Qihuang Gong

List of Publications by Citations

395 papers	11,425 citations	53 h-index	91 g-index
441 ext. papers	14,359 ext. citations	7 avg, IF	6.7 L-index

#	Paper	IF	Citations
395	Enhanced photovoltage for inverted planar heterojunction perovskite solar cells. *Science*, **2018**, 360, 1442-1446	33.3	915
394	Minimizing non-radiative recombination losses in perovskite solar cells. *Nature Reviews Materials*, **2020**, 5, 44-60	73.3	428
393	Multidimensional quantum entanglement with large-scale integrated optics. *Science*, **2018**, 360, 285-291	33.3	337
392	Inverted Perovskite Solar Cells: Progresses and Perspectives. *Advanced Energy Materials*, **2016**, 6, 1600457	21.8	294
391	Picosecond and low-power all-optical switching based on an organic photonic-bandgap microcavity. *Nature Photonics*, **2008**, 2, 185-189	33.9	206
390	Single nanoparticle detection using split-mode microcavity Raman lasers. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 14657-62	11.5	192
389	Single Nanoparticle Detection Using Optical Microcavities. *Advanced Materials*, **2017**, 29, 1604920	24	171
388	Charge-Carrier Balance for Highly Efficient Inverted Planar Heterojunction Perovskite Solar Cells. *Advanced Materials*, **2016**, 28, 10718-10724	24	170
387	Multipartite EinsteinPodolskyRosen steering and genuine tripartite entanglement with optical networks. *Nature Physics*, **2015**, 11, 167-172	16.2	166
386	Chaos-assisted broadband momentum transformation in optical microresonators. *Science*, **2017**, 358, 344-347	33.3	159
385	High-Performance Inverted Planar Heterojunction Perovskite Solar Cells Based on Lead Acetate Precursor with Efficiency Exceeding 18%. *Advanced Functional Materials*, **2016**, 26, 3508-3514	15.6	159
384	Direct Observation of Long Electron-Hole Diffusion Distance in CH3NH3PbI3 Perovskite Thin Film. *Scientific Reports*, **2015**, 5, 14485	4.9	156
383	In situ dynamic observations of perovskite crystallisation and microstructure evolution intermediated from [PbI] cage nanoparticles. *Nature Communications*, **2017**, 8, 15688	17.4	147
382	Whispering-gallery microcavities with unidirectional laser emission. *Laser and Photonics Reviews*, **2016**, 10, 40-61	8.3	138
381	On-chip plasmon-induced transparency based on plasmonic coupled nanocavities. *Scientific Reports*, **2014**, 4, 3752	4.9	124
380	Dual-Source Precursor Approach for Highly Efficient Inverted Planar Heterojunction Perovskite Solar Cells. *Advanced Materials*, **2017**, 29, 1604758	24	123
379	Classical-quantum correspondence for above-threshold ionization. *Physical Review Letters*, **2014**, 112, 113002	7.4	118

378	Ultrafast All-Optical Switching. *Advanced Optical Materials*, **2017**, 5, 1600665	8.1	105
377	Super-resolution deep imaging with hollow Bessel beam STED microscopy. *Laser and Photonics Reviews*, **2016**, 10, 147-152	8.3	103
376	Generalized Spatial Differentiation from the Spin Hall Effect of Light and Its Application in Image Processing of Edge Detection. *Physical Review Applied*, **2019**, 11,	4.3	102
375	Mesoporous PbI2 Scaffold for High-Performance Planar Heterojunction Perovskite Solar Cells. *Advanced Energy Materials*, **2016**, 6, 1501890	21.8	102
374	Diboron-Assisted Interfacial Defect Control Strategy for Highly Efficient Planar Perovskite Solar Cells. *Advanced Materials*, **2018**, 30, e1805085	24	101
373	Symmetry-breaking-induced nonlinear optics at a microcavity surface. *Nature Photonics*, **2019**, 13, 21-24	33.9	100
372	Epsilon-Near-Zero Photonics: A New Platform for Integrated Devices. *Advanced Optical Materials*, **2018**, 6, 1701292	8.1	97
371	Experimental controlling of Fano resonance in indirectly coupled whispering-gallery microresonators. *Applied Physics Letters*, **2012**, 100, 021108	3.4	96
370	Experimental observation of Fano resonance in a single whispering-gallery microresonator. *Applied Physics Letters*, **2011**, 98, 021116	3.4	95
369	Nano-structured electron transporting materials for perovskite solar cells. *Nanoscale*, **2016**, 8, 6209-21	7.7	94
368	Coupled-Resonator-Induced Fano Resonances for Plasmonic Sensing with Ultra-High Figure of Merits. *Plasmonics*, **2013**, 8, 1627-1631	2.4	94
367	Plasmonic-enhanced perovskite solar cells using alloy popcorn nanoparticles. *RSC Advances*, **2015**, 5, 11175-11179	3.7	92
366	Population Redistribution Among Multiple Electronic States of Molecular Nitrogen Ions in Strong Laser Fields. *Physical Review Letters*, **2016**, 116, 143007	7.4	90
365	Asymmetric Fano resonance analysis in indirectly coupled microresonators. *Physical Review A*, **2010**, 82,	2.6	89
364	Mixed-cation perovskite solar cells in space. *Science China: Physics, Mechanics and Astronomy*, **2019**, 62, 1	3.6	85
363	Buried Interfaces in Halide Perovskite Photovoltaics. *Advanced Materials*, **2021**, 33, e2006435	24	83
362	High-Performance Formamidinium-Based Perovskite Solar Cells via Microstructure-Mediated □-to-□ Phase Transformation. *Chemistry of Materials*, **2017**, 29, 3246-3250	9.6	79
361	Chip-to-chip quantum teleportation and multi-photon entanglement in silicon. *Nature Physics*, **2020**, 16, 148-153	16.2	77

360	Experimental Demonstration of Spontaneous Chirality in a Nonlinear Microresonator. *Physical Review Letters*, **2017**, 118, 033901	7.4	76
359	Enhancing Coherent Light-Matter Interactions through Microcavity-Engineered Plasmonic Resonances. *Physical Review Letters*, **2017**, 119, 233901	7.4	74
358	High-Performance CsPbIxBr3-x All-Inorganic Perovskite Solar Cells with Efficiency over 18% via Spontaneous Interfacial Manipulation. *Advanced Functional Materials*, **2020**, 30, 2000457	15.6	71
357	Coupled cavities for motional ground-state cooling and strong optomechanical coupling. *Physical Review A*, **2015**, 91,	2.6	70
356	Demonstration of Monogamy Relations for Einstein-Podolsky-Rosen Steering in Gaussian Cluster States. *Physical Review Letters*, **2017**, 118, 230501	7.4	65
355	Superior Carrier Lifetimes Exceeding 6 μs in Polycrystalline Halide Perovskites. *Advanced Materials*, **2020**, 32, e2002585	24	64
354	Plasmonic-Functionalized Broadband Perovskite Photodetector. *Advanced Optical Materials*, **2018**, 6, 1701271	8.1	63
353	Applications of Topological Photonics in Integrated Photonic Devices. *Advanced Optical Materials*, **2017**, 5, 1700357	8.1	63
352	Single-Molecule Spontaneous Emission in the Vicinity of an Individual Gold Nanorod. *Journal of Physical Chemistry C*, **2011**, 115, 15822-15828	3.8	63
351	Detection of Single Nanoparticles Using the Dissipative Interaction in a High-Q Microcavity. *Physical Review Applied*, **2016**, 5,	4.3	61
350	Mechanisms of below-threshold harmonic generation in atoms. *Physical Review Letters*, **2014**, 112, 233001	7.4	59
349	Stable Formamidinium-Based Perovskite Solar Cells via In Situ Grain Encapsulation. *Advanced Energy Materials*, **2018**, 8, 1800232	21.8	59
348	Formation of ultrasmooth perovskite films toward highly efficient inverted planar heterojunction solar cells by micro-flowing anti-solvent deposition in air. *Journal of Materials Chemistry A*, **2016**, 4, 6295-6303	12	58
347	One-Step Co-Evaporation of All-Inorganic Perovskite Thin Films with Room-Temperature Ultralow Amplified Spontaneous Emission Threshold and Air Stability. *ACS Applied Materials & Interfaces*, **2018**, 10, 40661-40671	9.5	55
346	Tunable ultracompact chip-integrated multichannel filter based on plasmon-induced transparencies. *Applied Physics Letters*, **2014**, 104, 221114	3.4	54
345	Coherent Polariton Dynamics in Coupled Highly Dissipative Cavities. *Physical Review Letters*, **2014**, 112,	7.4	53
344	Plasmonic Y-splitters of High Wavelength Resolution Based on Strongly Coupled-Resonator Effects. *Plasmonics*, **2012**, 7, 441-445	2.4	53
343	Perovskite Solar Cells for Space Applications: Progress and Challenges. *Advanced Materials*, **2021**, 33, e2006545	24	53

342	Manipulation of the dephasing time by strong coupling between localized and propagating surface plasmon modes. *Nature Communications*, **2018**, 9, 4858	17.4	52
341	Nonadiabatic Electron Dynamics in Orthogonal Two-Color Laser Fields with Comparable Intensities. *Physical Review Letters*, **2015**, 115, 193001	7.4	51
340	Efficient and low-temperature processed perovskite solar cells based on a cross-linkable hybrid interlayer. *Journal of Materials Chemistry A*, **2015**, 3, 18483-18491	13	50
339	Resonance fluorescence of single molecules assisted by a plasmonic structure. *Physical Review B*, **2010**, 81,	3.3	50
338	Optically sizing single atmospheric particulates with a 10-nm resolution using a strong evanescent field. *Light: Science and Applications*, **2018**, 7, 18003	16.7	50
337	Single-Band 2-nm-Line-Width Plasmon Resonance in a Strongly Coupled Au Nanorod. *Nano Letters*, **2015**, 15, 7581-6	11.5	49
336	Ultracompact all-optical logic gates based on nonlinear plasmonic nanocavities. *Nanophotonics*, **2017**, 6, 365-376	6.3	49
335	Attoclock Photoelectron Interferometry with Two-Color Corotating Circular Fields to Probe the Phase and the Amplitude of Emitting Wave Packets. *Physical Review Letters*, **2018**, 120, 073202	7.4	48
334	Efficient directional excitation of surface plasmons by a single-element nanoantenna. *Nano Letters*, **2015**, 15, 3115-21	11.5	47
333	Subcycle nonadiabatic strong-field tunneling ionization. *Physical Review A*, **2016**, 93,	2.6	45
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328	Plasmonic Sensing via Photoluminescence of Individual Gold Nanorod. *Journal of Physical Chemistry C*, **2012**, 116, 25509-25516	3.8	43
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324	Deep-subwavelength light confinement and transport in hybrid dielectric-loaded metal wedges. *Laser and Photonics Reviews*, **2014**, 8, 549-561	8.3	40
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321	A pure blue emitter (CIEy 0.08) of chrysene derivative with high thermal stability for OLED. *Journal of Materials Chemistry C*, **2015**, 3, 1794-1798	7.1	39
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319	Optimally Designed Nanoshell and Matryoshka-Nanoshell as a Plasmonic-Enhanced Fluorescence Probe. *Journal of Physical Chemistry C*, **2012**, 116, 8804-8812	3.8	39
318	Ultracompact Chip-Integrated Electromagnetically Induced Transparency in a Single Plasmonic Composite Nanocavity. *Advanced Optical Materials*, **2014**, 2, 320-325	8.1	38
317	Pinhole-Free Hybrid Perovskite Film with Arbitrarily-Shaped Micro-Patterns for Functional Optoelectronic Devices. *Nano Letters*, **2017**, 17, 3563-3569	11.5	37
316	Tunneling-induced transparency in a chaotic microcavity. *Laser and Photonics Reviews*, **2013**, 7, L51-L54	8.3	37
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314	On-Chip Spiral Waveguides for Ultrasensitive and Rapid Detection of Nanoscale Objects. *Advanced Materials*, **2018**, 30, e1800262	24	36
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312	Efficient single photon emission and collection based on excitation of gap surface plasmons. *Physical Review Letters*, **2015**, 114, 193002	7.4	35
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310	Ferroelectric Hybrid Plasmonic Waveguide for All-Optical Logic Gate Applications. *Plasmonics*, **2013** , 8, 749-754	2.4	35
309	Vertical phase separation in bulk heterojunction solar cells formed by in situ polymerization of fulleride. *Scientific Reports*, **2014**, 4, 5071	4.9	34
308	Super-resolution fluorescence-assisted diffraction computational tomography reveals the three-dimensional landscape of the cellular organelle interactome. *Light: Science and Applications*, **2020**, 9, 11	16.7	34
307	Spintronics of Hybrid Organic–Inorganic Perovskites: Miraculous Basis of Integrated Optoelectronic Devices. *Advanced Optical Materials*, **2019**, 7, 1900350	8.1	33

306	Energy- and Momentum-Resolved Photoelectron Spin Polarization in Multiphoton Ionization of Xe by Circularly Polarized Fields. *Physical Review Letters*, **2018**, 120, 043201	7.4	33
305	Luminescence quantum yields of gold nanoparticles varying with excitation wavelengths. *Nanoscale* , **2016**, 8, 2188-94	7.7	33
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302	Revealing the Sub-Barrier Phase using a Spatiotemporal Interferometer with Orthogonal Two-Color Laser Fields of Comparable Intensity. *Physical Review Letters*, **2017**, 119, 073201	7.4	32
301	Laser hybrid micro/nano-structuring of Si surfaces in air and its applications for SERS detection. *Scientific Reports*, **2014**, 4, 6657	4.9	31
300	Free-space coupled, ultralow-threshold Raman lasing from a silica microcavity. *Applied Physics Letters*, **2013**, 103, 101102	3.4	31
299	Vibrational and electronic excitation of ionized nitrogen molecules in intense laser fields. *Physical Review A*, **2017**, 96,	2.6	31
298	Mechanisms of strong-field double ionization of Xe. *Physical Review Letters*, **2014**, 113, 103001	7.4	31
297	Nanoscale Surface Plasmon All-Optical Diode Based on Plasmonic Slot Waveguides. *Plasmonics*, **2011**, 6, 619-624	2.4	31
296	Necessary and sufficient condition for Markovian-dissipative-dynamics-induced quantum discord. *Physical Review A*, **2011**, 84,	2.6	31
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282	Steering valley-polarized emission of monolayer MoS sandwiched in plasmonic antennas. *Science Advances*, **2020**, 6, eaao0019	14.3	25
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257	Polarization-free directional coupling of surface plasmon polaritons. *Laser and Photonics Reviews*, **2015**, 9, 419-426	8.3	20
256	Synthesis and properties of new two-photon absorption chromophores containing 3,5-dicyano-2,4,6-tristyrylpyridine as the core. *New Journal of Chemistry*, **2005**, 29, 792	3.6	20
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252	Ultralow-power all-optical tunable double plasmon-induced transparencies in nonlinear metamaterials. *Applied Physics Letters*, **2014**, 104, 211108	3.4	19
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221	Vibrationally resolved electron-nuclear energy sharing in above-threshold multiphoton dissociation of CO. *Physical Review A*, **2016**, 94,	2.6	14
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