

Andreas Baumgartner

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45
papers

946
citations

18
h-index

29
g-index

50
ext. papers

1,193
ext. citations

4.9
avg, IF

4.23
L-index

#	Paper	IF	Citations
45	Near-unity Cooper pair splitting efficiency. <i>Physical Review Letters</i> , 2012 , 109, 157002	7.4	121
44	Finite-bias Cooper pair splitting. <i>Physical Review Letters</i> , 2011 , 107, 136801	7.4	106
43	Nonlocal spectroscopy of Andreev bound states. <i>Physical Review B</i> , 2014 , 89,	3.3	61
42	New Generation of Moiré Superlattices in Doubly Aligned hBN/Graphene/hBN Heterostructures. <i>Nano Letters</i> , 2019 , 19, 2371-2376	11.5	49
41	Magnetic Field Tuning and Quantum Interference in a Cooper Pair Splitter. <i>Physical Review Letters</i> , 2015 , 115, 227003	7.4	43
40	Contact resistance dependence of crossed Andreev reflection. <i>Europhysics Letters</i> , 2009 , 87, 27011	1.6	41
39	Permalloy-based carbon nanotube spin-valve. <i>Applied Physics Letters</i> , 2010 , 97, 153116	3.4	37
38	Local electrical tuning of the nonlocal signals in a Cooper pair splitter. <i>Physical Review B</i> , 2014 , 90,	3.3	35
37	Resonant and Inelastic Andreev Tunneling Observed on a Carbon Nanotube Quantum Dot. <i>Physical Review Letters</i> , 2015 , 115, 216801	7.4	32
36	Quantum Hall effect transition in scanning gate experiments. <i>Physical Review B</i> , 2007 , 76,	3.3	30
35	Andreev bound states probed in three-terminal quantum dots. <i>Physical Review B</i> , 2017 , 96,	3.3	28
34	Entanglement witnessing and quantum cryptography with nonideal ferromagnetic detectors. <i>Physical Review B</i> , 2014 , 89,	3.3	25
33	Optimized fabrication and characterization of carbon nanotube spin valves. <i>Journal of Applied Physics</i> , 2014 , 115, 174309	2.5	24
32	Classical Hall effect in scanning gate experiments. <i>Physical Review B</i> , 2006 , 74,	3.3	24
31	Magnetic field and contact resistance dependence of non-local charge imbalance. <i>Nanotechnology</i> , 2010 , 21, 274002	3.4	22
30	Scanning capacitance imaging of compressible and incompressible quantum Hall effect edge strips. <i>New Journal of Physics</i> , 2012 , 14, 083015	2.9	21
29	Upconversion electroluminescence in InAs quantum dot light-emitting diodes. <i>Applied Physics Letters</i> , 2008 , 92, 091121	3.4	20

28	Gigahertz Quantized Charge Pumping in Bottom-Gate-Defined InAs Nanowire Quantum Dots. <i>Nano Letters</i> , 2015 , 15, 4585-90	11.5	18
27	Cooper-pair splitting in two parallel InAs nanowires. <i>New Journal of Physics</i> , 2018 , 20, 063021	2.9	18
26	In Situ Strain Tuning in hBN-Encapsulated Graphene Electronic Devices. <i>Nano Letters</i> , 2019 , 19, 4097-4102	11.5	17
25	Spectroscopy of the superconducting proximity effect in nanowires using integrated quantum dots. <i>Communications Physics</i> , 2019 , 2,	5.4	17
24	Ultraclean single, double, and triple carbon nanotube quantum dots with recessed Re bottom gates. <i>Nano Letters</i> , 2013 , 13, 4522-6	11.5	16
23	Magnetic-Field-Independent Subgap States in Hybrid Rashba Nanowires. <i>Physical Review Letters</i> , 2020 , 125, 017701	7.4	13
22	Carbon nanotube quantum dots on hexagonal boron nitride. <i>Applied Physics Letters</i> , 2014 , 105, 023111	3.4	12
21	Highly symmetric and tunable tunnel couplings in InAs/InP nanowire heterostructure quantum dots. <i>Nanotechnology</i> , 2019 , 31, 135003	3.4	10
20	Subgap resonant quasiparticle transport in normal-superconductor quantum dot devices. <i>Applied Physics Letters</i> , 2016 , 108, 172604	3.4	10
19	g-factor anisotropy in nanowire-based InAs quantum dots 2013 ,		9
18	Fork stamping of pristine carbon nanotubes onto ferromagnetic contacts for spin-valve devices. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 2496-2502	1.3	8
17	Sharp-line electroluminescence from individual quantum dots by resonant tunneling injection of carriers. <i>Applied Physics Letters</i> , 2006 , 89, 092106	3.4	8
16	A double quantum dot spin valve. <i>Communications Physics</i> , 2020 , 3,	5.4	8
15	Mobility Enhancement in Graphene by in situ Reduction of Random Strain Fluctuations. <i>Physical Review Letters</i> , 2020 , 124, 157701	7.4	8
14	Large spatial extension of the zero-energy Yu-Shiba-Rusinov state in a magnetic field. <i>Nature Communications</i> , 2020 , 11, 1834	17.4	7
13	Wet etch methods for InAs nanowire patterning and self-aligned electrical contacts. <i>Nanotechnology</i> , 2016 , 27, 195303	3.4	6
12	Magnetoresistance engineering and singlet/triplet switching in InAs nanowire quantum dots with ferromagnetic sidegates. <i>Physical Review B</i> , 2016 , 94,	3.3	6
11	Full characterization of a carbon nanotube parallel double quantum dot. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 2428-2432	1.3	5

10	Low-temperature and high magnetic field dynamic scanning capacitance microscope. <i>Review of Scientific Instruments</i> , 2009 , 80, 013704	1.7	5
9	Scanning capacitance imaging of compressible quantum Hall effect stripes formed at the sample edge and at a potential fluctuation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1548-1550	3	5
8	Optical imaging of electrical carrier injection into individual InAs quantum dots. <i>Physical Review Letters</i> , 2010 , 105, 257401	7.4	4
7	Scanning Probe with Tuning Fork Sensor, Microfabricated Silicon Cantilever and Conductive Tip for Microscopy at Cryogenic Temperature. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 1992-1995	1.4	4
6	Circuit Quantum Electrodynamics with Carbon-Nanotube-Based Superconducting Quantum Circuits. <i>Physical Review Applied</i> , 2021 , 15,	4.3	4
5	Entanglement Detection with Non-Ideal Ferromagnetic Detectors. <i>Acta Physica Polonica A</i> , 2015 , 127, 493-495	0.6	3
4	Superconducting Contacts to a Monolayer Semiconductor. <i>Nano Letters</i> , 2021 , 21, 5614-5619	11.5	3
3	Spectroscopy of the local density of states in nanowires using integrated quantum dots. <i>Physical Review B</i> , 2021 , 104,	3.3	1
2	Cooper-Paare tunneln durch einen Quantenpunkt. <i>Physik in Unserer Zeit</i> , 2016 , 47, 62-63	0.1	
1	Radio-frequency characterization of a supercurrent transistor made of a carbon nanotube. <i>Materials for Quantum Technology</i> , 2021 , 1, 035003		