	5.8	23
3	Nanometer-Scale Lateral pâ€“n Junctions in Graphene/Î±-RuCl₃ Heterostructures. Nano Letters, 2022, 22, 1946-1953.	4.5	25
4	Orderly disorder in magic-angle twisted trilayer graphene. Science, 2022, 376, 193-199.	6.0	63
5	Dissipation-enabled hydrodynamic conductivity in a tunable bandgap semiconductor. Science Advances, 2022, 8, eabi8481.	4.7	15
6	Bilayer WSe2 as a natural platform for interlayer exciton condensates in the strong coupling limit. Nature Nanotechnology, 2022, 17, 577-582.	15.6	22
7	Unusual magnetotransport in twisted bilayer graphene. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2118482119.	3.3	13
8	The Magnetic Genome of Two-Dimensional van der Waals Materials. ACS Nano, 2022, 16, 6960-7079.	7.3	149
9	Coupling between magnetic order and charge transport in a two-dimensional magnetic semiconductor. Nature Materials, 2022, 21, 754-760.	13.3	60
10	Visualizing Atomically Layered Magnetism in CrSBr. Advanced Materials, 2022, 34, e2201000.	11.1	22
11	Electrically tunable correlated and topological states in twisted monolayerâ€“bilayer graphene. Nature Physics, 2021, 17, 374-380.	6.5	173
12	MoirÃ© metrology of energy landscapes in van der Waals heterostructures. Nature Communications, 2021, 12, 242.	5.8	60
13	Anisotropic band flattening in graphene with one-dimensional superlattices. Nature Nanotechnology, 2021, 16, 525-530.	15.6	44
14	Dual-Gated Graphene Devices for Near-Field Nano-imaging. Nano Letters, 2021, 21, 1688-1693.	4.5	13
15	MoirÃ© heterostructures as a condensed-matter quantum simulator. Nature Physics, 2021, 17, 155-163.	6.5	317
16	Diffusivity Reveals Three Distinct Phases of Interlayer Excitons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow><mml:mi>MoSe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> Heterobilayers. Physical Review Letters, 2021, 126, 106804.	2.9	49
17	Enhanced tunable second harmonic generation from twistable interfaces and vertical superlattices in boron nitride homostructures. Science Advances, 2021, 7, .	4.7	73
18	Hyperbolic enhancement of photocurrent patterns in minimally twisted bilayer graphene. Nature Communications, 2021, 12, 1641.	5.8	34

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19	Enhanced Superconductivity in Monolayer T_d-MoTe₂. Nano Letters, 2021, 21, 2505-2511.	4.5	49
20	Magnetic Order and Symmetry in the 2D Semiconductor CrSBr. Nano Letters, 2021, 21, 3511-3517.	4.5	141
21	Programmable Bloch polaritons in graphene. Science Advances, 2021, 7, .	4.7	12
22	Edge channels of broken-symmetry quantum Hall states in graphene visualized by atomic force microscopy. Nature Communications, 2021, 12, 2852.	5.8	24
23	Long-Lived Phonon Polaritons in Hyperbolic Materials. Nano Letters, 2021, 21, 5767-5773.	4.5	38
24	Interlayer electronic coupling on demand in a 2D magnetic semiconductor. Nature Materials, 2021, 20, 1657-1662.	13.3	94
25	Andreev Reflections in NbN/Graphene Junctions under Large Magnetic Fields. Nano Letters, 2021, 21, 8229-8235.	4.5	3
26	Nanoscale lattice dynamics in hexagonal boron nitride moirÃ© superlattices. Nature Communications, 2021, 12, 5741.	5.8	34
27	Quantum criticality in twisted transition metal dichalcogenides. Nature, 2021, 597, 345-349.	13.7	163
28	MoirÃ©less correlations in ABCA graphene. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	59
29	Nonmonotonic Temperature-Dependent Dissipation at Nonequilibrium in Atomically Thin Clean-Limit Superconductors. Nano Letters, 2021, 21, 583-589.	4.5	3
30	Deep Learning Analysis of Polaritonic Wave Images. ACS Nano, 2021, 15, 18182-18191.	7.3	10
31	Charge-Transfer Plasmon Polaritons at Graphene/Î±-RuCl₃ Interfaces. Nano Letters, 2020, 20, 8438-8445.	4.5	53
32	Layered Antiferromagnetism Induces Large Negative Magnetoresistance in the van der Waals Semiconductor CrSBr. Advanced Materials, 2020, 32, e2003240.	11.1	116
33	Superconductivity and strong correlations in moirÃ© flat bands. Nature Physics, 2020, 16, 725-733.	6.5	448
34	Correlated electronic phases in twisted bilayer transition metal dichalcogenides. Nature Materials, 2020, 19, 861-866.	13.3	544
35	Visualization of moirÃ© superlattices. Nature Nanotechnology, 2020, 15, 580-584.	15.6	187
36	Odd- and even-denominator fractional quantum Hall states in monolayer WSe2. Nature Nanotechnology, 2020, 15, 569-573.	15.6	48

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37	Doping-Induced Superconductivity in the van der Waals Superatomic Crystal Re₆Se₈Cl₂. Nano Letters, 2020, 20, 1718-1724.	4.5	28
38	Fractional Quantum Hall Effects in Graphene. , 2020, , 317-375.		7
39	Large linear-in-temperature resistivity in twisted bilayer graphene. Nature Physics, 2019, 15, 1011-1016.	6.5	240
40	Fragility of the dissipationless state in clean two-dimensional superconductors. Nature Physics, 2019, 15, 947-953.	6.5	29
41	Maximized electron interactions at the magic angle in twisted bilayer graphene. Nature, 2019, 572, 95-100.	13.7	644
42	Switching 2D magnetic states via pressure tuning of layer stacking. Nature Materials, 2019, 18, 1298-1302.	13.3	358
43	Photonic crystal for graphene plasmons. Nature Communications, 2019, 10, 4780.	5.8	69
44	Tuning superconductivity in twisted bilayer graphene. Science, 2019, 363, 1059-1064.	6.0	1,460
45	Pairing states of composite fermions in double-layer graphene. Nature Physics, 2019, 15, 898-903.	6.5	54
46	Hierarchical patterns with sub-20 nm pattern fidelity via block copolymer self-assembly and soft nanotransfer printing. Polymer Chemistry, 2019, 10, 3194-3200.	1.9	3
47	High-Quality Electrostatically Defined Hall Bars in Monolayer Graphene. Nano Letters, 2019, 19, 2583-2587.	4.5	16
48	Sensitivity of the superconducting state in thin films. Science Advances, 2019, 5, eaau3826.	4.7	54
49	High-Quality Magnetotransport in Graphene Using the Edge-Free Corbino Geometry. Physical Review Letters, 2019, 122, 137701.	2.9	62
50	Tunable crystal symmetry in grapheneâ€“boron nitride heterostructures with coexisting moirÃ© superlattices. Nature Nanotechnology, 2019, 14, 1029-1034.	15.6	114
51	Competing Fractional Quantum Hall and Electron Solid Phases in Graphene. Physical Review Letters, 2019, 122, 026802.	2.9	28
52	Via Method for Lithography Free Contact and Preservation of 2D Materials. Nano Letters, 2018, 18, 1416-1420.	4.5	59
53	Ambipolar Landau levels and strong band-selective carrier interactions in monolayer WSe2. Nature Materials, 2018, 17, 411-415.	13.3	60
54	Emergent Dirac Gullies and Gully-Symmetry-Breaking Quantum Hall States in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi><mml:mi>B</mml:mi><mml:mi>A</mml:mi></mml:math> Trilayer Graphene. Physical Review Letters, 2018, 121, 167601.	2.9	30

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55	Fundamental limits to graphene plasmonics. Nature, 2018, 557, 530-533.	13.7	401
56	Dynamic band-structure tuning of graphene moirÃ© superlattices with pressure. Nature, 2018, 557, 404-408.	13.7	223
57	Band structure engineering of 2D materials using patterned dielectric superlattices. Nature Nanotechnology, 2018, 13, 566-571.	15.6	157
58	Twistable electronics with dynamically rotatable heterostructures. Science, 2018, 361, 690-693.	6.0	387
59	Excitonic superfluid phase in double bilayerÂgraphene. Nature Physics, 2017, 13, 751-755.	6.5	173
60	Even-denominator fractional quantum Hall states in bilayer graphene. Science, 2017, 358, 648-652.	6.0	90
61	Direct measurement of discrete valley and orbital quantum numbers in bilayer graphene. Nature Communications, 2017, 8, 948.	5.8	71
62	Frictional Magneto-Coulomb Drag in Graphene Double-Layer Heterostructures. Physical Review Letters, 2017, 119, 056802.	2.9	20
63	Quantifying electronic band interactions in van der Waals materials using angle-resolved reflected-electron spectroscopy. Nature Communications, 2016, 7, 13621.	5.8	32
64	Electron optics with p-n junctions in ballistic graphene. Science, 2016, 353, 1522-1525.	6.0	253
65	Multiple hot-carrier collection in photo-excited graphene MoirÃ© superlattices. Science Advances, 2016, 2, e1600002.	4.7	42
66	Negative Coulomb Drag in Double Bilayer Graphene. Physical Review Letters, 2016, 117, 046802.	2.9	83
67	Unconventional Correlation between Quantum Hall Transport Quantization and Bulk State Filling in Gated Graphene Devices. Physical Review Letters, 2016, 117, 186601.	2.9	33
68	Resistivity of Rotated Graphiteâ€“Graphene Contacts. Nano Letters, 2016, 16, 4477-4482.	4.5	57
69	Nature of the quantum metal in a two-dimensional crystalline superconductor. Nature Physics, 2016, 12, 208-212.	6.5	228
70	Specular interband Andreev reflections at van der Waals interfaces between graphene and NbSe2. Nature Physics, 2016, 12, 328-332.	6.5	159
71	Oxygen-activated growth and bandgap tunability of large single-crystal bilayer graphene. Nature Nanotechnology, 2016, 11, 426-431.	15.6	287
72	Evidence for a fractional fractal quantum Hall effect in graphene superlattices. Science, 2015, 350, 1231-1234.	6.0	155

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73	Even denominators in odd places. Nature Physics, 2015, 11, 298-299.	6.5	1
74	Properties of Self-Aligned Short-Channel Graphene Field-Effect Transistors Based on Boron-Nitride-Dielectric Encapsulation and Edge Contacts. IEEE Transactions on Electron Devices, 2015, 62, 4322-4326.	1.6	19
75	Tunable fractional quantum Hall phases in bilayer graphene. Science, 2014, 345, 61-64.	6.0	137
76	One-Dimensional Electrical Contact to a Two-Dimensional Material. Science, 2013, 342, 614-617.	6.0	2,236
77	Evidence for a spin phase transition at charge neutrality in bilayer graphene. Nature Physics, 2013, 9, 154-158.	6.5	138
78	Graphene Field-Effect Transistors Based on Boronâ€“Nitride Dielectrics. Proceedings of the IEEE, 2013, 101, 1609-1619.	16.4	137
79	Probing Symmetry Properties of Few-Layer MoS₂ and h-BN by Optical Second-Harmonic Generation. Nano Letters, 2013, 13, 3329-3333.	4.5	848
80	Hofstadterâ€™s butterfly and the fractal quantum Hall effect in moirÃ© superlattices. Nature, 2013, 497, 598-602.	13.7	1,404
81	Chemical Vapor Deposition-Derived Graphene with Electrical Performance of Exfoliated Graphene. Nano Letters, 2012, 12, 2751-2756.	4.5	365
82	Electronic compressibility of layer-polarized bilayer graphene. Physical Review B, 2012, 85, .	1.1	121
83	Spin and valley quantum Hall ferromagnetism inÂgraphene. Nature Physics, 2012, 8, 550-556.	6.5	307
84	High-frequency performance of graphene field effect transistors with saturating IV-characteristics. , 2011, , .		32
85	Multicomponent fractional quantum Hall effect inÂgraphene. Nature Physics, 2011, 7, 693-696.	6.5	405
86	Boron nitride substrates for high-quality graphene electronics. Nature Nanotechnology, 2010, 5, 722-726.	15.6	5,794
87	Grapheneâ€“BN Heterostructures. , 0, , 219-237.		0