Stefan Strauf

List of Publications by Year
in descending order

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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	Coupling Spin Defects in a Layered Material to Nanoscale Plasmonic Cavities. Advanced Materials, 2022, 34, e2106046.	21.0	34
2	Free Trions with Near-Unity Quantum Yield in Monolayer MoSe₂. ACS Nano, 2022, 16, 140-147.	14.6	19
3	Antiferromagnetic proximity coupling between semiconductor quantum emitters in WSe2 and van der Waals ferromagnets. Nanoscale, 2021, 13, 832-841.	5.6	9
4	The effects of substitutional Fe-doping on magnetism in MoS₂ and WS₂ monolayers. Nanotechnology, 2021, 32, 095708.	2.6	18
5	Enhanced Emission from Interlayer Excitons Coupled to Plasmonic Gap Cavities. Small, 2021, 17, e2103994.	10.0	6
6	Probing lattice vibrations of stabilized CsPbI3 polymorphs via low-frequency Raman spectroscopy. Journal of Materials Chemistry C, 2020, 8, 8896-8903.	5.5	24
7	Exciton Dipole Orientation of Strain-Induced Quantum Emitters in WSe₂. Nano Letters, 2020, 20, 5119-5126.	9.1	24
8	Enabling room temperature ferromagnetism in monolayer MoS2 via in situ iron-doping. Nature Communications, 2020, 11, 2034.	12.8	112
9	Probing magnetic exchange fields by quantum emitters in a gate-tunable WSe2/ferromagnet-coupled system. , 2020, , .		0
10	Carbon Nanotube Color Centers in Plasmonic Nanocavities: A Path to Photon Indistinguishability at Telecom Bands. Nano Letters, 2019, 19, 9037-9044.	9.1	35
11	Magnetic Proximity Coupling of Quantum Emitters in WSe₂ to van der Waals Ferromagnets. Nano Letters, 2019, 19, 7301-7308.	9.1	21
12	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
13	Directing Solution-Phase Nucleation To Form Organic Semiconductor Vertical Crystal Arrays. Crystal Growth and Design, 2019, 19, 3461-3468.	3.0	20
14	Complete Suppression of Detrimental Polymorph Transitions in All-Inorganic Perovskites via Nanoconfinement. ACS Applied Energy Materials, 2019, 2, 2948-2955.	5.1	17
15	Single photon emission in WSe ₂ up 160â€‰K by quantum yield control. 2D Materials, 2019, 6, 035017.	4.4	53
16	Remarkable long-term stability of nanoconfined metalâ€“halide perovskite crystals against degradation and polymorph transitions. Nanoscale, 2018, 10, 8320-8328.	5.6	14
17	Broadband Light Collection Efficiency Enhancement of Carbon Nanotube Excitons Coupled to Metallo-Dielectric Antenna Arrays. ACS Photonics, 2018, 5, 289-294.	6.6	5
18	Deterministic coupling of site-controlled quantum emitters in monolayer WSe2 to plasmonic nanocavities. Nature Nanotechnology, 2018, 13, 1137-1142.	31.5	198

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19	Suppression of exciton dephasing in sidewall-functionalized carbon nanotubes embedded into metallo-dielectric antennas. Nanoscale, 2018, 10, 12631-12638.	5.6	3
20	Nanobubble induced formation of quantum emitters in monolayer semiconductors. 2D Materials, 2017, 4, 021019.	4.4	76
21	Approaching the intrinsic photoluminescence linewidth in transition metal dichalcogenide monolayers. 2D Materials, 2017, 4, 031011.	4.4	242
22	Nonmagnetic Quantum Emitters in Boron Nitride with Ultranarrow and Sideband-Free Emission Spectra. ACS Nano, 2017, 11, 6652-6660.	14.6	105
23	Low-Temperature Single Carbon Nanotube Spectroscopy of sp³ Quantum Defects. ACS Nano, 2017, 11, 10785-10796.	14.6	79
24	Trion-Species-Resolved Quantum Beats in MoSe₂. ACS Nano, 2017, 11, 11550-11558.	14.6	33
25	Purcell-enhanced quantum yield from carbon nanotube excitons coupled to plasmonic nanocavities. Nature Communications, 2017, 8, 1413.	12.8	87
26	Strong Acoustic Phonon Localization in Copolymer-Wrapped Carbon Nanotubes. ACS Nano, 2015, 9, 6383-6393.	14.6	26
27	Prolonged spontaneous emission and dephasing of localized excitons in air-bridged carbon nanotubes. Nature Communications, 2013, 4, 2152.	12.8	58
28	Feedback and harmonic locking of slot-type optomechanical oscillators to external low-noise reference clocks. Applied Physics Letters, 2013, 102, .	3.3	10
29	Quantum Light Signatures and Nanosecond Spectral Diffusion from Cavity-Embedded Carbon Nanotubes. Nano Letters, 2012, 12, 1934-1941.	9.1	66
30	Localized States and Resultant Band Bending in Graphene Antidot Superlattices. Nano Letters, 2011, 11, 1254-1258.	9.1	48
31	Suppression of Blinking and Enhanced Exciton Emission from Individual Carbon Nanotubes. ACS Nano, 2011, 5, 2664-2670.	14.6	40
32	Holographic Control of Motive Shape in Plasmonic Nanogap Arrays. Nano Letters, 2011, 11, 2715-2719.	9.1	41
33	Lasing woodpiles. Nature Photonics, 2011, 5, 72-74.	31.4	4
34	Silver nanoparticle doped TiO2 nanofiber dye sensitized solar cells. Chemical Physics Letters, 2011, 514, 141-145.	2.6	88
35	Optical Control of Edge Chirality in Graphene. Nano Letters, 2011, 11, 4874-4878.	9.1	45
36	Single quantum dot nanolaser. Laser and Photonics Reviews, 2011, 5, 607-633.	8.7	104

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37	Quantum inductance and high frequency oscillators in graphene nanoribbons. Nanotechnology, 2011, 22, 165203.	2.6	13
38	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
39	Determination of edge purity in bilayer graphene using Î¼-Raman spectroscopy. Applied Physics Letters, 2010, 97, .	3.3	45
40	Towards efficient quantum sources. Nature Photonics, 2010, 4, 132-134.	31.4	21
41	Lasing under strong coupling. Nature Physics, 2010, 6, 244-245.	16.7	6
42	Aperiodic conductivity oscillations in quasiballistic graphene heterojunctions. Applied Physics Letters, 2010, 97, 122106.	3.3	8
43	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
44	High frequency single photon sources. , 2008, , .		0
45	High-frequency single-photon source with polarization control. Nature Photonics, 2007, 1, 704-708.	31.4	344
46	Photon Statistics from Coupled Quantum Dots. Physical Review Letters, 2005, 95, 137403.	7.8	98