# Gary A Steele

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10553020/publications.pdf

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| 54 | 12,471 | 136950 | 161849 |
|---|---|---|---|
| papers | citations | 32 h-index | 54 g-index |

| 55 | 55 | 55 | 15432 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Fast and Broadband Photoresponse of Few-Layer Black Phosphorus Field-Effect Transistors. Nano Letters, 2014, 14, 3347-3352. | 9.1 | 1,510 |
| 2 | Isolation and characterization of few-layer black phosphorus. 2D Materials, 2014, 1, 025001. | 4.4 | 1,411 |
| 3 | Deterministic transfer of two-dimensional materials by all-dry viscoelastic stamping. 2D Materials, 2014, 1, 011002. | 4.4 | 1,375 |
| 4 | Local Strain Engineering in Atomically Thin MoS<sub>2</sub>. Nano Letters, 2013, 13, 5361-5366. | 9.1 | 1,041 |
| 5 | Elastic Properties of Freely Suspended MoS<sub>2</sub> Nanosheets. Advanced Materials, 2012, 24, 772-775. | 21.0 | 905 |
| 6 | Environmental instability of few-layer black phosphorus. 2D Materials, 2015, 2, 011002. | 4.4 | 818 |
| 7 | Photocurrent generation with two-dimensional van der Waals semiconductors. Chemical Society Reviews, 2015, 44, 3691-3718. | 38.1 | 802 |
| 8 | Photovoltaic effect in few-layer black phosphorus PN junctions defined by local electrostatic gating. Nature Communications, 2014, 5, 4651. | 12.8 | 643 |
| 9 | Large and Tunable Photothermoelectric Effect in Single-Layer MoS<sub>2</sub>. Nano Letters, 2013, 13, 358-363. | 9.1 | 566 |
| 10 | The effect of the substrate on the Raman and photoluminescence emission of single-layer MoS2. Nano Research, 2014, 7, 561-571. | 10.4 | 497 |
| 11 | Carbon Nanotubes as Ultrahigh Quality Factor Mechanical Resonators. Nano Letters, 2009, 9, 2547-2552. | 9.1 | 322 |
| 12 | Quantum transport in carbon nanotubes. Reviews of Modern Physics, 2015, 87, 703-764. | 45.6 | 292 |
| 13 | Photovoltaic and Photothermoelectric Effect in a Double-Gated WSe<sub>2</sub> Device. Nano Letters, 2014, 14, 5846-5852. | 9.1 | 232 |
| 14 | Singleâ€Layer MoS<sub>2</sub> Mechanical Resonators. Advanced Materials, 2013, 25, 6719-6723. | 21.0 | 201 |
| 15 | Ultrahigh Photoresponse of Fewâ€Layer TiS<sub>3</sub> Nanoribbon Transistors. Advanced Optical Materials, 2014, 2, 641-645. | 7.3 | 189 |
| 16 | Control of biaxial strain in single-layer molybdenite using local thermal expansion of the substrate. 2D Materials, 2015, 2, 015006. | 4.4 | 149 |
| 17 | Mechanics of freelyâ€suspended ultrathin layered materials. Annalen Der Physik, 2015, 527, 27-44. | 2.4 | 145 |
| 18 | Mechanical properties of freely suspended semiconducting graphene-like layers based on MoS2. Nanoscale Research Letters, 2012, 7, 233. | 5.7 | 134 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Valleyâ€“spin blockade and spin resonance in carbon nanotubes. Nature Nanotechnology, 2012, 7, 630-634. | 31.5 | 103 |
| 20 | A High Quality Factor Carbon Nanotube Mechanical Resonator at 39 GHz. Nano Letters, 2012, 12, 193-197. | 9.1 | 101 |
| 21 | Mechanical properties of freely suspended atomically thin dielectric layers of mica. Nano Research, 2012, 5, 550-557. | 10.4 | 87 |
| 22 | Gate-tunable diode and photovoltaic effect in an organicâ€“2D layered material pâ€“n junction. Nanoscale, 2015, 7, 15442-15449. | 5.6 | 84 |
| 23 | Large cooperativity and microkelvin cooling with a three-dimensional optomechanical cavity. Nature Communications, 2015, 6, 8491. | 12.8 | 74 |
| 24 | Folded MoS2 layers with reduced interlayer coupling. Nano Research, 2014, 7, 572-578. | 10.4 | 71 |
| 25 | Multi-mode ultra-strong coupling in circuit quantum electrodynamics. Npj Quantum Information, 2017, 3, . | 6.7 | 69 |
| 26 | Fast and reliable identification of atomically thin layers of TaSe2 crystals. Nano Research, 2013, 6, 191-199. | 10.4 | 62 |
| 27 | Strong and tunable mode coupling in carbon nanotube resonators. Physical Review B, 2012, 86, . | 3.2 | 59 |
| 28 | Silicon nitride membrane resonators at millikelvin temperatures with quality factors exceeding 108. Applied Physics Letters, 2015, 107, 263501. | 3.3 | 44 |
| 29 | A ballistic graphene superconducting microwave circuit. Nature Communications, 2018, 9, 4069. | 12.8 | 42 |
| 30 | Observation of decoherence in a carbon nanotube mechanical resonator. Nature Communications, 2014, 5, 5819. | 12.8 | 38 |
| 31 | Probing Optical Transitions in Individual Carbon Nanotubes Using Polarized Photocurrent Spectroscopy. Nano Letters, 2012, 12, 5649-5653. | 9.1 | 35 |
| 32 | Molybdenum-rhenium alloy based high-Q superconducting microwave resonators. Applied Physics Letters, 2014, 105, 222601. | 3.3 | 35 |
| 33 | Negative nonlinear damping of a multilayer graphene mechanical resonator. Physical Review B, 2016, 93, . | 3.2 | 33 |
| 34 | Observation and stabilization of photonic Fock states in a hot radio-frequency resonator. Science, 2019, 363, 1072-1075. | 12.6 | 31 |
| 35 | High-quality-factor tantalum oxide nanomechanical resonators by laser oxidation of TaSe2. Nano Research, 2015, 8, 2842-2849. | 10.4 | 27 |
| 36 | Approaching ultrastrong coupling in transmon circuit QED using a high-impedance resonator. Physical Review B, 2017, 95, . | 3.2 | 24 |

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|---|---|---|---|
| 37 | Strong and tunable couplings in flux-mediated optomechanics. Physical Review B, 2017, 96, . | 3.2 | 23 |
| 38 | Flux-mediated optomechanics with a transmon qubit in the single-photon ultrastrong-coupling regime. Physical Review Research, 2020, 2, . | 3.6 | 20 |
| 39 | Thickness dependent interlayer transport in vertical MoS <sub>2</sub> Josephson junctions. 2D Materials, 2016, 3, 031002. | 4.4 | 18 |
| 40 | Real Time Electron Tunneling and Pulse Spectroscopy in Carbon Nanotube Quantum Dots. Nano Letters, 2008, 8, 4039-4042. | 9.1 | 17 |
| 41 | Giant modulation of the electronic band gap of carbon nanotubes by dielectric screening. Scientific Reports, 2017, 7, 8828. | 3.3 | 16 |
| 42 | 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 |
| 43 | Superconducting electro-mechanics to test DiÃ³siâ€“Penrose effects of general relativity in massive superpositions. AVS Quantum Science, 2021, 3, . | 4.9 | 15 |
| 44 | Synthesizing multi-phonon quantum superposition states using flux-mediated three-body interactions with superconducting qubits. Npj Quantum Information, 2019, 5, . | 6.7 | 14 |
| 45 | Multi-terminal electronic transport in boron nitride encapsulated TiS<sub>3</sub> nanosheets. 2D Materials, 2020, 7, 015009. | 4.4 | 14 |
| 46 | Broadband architecture for galvanically accessible superconducting microwave resonators. Applied Physics Letters, 2015, 107, 192602. | 3.3 | 12 |
| 47 | Tunneling spectroscopy of localized states of WS2 barriers in vertical van der Waals heterostructures. Physical Review B, 2020, 101, . | 3.2 | 11 |
| 48 | Nature of the Lamb shift in weakly anharmonic atoms: From normal-mode splitting to quantum fluctuations. Physical Review A, 2018, 98, . | 2.5 | 10 |
| 49 | A split-cavity design for the incorporation of a DC bias in a 3D microwave cavity. Applied Physics Letters, 2017, 110, . | 3.3 | 9 |
| 50 | Investigating Laser-Induced Phase Engineering in MoS<sub>2</sub> Transistors. IEEE Transactions on Electron Devices, 2018, 65, 4053-4058. | 3.0 | 8 |
| 51 | Interaction-Driven Giant Orbital Magnetic Moments in Carbon Nanotubes. Physical Review Letters, 2018, 121, 127704. | 7.8 | 5 |
| 52 | Optomechanical Microwave Amplification without Mechanical Amplification. Physical Review Applied, 2020, 13, . | 3.8 | 5 |
| 53 | Current Detection Using a Josephson Parametric Upconverter. Physical Review Applied, 2020, 14, . | 3.8 | 4 |
| 54 | Phonon-number resolution of voltage-biased mechanical oscillators with weakly anharmonic superconducting circuits. Physical Review A, 2021, 104, . | 2.5 | 4 |