

# Stefan Strauf

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7127347/publications.pdf>

Version: 2024-02-01

46  
papers

2,340  
citations

257450

24  
h-index

243625

44  
g-index

46  
all docs

46  
docs citations

46  
times ranked

3484  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-frequency single-photon source with polarization control. <i>Nature Photonics</i> , 2007, 1, 704-708.	31.4	344
2	Approaching the intrinsic photoluminescence linewidth in transition metal dichalcogenide monolayers. <i>2D Materials</i> , 2017, 4, 031011.	4.4	242
3	Deterministic coupling of site-controlled quantum emitters in monolayer WSe <sub>2</sub> to plasmonic nanocavities. <i>Nature Nanotechnology</i> , 2018, 13, 1137-1142.	31.5	198
4	Enabling room temperature ferromagnetism in monolayer MoS <sub>2</sub> via in situ iron-doping. <i>Nature Communications</i> , 2020, 11, 2034.	12.8	112
5	Nonmagnetic Quantum Emitters in Boron Nitride with Ultranarrow and Sideband-Free Emission Spectra. <i>ACS Nano</i> , 2017, 11, 6652-6660.	14.6	105
6	Single quantum dot nanolaser. <i>Laser and Photonics Reviews</i> , 2011, 5, 607-633.	8.7	104
7	Photon Statistics from Coupled Quantum Dots. <i>Physical Review Letters</i> , 2005, 95, 137403.	7.8	98
8	Silver nanoparticle doped TiO <sub>2</sub> nanofiber dye sensitized solar cells. <i>Chemical Physics Letters</i> , 2011, 514, 141-145.	2.6	88
9	Purcell-enhanced quantum yield from carbon nanotube excitons coupled to plasmonic nanocavities. <i>Nature Communications</i> , 2017, 8, 1413.	12.8	87
10	Low-Temperature Single Carbon Nanotube Spectroscopy of sp <sup>3</sup> Quantum Defects. <i>ACS Nano</i> , 2017, 11, 10785-10796.	14.6	79
11	Nanobubble induced formation of quantum emitters in monolayer semiconductors. <i>2D Materials</i> , 2017, 4, 021019.	4.4	76
12	Quantum Light Signatures and Nanosecond Spectral Diffusion from Cavity-Embedded Carbon Nanotubes. <i>Nano Letters</i> , 2012, 12, 1934-1941.	9.1	66
13	Prolonged spontaneous emission and dephasing of localized excitons in air-bridged carbon nanotubes. <i>Nature Communications</i> , 2013, 4, 2152.	12.8	58
14	Single photon emission in WSe <sub>2</sub> up to 160 K by quantum yield control. <i>2D Materials</i> , 2019, 6, 035017.	4.4	53
15	Localized States and Resultant Band Bending in Graphene Antidot Superlattices. <i>Nano Letters</i> , 2011, 11, 1254-1258.	9.1	48
16	Determination of edge purity in bilayer graphene using $\hat{1}/4$ -Raman spectroscopy. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	45
17	Optical Control of Edge Chirality in Graphene. <i>Nano Letters</i> , 2011, 11, 4874-4878.	9.1	45
18	Holographic Control of Motive Shape in Plasmonic Nanogap Arrays. <i>Nano Letters</i> , 2011, 11, 2715-2719.	9.1	41

#	ARTICLE	IF	CITATIONS
19	Suppression of Blinking and Enhanced Exciton Emission from Individual Carbon Nanotubes. ACS Nano, 2011, 5, 2664-2670.	14.6	40
20	Carbon Nanotube Color Centers in Plasmonic Nanocavities: A Path to Photon Indistinguishability at Telecom Bands. Nano Letters, 2019, 19, 9037-9044.	9.1	35
21	Coupling Spin Defects in a Layered Material to Nanoscale Plasmonic Cavities. Advanced Materials, 2022, 34, e2106046.	21.0	34
22	Trion-Species-Resolved Quantum Beats in MoSe <sub>2</sub> . ACS Nano, 2017, 11, 11550-11558.	14.6	33
23	Near-Unity Light Collection Efficiency from Quantum Emitters in Boron Nitride by Coupling to Metallo-Dielectric Antennas. ACS Nano, 2019, 13, 6992-6997.	14.6	31
24	Strong Acoustic Phonon Localization in Copolymer-Wrapped Carbon Nanotubes. ACS Nano, 2015, 9, 6383-6393.	14.6	26
25	Probing lattice vibrations of stabilized CsPbI <sub>3</sub> polymorphs via low-frequency Raman spectroscopy. Journal of Materials Chemistry C, 2020, 8, 8896-8903.	5.5	24
26	Exciton Dipole Orientation of Strain-Induced Quantum Emitters in WSe <sub>2</sub> . Nano Letters, 2020, 20, 5119-5126.	9.1	24
27	Towards efficient quantum sources. Nature Photonics, 2010, 4, 132-134.	31.4	21
28	Magnetic Proximity Coupling of Quantum Emitters in WSe <sub>2</sub> to van der Waals Ferromagnets. Nano Letters, 2019, 19, 7301-7308.	9.1	21
29	Directing Solution-Phase Nucleation To Form Organic Semiconductor Vertical Crystal Arrays. Crystal Growth and Design, 2019, 19, 3461-3468.	3.0	20
30	Free Trions with Near-Unity Quantum Yield in Monolayer MoSe <sub>2</sub> . ACS Nano, 2022, 16, 140-147.	14.6	19
31	The effects of substitutional Fe-doping on magnetism in MoS <sub>2</sub> and WS <sub>2</sub> monolayers. Nanotechnology, 2021, 32, 095708.	2.6	18
32	Complete Suppression of Detrimental Polymorph Transitions in All-Inorganic Perovskites via Nanoconfinement. ACS Applied Energy Materials, 2019, 2, 2948-2955.	5.1	17
33	Remarkable long-term stability of nanoconfined metal-halide perovskite crystals against degradation and polymorph transitions. Nanoscale, 2018, 10, 8320-8328.	5.6	14
34	Quantum inductance and high frequency oscillators in graphene nanoribbons. Nanotechnology, 2011, 22, 165203.	2.6	13
35	Feedback and harmonic locking of slot-type optomechanical oscillators to external low-noise reference clocks. Applied Physics Letters, 2013, 102, .	3.3	10
36	Antiferromagnetic proximity coupling between semiconductor quantum emitters in WSe <sub>2</sub> and van der Waals ferromagnets. Nanoscale, 2021, 13, 832-841.	5.6	9

#	ARTICLE	IF	CITATIONS
37	Aperiodic conductivity oscillations in quasiballistic graphene heterojunctions. Applied Physics Letters, 2010, 97, 122106.	3.3	8
38	A Systematic Study of Graphite Local Oxidation Lithography Parameters Using an Atomic Force Microscope. Nanoscience and Nanotechnology Letters, 2010, 2, 185-188.	0.4	8
39	Lasing under strong coupling. Nature Physics, 2010, 6, 244-245.	16.7	6
40	Enhanced Emission from Interlayer Excitons Coupled to Plasmonic Gap Cavities. Small, 2021, 17, e2103994.	10.0	6
41	Broadband Light Collection Efficiency Enhancement of Carbon Nanotube Excitons Coupled to Metallo-Dielectric Antenna Arrays. ACS Photonics, 2018, 5, 289-294.	6.6	5
42	Lasing woodpiles. Nature Photonics, 2011, 5, 72-74.	31.4	4
43	Suppression of exciton dephasing in sidewall-functionalized carbon nanotubes embedded into metallo-dielectric antennas. Nanoscale, 2018, 10, 12631-12638.	5.6	3
44	Transconductance and Coulomb Blockade Properties of In-Plane Grown Carbon Nanotube Field Effect Transistors. Nanoscience and Nanotechnology Letters, 2010, 2, 73-78.	0.4	2
45	High frequency single photon sources. , 2008, , .		0
46	Probing magnetic exchange fields by quantum emitters in a gate-tunable WSe <sub>2</sub> /ferromagnet-coupled system. , 2020, , .		0