

Gary A Steele

List of Publications by Year in descending order

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54
papers

12,471
citations

136950

32
h-index

161849

54
g-index

55
all docs

55
docs citations

55
times ranked

15432
citing authors

#	ARTICLE	IF	CITATIONS
1	Superconducting electro-mechanics to test Dirac Penrose effects of general relativity in massive superpositions. AVS Quantum Science, 2021, 3, .	4.9	15
2	Phonon-number resolution of voltage-biased mechanical oscillators with weakly anharmonic superconducting circuits. Physical Review A, 2021, 104, .	2.5	4
3	Multi-terminal electronic transport in boron nitride encapsulated TiS_3 nanosheets. 2D Materials, 2020, 7, 015009.	4.4	14
4	Current Detection Using a Josephson Parametric Upconverter. Physical Review Applied, 2020, 14, .	3.8	4
5	Optomechanical Microwave Amplification without Mechanical Amplification. Physical Review Applied, 2020, 13, .	3.8	5
6	Tunneling spectroscopy of localized states of WS_2 barriers in vertical van der Waals heterostructures. Physical Review B, 2020, 101, .	3.2	11
7	Flux-mediated optomechanics with a transmon qubit in the single-photon ultrastrong-coupling regime. Physical Review Research, 2020, 2, .	3.6	20
8	Observation and stabilization of photonic Fock states in a hot radio-frequency resonator. Science, 2019, 363, 1072-1075.	12.6	31
9	Synthesizing multi-phonon quantum superposition states using flux-mediated three-body interactions with superconducting qubits. Npj Quantum Information, 2019, 5, .	6.7	14
10	Nature of the Lamb shift in weakly anharmonic atoms: From normal-mode splitting to quantum fluctuations. Physical Review A, 2018, 98, .	2.5	10
11	Interaction-Driven Giant Orbital Magnetic Moments in Carbon Nanotubes. Physical Review Letters, 2018, 121, 127704.	7.8	5
12	A ballistic graphene superconducting microwave circuit. Nature Communications, 2018, 9, 4069.	12.8	42
13	Investigating Laser-Induced Phase Engineering in MoS_2 Transistors. IEEE Transactions on Electron Devices, 2018, 65, 4053-4058.	3.0	8
14	A split-cavity design for the incorporation of a DC bias in a 3D microwave cavity. Applied Physics Letters, 2017, 110, .	3.3	9
15	Approaching ultrastrong coupling in transmon circuit QED using a high-impedance resonator. Physical Review B, 2017, 95, .	3.2	24
16	Giant modulation of the electronic band gap of carbon nanotubes by dielectric screening. Scientific Reports, 2017, 7, 8828.	3.3	16
17	Strong and tunable couplings in flux-mediated optomechanics. Physical Review B, 2017, 96, .	3.2	23
18	Multi-mode ultra-strong coupling in circuit quantum electrodynamics. Npj Quantum Information, 2017, 3, .	6.7	69

#	ARTICLE	IF	CITATIONS
19	Negative nonlinear damping of a multilayer graphene mechanical resonator. Physical Review B, 2016, 93, .	3.2	33
20	Thickness dependent interlayer transport in vertical MoS ₂ Josephson junctions. 2D Materials, 2016, 3, 031002.	4.4	18
21	Silicon nitride membrane resonators at millikelvin temperatures with quality factors exceeding 108. Applied Physics Letters, 2015, 107, 263501.	3.3	44
22	High-quality-factor tantalum oxide nanomechanical resonators by laser oxidation of TaSe ₂ . Nano Research, 2015, 8, 2842-2849.	10.4	27
23	Broadband architecture for galvanically accessible superconducting microwave resonators. Applied Physics Letters, 2015, 107, 192602.	3.3	12
24	Environmental instability of few-layer black phosphorus. 2D Materials, 2015, 2, 011002.	4.4	818
25	Photocurrent generation with two-dimensional van der Waals semiconductors. Chemical Society Reviews, 2015, 44, 3691-3718.	38.1	802
26	Control of biaxial strain in single-layer molybdenite using local thermal expansion of the substrate. 2D Materials, 2015, 2, 015006.	4.4	149
27	Quantum transport in carbon nanotubes. Reviews of Modern Physics, 2015, 87, 703-764.	45.6	292
28	Large cooperativity and microkelvin cooling with a three-dimensional optomechanical cavity. Nature Communications, 2015, 6, 8491.	12.8	74
29	Gate-tunable diode and photovoltaic effect in an organic 2D layered material junction. Nanoscale, 2015, 7, 15442-15449.	5.6	84
30	Mechanics of freely suspended ultrathin layered materials. Annalen Der Physik, 2015, 527, 27-44.	2.4	145
31	Deterministic transfer of two-dimensional materials by all-dry viscoelastic stamping. 2D Materials, 2014, 1, 011002.	4.4	1,375
32	Observation of decoherence in a carbon nanotube mechanical resonator. Nature Communications, 2014, 5, 5819.	12.8	38
33	Molybdenum-rhenium alloy based high-Q superconducting microwave resonators. Applied Physics Letters, 2014, 105, 222601.	3.3	35
34	Ultrahigh Photoresponse of Few-Layer TiS ₃ Nanoribbon Transistors. Advanced Optical Materials, 2014, 2, 641-645.	7.3	189
35	Folded MoS ₂ layers with reduced interlayer coupling. Nano Research, 2014, 7, 572-578.	10.4	71
36	The effect of the substrate on the Raman and photoluminescence emission of single-layer MoS ₂ . Nano Research, 2014, 7, 561-571.	10.4	497

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37	Photovoltaic and Photothermoelectric Effect in a Double-Gated WSe ₂ Device. Nano Letters, 2014, 14, 5846-5852.	9.1	232
38	Photovoltaic effect in few-layer black phosphorus PN junctions defined by local electrostatic gating. Nature Communications, 2014, 5, 4651.	12.8	643
39	Fast and Broadband Photoresponse of Few-Layer Black Phosphorus Field-Effect Transistors. Nano Letters, 2014, 14, 3347-3352.	9.1	1,510
40	Isolation and characterization of few-layer black phosphorus. 2D Materials, 2014, 1, 025001.	4.4	1,411
41	Single-Layer MoS ₂ Mechanical Resonators. Advanced Materials, 2013, 25, 6719-6723.	21.0	201
42	Local Strain Engineering in Atomically Thin MoS ₂ . Nano Letters, 2013, 13, 5361-5366.	9.1	1,041
43	Large and Tunable Photothermoelectric Effect in Single-Layer MoS ₂ . Nano Letters, 2013, 13, 358-363.	9.1	566
44	Fast and reliable identification of atomically thin layers of TaSe ₂ crystals. Nano Research, 2013, 6, 191-199.	10.4	62
45	Probing Optical Transitions in Individual Carbon Nanotubes Using Polarized Photocurrent Spectroscopy. Nano Letters, 2012, 12, 5649-5653.	9.1	35
46	Elastic Properties of Freely Suspended MoS ₂ Nanosheets. Advanced Materials, 2012, 24, 772-775.	21.0	905
47	A High Quality Factor Carbon Nanotube Mechanical Resonator at 39 GHz. Nano Letters, 2012, 12, 193-197.	9.1	101
48	Valley- σ spin blockade and spin resonance in carbon nanotubes. Nature Nanotechnology, 2012, 7, 630-634.	31.5	103
49	Mechanical properties of freely suspended semiconducting graphene-like layers based on MoS ₂ . Nanoscale Research Letters, 2012, 7, 233.	5.7	134
50	Mechanical properties of freely suspended atomically thin dielectric layers of mica. Nano Research, 2012, 5, 550-557.	10.4	87
51	Strong and tunable mode coupling in carbon nanotube resonators. Physical Review B, 2012, 86, .	3.2	59
52	Imaging the formation of a p-n junction in a suspended carbon nanotube with scanning photocurrent microscopy. Journal of Applied Physics, 2011, 110, .	2.5	15
53	Carbon Nanotubes as Ultrahigh Quality Factor Mechanical Resonators. Nano Letters, 2009, 9, 2547-2552.	9.1	322
54	Real Time Electron Tunneling and Pulse Spectroscopy in Carbon Nanotube Quantum Dots. Nano Letters, 2008, 8, 4039-4042.	9.1	17