

David H Cobden

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50 papers	14,226 citations	39 h-index	55 g-index
55 ext. papers	17,159 ext. citations	20.2 avg, IF	6.3 L-index

#	Paper	IF	Citations
50	Layer-dependent ferromagnetism in a van der Waals crystal down to the monolayer limit. <i>Nature</i> , 2017 , 546, 270-273	50.4	2210
49	Luttinger-liquid behaviour in carbon nanotubes. <i>Nature</i> , 1999 , 397, 598-601	50.4	1242
48	Electrically tunable excitonic light-emitting diodes based on monolayer WSe ₂ p-n junctions. <i>Nature Nanotechnology</i> , 2014 , 9, 268-72	28.7	1202
47	Single-Electron Transport in Ropes of Carbon Nanotubes. <i>Science</i> , 1997 , 275, 1922-5	33.3	1158
46	Lateral heterojunctions within monolayer MoSe ₂ -WSe ₂ semiconductors. <i>Nature Materials</i> , 2014 , 13, 1096-101	33.3	732
45	Electrical control of 2D magnetism in bilayer CrI ₃ . <i>Nature Nanotechnology</i> , 2018 , 13, 544-548	28.7	626
44	Giant tunneling magnetoresistance in spin-filter van der Waals heterostructures. <i>Science</i> , 2018 , 360, 1214-1218	33.3	555
43	Magnetic control of valley pseudospin in monolayer WSe ₂ . <i>Nature Physics</i> , 2015 , 11, 148-152	16.2	529
42	Two-dimensional itinerant ferromagnetism in atomically thin FeGeTe. <i>Nature Materials</i> , 2018 , 17, 778-782	28.7	522
41	Electrical tuning of valley magnetic moment through symmetry control in bilayer MoS ₂ . <i>Nature Physics</i> , 2013 , 9, 149-153	16.2	451
40	Disorder, Pseudospins, and Backscattering in Carbon Nanotubes. <i>Physical Review Letters</i> , 1999 , 83, 5098-5101	33.3	371
39	Vapor-solid growth of high optical quality MoS ₂ monolayers with near-unity valley polarization. <i>ACS Nano</i> , 2013 , 7, 2768-72	16.7	340
38	Measurement of a solid-state triple point at the metal-insulator transition in VO ₂ . <i>Nature</i> , 2013 , 500, 431-4	50.4	328
37	Edge conduction in monolayer WTe ₂ . <i>Nature Physics</i> , 2017 , 13, 677-682	16.2	320
36	Ultrafast hot-carrier-dominated photocurrent in graphene. <i>Nature Nanotechnology</i> , 2012 , 7, 114-8	28.7	312
35	Ferroelectric switching of a two-dimensional metal. <i>Nature</i> , 2018 , 560, 336-339	50.4	280
34	New aspects of the metal-insulator transition in single-domain vanadium dioxide nanobeams. <i>Nature Nanotechnology</i> , 2009 , 4, 420-4	28.7	255

33	Metal contacts on physical vapor deposited monolayer MoS ₂ . <i>ACS Nano</i> , 2013 , 7, 11350-7	16.7	233
32	Determination of band offsets, hybridization, and exciton binding in 2D semiconductor heterostructures. <i>Science Advances</i> , 2017 , 3, e1601832	14.3	208
31	Nano-optical investigations of the metal-insulator phase behavior of individual VO(2) microcrystals. <i>Nano Letters</i> , 2010 , 10, 1574-81	11.5	204
30	Switching 2D magnetic states via pressure tuning of layer stacking. <i>Nature Materials</i> , 2019 , 18, 1298-1302	7	194
29	Spin Splitting and Even-Odd Effects in Carbon Nanotubes. <i>Physical Review Letters</i> , 1998 , 81, 681-684	7.4	194
28	Interlayer Exciton Optoelectronics in a 2D Heterostructure p-n Junction. <i>Nano Letters</i> , 2017 , 17, 638-643	11.5	193
27	Ligand-field helical luminescence in a 2D ferromagnetic insulator. <i>Nature Physics</i> , 2018 , 14, 277-281	16.2	192
26	Shell filling in closed single-wall carbon nanotube quantum dots. <i>Physical Review Letters</i> , 2002 , 89, 046803	7.4	143
25	Gate-induced superconductivity in a monolayer topological insulator. <i>Science</i> , 2018 , 362, 922-925	33.3	143
24	Atomically Thin CrCl: An In-Plane Layered Antiferromagnetic Insulator. <i>Nano Letters</i> , 2019 , 19, 3993-3998	11.5	120
23	Inhomogeneity of the ultrafast insulator-to-metal transition dynamics of VO ₂ . <i>Nature Communications</i> , 2015 , 6, 6849	17.4	108
22	Voltage Control of a van der Waals Spin-Filter Magnetic Tunnel Junction. <i>Nano Letters</i> , 2019 , 19, 915-920	11.5	80
21	Visualizing electrostatic gating effects in two-dimensional heterostructures. <i>Nature</i> , 2019 , 572, 220-223	50.4	71
20	Ultrafast Nanoimaging of the Photoinduced Phase Transition Dynamics in VO ₂ . <i>Nano Letters</i> , 2016 , 16, 3029-35	11.5	67
19	Imaging quantum spin Hall edges in monolayer WTe ₂ . <i>Science Advances</i> , 2019 , 5, eaat8799	14.3	64
18	Electrically tunable correlated and topological states in twisted monolayer/bilayer graphene. <i>Nature Physics</i> , 2021 , 17, 374-380	16.2	64
17	Quantum dots in suspended single-wall carbon nanotubes. <i>Applied Physics Letters</i> , 2001 , 79, 4216-4218	3.4	63
16	Fluctuations and Evidence for Charging in the Quantum Hall Effect. <i>Physical Review Letters</i> , 1999 , 82, 4695-4698	7.4	60

15	Photoresponse of a strongly correlated material determined by scanning photocurrent microscopy. <i>Nature Nanotechnology</i> , 2012 , 7, 723-7	28.7	58
14	Vapor-transport growth of high optical quality WSe ₂ monolayers a. <i>APL Materials</i> , 2014 , 2, 101101	5.7	48
13	Single-Wall Carbon Nanotube Conducting Probe Tips. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 13102-13105	34	46
12	Magnetic proximity and nonreciprocal current switching in a monolayer WTe helical edge. <i>Nature Materials</i> , 2020 , 19, 503-507	27	32
11	Many-body effects in nonlinear optical responses of 2D layered semiconductors. <i>2D Materials</i> , 2017 , 4, 025024	5.9	28
10	Tip-modulation scanned gate microscopy. <i>Nano Letters</i> , 2008 , 8, 2161-5	11.5	19
9	One dimensional transport in carbon nanotubes. <i>Microelectronic Engineering</i> , 1999 , 47, 417-420	2.5	17
8	Photo-Nernst current in graphene. <i>Nature Physics</i> , 2016 , 12, 236-239	16.2	15
7	Kr and 4He Adsorption on Individual Suspended Single-Walled Carbon Nanotubes. <i>Journal of Low Temperature Physics</i> , 2012 , 169, 338-349	1.3	11
6	Oriented growth of single-wall carbon nanotubes using alumina patterns. <i>Nanotechnology</i> , 2004 , 15, 473-476	3.4	11
5	Terahertz response of monolayer and few-layer WTe at the nanoscale. <i>Nature Communications</i> , 2021 , 12, 5594	17.4	8
4	Unraveling Strain Gradient Induced Electromechanical Coupling in Twisted Double Bilayer Graphene Moiré Superlattices. <i>Advanced Materials</i> , 2021 , 33, e2105879	24	7
3	Surface electron perturbations and the collective behaviour of atoms adsorbed on a cylinder. <i>Nature Physics</i> , 2015 , 11, 398-402	16.2	5
2	Electric control of a canted-antiferromagnetic Chern insulator.. <i>Nature Communications</i> , 2022 , 13, 1668	17.4	4
1	Evidence for equilibrium exciton condensation in monolayer WTe ₂ . <i>Nature Physics</i> , 2022 , 18, 94-99	16.2	4