Annika Kurzmann

List of Publications by Year
in descending order

33 papers	899 citations	471509 17 h-index	454955 30 g-index
34 all docs	34 docs citations	34 times ranked	937 citing authors

#	Article	IF	Citations
1	Spin and Valley States in Gate-Defined Bilayer Graphene Quantum Dots. Physical Review X, 2018, 8, .	8.9	83
2	Large Multidirectional Spin-to-Charge Conversion in Low-Symmetry Semimetal MoTe₂ at Room Temperature. Nano Letters, 2019, 19, 8758-8766.	9.1	81
3	Excited States in Bilayer Graphene Quantum Dots. Physical Review Letters, 2019, 123, 026803.	7.8	66
4	Coupled Quantum Dots in Bilayer Graphene. Nano Letters, 2018, 18, 5042-5048.	9.1	64
5	Auger Recombination in Self-Assembled Quantum Dots: Quenching and Broadening of the Charged Exciton Transition. Nano Letters, 2016, 16, 3367-3372.	9.1	60
6	Tunable Valley Splitting due to Topological Orbital Magnetic Moment in Bilayer Graphene Quantum Point Contacts. Physical Review Letters, 2020, 124, 126802.	7.8	46
7	Charge Detection in Gate-Defined Bilayer Graphene Quantum Dots. Nano Letters, 2019, 19, 5216-5221.	9.1	45
8	Optical Detection of Single-Electron Tunneling into a Semiconductor Quantum Dot. Physical Review Letters, 2019, 122, 247403.	7.8	42
9	Correlated electron-hole state in twisted double-bilayer graphene. Science, 2021, 373, 1257-1260.	12.6	41
10	Gap Opening in Twisted Double Bilayer Graphene by Crystal Fields. Nano Letters, 2019, 19, 8821-8828.	9.1	39
11	The electronic thickness of graphene. Science Advances, 2020, 6, eaay8409.	10.3	35
12	Tunable Valley Splitting and Bipolar Operation in Graphene Quantum Dots. Nano Letters, 2021, 21, 1068-1073.	9.1	35
13	Kondo effect and spinâ€“orbit coupling in graphene quantum dots. Nature Communications, 2021, 12, 6004.	12.8	27
14	Asymmetry of charge relaxation times in quantum dots: The influence of degeneracy. Europhysics Letters, 2014, 106, 47002.	2.0	25
15	Shell Filling and Trigonal Warping in Graphene Quantum Dots. Physical Review Letters, 2021, 126, 147703.	7.8	22
16	Optical Blocking of Electron Tunneling into a Single Self-Assembled Quantum Dot. Physical Review Letters, 2016, 117, 017401.	7.8	21
17	Pauli Blockade of Tunable Two-Electron Spin and Valley States in Graphene Quantum Dots. Physical Review Letters, 2022, 128, 067702.	7.8	19
18	Single-Shot Spin Readout in Graphene Quantum Dots. PRX Quantum, 2022, 3, .	9.2	18

#	Article	IF	Citations
19	Coherent Jetting from a Gate-Defined Channel in Bilayer Graphene. Physical Review Letters, 2021, 127, 046801.	7.8	17
20	Fully Automated Identification of Two-Dimensional Material Samples. Physical Review Applied, 2020, 13, .	3.8	16
21	Photoelectron generation and capture in the resonance fluorescence of a quantum dot. Applied Physics Letters, 2016, 108, .	3.3	15
22	Combined Minivalley and Layer Control in Twisted Double Bilayer Graphene. Physical Review Letters, 2020, 125, 176801.	7.8	15
23	Real-Time Detection of Single Auger Recombination Events in a Self-Assembled Quantum Dot. Nano Letters, 2020, 20, 1631-1636.	9.1	14
24	Pushing the Limits in Real-Time Measurements of Quantum Dynamics. Physical Review Letters, 2022, 128, 087701.	7.8	12
25	Electron dynamics in transport and optical measurements of selfâ€assembled quantum dots. Physica Status Solidi (B): Basic Research, 2017, 254, 1600625.	1.5	6
26	Quantum Sensor for Nanoscale Defect Characterization. Physical Review Applied, 2021, 15, .	3.8	6
27	Scanning gate microscopy of localized states in a gate-defined bilayer graphene channel. Physical Review Research, 2020, 2, .	3.6	6
28	Coulomb dominated cavities in bilayer graphene. Physical Review Research, 2020, 2, .	3.6	5
29	Charge-driven feedback loop in the resonance fluorescence of a single quantum dot. Physical Review B, 2017, 95, .	3.2	4
30	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
31	Photon Noise Suppression by a Built-in Feedback Loop. Nano Letters, 2019, 19, 135-141.	9.1	3
32	Internal photoeffect from a single quantum emitter. Physical Review B, 2021, 103, .	3.2	3
33	Contrast of 83% in reflection measurements on a single quantum dot. Scientific Reports, 2019, 9, 8817.	3.3	2