

RÃ¼diger Schott

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

963
citations

759233

12
h-index

434195

31
g-index

38
all docs

38
docs citations

38
times ranked

998
citing authors

#	ARTICLE	IF	CITATIONS
1	A bright and fast source of coherent single photons. <i>Nature Nanotechnology</i> , 2021, 16, 399-403.	31.5	268
2	A gated quantum dot strongly coupled to an optical microcavity. <i>Nature</i> , 2019, 575, 622-627.	27.8	145
3	Indistinguishable and efficient single photons from a quantum dot in a planar nanobeam waveguide. <i>Physical Review B</i> , 2017, 96, .	3.2	85
4	Spin-photon interface and spin-controlled photon switching in a nanobeam waveguide. <i>Nature Nanotechnology</i> , 2018, 13, 398-403.	31.5	85
5	Quantum Optics with Near-Lifetime-Limited Quantum-Dot Transitions in a Nanophotonic Waveguide. <i>Nano Letters</i> , 2018, 18, 1801-1806.	9.1	49
6	Optical Detection of Single-Electron Tunneling into a Semiconductor Quantum Dot. <i>Physical Review Letters</i> , 2019, 122, 247403.	7.8	42
7	Nanomechanical single-photon routing. <i>Optica</i> , 2019, 6, 524.	9.3	41
8	Narrow optical linewidths and spin pumping on charge-tunable close-to-surface self-assembled quantum dots in an ultrathin diode. <i>Physical Review B</i> , 2017, 96, .	3.2	29
9	Deterministic positioning of nanophotonic waveguides around single self-assembled quantum dots. <i>APL Photonics</i> , 2020, 5, 086101.	5.7	28
10	Experimental Reconstruction of the Few-Photon Nonlinear Scattering Matrix from a Single Quantum Dot in a Nanophotonic Waveguide. <i>Physical Review Letters</i> , 2021, 126, 023603.	7.8	27
11	Electro-optic routing of photons from a single quantum dot in photonic integrated circuits. <i>Optics Express</i> , 2017, 25, 33514.	3.4	21
12	Coherent Optical Control of a Quantum-Dot Spin-Qubit in a Waveguide-Based Spin-Photon Interface. <i>Physical Review Applied</i> , 2019, 11, .	3.8	20
13	Suppression of Surface-Related Loss in a Gated Semiconductor Microcavity. <i>Physical Review Applied</i> , 2021, 15, .	3.8	11
14	High-quality two-dimensional electron gas in undoped InSb quantum wells. <i>Physical Review Research</i> , 2022, 4, .	3.6	10
15	Grazing-incidence X-ray diffraction of single GaAs nanowires at locations defined by focused ion beams. <i>Journal of Applied Crystallography</i> , 2013, 46, 887-892.	4.5	9
16	Coherent transmission of superconducting carriers through a $\frac{1}{2}$ $\langle i \rangle \frac{1}{4} \langle i \rangle m$ polar semiconductor. <i>Superconductor Science and Technology</i> , 2018, 31, 085007.	3.5	9
17	On-Chip Nanomechanical Filtering of Quantum-Dot Single-Photon Sources. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900404.	8.7	9
18	Wafer-scale epitaxial modulation of quantum dot density. <i>Nature Communications</i> , 2022, 13, 1633.	12.8	9

#	ARTICLE	IF	CITATIONS
19	Integrated Whispering-Gallery-Mode Resonator for Solid-State Coherent Quantum Photonics. Nano Letters, 2021, 21, 8707-8714.	9.1	7
20	On-Demand Source of Dual-Rail Photon Pairs Based on Chiral Interaction in a Nanophotonic Waveguide. PRX Quantum, 2022, 3, .	9.2	7
21	Suspended Spot-Size Converters for Scalable Single-Photon Devices. Advanced Quantum Technologies, 2020, 3, 1900076.	3.9	6
22	Tuning the Mode Splitting of a Semiconductor Microcavity with Uniaxial Stress. Physical Review Applied, 2021, 15, .	3.8	6
23	Focused ion beam supported growth of monocrystalline wurtzite InAs nanowires grown by molecular beam epitaxy. Journal of Crystal Growth, 2017, 470, 46-50.	1.5	5
24	Overcoming Ehrlich-Schwoebel barrier in (111)A GaAs molecular beam epitaxy. Journal of Crystal Growth, 2018, 481, 7-10.	1.5	5
25	Optical spin control and coherence properties of acceptor bound holes in strained GaAs. Physical Review B, 2021, 103, .	3.2	5
26	Lifetimes and Quantum Efficiencies of Quantum Dots Deterministically Positioned in Photonic Crystal Waveguides. Advanced Quantum Technologies, 2020, 3, 2000026.	3.9	4
27	Quantum polyspectra for modeling and evaluating quantum transport measurements: A unifying approach to the strong and weak measurement regime. Physical Review Research, 2021, 3, .	3.6	4
28	A chiral one-dimensional atom using a quantum dot in an open microcavity. Npj Quantum Information, 2022, 8, .	6.7	4
29	Improving the Out-Coupling of a Metal-Metal Terahertz Frequency Quantum Cascade Laser Through Integration of a Hybrid Mode Section into the Waveguide. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 426-434.	2.2	3
30	Contrast of 83% in reflection measurements on a single quantum dot. Scientific Reports, 2019, 9, 8817.	3.3	2
31	Self-Organized Growth of Quantum Dots and Quantum Wires by Combination of Focused Ion Beams and Molecular Beam Epitaxy. Physica Status Solidi (B): Basic Research, 2019, 256, 1800375.	1.5	2
32	Influence of molecular beam effusion cell quality on optical and electrical properties of quantum dots and quantum wells. Journal of Crystal Growth, 2020, 550, 125884.	1.5	2
33	Effect of electric current on the optical orientation of interface electrons in AlGaAs/GaAs heterostructures. Physical Review B, 2020, 102, .	3.2	1
34	Formation of tungsten carbide by focused ion beam process: A route to high magnetic field resilient patterned superconducting nanostructures. Applied Physics Letters, 2022, 120, 132601.	3.3	1
35	Metal-metal terahertz quantum cascade laser with hybrid mode section. , 2015, , .		0
36	On-chip nano-electro-mechanical switching of deterministic single photons. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
37	Ultra-bright Source of Indistinguishable Single Photons. , 2020, , .		0