Annika Kurzmann

List of Publications by Year
in descending order

33	899	471509 17	454955 30
papers	citations	h-index	g-index

34	34	34	937
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pauli Blockade of Tunable Two-Electron Spin and Valley States in Graphene Quantum Dots. Physical Review Letters, 2022, 128, 067702.	7.8	19
2	Pushing the Limits in Real-Time Measurements of Quantum Dynamics. Physical Review Letters, 2022, 128, 087701.	7.8	12
3	Single-Shot Spin Readout in Graphene Quantum Dots. PRX Quantum, 2022, 3, .	9.2	18
4	Tunable Valley Splitting and Bipolar Operation in Graphene Quantum Dots. Nano Letters, 2021, 21, 1068-1073.	9.1	35
5	Internal photoeffect from a single quantum emitter. Physical Review B, 2021, 103, .	3.2	3
6	Quantum Sensor for Nanoscale Defect Characterization. Physical Review Applied, 2021, 15, .	3.8	6
7	Shell Filling and Trigonal Warping in Graphene Quantum Dots. Physical Review Letters, 2021, 126, 147703.	7.8	22
8	Coherent Jetting from a Gate-Defined Channel in Bilayer Graphene. Physical Review Letters, 2021, 127, 046801.	7.8	17
9	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
10	Correlated electron-hole state in twisted double-bilayer graphene. Science, 2021, 373, 1257-1260.	12.6	41
11	Kondo effect and spinâ€“orbit coupling in graphene quantum dots. Nature Communications, 2021, 12, 6004.	12.8	27
12	Combined Minivalley and Layer Control in Twisted Double Bilayer Graphene. Physical Review Letters, 2020, 125, 176801.	7.8	15
13	Fully Automated Identification of Two-Dimensional Material Samples. Physical Review Applied, 2020, 13, .	3.8	16
14	Tunable Valley Splitting due to Topological Orbital Magnetic Moment in Bilayer Graphene Quantum Point Contacts. Physical Review Letters, 2020, 124, 126802.	7.8	46
15	Real-Time Detection of Single Auger Recombination Events in a Self-Assembled Quantum Dot. Nano Letters, 2020, 20, 1631-1636.	9.1	14
16	The electronic thickness of graphene. Science Advances, 2020, 6, eaay8409.	10.3	35
17	Coulomb dominated cavities in bilayer graphene. Physical Review Research, 2020, 2, .	3.6	5
18	Scanning gate microscopy of localized states in a gate-defined bilayer graphene channel. Physical Review Research, 2020, 2, .	3.6	6

#	Article	IF	Citations
19	Charge Detection in Gate-Defined Bilayer Graphene Quantum Dots. Nano Letters, 2019, 19, 5216-5221.	9.1	45
20	Excited States in Bilayer Graphene Quantum Dots. Physical Review Letters, 2019, 123, 026803.	7.8	66
21	Gap Opening in Twisted Double Bilayer Graphene by Crystal Fields. Nano Letters, 2019, 19, 8821-8828.	9.1	39
22	Large Multidirectional Spin-to-Charge Conversion in Low-Symmetry Semimetal MoTe₂ at Room Temperature. Nano Letters, 2019, 19, 8758-8766.	9.1	81
23	Optical Detection of Single-Electron Tunneling into a Semiconductor Quantum Dot. Physical Review Letters, 2019, 122, 247403.	7.8	42
24	Contrast of 83% in reflection measurements on a single quantum dot. Scientific Reports, 2019, 9, 8817.	3.3	2
25	Photon Noise Suppression by a Built-in Feedback Loop. Nano Letters, 2019, 19, 135-141.	9.1	3
26	Spin and Valley States in Gate-Defined Bilayer Graphene Quantum Dots. Physical Review X, 2018, 8, .	8.9	83
27	Coupled Quantum Dots in Bilayer Graphene. Nano Letters, 2018, 18, 5042-5048.	9.1	64
28	Electron dynamics in transport and optical measurements of selfâ€assembled quantum dots. Physica Status Solidi (B): Basic Research, 2017, 254, 1600625.	1.5	6
29	Charge-driven feedback loop in the resonance fluorescence of a single quantum dot. Physical Review B, 2017, 95, .	3.2	4
30	Photoelectron generation and capture in the resonance fluorescence of a quantum dot. Applied Physics Letters, 2016, 108, .	3.3	15
31	Auger Recombination in Self-Assembled Quantum Dots: Quenching and Broadening of the Charged Exciton Transition. Nano Letters, 2016, 16, 3367-3372.	9.1	60
32	Optical Blocking of Electron Tunneling into a Single Self-Assembled Quantum Dot. Physical Review Letters, 2016, 117, 017401.	7.8	21
33	Asymmetry of charge relaxation times in quantum dots: The influence of degeneracy. Europhysics Letters, 2014, 106, 47002.	2.0	25