

Stephan Gotzinger

List of Publications by Year in descending order

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all docs

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docs citations

88
times ranked

6980
citing authors

#	ARTICLE	IF	CITATIONS
1	Single photon sources for quantum radiometry: a brief review about the current state-of-the-art. Applied Physics B: Lasers and Optics, 2022, 128, 1.	2.2	3
2	High-resolution vibronic spectroscopy of a single molecule embedded in a crystal. Journal of Chemical Physics, 2022, 156, 104301.	3.0	10
3	Grain Dependent Growth of Bright Quantum Emitters in Hexagonal Boron Nitride. Advanced Optical Materials, 2021, 9, .	7.3	13
4	Nanoscopic Charge Fluctuations in a Gallium Phosphide Waveguide Measured by Single Molecules. Physical Review Letters, 2021, 126, 133602.	7.8	10
5	On Quantum Efficiency Measurements and Plasmonic Antennas. ACS Photonics, 2021, 8, 1508-1521.	6.6	13
6	Single-Molecule Vacuum Rabi Splitting: Four-Wave Mixing and Optical Switching at the Single-Photon Level. Physical Review Letters, 2021, 127, 133603.	7.8	38
7	Nonlinear optics with one molecule and two photons. , 2021, , .		0
8	Truncated Metallo-Dielectric Omnidirectional Reflector: Collecting Single Photons in the Fundamental Gaussian Mode with 95% Efficiency. ACS Photonics, 2020, 7, 2474-2481.	6.6	9
9	Partial Cloaking of a Gold Particle by a Single Molecule. Physical Review Letters, 2020, 125, 103603.	7.8	12
10	Photonic Quantum Technologies. Advanced Quantum Technologies, 2020, 3, 2000007.	3.9	3
11	Thermal origin of light emission in nonresonant and resonant nanojunctions. Physical Review Research, 2020, 2, .	3.6	9
12	Collecting and Manipulating Single Photons with Near-Unity Efficiency. , 2020, , .		0
13	Coherent Coupling of Single Molecules to Microresonators. , 2019, , .		0
14	Coherent coupling of single molecules to on-chip ring resonators. New Journal of Physics, 2019, 21, 062002.	2.9	29
15	Coherent nonlinear optics of quantum emitters in nanophotonic waveguides. Nanophotonics, 2019, 8, 1641-1657.	6.0	40
16	Turning a molecule into a coherent two-level quantum system. Nature Physics, 2019, 15, 483-489.	16.7	118
17	Turning an Organic Molecule into a Coherent Two-Level Quantum System using a Tunable Fabry-Perot Microcavity. , 2019, , .		0
18	Controlled generation of intrinsic near-infrared color centers in 4H-SiC via proton irradiation and annealing. Applied Physics Letters, 2018, 113, .	3.3	37

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19	Strong plasmonic enhancement of biexciton emission: controlled coupling of a single quantum dot to a gold nanocone antenna. <i>Scientific Reports</i> , 2017, 7, 42307.	3.3	53
20	Experimental demonstration of a predictable single photon source with variable photon flux. <i>Metrologia</i> , 2017, 54, 218-223.	1.2	17
21	A single molecule as a high-fidelity photon gun for producing intensity-squeezed light. <i>Nature Photonics</i> , 2017, 11, 58-62.	31.4	75
22	Coherent Coupling of a Single Molecule to a Scanning Fabry-Perot Microcavity. <i>Physical Review X</i> , 2017, 7, .	8.9	49
23	Chip-Based All-Optical Control of Single Molecules Coherently Coupled to a Nanoguide. <i>Nano Letters</i> , 2017, 17, 4941-4945.	9.1	44
24	Efficient on-chip interface for many-body quantum optics with single molecules. , 2017, , .		0
25	Small slot waveguide rings for on-chip quantum optical circuits. <i>Optics Express</i> , 2017, 25, 5397.	3.4	9
26	Experimental realization of an absolute single-photon source based on a single nitrogen vacancy center in a nanodiamond. <i>Optica</i> , 2017, 4, 71.	9.3	47
27	Coherent coupling of a single molecule to a scanning Fabry-Pérot microcavity. , 2017, , .		0
28	Few-photon coherent nonlinear optics with a single molecule. <i>Nature Photonics</i> , 2016, 10, 450-453.	31.4	69
29	Spectroscopy and microscopy of single molecules in nanoscopic channels: spectral behavior vs. confinement depth. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 19588-19594.	2.8	18
30	When excitons and plasmons meet: Emerging function through synthesis and assembly. <i>MRS Bulletin</i> , 2015, 40, 768-776.	3.5	14
31	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.	3.4	4
32	Sensing Nanoparticles with a Cantilever-Based Scannable Optical Cavity of Low Finesse and Sub- λ^3 Volume. <i>Physical Review Applied</i> , 2015, 4, .	3.8	41
33	Spectroscopic detection of single Pr ³⁺ ions on the $3H_4 \rightarrow 1D_2$ transition. <i>New Journal of Physics</i> , 2015, 17, 083018.	2.9	26
34	Fabrication and characterization of plasmonic nanocone antennas for strong spontaneous emission enhancement. <i>Nanotechnology</i> , 2015, 26, 404001.	2.6	23
35	An ultrasmall mode volume cantilever-based Fabry-Pérot microcavity. , 2015, , .		0
36	Nonlinear Optics with Single Molecules. , 2015, , .		0

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37	Experimental realization of an optical antenna designed for collecting 99% of photons from a quantum emitter. <i>Optica</i> , 2014, 1, 203.	9.3	54
38	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.	21.0	147
39	Coherent Interaction of Light and Single Molecules in a Dielectric Nanoguide. <i>Physical Review Letters</i> , 2014, 113, 213601.	7.8	72
40	Spectroscopic detection and state preparation of a single praseodymium ion in a crystal. <i>Nature Communications</i> , 2014, 5, 3627.	12.8	102
41	Singe-photon-single-molecule Quantum Optics. , 2013, , .		0
42	Spontaneous emission enhancement of a single molecule by a double-sphere nanoantenna across an interface. <i>Optics Express</i> , 2012, 20, 23331.	3.4	24
43	A two-dimensional polymer prepared by organic synthesis. <i>Nature Chemistry</i> , 2012, 4, 287-291.	13.6	376
44	Single-Photon Spectroscopy of a Single Molecule. <i>Physical Review Letters</i> , 2012, 108, 093601.	7.8	88
45	Einzelphotonen-Kommunikation zwischen einzelnen Molekülen. <i>Physik in Unserer Zeit</i> , 2012, 43, 166-167.	0.0	0
46	99% efficiency in collecting photons from a single emitter. <i>Optics Letters</i> , 2011, 36, 3545.	3.3	72
47	A planar dielectric antenna for directional single-photon emission and near-unity collection efficiency. <i>Nature Photonics</i> , 2011, 5, 166-169.	31.4	270
48	A planar dielectric antenna for directional single-photon emission and near-unity collection efficiency. , 2011, , .		4
49	Towards detection of single solid-state ions. , 2011, , .		0
50	A scanning microcavity for in situ control of single-molecule emission. <i>Applied Physics Letters</i> , 2010, 97, 021107.	3.3	49
51	Near-infrared single-photons from aligned molecules in ultrathin crystalline films at room temperature. <i>Optics Express</i> , 2010, 18, 6577.	3.4	59
52	Efficient coupling of single photons to single plasmons. <i>Optics Express</i> , 2010, 18, 13829.	3.4	16
53	Silicon photonic microcavities for optical switching. , 2009, , .		0
54	Molecules as sources for indistinguishable single photons. <i>Journal of Modern Optics</i> , 2009, 56, 161-166.	1.3	13

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55	A single-molecule optical transistor. <i>Nature</i> , 2009, 460, 76-80.	27.8	308
56	Lifetime-limited zero-phonon spectra of single molecules in methyl methacrylate. <i>Chemical Physics Letters</i> , 2009, 472, 44-47.	2.6	9
57	Circular Grating Resonators as Small Mode-Volume Microcavities for Switching. <i>Optics Express</i> , 2009, 17, 5953.	3.4	16
58	Resolution and Enhancement in Nanoantenna-Based Fluorescence Microscopy. <i>Nano Letters</i> , 2009, 9, 4007-4011.	9.1	61
59	Spectral dynamics and spatial localization of single molecules in a polymer. <i>Molecular Physics</i> , 2009, 107, 1897-1909.	1.7	6
60	Imaging Plasmonic Nanoparticles with a Narrow-Band Single-Photon Source. , 2009, , .		0
61	Amplification of a Laser Beam by a Single Molecule. , 2009, , .		0
62	Circular grating resonators as candidates for ultra-small photonic devices. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
63	Cavity (Q)ED with microsphere resonators. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
64	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.	7.8	254
65	Strong coupling of single quantum dots to micropillars. , 2007, , .		0
66	Realization of two Fourier-limited solid-state single-photon sources. <i>Optics Express</i> , 2007, 15, 15842.	3.4	31
67	Photon Antibunching from a Single Quantum-Dot-Microcavity System in the Strong Coupling Regime. <i>Physical Review Letters</i> , 2007, 98, 117402.	7.8	309
68	Influence of a Single Quantum Dot State on the Characteristics of a Microdisk Laser. <i>Physical Review Letters</i> , 2007, 98, 117401.	7.8	76
69	Quantum Degenerate Exciton-Polaritons in Thermal Equilibrium. <i>Physical Review Letters</i> , 2006, 97, 146402.	7.8	156
70	Scanning Near-Field Optical Studies of Photonic Devices. , 2006, , 215-237.		3
71	Controlled Photon Transfer between Two Individual Nanoemitters via Shared High-Q Modes of a Microsphere Resonator. <i>Nano Letters</i> , 2006, 6, 1151-1154.	9.1	72
72	A gallium nitride single-photon source operating at 200â€‰K. <i>Nature Materials</i> , 2006, 5, 887-892.	27.5	388

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73	Influence of a controllable scatterer on the lasing properties of an ultralow threshold Raman microlaser. Applied Physics Letters, 2006, 89, 101105.	3.3	3
74	Investigation of excitons bound to fluorine donors in ZnSe. Semiconductor Science and Technology, 2006, 21, 1412-1415.	2.0	17
75	Ultrafine luminescent structures through nanoparticle self-assembly. Nanotechnology, 2006, 17, 3802-3805.	2.6	6
76	Influence of a controllable scatterer on lasing properties of an ultra-low threshold Raman-laser. , 2006, , .		0
77	Optimization of prism coupling to high-Q modes in a microsphere resonator using a near-field probe. Optics Communications, 2005, 250, 428-433.	2.1	37
78	Photon correlation studies of single GaN quantum dots. Applied Physics Letters, 2005, 87, 051916.	3.3	71
79	Confocal microscopy and spectroscopy of nanocrystals on a high-Q microsphere resonator. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, 154-158.	1.4	21
80	CdSe/CdS/ZnS and CdSe/ZnSe/ZnS Core-Shell-Shell Nanocrystals. Journal of Physical Chemistry B, 2004, 108, 18826-18831.	2.6	688
81	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.	2.6	45
82	Nanoparticles and microspheres: tools to study the interaction of quantum emitters via shared optical modes. , 2004, 5333, 174.		1
83	Highly Emissive Colloidal CdSe/CdS Heterostructures of Mixed Dimensionality. Nano Letters, 2003, 3, 1677-1681.	9.1	579
84	Controlled coupling of a single emitter to a single mode of a microsphere: where do we stand?. , 2003, , .		1
85	Influence of a sharp fiber tip on high-Q modes of a microsphere resonator. Optics Letters, 2002, 27, 80.	3.3	28
86	Towards controlled coupling between a high-Q whispering-gallery mode and a single nanoparticle. Applied Physics B: Lasers and Optics, 2001, 73, 825-828.	2.2	27
87	Mapping and manipulating whispering gallery modes of a microsphere resonator with a near-field probe. Journal of Microscopy, 2001, 202, 117-121.	1.8	29