

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	Fast and Broadband Photoresponse of Few-Layer Black Phosphorus Field-Effect Transistors. Nano Letters, 2014, 14, 3347-3352.	4.5	1,510
2	Isolation and characterization of few-layer black phosphorus. 2D Materials, 2014, 1, 025001.	2.0	1,411
3	Deterministic transfer of two-dimensional materials by all-dry viscoelastic stamping. 2D Materials, 2014, 1, 011002.	2.0	1,375
4	Local Strain Engineering in Atomically Thin MoS ₂ . Nano Letters, 2013, 13, 5361-5366.	4.5	1,041
5	Elastic Properties of Freely Suspended MoS ₂ Nanosheets. Advanced Materials, 2012, 24, 772-775.	11.1	905
6	Environmental instability of few-layer black phosphorus. 2D Materials, 2015, 2, 011002.	2.0	818
7	Photocurrent generation with two-dimensional van der Waals semiconductors. Chemical Society Reviews, 2015, 44, 3691-3718.	18.7	802
8	Photovoltaic effect in few-layer black phosphorus PN junctions defined by local electrostatic gating. Nature Communications, 2014, 5, 4651.	5.8	643
9	Large and Tunable Photothermoelectric Effect in Single-Layer MoS ₂ . Nano Letters, 2013, 13, 358-363.	4.5	566
10	The effect of the substrate on the Raman and photoluminescence emission of single-layer MoS ₂ . Nano Research, 2014, 7, 561-571.	5.8	497
11	Carbon Nanotubes as Ultrahigh Quality Factor Mechanical Resonators. Nano Letters, 2009, 9, 2547-2552.	4.5	322
12	Quantum transport in carbon nanotubes. Reviews of Modern Physics, 2015, 87, 703-764.	16.4	292
13	Photovoltaic and Photothermoelectric Effect in a Double-Gated WSe ₂ Device. Nano Letters, 2014, 14, 5846-5852.	4.5	232
14	Single-Layer MoS ₂ Mechanical Resonators. Advanced Materials, 2013, 25, 6719-6723.	11.1	201
15	Ultrahigh Photoresponse of Few-Layer TiS ₃ Nanoribbon Transistors. Advanced Optical Materials, 2014, 2, 641-645.	3.6	189
16	Control of biaxial strain in single-layer molybdenite using local thermal expansion of the substrate. 2D Materials, 2015, 2, 015006.	2.0	149
17	Mechanics of freely-suspended ultrathin layered materials. Annalen Der Physik, 2015, 527, 27-44.	0.9	145
18	Mechanical properties of freely suspended semiconducting graphene-like layers based on MoS ₂ . Nanoscale Research Letters, 2012, 7, 233.	3.1	134

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19	Valleyâ€™spin blockade and spin resonance in carbon nanotubes. Nature Nanotechnology, 2012, 7, 630-634.	15.6	103
20	A High Quality Factor Carbon Nanotube Mechanical Resonator at 39 GHz. Nano Letters, 2012, 12, 193-197.	4.5	101
21	Mechanical properties of freely suspended atomically thin dielectric layers of mica. Nano Research, 2012, 5, 550-557.	5.8	87
22	Gate-tunable diode and photovoltaic effect in an organicâ€™2D layered material pâ€™n junction. Nanoscale, 2015, 7, 15442-15449.	2.8	84
23	Large cooperativity and microkelvin cooling with a three-dimensional optomechanical cavity. Nature Communications, 2015, 6, 8491.	5.8	74
24	Folded MoS2 layers with reduced interlayer coupling. Nano Research, 2014, 7, 572-578.	5.8	71
25	Multi-mode ultra-strong coupling in circuit quantum electrodynamics. Npj Quantum Information, 2017, 3, .	2.8	69
26	Fast and reliable identification of atomically thin layers of TaSe2 crystals. Nano Research, 2013, 6, 191-199.	5.8	62
27	Strong and tunable mode coupling in carbon nanotube resonators. Physical Review B, 2012, 86, .	1.1	59
28	Silicon nitride membrane resonators at millikelvin temperatures with quality factors exceeding 108. Applied Physics Letters, 2015, 107, 263501.	1.5	44
29	A ballistic graphene superconducting microwave circuit. Nature Communications, 2018, 9, 4069.	5.8	42
30	Observation of decoherence in a carbon nanotube mechanical resonator. Nature Communications, 2014, 5, 5819.	5.8	38
31	Probing Optical Transitions in Individual Carbon Nanotubes Using Polarized Photocurrent Spectroscopy. Nano Letters, 2012, 12, 5649-5653.	4.5	35
32	Molybdenum-rhenium alloy based high-Q superconducting microwave resonators. Applied Physics Letters, 2014, 105, 222601.	1.5	35
33	Negative nonlinear damping of a multilayer graphene mechanical resonator. Physical Review B, 2016, 93, .	1.1	33
34	Observation and stabilization of photonic Fock states in a hot radio-frequency resonator. Science, 2019, 363, 1072-1075.	6.0	31
35	High-quality-factor tantalum oxide nanomechanical resonators by laser oxidation of TaSe2. Nano Research, 2015, 8, 2842-2849.	5.8	27
36	Approaching ultrastrong coupling in transmon circuit QED using a high-impedance resonator. Physical Review B, 2017, 95, .	1.1	24

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37	Strong and tunable couplings in flux-mediated optomechanics. <i>Physical Review B</i> , 2017, 96, .	1.1	23
38	Flux-mediated optomechanics with a transmon qubit in the single-photon ultrastrong-coupling regime. <i>Physical Review Research</i> , 2020, 2, .	1.3	20
39	Thickness dependent interlayer transport in vertical MoS ₂ Josephson junctions. <i>2D Materials</i> , 2016, 3, 031002.	2.0	18
40	Real Time Electron Tunneling and Pulse Spectroscopy in Carbon Nanotube Quantum Dots. <i>Nano Letters</i> , 2008, 8, 4039-4042.	4.5	17
41	Giant modulation of the electronic band gap of carbon nanotubes by dielectric screening. <i>Scientific Reports</i> , 2017, 7, 8828.	1.6	16
42	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, .	1.1	15
43	Superconducting electro-mechanics to test Dirac-Penrose effects of general relativity in massive superpositions. <i>AVS Quantum Science</i> , 2021, 3, .	1.8	15
44	Synthesizing multi-phonon quantum superposition states using flux-mediated three-body interactions with superconducting qubits. <i>Npj Quantum Information</i> , 2019, 5, .	2.8	14
45	Multi-terminal electronic transport in boron nitride encapsulated TiS ₃ nanosheets. <i>2D Materials</i> , 2020, 7, 015009.	2.0	14
46	Broadband architecture for galvanically accessible superconducting microwave resonators. <i>Applied Physics Letters</i> , 2015, 107, 192602.	1.5	12
47	Tunneling spectroscopy of localized states of WS ₂ barriers in vertical van der Waals heterostructures. <i>Physical Review B</i> , 2020, 101, .	1.1	11
48	Nature of the Lamb shift in weakly anharmonic atoms: From normal-mode splitting to quantum fluctuations. <i>Physical Review A</i> , 2018, 98, .	1.0	10
49	A split-cavity design for the incorporation of a DC bias in a 3D microwave cavity. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	9
50	Investigating Laser-Induced Phase Engineering in MoS ₂ Transistors. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 4053-4058.	1.6	8
51	Interaction-Driven Giant Orbital Magnetic Moments in Carbon Nanotubes. <i>Physical Review Letters</i> , 2018, 121, 127704.	2.9	5
52	Optomechanical Microwave Amplification without Mechanical Amplification. <i>Physical Review Applied</i> , 2020, 13, .	1.5	5
53	Current Detection Using a Josephson Parametric Upconverter. <i>Physical Review Applied</i> , 2020, 14, .	1.5	4
54	Phonon-number resolution of voltage-biased mechanical oscillators with weakly anharmonic superconducting circuits. <i>Physical Review A</i> , 2021, 104, .	1.0	4