

# Gary Steele

## List of Publications by Year in descending order

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62  
papers

6,967  
citations

159573

30  
h-index

118840

62  
g-index

62  
all docs

62  
docs citations

62  
times ranked

9979  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deterministic transfer of two-dimensional materials by all-dry viscoelastic stamping. 2D Materials, 2014, 1, 011002.	4.4	1,375
2	Elastic Properties of Freely Suspended MoS <sub>2</sub> Nanosheets. Advanced Materials, 2012, 24, 772-775.	21.0	905
3	Laser-Thinning of MoS <sub>2</sub> : On Demand Generation of a Single-Layer Semiconductor. Nano Letters, 2012, 12, 3187-3192.	9.1	567
4	Large and Tunable Photothermoelectric Effect in Single-Layer MoS <sub>2</sub> . Nano Letters, 2013, 13, 358-363.	9.1	566
5	The effect of the substrate on the Raman and photoluminescence emission of single-layer MoS <sub>2</sub> . Nano Research, 2014, 7, 561-571.	10.4	497
6	Strong Coupling Between Single-Electron Tunneling and Nanomechanical Motion. Science, 2009, 325, 1103-1107.	12.6	348
7	Carbon Nanotubes as Ultrahigh Quality Factor Mechanical Resonators. Nano Letters, 2009, 9, 2547-2552.	9.1	322
8	Quantum transport in carbon nanotubes. Reviews of Modern Physics, 2015, 87, 703-764.	45.6	292
9	Optomechanical coupling between a multilayer graphene mechanical resonator and a superconducting microwave cavity. Nature Nanotechnology, 2014, 9, 820-824.	31.5	217
10	Single-Layer MoS <sub>2</sub> Mechanical Resonators. Advanced Materials, 2013, 25, 6719-6723.	21.0	201
11	Control of biaxial strain in single-layer molybdenite using local thermal expansion of the substrate. 2D Materials, 2015, 2, 015006.	4.4	149
12	Tunable few-electron double quantum dots and Klein tunnelling in ultraclean carbon nanotubes. Nature Nanotechnology, 2009, 4, 363-367.	31.5	125
13	Large spin-orbit coupling in carbon nanotubes. Nature Communications, 2013, 4, 1573.	12.8	109
14	Valley spin blockade and spin resonance in carbon nanotubes. Nature Nanotechnology, 2012, 7, 630-634.	31.5	103
15	A High Quality Factor Carbon Nanotube Mechanical Resonator at 39 GHz. Nano Letters, 2012, 12, 193-197.	9.1	101
16	Large cooperativity and microkelvin cooling with a three-dimensional optomechanical cavity. Nature Communications, 2015, 6, 8491.	12.8	74
17	Folded MoS <sub>2</sub> layers with reduced interlayer coupling. Nano Research, 2014, 7, 572-578.	10.4	71
18	Multi-mode ultra-strong coupling in circuit quantum electrodynamics. Npj Quantum Information, 2017, 3, .	6.7	69

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19	Strong and tunable mode coupling in carbon nanotube resonators. <i>Physical Review B</i> , 2012, 86, .	3.2	59
20	Coupling carbon nanotube mechanics to a superconducting circuit. <i>Scientific Reports</i> , 2012, 2, 599.	3.3	52
21	Probing the charge of a quantum dot with a nanomechanical resonator. <i>Physical Review B</i> , 2012, 86, .	3.2	49
22	Silicon nitride membrane resonators at millikelvin temperatures with quality factors exceeding 108. <i>Applied Physics Letters</i> , 2015, 107, 263501.	3.3	44
23	A ballistic graphene superconducting microwave circuit. <i>Nature Communications</i> , 2018, 9, 4069.	12.8	42
24	Coupling microwave photons to a mechanical resonator using quantum interference. <i>Nature Communications</i> , 2019, 10, 5359.	12.8	42
25	Sideband cooling of nearly degenerate micromechanical oscillators in a multimode optomechanical system. <i>Physical Review A</i> , 2019, 99, .	2.5	41
26	Observation of decoherence in a carbon nanotube mechanical resonator. <i>Nature Communications</i> , 2014, 5, 5819.	12.8	38
27	Time-domain response of atomically thin MoS <sub>2</sub> nanomechanical resonators. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	37
28	Probing Optical Transitions in Individual Carbon Nanotubes Using Polarized Photocurrent Spectroscopy. <i>Nano Letters</i> , 2012, 12, 5649-5653.	9.1	35
29	Molybdenum-rhenium alloy based high-Q superconducting microwave resonators. <i>Applied Physics Letters</i> , 2014, 105, 222601.	3.3	35
30	Negative nonlinear damping of a multilayer graphene mechanical resonator. <i>Physical Review B</i> , 2016, 93, .	3.2	33
31	Observation and stabilization of photonic Fock states in a hot radio-frequency resonator. <i>Science</i> , 2019, 363, 1072-1075.	12.6	31
32	Cavity electromechanics with parametric mechanical driving. <i>Nature Communications</i> , 2020, 11, 1589.	12.8	28
33	Photon-pressure strong coupling between two superconducting circuits. <i>Nature Physics</i> , 2021, 17, 85-91.	16.7	25
34	Single electron tunnelling through high-Q single-wall carbon nanotube NEMS resonators. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2974-2979.	1.5	23
35	Strong and tunable couplings in flux-mediated optomechanics. <i>Physical Review B</i> , 2017, 96, .	3.2	23
36	Flux-mediated optomechanics with a transmon qubit in the single-photon ultrastrong-coupling regime. <i>Physical Review Research</i> , 2020, 2, .	3.6	20

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37	QuCAT: quantum circuit analyzer tool in Python. <i>New Journal of Physics</i> , 2020, 22, 013025.	2.9	18
38	Giant modulation of the electronic band gap of carbon nanotubes by dielectric screening. <i>Scientific Reports</i> , 2017, 7, 8828.	3.3	16
39	Imaging the formation of a p-n junction in a suspended carbon nanotube with scanning photocurrent microscopy. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	15
40	Superconducting electro-mechanics to test Penrose effects of general relativity in massive superpositions. <i>AVS Quantum Science</i> , 2021, 3, .	4.9	15
41	Synthesizing multi-phonon quantum superposition states using flux-mediated three-body interactions with superconducting qubits. <i>Npj Quantum Information</i> , 2019, 5, .	6.7	14
42	Multi-terminal electronic transport in boron nitride encapsulated TiS <sub>3</sub> nanosheets. <i>2D Materials</i> , 2020, 7, 015009.	4.4	14
43	Broadband architecture for galvanically accessible superconducting microwave resonators. <i>Applied Physics Letters</i> , 2015, 107, 192602.	3.3	12
44	Identifying signatures of photothermal current in a double-gated semiconducting nanotube. <i>Nature Communications</i> , 2014, 5, 4987.	12.8	11
45	Weak localization in boron nitride encapsulated bilayer $\text{MoS}_2$ . <i>Physical Review B</i> , 2019, 99, .		
46	Nature of the Lamb shift in weakly anharmonic atoms: From normal-mode splitting to quantum fluctuations. <i>Physical Review A</i> , 2018, 98, .	2.5	10
47	Submicrosecond-timescale readout of carbon nanotube mechanical motion. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	9
48	Tunable and weakly invasive probing of a superconducting resonator based on electromagnetically induced transparency. <i>Physical Review A</i> , 2020, 102, .	2.5	9
49	Optomechanical response of a nonlinear mechanical resonator. <i>Physical Review B</i> , 2015, 92, .	3.2	8
50	Cooling photon-pressure circuits into the quantum regime. <i>Science Advances</i> , 2021, 7, eabg6653.	10.3	8
51	Four-wave-cooling to the single phonon level in Kerr optomechanics. <i>Communications Physics</i> , 2022, 5, .	5.3	8
52	Interaction-Driven Giant Orbital Magnetic Moments in Carbon Nanotubes. <i>Physical Review Letters</i> , 2018, 121, 127704.	7.8	5
53	Optomechanical Microwave Amplification without Mechanical Amplification. <i>Physical Review Applied</i> , 2020, 13, .	3.8	5
54	Sideband transitions in a two-mode Josephson circuit driven beyond the rotating-wave approximation. <i>Physical Review Research</i> , 2021, 3, .	3.6	5

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55	Level attraction and idler resonance in a strongly driven Josephson cavity. <i>Physical Review Research</i> , 2021, 3, .	3.6	5
56	Nanoelectromechanical resonators from high- $T_c$ superconducting crystals of $\text{Bi}_2\text{Sr}_2\text{Ca}_1\text{Cu}_2\text{O}_{8+\delta}$ . <i>2D Materials</i> , 2019, 6, 025027.	4.4	4
57	Current Detection Using a Josephson Parametric Upconverter. <i>Physical Review Applied</i> , 2020, 14, .	3.8	4
58	Critical current fluctuations in graphene Josephson junctions. <i>Scientific Reports</i> , 2021, 11, 19900.	3.3	4
59	Phonon-number resolution of voltage-biased mechanical oscillators with weakly anharmonic superconducting circuits. <i>Physical Review A</i> , 2021, 104, .	2.5	4
60	Mechanical dissipation in MoRe superconducting metal drums. <i>Applied Physics Letters</i> , 2017, 110, 083103.	3.3	2
61	Two-photon sideband interaction in a driven quantum Rabi model: Quantitative discussions with derived longitudinal drives and beyond the rotating wave approximation. <i>Physical Review Research</i> , 2022, 4, .	3.6	2
62	A massive squeeze. <i>Nature Physics</i> , 2021, 17, 299-300.	16.7	1