

Stephan Gotzinger

List of Publications by Year in descending order

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87
papers

5,422
citations

126708

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102304

66
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88
docs citations

88
times ranked

6980
citing authors

#	ARTICLE	IF	CITATIONS
1	CdSe/CdS/ZnS and CdSe/ZnSe/ZnS Core-Shell-Shell Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2004, 108, 18826-18831.	1.2	688
2	Highly Emissive Colloidal CdSe/CdS Heterostructures of Mixed Dimensionality. <i>Nano Letters</i> , 2003, 3, 1677-1681.	4.5	579
3	A gallium nitride single-photon source operating at 200 K. <i>Nature Materials</i> , 2006, 5, 887-892.	13.3	388
4	A two-dimensional polymer prepared by organic synthesis. <i>Nature Chemistry</i> , 2012, 4, 287-291.	6.6	376
5	Photon Antibunching from a Single Quantum-Dot-Microcavity System in the Strong Coupling Regime. <i>Physical Review Letters</i> , 2007, 98, 117402.	2.9	309
6	A single-molecule optical transistor. <i>Nature</i> , 2009, 460, 76-80.	13.7	308
7	A planar dielectric antenna for directional single-photon emission and near-unity collection efficiency. <i>Nature Photonics</i> , 2011, 5, 166-169.	15.6	270
8	Controlled Coupling of Counterpropagating Whispering-Gallery Modes by a Single Rayleigh Scatterer: A Classical Problem in a Quantum Optical Light. <i>Physical Review Letters</i> , 2007, 99, 173603.	2.9	254
9	Quantum Degenerate Exciton-Polaritons in Thermal Equilibrium. <i>Physical Review Letters</i> , 2006, 97, 146402.	2.9	156
10	Synthesis of a Covalent Monolayer Sheet by Photochemical Anthracene Dimerization at the Air/Water Interface and its Mechanical Characterization by AFM Indentation. <i>Advanced Materials</i> , 2014, 26, 2052-2058.	11.1	147
11	Turning a molecule into a coherent two-level quantum system. <i>Nature Physics</i> , 2019, 15, 483-489.	6.5	118
12	Spectroscopic detection and state preparation of a single praseodymium ion in a crystal. <i>Nature Communications</i> , 2014, 5, 3627.	5.8	102
13	Single-Photon Spectroscopy of a Single Molecule. <i>Physical Review Letters</i> , 2012, 108, 093601.	2.9	88
14	Influence of a Single Quantum Dot State on the Characteristics of a Microdisk Laser. <i>Physical Review Letters</i> , 2007, 98, 117401.	2.9	76
15	A single molecule as a high-fidelity photon gun for producing intensity-squeezed light. <i>Nature Photonics</i> , 2017, 11, 58-62.	15.6	75
16	Controlled Photon Transfer between Two Individual Nanoemitters via Shared High-Q Modes of a Microsphere Resonator. <i>Nano Letters</i> , 2006, 6, 1151-1154.	4.5	72
17	99% efficiency in collecting photons from a single emitter. <i>Optics Letters</i> , 2011, 36, 3545.	1.7	72
18	Coherent Interaction of Light and Single Molecules in a Dielectric Nanoguide. <i>Physical Review Letters</i> , 2014, 113, 213601.	2.9	72

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19	Photon correlation studies of single GaN quantum dots. Applied Physics Letters, 2005, 87, 051916.	1.5	71
20	Few-photon coherent nonlinear optics with a single molecule. Nature Photonics, 2016, 10, 450-453.	15.6	69
21	Resolution and Enhancement in Nanoantenna-Based Fluorescence Microscopy. Nano Letters, 2009, 9, 4007-4011.	4.5	61
22	Near-infrared single-photons from aligned molecules in ultrathin crystalline films at room temperature. Optics Express, 2010, 18, 6577.	1.7	59
23	Experimental realization of an optical antenna designed for collecting 99% of photons from a quantum emitter. Optica, 2014, 1, 203.	4.8	54
24	Strong plasmonic enhancement of biexciton emission: controlled coupling of a single quantum dot to a gold nanocone antenna. Scientific Reports, 2017, 7, 42307.	1.6	53
25	A scanning microcavity for in situ control of single-molecule emission. Applied Physics Letters, 2010, 97, 021107.	1.5	49
26	Coherent Coupling of a Single Molecule to a Scanning Fabry-Perot Microcavity. Physical Review X, 2017, 7, .	2.8	49
27	Experimental realization of an absolute single-photon source based on a single nitrogen vacancy center in a nanodiamond. Optica, 2017, 4, 71.	4.8	47
28	Investigation of Energy Transfer between CdTe Nanocrystals on Polystyrene Beads and Dye Molecules for FRET-SNOM Applications. Journal of Physical Chemistry B, 2004, 108, 14527-14534.	1.2	45
29	Chip-Based All-Optical Control of Single Molecules Coherently Coupled to a Nanoguide. Nano Letters, 2017, 17, 4941-4945.	4.5	44
30	Sensing Nanoparticles with a Cantilever-Based Scannable Optical Cavity of Low Finesse and Sub- λ Volume. Physical Review Applied, 2015, 4, .	1.5	41
31	Coherent nonlinear optics of quantum emitters in nanophotonic waveguides. Nanophotonics, 2019, 8, 1641-1657.	2.9	40
32	Single-Molecule Vacuum Rabi Splitting: Four-Wave Mixing and Optical Switching at the Single-Photon Level. Physical Review Letters, 2021, 127, 133603.	2.9	38
33	Optimization of prism coupling to high-Q modes in a microsphere resonator using a near-field probe. Optics Communications, 2005, 250, 428-433.	1.0	37
34	Controlled generation of intrinsic near-infrared color centers in 4H-SiC via proton irradiation and annealing. Applied Physics Letters, 2018, 113, .	1.5	37
35	Realization of two Fourier-limited solid-state single-photon sources. Optics Express, 2007, 15, 15842.	1.7	31
36	Mapping and manipulating whispering gallery modes of a microsphere resonator with a near-field probe. Journal of Microscopy, 2001, 202, 117-121.	0.8	29

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37	Coherent coupling of single molecules to on-chip ring resonators. <i>New Journal of Physics</i> , 2019, 21, 062002.	1.2	29
38	Influence of a sharp fiber tip on high-Q modes of a microsphere resonator. <i>Optics Letters</i> , 2002, 27, 80.	1.7	28
39	Towards controlled coupling between a high-Q whispering-gallery mode and a single nanoparticle. <i>Applied Physics B: Lasers and Optics</i> , 2001, 73, 825-828.	1.1	27
40	Spectroscopic detection of single Pr ³⁺ ions on the 3H ₄ → ¹ D ₂ transition. <i>New Journal of Physics</i> , 2015, 17, 083018.	1.2	26
41	Spontaneous emission enhancement of a single molecule by a double-sphere nanoantenna across an interface. <i>Optics Express</i> , 2012, 20, 23331.	1.7	24
42	Fabrication and characterization of plasmonic nanocone antennas for strong spontaneous emission enhancement. <i>Nanotechnology</i> , 2015, 26, 404001.	1.3	23
43	Confocal microscopy and spectroscopy of nanocrystals on a high-Q microsphere resonator. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2004, 6, 154-158.	1.4	21
44	Spectroscopy and microscopy of single molecules in nanoscopic channels: spectral behavior vs. confinement depth. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 19588-19594.	1.3	18
45	Investigation of excitons bound to fluorine donors in ZnSe. <i>Semiconductor Science and Technology</i> , 2006, 21, 1412-1415.	1.0	17
46	Experimental demonstration of a predictable single photon source with variable photon flux. <i>Metrologia</i> , 2017, 54, 218-223.	0.6	17
47	Circular Grating Resonators as Small Mode-Volume Microcavities for Switching. <i>Optics Express</i> , 2009, 17, 5953.	1.7	16
48	Efficient coupling of single photons to single plasmons. <i>Optics Express</i> , 2010, 18, 13829.	1.7	16
49	When excitons and plasmons meet: Emerging function through synthesis and assembly. <i>MRS Bulletin</i> , 2015, 40, 768-776.	1.7	14
50	Molecules as sources for indistinguishable single photons. <i>Journal of Modern Optics</i> , 2009, 56, 161-166.	0.6	13
51	Grain Dependent Growth of Bright Quantum Emitters in Hexagonal Boron Nitride. <i>Advanced Optical Materials</i> , 2021, 9, .	3.6	13
52	On Quantum Efficiency Measurements and Plasmonic Antennas. <i>ACS Photonics</i> , 2021, 8, 1508-1521.	3.2	13
53	Partial Cloaking of a Gold Particle by a Single Molecule. <i>Physical Review Letters</i> , 2020, 125, 103603.	2.9	12
54	Nanoscale Charge Fluctuations in a Gallium Phosphide Waveguide Measured by Single Molecules. <i>Physical Review Letters</i> , 2021, 126, 133602.	2.9	10

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55	High-resolution vibronic spectroscopy of a single molecule embedded in a crystal. <i>Journal of Chemical Physics</i> , 2022, 156, 104301.	1.2	10
56	Lifetime-limited zero-phonon spectra of single molecules in methyl methacrylate. <i>Chemical Physics Letters</i> , 2009, 472, 44-47.	1.2	9
57	Small slot waveguide rings for on-chip quantum optical circuits. <i>Optics Express</i> , 2017, 25, 5397.	1.7	9
58	Truncated Metallo-Dielectric Omnidirectional Reflector: Collecting Single Photons in the Fundamental Gaussian Mode with 95% Efficiency. <i>ACS Photonics</i> , 2020, 7, 2474-2481.	3.2	9
59	Thermal origin of light emission in nonresonant and resonant nanojunctions. <i>Physical Review Research</i> , 2020, 2, .	1.3	9
60	Ultrafine luminescent structures through nanoparticle self-assembly. <i>Nanotechnology</i> , 2006, 17, 3802-3805.	1.3	6
61	Spectral dynamics and spatial localization of single molecules in a polymer. <i>Molecular Physics</i> , 2009, 107, 1897-1909.	0.8	6
62	A planar dielectric antenna for directional single-photon emission and near-unity collection efficiency. , 2011, , .		4
63	Enhancing the radiative emission rate of single molecules by a plasmonic nanoantenna weakly coupled with a dielectric substrate. <i>Optics Express</i> , 2015, 23, 32986.	1.7	4
64	Scanning Near-Field Optical Studies of Photonic Devices. , 2006, , 215-237.		3
65	Influence of a controllable scatterer on the lasing properties of an ultralow threshold Raman microlaser. <i>Applied Physics Letters</i> , 2006, 89, 101105.	1.5	3
66	Photonic Quantum Technologies. <i>Advanced Quantum Technologies</i> , 2020, 3, 2000007.	1.8	3
67	Single photon sources for quantum radiometry: a brief review about the current state-of-the-art. <i>Applied Physics B: Lasers and Optics</i> , 2022, 128, 1.	1.1	3
68	Controlled coupling of a single emitter to a single mode of a microsphere: where do we stand?. , 2003, , .		1
69	Nanoparticles and microspheres: tools to study the interaction of quantum emitters via shared optical modes. , 2004, 5333, 174.		1
70	Influence of a controllable scatterer on lasing properties of an ultra-low threshold Raman-laser. , 2006, , .		0
71	Strong coupling of single quantum dots to micropillars. , 2007, , .		0
72	Circular grating resonators as candidates for ultra-small photonic devices. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0

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73	Cavity (Q)ED with microsphere resonators. Proceedings of SPIE, 2008, , .	0.8	0
74	Silicon photonic microcavities for optical switching. , 2009, , .		0
75	Towards detection of single solid-state ions. , 2011, , .		0
76	Einzelphotonen-Kommunikation zwischen einzelnen Moleklen. Physik in Unserer Zeit, 2012, 43, 166-167.	0.0	0
77	Singe-photon-single-molecule Quantum Optics. , 2013, , .		0
78	An ultrasmall mode volume cantilever-based Fabry-Prot microcavity. , 2015, , .		0
79	Nonlinear Optics with Single Molecules. , 2015, , .		0
80	Efficient on-chip interface for many-body quantum optics with single molecules. , 2017, , .		0
81	Coherent coupling of a single molecule to a scanning Fabry-Prot microcavity. , 2017, , .		0
82	Coherent Coupling of Single Molecules to Microresonators. , 2019, , .		0
83	Nonlinear optics with one molecule and two photons. , 2021, , .		0
84	Imaging Plasmonic Nanoparticles with a Narrow-Band Single-Photon Source. , 2009, , .		0
85	Amplification of a Laser Beam by a Single Molecule. , 2009, , .		0
86	Turning an Organic Molecule into a Coherent Two-Level Quantum System using a Tunable Fabry-Perot Microcavity. , 2019, , .		0
87	Collecting and Manipulating Single Photons with Near-Unity Efficiency. , 2020, , .		0