## Freddie Withers

## List of Publications by Citations

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58 7,060 12.5 5.45 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
52	Light-emitting diodes by band-structure engineering in van der Waals heterostructures. <i>Nature Materials</i> , <b>2015</b> , 14, 301-6	27	1116
51	Detecting topological currents in graphene superlattices. <i>Science</i> , <b>2014</b> , 346, 448-51	33.3	481
50	Electronic properties of graphene encapsulated with different two-dimensional atomic crystals. <i>Nano Letters</i> , <b>2014</b> , 14, 3270-6	11.5	345
49	Twist-controlled resonant tunnelling in graphene/boron nitride/graphene heterostructures. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 808-13	28.7	341
48	Water-based and biocompatible 2D crystal inks for all-inkjet-printed heterostructures. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 343-350	28.7	335
47	Electron properties of fluorinated single-layer graphene transistors. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	284
46	Exciton-polaritons in van der Waals heterostructures embedded in tunable microcavities. <i>Nature Communications</i> , <b>2015</b> , 6, 8579	17.4	275
45	Novel highly conductive and transparent graphene-based conductors. <i>Advanced Materials</i> , <b>2012</b> , 24, 28	34 <u>4</u> z₽	248
44	WSeLight-Emitting Tunneling Transistors with Enhanced Brightness at Room Temperature. <i>Nano Letters</i> , <b>2015</b> , 15, 8223-8	11.5	183
43	Magnon-assisted tunnelling in van der Waals heterostructures based on CrBr3. <i>Nature Electronics</i> , <b>2018</b> , 1, 344-349	28.4	167
42	Nanopatterning of fluorinated graphene by electron beam irradiation. <i>Nano Letters</i> , <b>2011</b> , 11, 3912-6	11.5	159
41	Heterostructures produced from nanosheet-based inks. <i>Nano Letters</i> , <b>2014</b> , 14, 3987-92	11.5	147
40	Graphene-protected copper and silver plasmonics. <i>Scientific Reports</i> , <b>2014</b> , 4, 5517	4.9	143
39	Raman modes of MoS2 used as fingerprint of van der Waals interactions in 2-D crystal-based heterostructures. <i>ACS Nano</i> , <b>2014</b> , 8, 9914-24	16.7	142
38	Hierarchy of Hofstadter states and replica quantum Hall ferromagnetism in graphene superlattices. <i>Nature Physics</i> , <b>2014</b> , 10, 525-529	16.2	137
37	Wafer-Scale and Wrinkle-Free Epitaxial Growth of Single-Orientated Multilayer Hexagonal Boron Nitride on Sapphire. <i>Nano Letters</i> , <b>2016</b> , 16, 3360-6	11.5	130
36	Valley-addressable polaritons in atomically thin semiconductors. <i>Nature Photonics</i> , <b>2017</b> , 11, 497-501	33.9	127

35	Two-dimensional metal-chalcogenide films in tunable optical microcavities. <i>Nano Letters</i> , <b>2014</b> , 14, 7003	3 <b>-18</b> 1.5	109
34	Ultrahigh Performance Nanoengineered Graphenelloncrete Composites for Multifunctional Applications. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705183	15.6	101
33	Tuning the electronic transport properties of grapheme through functionalisation with fluorine. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 526	5	90
32	Exciton and trion dynamics in atomically thin MoSe2 and WSe2: Effect of localization. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	88
31	Macroscopic self-reorientation of interacting two-dimensional crystals. <i>Nature Communications</i> , <b>2016</b> , 7, 10800	17.4	86
30	All-graphene photodetectors. <i>ACS Nano</i> , <b>2013</b> , 7, 5052-7	16.7	86
29	Electron transport of WS2 transistors in a hexagonal boron nitride dielectric environment. <i>Scientific Reports</i> , <b>2015</b> , 4,	4.9	76
28	Quantum capacitance measurements of electron-hole asymmetry and next-nearest-neighbor hopping in graphene. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	66
27	Electrically pumped single-defect light emitters in WSe 2. 2D Materials, 2016, 3, 025038	5.9	56
26	Phonons in potassium-doped graphene: The effects of electron-phonon interactions, dimensionality, and adatom ordering. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	55
25	Dielectric nanosheets made by liquid-phase exfoliation in water and their use in graphene-based electronics. <i>2D Materials</i> , <b>2014</b> , 1, 011012	5.9	45
24	Observing Imperfection in Atomic Interfaces for van der Waals Heterostructures. <i>Nano Letters</i> , <b>2017</b> , 17, 5222-5228	11.5	39
23	Highly nonlinear trion-polaritons in a monolayer semiconductor. <i>Nature Communications</i> , <b>2020</b> , 11, 3589	917.4	38
22	Valley coherent exciton-polaritons in a monolayer semiconductor. <i>Nature Communications</i> , <b>2018</b> , 9, 479	7 <sub>17.4</sub>	37
21	Laser-writable high-k dielectric for van der Waals nanoelectronics. Science Advances, 2019, 5, eaau0906	14.3	35
20	Upconverted electroluminescence via Auger scattering of interlayer excitons in van der Waals heterostructures. <i>Nature Communications</i> , <b>2019</b> , 10, 2335	17.4	32
19	Electrical transport in suspended and double gated trilayer graphene. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 013114	3.4	32
18	Sub-bandgap Voltage Electroluminescence and Magneto-oscillations in a WSe Light-Emitting van der Waals Heterostructure. <i>Nano Letters</i> , <b>2017</b> , 17, 1425-1430	11.5	30

17	The valley Zeeman effect in inter- and intra-valley trions in monolayer WSe. <i>Nature Communications</i> , <b>2019</b> , 10, 2330	17.4	29
16	Tuning the transport gap of functionalized graphene via electron beam irradiation. <i>New Journal of Physics</i> , <b>2013</b> , 15, 033024	2.9	23
15	Interplay between spin proximity effect and charge-dependent exciton dynamics in MoSe/CrBr van der Waals heterostructures. <i>Nature Communications</i> , <b>2020</b> , 11, 6021	17.4	22
14	Electrochemical doping of graphene with toluene. <i>Carbon</i> , <b>2011</b> , 49, 3829-3834	10.4	22
13	Strain-Engineering of Twist-Angle in Graphene/hBN Superlattice Devices. <i>Nano Letters</i> , <b>2018</b> , 18, 7919-	-7 <b>92.</b> 6	16
12	Heterostructures formed through abraded van der Waals materials. <i>Nature Communications</i> , <b>2020</b> , 11, 3047	17.4	14
11	Electrically Tuneable Exciton-Polaritons through Free Electron Doping in Monolayer WS2 Microcavities. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900484	8.1	12
10	Electrical tuning of optically active interlayer excitons in bilayer MoS. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 888-893	28.7	12
9	Resonantly excited exciton dynamics in two-dimensional MoSe2 monolayers. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	11
8	Electrically pumped WSe2-based light-emitting van der Waals heterostructures embedded in monolithic dielectric microcavities. <i>2D Materials</i> , <b>2020</b> , 7, 031006	5.9	8
7	Anisotropic magnetoconductance and Coulomb blockade in defect engineered Cr2Ge2Te6 van der Waals heterostructures. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	7
6	Electrically tuneable exciton energy exchange between spatially separated 2-dimensional semiconductors in a microcavity. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 071103	3.4	4
5	Engineering Dielectric Screening for Potential-well Arrays of Excitons in 2D Materials. <i>ACS Applied Materials &amp; ACS Applied &amp; ACS</i>	9.5	4
4	Electrical and optical properties of transition metal dichalcogenides on talc dielectrics. <i>Nanoscale</i> , <b>2021</b> , 13, 15853-15858	7.7	2
3	Cross sectional STEM imaging and analysis of multilayered two dimensional crystal heterostructure devices. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 107-108	0.5	1
2	High resolution STEM imaging and analysis of 2D crystal heterostructure devices and nanoparticle catalysts <b>2016</b> , 773-774		

Principle component analysis applied to high resolution cross sectional STEM imaging: Quantitative analysis of 2D heterostructures **2016**, 539-540