David H Cobden

List of Publications by Year
in descending order

53 papers	19,811 citations	71102 41 h-index	175258 52 g-index
55 all docs	55 docs citations	55 times ranked	18209 citing authors

#	Article	IF	Citations
1	Electric control of a canted-antiferromagnetic Chern insulator. Nature Communications, 2022, 13, 1668.	12.8	37
2	Evidence for equilibrium exciton condensation in monolayer WTe2. Nature Physics, 2022, 18, 94-99.	16.7	55
3	Electrically tunable correlated and topological states in twisted monolayerâ€“bilayer graphene. Nature Physics, 2021, 17, 374-380.	16.7	173
4	Terahertz response of monolayer and few-layer WTe2 at the nanoscale. Nature Communications, 2021, 12, 5594.	12.8	29
5	Unraveling Strain Gradient Induced Electromechanical Coupling in Twisted Double Bilayer Graphene MoirÃ© Superlattices. Advanced Materials, 2021, 33, e2105879.	21.0	25
6	Field-Dependent Band Structure Measurements in Two-Dimensional Heterostructures. Nano Letters, 2021, , .	9.1	2
7	Magnetic proximity and nonreciprocal current switching in a monolayer WTe2 helical edge. Nature Materials, 2020, 19, 503-507.	27.5	53
8	Visualizing electrostatic gating effects in two-dimensional heterostructures. Nature, 2019, 572, 220-223.	27.8	135
9	Switching 2D magnetic states via pressure tuning of layer stacking. Nature Materials, 2019, 18, 1298-1302.	27.5	358
10	Voltage Control of a van der Waals Spin-Filter Magnetic Tunnel Junction. Nano Letters, 2019, 19, 915-920.	9.1	129
11	Atomically Thin CrCl₃: An In-Plane Layered Antiferromagnetic Insulator. Nano Letters, 2019, 19, 3993-3998.	9.1	240
12	Imaging quantum spin Hall edges in monolayer WTe ₂. Science Advances, 2019, 5, eaat8799.	10.3	113
13	Electrical control of 2D magnetism in bilayer CrI3. Nature Nanotechnology, 2018, 13, 544-548.	31.5	975
14	Giant tunneling magnetoresistance in spin-filter van der Waals heterostructures. Science, 2018, 360, 1214-1218.	12.6	871
15	Ligand-field helical luminescence in a 2D ferromagnetic insulator. Nature Physics, 2018, 14, 277-281.	16.7	275
16	Gate-induced superconductivity in a monolayer topological insulator. Science, 2018, 362, 922-925.	12.6	259
17	Ferroelectric switching of a two-dimensional metal. Nature, 2018, 560, 336-339.	27.8	570
18	Two-dimensional itinerant ferromagnetism in atomically thin Fe3GeTe2. Nature Materials, 2018, 17, 778-782.	27.5	995

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19	Many-body effects in nonlinear optical responses of 2D layered semiconductors. 2D Materials, 2017, 4, 025024.	4.4	35
20	Determination of band offsets, hybridization, and exciton binding in 2D semiconductor heterostructures. Science Advances, 2017, 3, e1601832.	10.3	293
21	Edge conduction in monolayer WTe2. Nature Physics, 2017, 13, 677-682.	16.7	457
22	Layer-dependent ferromagnetism in a van der Waals crystal down to the monolayer limit. Nature, 2017, 546, 270-273.	27.8	3,824
23	Interlayer Exciton Optoelectronics in a 2D Heterostructure pâ€“n Junction. Nano Letters, 2017, 17, 638-643.	9.1	253
24	Ultrafast Nanoimaging of the Photoinduced Phase Transition Dynamics in VO₂. Nano Letters, 2016, 16, 3029-3035.	9.1	84
25	Photo-Nernst current in graphene. Nature Physics, 2016, 12, 236-239.	16.7	27
26	Magnetic control of valley pseudospin in monolayer WSe2. Nature Physics, 2015, 11, 148-152.	16.7	720
27	Inhomogeneity of the ultrafast insulator-to-metal transition dynamics of VO2. Nature Communications, 2015, 6, 6849.	12.8	134
28	Surface electron perturbations and the collective behaviour of atoms adsorbed on a cylinder. Nature Physics, 2015, 11, 398-402.	16.7	6
29	Vapor-transport growth of high optical quality WSe2 monolayers. APL Materials, 2014, 2, .	5.1	52
30	Electrically tunable excitonic light-emitting diodes based on monolayer WSe2 pâ€“n junctions. Nature Nanotechnology, 2014, 9, 268-272.	31.5	1,434
31	Lateral heterojunctions within monolayer MoSe2â€“WSe2 semiconductors. Nature Materials, 2014, 13, 1096-1101.	27.5	872
32	Measurement of a solid-state triple point at the metalâ€“insulator transition in VO2. Nature, 2013, 500, 431-434.	27.8	397
33	Metal Contacts on Physical Vapor Deposited Monolayer MoS₂. ACS Nano, 2013, 7, 11350-11357.	14.6	275
34	Electrical tuning of valley magnetic moment through symmetry control in bilayer MoS2. Nature Physics, 2013, 9, 149-153.	16.7	540
35	Vaporâ€“Solid Growth of High Optical Quality MoS₂ Monolayers with Near-Unity Valley Polarization. ACS Nano, 2013, 7, 2768-2772.	14.6	389
36	Kr and 4He Adsorption on Individual Suspended Single-Walled Carbon Nanotubes. Journal of Low Temperature Physics, 2012, 169, 338-349.	1.4	19

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37	Photoresponse of a strongly correlated material determined by scanning photocurrent microscopy. Nature Nanotechnology, 2012, 7, 723-727.	31.5	72
38	Ultrafast hot-carrier-dominated photocurrent in graphene. Nature Nanotechnology, 2012, 7, 114-118.	31.5	362
39	Nano-optical Investigations of the Metalâ^'Insulator Phase Behavior of Individual VO₂ Microcrystals. Nano Letters, 2010, 10, 1574-1581.	9.1	230
40	New aspects of the metalâ€“insulator transition in single-domain vanadium dioxide nanobeams. Nature Nanotechnology, 2009, 4, 420-424.	31.5	284
41	Tip-Modulation Scanned Gate Microscopy. Nano Letters, 2008, 8, 2161-2165.	9.1	19
42	Oriented growth of single-wall carbon nanotubes using alumina patterns. Nanotechnology, 2004, 15, 473-476.	2.6	14
43	Shell Filling in Closed Single-Wall Carbon Nanotube Quantum Dots. Physical Review Letters, 2002, 89, 046803.	7.8	147
44	Single-Wall Carbon Nanotube Conducting Probe Tips. Journal of Physical Chemistry B, 2002, 106, 13102-13105.	2.6	48
45	Nanowires begin to shine. Nature, 2001, 409, 32-33.	27.8	92
46	Quantum dots in suspended single-wall carbon nanotubes. Applied Physics Letters, 2001, 79, 4216-4218.	3.3	66
47	Fluctuations and Evidence for Charging in the Quantum Hall Effect. Physical Review Letters, 1999, 82, 4695-4698.	7.8	66
48	One dimensional transport in carbon nanotubes. Microelectronic Engineering, 1999, 47, 417-420.	2.4	17
49	A nanotube laboratory. Nature, 1999, 397, 648-649.	27.8	1
50	Luttinger-liquid behaviour in carbon nanotubes. Nature, 1999, 397, 598-601.	27.8	1,396
51	Disorder, Pseudospins, and Backscattering in Carbon Nanotubes. Physical Review Letters, 1999, 83, 5098-5101.	7.8	408
52	Spin Splitting and Even-Odd Effects in Carbon Nanotubes. Physical Review Letters, 1998, 81, 681-684.	7.8	206
53	Single-Electron Transport in Ropes of Carbon Nanotubes. Science, 1997, 275, 1922-1925.	12.6	1,278