

Justin C W Song

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Tunable and giant valley-selective Hall effect in gapped bilayer graphene.. <i>Science</i> , 2022 , 375, 1398-1402	33.3	2
47	Atomic configuration controlled photocurrent in van der Waals homostructures. <i>2D Materials</i> , 2021 , 8, 035008	5.9	0
46	Geometric Photon-Drag Effect and Nonlinear Shift Current in Centrosymmetric Crystals. <i>Physical Review Letters</i> , 2021 , 126, 197402	7.4	4
45	Quenched topological boundary modes can persist in a trivial system. <i>Communications Physics</i> , 2021 , 4,	5.4	1
44	Quantum Nanophotonics in Two-Dimensional Materials. <i>ACS Photonics</i> , 2021 , 8, 85-101	6.3	31
43	Strain-induced large injection current in twisted bilayer graphene. <i>Physical Review B</i> , 2021 , 104,	3.3	1
42	Reply to: Dirac-point photocurrents due to photothermoelectric effect in non-uniform graphene devices. <i>Nature Nanotechnology</i> , 2020 , 15, 244-246	28.7	0
41	Gate-tunable flat bands in van der Waals patterned dielectric superlattices. <i>2D Materials</i> , 2020 , 7, 015028	8.9	9
40	Cooperative orbital moments and edge magnetoresistance in monolayer WTe ₂ . <i>Physical Review B</i> , 2020 , 102,	3.3	4
39	Cyclotron motion without magnetic field. <i>New Journal of Physics</i> , 2019 , 21, 083026	2.9	0
38	Far out-of-equilibrium spin populations trigger giant spin injection into atomically thin MoS ₂ . <i>Nature Physics</i> , 2019 , 15, 347-351	16.2	68
37	Low-dissipation edge currents without edge states. <i>Physical Review B</i> , 2019 , 99,	3.3	4
36	Polarity is a matter of perspective. <i>Nature Materials</i> , 2019 , 18, 532-533	2.7	
35	Self-induced Berry flux and spontaneous non-equilibrium magnetism. <i>Nature Physics</i> , 2019 , 15, 1017-1021	16.2	17
34	Nontrivial quantum oscillation geometric phase shift in a trivial band. <i>Science Advances</i> , 2019 , 5, eaax6550	4.3	3
33	Fermi-Arc-Induced Vortex Structure in Weyl Beam Shifts. <i>Physical Review Letters</i> , 2019 , 122, 066602	7.4	7
32	Shift vector as the geometric origin of beam shifts. <i>Physical Review B</i> , 2019 , 100,	3.3	9

31	Giant intrinsic photoresponse in pristine graphene. <i>Nature Nanotechnology</i> , 2019 , 14, 145-150	28.7	36
30	Symmetry, spin-texture, and tunable quantum geometry in a WTe ₂ monolayer. <i>Physical Review B</i> , 2019 , 99,	3.3	31
29	Plasmon Geometric Phase and Plasmon Hall Shift. <i>Physical Review X</i> , 2018 , 8,	9.1	12
28	Nonsaturating large magnetoresistance in semimetals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 10570-10575	11.5	29
27	Electron quantum metamaterials in van der Waals heterostructures. <i>Nature Nanotechnology</i> , 2018 , 13, 986-993	28.7	56
26	Ultrafast Spin-to-Charge Conversion at the Surface of Topological Insulator Thin Films. <i>Advanced Materials</i> , 2018 , 30, e1802356	24	44
25	Large optical conductivity of Dirac semimetal Fermi arc surface states. <i>Physical Review B</i> , 2017 , 96,	3.3	11
24	Long-Lived Domain Wall Plasmons in Gapped Bilayer Graphene. <i>Nano Letters</i> , 2017 , 17, 7252-7257	11.5	13
23	Fermi arc plasmons in Weyl semimetals. <i>Physical Review B</i> , 2017 , 96,	3.3	33
22	Giant Hall Photoconductivity in Narrow-Gapped Dirac Materials. <i>Nano Letters</i> , 2016 , 16, 7346-7351	11.5	7
21	Remnant Geometric Hall Response in a Quantum Quench. <i>Physical Review Letters</i> , 2016 , 117, 235302	7.4	53
20	Chiral plasmons without magnetic field. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 4658-63	11.5	71
19	Enhanced Thermionic-Dominated Photoresponse in Graphene Schottky Junctions. <i>Nano Letters</i> , 2016 , 16, 6036-6041	11.5	17
18	Energy flows in graphene: hot carrier dynamics and cooling. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 164201	1.8	40
17	Topological Bloch bands in graphene superlattices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 10879-83	11.5	61
16	Linear magnetoresistance in metals: Guiding center diffusion in a smooth random potential. <i>Physical Review B</i> , 2015 , 92,	3.3	51
15	Topological Valley Currents in Gapped Dirac Materials. <i>Physical Review Letters</i> , 2015 , 114, 256601	7.4	61
14	Accessing Phonon Polaritons in Hyperbolic Crystals by Angle-Resolved Photoemission Spectroscopy. <i>Physical Review Letters</i> , 2015 , 115, 087401	7.4	21

13	Detecting topological currents in graphene superlattices. <i>Science</i> , 2014 , 346, 448-51	33.3	481
12	Shockley-Ramo theorem and long-range photocurrent response in gapless materials. <i>Physical Review B</i> , 2014 , 90,	3.3	25
11	Coulomb drag mechanisms in graphene. <i>Nano Letters</i> , 2013 , 13, 3631-7	11.5	30
10	Electron interactions and gap opening in graphene superlattices. <i>Physical Review Letters</i> , 2013 , 111, 26680-1	7.4	116
9	Hall drag and magnetodrag in graphene. <i>Physical Review Letters</i> , 2013 , 111, 126601	7.4	21
8	Photoexcitation cascade and multiple hot-carrier generation in graphene. <i>Nature Physics</i> , 2013 , 9, 248-252	56.2	403
7	Photoexcited carrier dynamics and impact-excitation cascade in graphene. <i>Physical Review B</i> , 2013 , 87,	3.3	63
6	Energy-driven drag at charge neutrality in graphene. <i>Physical Review Letters</i> , 2012 , 109, 236602	7.4	31
5	Disorder-assisted electron-phonon scattering and cooling pathways in graphene. <i>Physical Review Letters</i> , 2012 , 109, 106602	7.4	217
4	Hot carrier transport and photocurrent response in graphene. <i>Nano Letters</i> , 2011 , 11, 4688-92	11.5	314
3	Hot carrier-assisted intrinsic photoresponse in graphene. <i>Science</i> , 2011 , 334, 648-52	33.3	722
2	Electrostatic effects of nanoscale dielectric patches in the modification of Schottky contacts. <i>Physical Review B</i> , 2009 , 79,	3.3	6
1	Critical size for phase separation in binary alloys: Role of elastic interactions and mechanical constraints. <i>Physical Review B</i> , 2008 , 78,	3.3	3