Justin C W Song

List of Publications by Year
in descending order

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53 papers	4,348 citations	236912 25 h-index	189881 50 g-index
53 all docs	53 docs citations	53 times ranked	5931 citing authors

#	Article	IF	Citations
1	Hot Carrierâ€“Assisted Intrinsic Photoresponse in Graphene. Science, 2011, 334, 648-652.	12.6	876
2	Detecting topological currents in graphene superlattices. Science, 2014, 346, 448-451.	12.6	619
3	Photoexcitation cascade and multiple hot-carrier generation in graphene. Nature Physics, 2013, 9, 248-252.	16.7	512
4	Hot Carrier Transport and Photocurrent Response in Graphene. Nano Letters, 2011, 11, 4688-4692.	9.1	380
5	Disorder-Assisted Electron-Phonon Scattering and Cooling Pathways in Graphene. Physical Review Letters, 2012, 109, 106602.	7.8	266
6	Electron Interactions and Gap Opening in Graphene Superlattices. Physical Review Letters, 2013, 111, 266801.	7.8	142
7	Far out-of-equilibrium spin populations trigger giant spin injection into atomically thin MoS2. Nature Physics, 2019, 15, 347-351.	16.7	105
8	Chiral plasmons without magnetic field. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4658-4663.	7.1	98
9	Topological Bloch bands in graphene superlattices. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10879-10883.	7.1	91
10	Ultrafast Spinâ€toâ€Charge Conversion at the Surface of Topological Insulator Thin Films. Advanced Materials, 2018, 30, e1802356.	21.0	90
11	Topological Valley Currents in Gapped Dirac Materials. Physical Review Letters, 2015, 114, 256601.	7.8	85
12	Electron quantum metamaterials in van der Waals heterostructures. Nature Nanotechnology, 2018, 13, 986-993.	31.5	84
13	Quantum Nanophotonics in Two-Dimensional Materials. ACS Photonics, 2021, 8, 85-101.	6.6	83
14	Photoexcited carrier dynamics and impact-excitation cascade in graphene. Physical Review B, 2013, 87, .	3.2	79
15	Linear magnetoresistance in metals: Guiding center diffusion in a smooth random potential. Physical Review B, 2015, 92, .	3.2	68
16	Remnant Geometric Hall Response in a Quantum Quench. Physical Review Letters, 2016, 117, 235302.	7.8	61
17	Giant intrinsic photoresponse in pristine graphene. Nature Nanotechnology, 2019, 14, 145-150.	31.5	61
18	Nonsaturating large magnetoresistance in semimetals. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10570-10575.	7.1	59

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19	Energy flows in graphene: hot carrier dynamics and cooling. Journal of Physics Condensed Matter, 2015, 27, 164201.	1.8	53
20	Symmetry, spin-texture, and tunable quantum geometry in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mm monolayer. Physical Review B, 2019, 99, .	3.2	49
21	Fermi arc plasmons in Weyl semimetals. Physical Review B, 2017, 96, .	3.2	46
22	Coulomb Drag Mechanisms in Graphene. Nano Letters, 2013, 13, 3631-3637.	9.1	43
23	Shockley-Ramo theorem and long-range photocurrent response in gapless materials. Physical Review B, 2014, 90, .	3.2	42
24	Energy-Driven Drag at Charge Neutrality in Graphene. Physical Review Letters, 2012, 109, 236602.	7.8	35
25	Geometric Photon-Drag Effect and Nonlinear Shift Current in Centrosymmetric Crystals. Physical Review Letters, 2021, 126, 197402.	7.8	27
26	Tunable and giant valley-selective Hall effect in gapped bilayer graphene. Science, 2022, 375, 1398-1402.	12.6	26
27	Accessing Phonon Polaritons in Hyperbolic Crystals by Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2015, 115, 087401.	7.8	24
28	Hall Drag and Magnetodrag in Graphene. Physical Review Letters, 2013, 111, 126601.	7.8	23
29	Enhanced Thermionic-Dominated Photoresponse in Graphene Schottky Junctions. Nano Letters, 2016, 16, 6036-6041.	9.1	23
30	Self-induced Berry flux and spontaneous non-equilibrium magnetism. Nature Physics, 2019, 15, 1017-1021.	16.7	22
31	Gate-tunable flat bands in van der Waals patterned dielectric superlattices. 2D Materials, 2020, 7, 015028.	4.4	20
32	Long-Lived Domain Wall Plasmons in Gapped Bilayer Graphene. Nano Letters, 2017, 17, 7252-7257.	9.1	17
33	Fermi-Arc-Induced Vortex Structure in Weyl Beam Shifts. Physical Review Letters, 2019, 122, 066602.	7.8	17
34	Plasmon Geometric Phase and Plasmon Hall Shift. Physical Review X, 2018, 8, .	8.9	16
35	Shift vector as the geometric origin of beam shifts. Physical Review B, 2019, 100, .	3.2	15
36	Large optical conductivity of Dirac semimetal Fermi arc surface states. Physical Review B, 2017, 96, .	3.2	14

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37	Giant Hall Photoconductivity in Narrow-Gapped Dirac Materials. Nano Letters, 2016, 16, 7346-7351.	9.1	12
38	Strain-induced large injection current in twisted bilayer graphene. Physical Review B, 2021, 104, .	3.2	12
39	Cooperative orbital moments and edge magnetoresistance in monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">W</mml:mi><mml:msub><mml:mi>Te</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2020, 102, .	3.2	8
40	Nontrivial quantum oscillation geometric phase shift in a trivial band. Science Advances, 2019, 5, eaax6550.	10.3	7
41	Atomic configuration controlled photocurrent in van der Waals homostructures. 2D Materials, 2021, 8, 035008.	4.4	7
42	Electrostatic effects of nanoscale dielectric patches in the modification of Schottky contacts. Physical Review B, 2009, 79, .	3.2	6
43	Low-dissipation edge currents without edge states. Physical Review B, 2019, 99, .	3.2	6
44	Vibronic Excitonâ€“Phonon States in Stack-Engineered van der Waals Heterojunction Photodiodes. Nano Letters, 2022, 22, 5751-5758.	9.1	6
45	Plasmon propagation pushed to the limit. Nature, 2018, 557, 501-502.	27.8	4
46	Critical size for phase separation in binary alloys: Role of elastic interactions and mechanical constraints. Physical Review B, 2008, 78, .	3.2	3
47	Cyclotron motion without magnetic field. New Journal of Physics, 2019, 21, 083026.	2.9	2
48	Quenched topological boundary modes can persist in a trivial system. Communications Physics, 2021, 4, .	5.3	2
49	Polarity is a matter of perspective. Nature Materials, 2019, 18, 532-533.	27.5	1
50	Reply to: Dirac-point photocurrents due to photothermoelectric effect in non-uniform graphene devices. Nature Nanotechnology, 2020, 15, 244-246.	31.5	1
51	Transient wave function twist. Nature Physics, 2020, 16, 6-7.	16.7	0
52	A detector that can learn the fingerprint of light. Nature, 2022, 604, 252-253.	27.8	0
53	Multistable excitonic Stark effect. Physical Review Research, 2022, 4, .	3.6	0