

Gary A Steele

List of Publications by Year in descending order

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54
papers

12,471
citations

136740

32
h-index

161609

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, .	1.8	15
2	Phonon-number resolution of voltage-biased mechanical oscillators with weakly anharmonic superconducting circuits. Physical Review A, 2021, 104, .	1.0	4
3	Multi-terminal electronic transport in boron nitride encapsulated TiS_3 nanosheets. 2D Materials, 2020, 7, 015009.	2.0	14
4	Current Detection Using a Josephson Parametric Upconverter. Physical Review Applied, 2020, 14, .	1.5	4
5	Optomechanical Microwave Amplification without Mechanical Amplification. Physical Review Applied, 2020, 13, .	1.5	5
6	Tunneling spectroscopy of localized states of WS_2 barriers in vertical van der Waals heterostructures. Physical Review B, 2020, 101, .	1.1	11
7	Flux-mediated optomechanics with a transmon qubit in the single-photon ultrastrong-coupling regime. Physical Review Research, 2020, 2, .	1.3	20
8	Observation and stabilization of photonic Fock states in a hot radio-frequency resonator. Science, 2019, 363, 1072-1075.	6.0	31
9	Synthesizing multi-phonon quantum superposition states using flux-mediated three-body interactions with superconducting qubits. Npj Quantum Information, 2019, 5, .	2.8	14
10	Nature of the Lamb shift in weakly anharmonic atoms: From normal-mode splitting to quantum fluctuations. Physical Review A, 2018, 98, .	1.0	10
11	Interaction-Driven Giant Orbital Magnetic Moments in Carbon Nanotubes. Physical Review Letters, 2018, 121, 127704.	2.9	5
12	A ballistic graphene superconducting microwave circuit. Nature Communications, 2018, 9, 4069.	5.8	42
13	Investigating Laser-Induced Phase Engineering in MoS_2 Transistors. IEEE Transactions on Electron Devices, 2018, 65, 4053-4058.	1.6	8
14	A split-cavity design for the incorporation of a DC bias in a 3D microwave cavity. Applied Physics Letters, 2017, 110, .	1.5	9
15	Approaching ultrastrong coupling in transmon circuit QED using a high-impedance resonator. Physical Review B, 2017, 95, .	1.1	24
16	Giant modulation of the electronic band gap of carbon nanotubes by dielectric screening. Scientific Reports, 2017, 7, 8828.	1.6	16
17	Strong and tunable couplings in flux-mediated optomechanics. Physical Review B, 2017, 96, .	1.1	23
18	Multi-mode ultra-strong coupling in circuit quantum electrodynamics. Npj Quantum Information, 2017, 3, .	2.8	69

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19	Negative nonlinear damping of a multilayer graphene mechanical resonator. <i>Physical Review B</i> , 2016, 93, .	1.1	33
20	Thickness dependent interlayer transport in vertical MoS ₂ Josephson junctions. <i>2D Materials</i> , 2016, 3, 031002.	2.0	18
21	Silicon nitride membrane resonators at millikelvin temperatures with quality factors exceeding 108. <i>Applied Physics Letters</i> , 2015, 107, 263501.	1.5	44
22	High-quality-factor tantalum oxide nanomechanical resonators by laser oxidation of TaSe ₂ . <i>Nano Research</i> , 2015, 8, 2842-2849.	5.8	27
23	Broadband architecture for galvanically accessible superconducting microwave resonators. <i>Applied Physics Letters</i> , 2015, 107, 192602.	1.5	12
24	Environmental instability of few-layer black phosphorus. <i>2D Materials</i> , 2015, 2, 011002.	2.0	818
25	Photocurrent generation with two-dimensional van der Waals semiconductors. <i>Chemical Society Reviews</i> , 2015, 44, 3691-3718.	18.7	802
26	Control of biaxial strain in single-layer molybdenite using local thermal expansion of the substrate. <i>2D Materials</i> , 2015, 2, 015006.	2.0	149
27	Quantum transport in carbon nanotubes. <i>Reviews of Modern Physics</i> , 2015, 87, 703-764.	16.4	292
28	Large cooperativity and microkelvin cooling with a three-dimensional optomechanical cavity. <i>Nature Communications</i> , 2015, 6, 8491.	5.8	74
29	Gate-tunable diode and photovoltaic effect in an organic 2D layered material junction. <i>Nanoscale</i> , 2015, 7, 15442-15449.	2.8	84
30	Mechanics of freely suspended ultrathin layered materials. <i>Annalen Der Physik</i> , 2015, 527, 27-44.	0.9	145
31	Deterministic transfer of two-dimensional materials by all-dry viscoelastic stamping. <i>2D Materials</i> , 2014, 1, 011002.	2.0	1,375
32	Observation of decoherence in a carbon nanotube mechanical resonator. <i>Nature Communications</i> , 2014, 5, 5819.	5.8	38
33	Molybdenum-rhenium alloy based high-Q superconducting microwave resonators. <i>Applied Physics Letters</i> , 2014, 105, 222601.	1.5	35
34	Ultrahigh Photoresponse of Few-Layer TiS ₃ Nanoribbon Transistors. <i>Advanced Optical Materials</i> , 2014, 2, 641-645.	3.6	189
35	Folded MoS ₂ layers with reduced interlayer coupling. <i>Nano Research</i> , 2014, 7, 572-578.	5.8	71
36	The effect of the substrate on the Raman and photoluminescence emission of single-layer MoS ₂ . <i>Nano Research</i> , 2014, 7, 561-571.	5.8	497

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37	Photovoltaic and Photothermoelectric Effect in a Double-Gated WSe ₂ Device. Nano Letters, 2014, 14, 5846-5852.	4.5	232
38	Photovoltaic effect in few-layer black phosphorus PN junctions defined by local electrostatic gating. Nature Communications, 2014, 5, 4651.	5.8	643
39	Fast and Broadband Photoresponse of Few-Layer Black Phosphorus Field-Effect Transistors. Nano Letters, 2014, 14, 3347-3352.	4.5	1,510
40	Isolation and characterization of few-layer black phosphorus. 2D Materials, 2014, 1, 025001.	2.0	1,411
41	Single-Layer MoS ₂ Mechanical Resonators. Advanced Materials, 2013, 25, 6719-6723.	11.1	201
42	Local Strain Engineering in Atomically Thin MoS ₂ . Nano Letters, 2013, 13, 5361-5366.	4.5	1,041
43	Large and Tunable Photothermoelectric Effect in Single-Layer MoS ₂ . Nano Letters, 2013, 13, 358-363.	4.5	566
44	Fast and reliable identification of atomically thin layers of TaSe ₂ crystals. Nano Research, 2013, 6, 191-199.	5.8	62
45	Probing Optical Transitions in Individual Carbon Nanotubes Using Polarized Photocurrent Spectroscopy. Nano Letters, 2012, 12, 5649-5653.	4.5	35
46	Elastic Properties of Freely Suspended MoS ₂ Nanosheets. Advanced Materials, 2012, 24, 772-775.	11.1	905
47	A High Quality Factor Carbon Nanotube Mechanical Resonator at 39 GHz. Nano Letters, 2012, 12, 193-197.	4.5	101
48	Valley- σ spin blockade and spin resonance in carbon nanotubes. Nature Nanotechnology, 2012, 7, 630-634.	15.6	103
49	Mechanical properties of freely suspended semiconducting graphene-like layers based on MoS ₂ . Nanoscale Research Letters, 2012, 7, 233.	3.1	134
50	Mechanical properties of freely suspended atomically thin dielectric layers of mica. Nano Research, 2012, 5, 550-557.	5.8	87
51	Strong and tunable mode coupling in carbon nanotube resonators. Physical Review B, 2012, 86, .	1.1	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, .	1.1	15
53	Carbon Nanotubes as Ultrahigh Quality Factor Mechanical Resonators. Nano Letters, 2009, 9, 2547-2552.	4.5	322
54	Real Time Electron Tunneling and Pulse Spectroscopy in Carbon Nanotube Quantum Dots. Nano Letters, 2008, 8, 4039-4042.	4.5	17