Justin C W Song

List of Publications by Citations

48 papers	3,244 citations	24 h-index	53 g-index
53 ext. papers	3,912 ext. citations	12.3 avg, IF	5.59 L-index

#	Paper	IF	Citations
48	Hot carrier-assisted intrinsic photoresponse in graphene. *Science*, **2011**, 334, 648-52	33.3	722
47	Detecting topological currents in graphene superlattices. *Science*, **2014**, 346, 448-51	33.3	481
46	Photoexcitation cascade and multiple hot-carrier generation in graphene. *Nature Physics*, **2013**, 9, 248-252	16.2	403
45	Hot carrier transport and photocurrent response in graphene. *Nano Letters*, **2011**, 11, 4688-92	11.5	314
44	Disorder-assisted electron-phonon scattering and cooling pathways in graphene. *Physical Review Letters*, **2012**, 109, 106602	7.4	217
43	Electron interactions and gap opening in graphene superlattices. *Physical Review Letters*, **2013**, 111, 266801	7.4	116
42	Chiral plasmons without magnetic field. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 4658-63	11.5	71
41	Far out-of-equilibrium spin populations trigger giant spin injection into atomically thin MoS2. *Nature Physics*, **2019**, 15, 347-351	16.2	68
40	Photoexcited carrier dynamics and impact-excitation cascade in graphene. *Physical Review B*, **2013**, 87,	3.3	63
39	Topological Bloch bands in graphene superlattices. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 10879-83	11.5	61
38	Topological Valley Currents in Gapped Dirac Materials. *Physical Review Letters*, **2015**, 114, 256601	7.4	61
37	Electron quantum metamaterials in van der Waals heterostructures. *Nature Nanotechnology*, **2018**, 13, 986-993	28.7	56
36	Remnant Geometric Hall Response in a Quantum Quench. *Physical Review Letters*, **2016**, 117, 235302	7.4	53
35	Linear magnetoresistance in metals: Guiding center diffusion in a smooth random potential. *Physical Review B*, **2015**, 92,	3.3	51
34	Ultrafast Spin-to-Charge Conversion at the Surface of Topological Insulator Thin Films. *Advanced Materials*, **2018**, 30, e1802356	24	44
33	Energy flows in graphene: hot carrier dynamics and cooling. *Journal of Physics Condensed Matter*, **2015**, 27, 164201	1.8	40
32	Giant intrinsic photoresponse in pristine graphene. *Nature Nanotechnology*, **2019**, 14, 145-150	28.7	36

31	Fermi arc plasmons in Weyl semimetals. *Physical Review B*, **2017**, 96,	3.3	33
30	Energy-driven drag at charge neutrality in graphene. *Physical Review Letters*, **2012**, 109, 236602	7.4	31
29	Symmetry, spin-texture, and tunable quantum geometry in a WTe2 monolayer. *Physical Review B*, **2019**, 99,	3.3	31
28	Quantum Nanophotonics in Two-Dimensional Materials. *ACS Photonics*, **2021**, 8, 85-101	6.3	31
27	Coulomb drag mechanisms in graphene. *Nano Letters*, **2013**, 13, 3631-7	11.5	30
26	Nonsaturating large magnetoresistance in semimetals. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 10570-10575	11.5	29
25	Shockley-Ramo theorem and long-range photocurrent response in gapless materials. *Physical Review B*, **2014**, 90,	3.3	25
24	Hall drag and magnetodrag in graphene. *Physical Review Letters*, **2013**, 111, 126601	7.4	21
23	Accessing Phonon Polaritons in Hyperbolic Crystals by Angle-Resolved Photoemission Spectroscopy. *Physical Review Letters*, **2015**, 115, 087401	7.4	21
22	Self-induced Berry flux and spontaneous non-equilibrium magnetism. *Nature Physics*, **2019**, 15, 1017-1021	16.2	17
21	Enhanced Thermionic-Dominated Photoresponse in Graphene Schottky Junctions. *Nano Letters*, **2016**, 16, 6036-6041	11.5	17
20	Long-Lived Domain Wall Plasmons in Gapped Bilayer Graphene. *Nano Letters*, **2017**, 17, 7252-7257	11.5	13
19	Plasmon Geometric Phase and Plasmon Hall Shift. *Physical Review X*, **2018**, 8,	9.1	12
18	Large optical conductivity of Dirac semimetal Fermi arc surface states. *Physical Review B*, **2017**, 96,	3.3	11
17	Gate-tunable flat bands in van der Waals patterned dielectric superlattices. *2D Materials*, **2020**, 7, 015028	8.9	9
16	Shift vector as the geometric origin of beam shifts. *Physical Review B*, **2019**, 100,	3.3	9
15	Giant Hall Photoconductivity in Narrow-Gapped Dirac Materials. *Nano Letters*, **2016**, 16, 7346-7351	11.5	7
14	Fermi-Arc-Induced Vortex Structure in Weyl Beam Shifts. *Physical Review Letters*, **2019**, 122, 066602	7.4	7

13	Electrostatic effects of nanoscale dielectric patches in the modification of Schottky contacts. *Physical Review B*, **2009**, 79,	3.3	6
12	Low-dissipation edge currents without edge states. *Physical Review B*, **2019**, 99,	3.3	4
11	Cooperative orbital moments and edge magnetoresistance in monolayer WTe2. *Physical Review B*, **2020**, 102,	3.3	4
10	Geometric Photon-Drag Effect and Nonlinear Shift Current in Centrosymmetric Crystals. *Physical Review Letters*, **2021**, 126, 197402	7.4	4
9	Nontrivial quantum oscillation geometric phase shift in a trivial band. *Science Advances*, **2019**, 5, eaax6550	14.3	3
8	Critical size for phase separation in binary alloys: Role of elastic interactions and mechanical constraints. *Physical Review B*, **2008**, 78,	3.3	3
7	Tunable and giant valley-selective Hall effect in gapped bilayer graphene.. *Science*, **2022**, 375, 1398-1402	33.3	2
6	Quenched topological boundary modes can persist in a trivial system. *Communications Physics*, **2021**, 4,	5.4	1
5	Strain-induced large injection current in twisted bilayer graphene. *Physical Review B*, **2021**, 104,	3.3	1
4	Cyclotron motion without magnetic field. *New Journal of Physics*, **2019**, 21, 083026	2.9	0
3	Reply to: Dirac-point photocurrents due to photothermoelectric effect in non-uniform graphene devices. *Nature Nanotechnology*, **2020**, 15, 244-246	28.7	0
2	Atomic configuration controlled photocurrent in van der Waals homostructures. *2D Materials*, **2021**, 8, 035008	5.9	0
1	Polarity is a matter of perspective. *Nature Materials*, **2019**, 18, 532-533	27	