Johannes Borregaard

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8399302/publications.pdf

Version: 2024-02-01

51	5,120	159585	182427
papers	citations	30 h-index	51 g-index

52	52	52	4752
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-fidelity multiphoton-entangled cluster state with solid-state quantum emitters in photonic nanostructures. Physical Review A, 2022, 105, .	2.5	16
2	Qubit teleportation between non-neighbouring nodes in a quantum network. Nature, 2022, 605, 663-668.	27.8	99
3	Entangling a Hole Spin with a Time-Bin Photon: A Waveguide Approach for Quantum Dot Sources of Multiphoton Entanglement. Physical Review Letters, 2022, 128, .	7.8	14
4	On-Demand Source of Dual-Rail Photon Pairs Based on Chiral Interaction in a Nanophotonic Waveguide. PRX Quantum, 2022, 3, .	9.2	7
5	Experimental Reconstruction of the Few-Photon Nonlinear Scattering Matrix from a Single Quantum Dot in a Nanophotonic Waveguide. Physical Review Letters, 2021, 126, 023603.	7.8	27
6	Noise-robust exploration of many-body quantum states on near-term quantum devices. Npj Quantum Information, 2021, 7, .	6.7	3
7	A variational toolbox for quantum multi-parameter estimation. Npj Quantum Information, 2021, 7, .	6.7	42
8	Coherent Spin-Photon Interface with Waveguide Induced Cycling Transitions. Physical Review Letters, 2021, 126, 013602.	7.8	27
9	Integrated Whispering-Gallery-Mode Resonator for Solid-State Coherent Quantum Photonics. Nano Letters, 2021, 21, 8707-8714.	9.1	7
10	Fidelity of time-bin-entangled multiphoton states from a quantum emitter. Physical Review A, 2021, 104, .	2.5	8
11	Distributed quantum sensing in a continuous-variable entangled network. Nature Physics, 2020, 16, 281-284.	16.7	166
12	Suspended Spotâ€Size Converters for Scalable Singleâ€Photon Devices. Advanced Quantum Technologies, 2020, 3, 1900076.	3.9	6
13	Near Transform-Limited Quantum Dot Linewidths in a Broadband Photonic Crystal Waveguide. ACS Photonics, 2020, 7, 2343-2349.	6.6	28
14	On-chip deterministic operation of quantum dots in dual-mode waveguides for a plug-and-play single-photon source. Nature Communications, 2020, 11, 3782.	12.8	48
15	One-Way Quantum Repeater Based on Near-Deterministic Photon-Emitter Interfaces. Physical Review X, 2020, 10, .	8.9	61
16	Topological Quantum Optics Using Atomlike Emitter Arrays Coupled to Photonic Crystals. Physical Review Letters, 2020, 124, 083603.	7.8	53
17	Nanophotonic quantum network node with neutral atoms and an integrated telecom interface. New Journal of Physics, 2020, 22, 073033.	2.9	12
18	Optical Interferometry with Quantum Networks. Physical Review Letters, 2019, 123, 070504.	7.8	74

#	Article	IF	Citations
19	Quantum-assisted telescope arrays. Physical Review A, 2019, 100, .	2.5	35
20	Quantum Networks with Deterministic Spinâ€“Photon Interfaces. Advanced Quantum Technologies, 2019, 2, 1800091.	3.9	51
21	Coherent nonlinear optics of quantum emitters in nanophotonic waveguides. Nanophotonics, 2019, 8, 1641-1657.	6.0	40
22	Coherent Optical Control of a Quantum-Dot Spin-Qubit in a Waveguide-Based Spin-Photon Interface. Physical Review Applied, 2019, 11, .	3.8	20
23	Super sensitivity and super resolution with quantum teleportation. Npj Quantum Information, 2019, 5, .	6.7	3
24	Nanomechanical single-photon routing. Optica, 2019, 6, 524.	9.3	41
25	Quantum Optics with Near-Lifetime-Limited Quantum-Dot Transitions in a Nanophotonic Waveguide. Nano Letters, 2018, 18, 1801-1806.	9.1	49
26	Controlled-phase Gate for Photons Based on Stationary Light. Physical Review Letters, 2018, 120, 010502.	7.8	15
27	Spinâ€“photon interface and spin-controlled photon switching in a nanobeam waveguide. Nature Nanotechnology, 2018, 13, 398-403.	31.5	85
28	Quantum-dot based photonic quantum networks. Quantum Science and Technology, 2018, 3, 013001.	5.8	108
29	Scaling up solid-state quantum photonics. Science, 2018, 362, 646-646.	12.6	6
30	Minimum error probability of quantum illumination. Physical Review A, 2018, 98, .	2.5	54
31	Numerical modeling of the coupling efficiency of single quantum emitters in photonic-crystal waveguides. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 514.	2.1	27
32	Chiral quantum optics. Nature, 2017, 541, 473-480.	27.8	1,007
33	Efficient quantum computation in a network with probabilistic gates and logical encoding. Physical Review A, 2017, 95, .	2.5	5
34	Indistinguishable and efficient single photons from a quantum dot in a planar nanobeam waveguide. Physical Review B, 2017, 96, .	3.2	85
35	Photonic band structure of two-dimensional atomic lattices. Physical Review A, 2017, 96, .	2.5	57
36	Topological Quantum Optics in Two-Dimensional Atomic Arrays. Physical Review Letters, 2017, 119, 023603.	7.8	145

#	Article	IF	Citations
37	One- and two-axis squeezing of atomic ensembles in optical cavities. New Journal of Physics, 2017, 19, 093021.	2.9	31
38	Efficient fiber-coupled single-photon source based on quantum dots in a photonic-crystal waveguide. Optica, 2017, 4, 178.	9.3	87
39	Quantum Networks with Chiral-Lightâ€“Matter Interaction in Waveguides. Physical Review Letters, 2016, 117, 240501.	7.8	93
40	An integrated diamond nanophotonics platform for quantum-optical networks. Science, 2016, 354, 847-850.	12.6	570
41	Photonic controlled-phase gates through Rydberg blockade in optical cavities. Physical Review A, 2016, 93, .	2.5	51
42	Scalable photonic network architecture based on motional averaging in room temperature gas. Nature Communications, 2016, 7, 11356.	12.8	34
43	Elementary test for nonclassicality based on measurements of position and momentum. Physical Review A, 2015, 92, .	2.5	1
44	Long-distance entanglement distribution using individual atoms in optical cavities. Physical Review A, 2015, 92, .	2.5	28
45	Heralded Quantum Gates with Integrated Error Detection in Optical Cavities. Physical Review Letters, 2015, 114, 110502.	7.8	41
46	Deterministic photonâ€“emitter coupling in chiral photonic circuits. Nature Nanotechnology, 2015, 10, 775-778.	31.5	466
47	Interfacing single photons and single quantum dots with photonic nanostructures. Reviews of Modern Physics, 2015, 87, 347-400.	45.6	1,014
48	Efficient Atomic Clocks Operated with Several Atomic Ensembles. Physical Review Letters, 2013, 111, 090802.	7.8	43
49	Near-Heisenberg-Limited Atomic Clocks in the Presence of Decoherence. Physical Review Letters, 2013, 111, 090801.	7.8	58
50	Hybrid quantum repeater protocol with fast local processing. Physical Review A, 2012, 86, .	2.5	5
51	Probing long-lived dark excitons in self-assembled quantum dots. Physical Review B, 2010, 81, .	3.2	67