Andreas K HÃ¼ttel

List of Publications by Year
in descending order

43 papers	1,605 citations	516710 16 h-index	289244 40 g-index
44 all docs	44 docs citations	44 times ranked	1356 citing authors

#	Article	IF	Citations
1	Strong Coupling Between Single-Electron Tunneling and Nanomechanical Motion. Science, 2009, 325, 1103-1107.	12.6	348
2	Carbon Nanotubes as Ultrahigh Quality Factor Mechanical Resonators. Nano Letters, 2009, 9, 2547-2552.	9.1	322
3	Probing and Controlling the Bonds of an Artificial Molecule. Science, 2002, 297, 70-72.	12.6	224
4	Universality of the Kondo Effect in Quantum Dots with Ferromagnetic Leads. Physical Review Letters, 2011, 107, 176808.	7.8	82
5	Pumping of Vibrational Excitations in the Coulomb-Blockade Regime in a Suspended Carbon Nanotube. Physical Review Letters, 2009, 102, 225501.	7.8	71
6	Direct control of the tunnel splitting in a one-electron double quantum dot. Physical Review B, 2005, 72, .	3.2	70
7	Temperature dependence of Andreev spectra in a superconducting carbon nanotube quantum dot. Physical Review B, 2014, 89, .	3.2	53
8	Broken SU(4) symmetry in a Kondo-correlated carbon nanotube. Physical Review B, 2015, 91, .	3.2	38
9	Spin blockade in ground-state resonance of a quantum dot. Europhysics Letters, 2003, 62, 712-718.	2.0	36
10	Magnetic damping of a carbon nanotube nano-electromechanical resonator. New Journal of Physics, 2012, 14, 083024.	2.9	30
11	Nuclear spin relaxation probed by a single quantum dot. Physical Review B, 2004, 69, .	3.2	28
12	Nanoelectromechanics of suspended carbon nanotubes. New Journal of Physics, 2008, 10, 095003.	2.9	28
13	Quantum capacitance mediated carbon nanotube optomechanics. Nature Communications, 2020, 11, 1636.	12.8	24
14	Single electron tunnelling through highâ€<i>Q</i> singleâ€wall carbon nanotube NEMS resonators. Physica Status Solidi (B): Basic Research, 2010, 247, 2974-2979.	1.5	23
15	Nanomechanical Characterization of the Kondo Charge Dynamics in a Carbon Nanotube. Physical Review Letters, 2018, 120, 246802.	7.8	19
16	Phase coherent transport in two coupled quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 16, 76-82.	2.7	16
17	Kondo effect in a one-electron double quantum dot: Oscillations of the Kondo current in a weak magnetic field. Physical Review B, 2006, 74, .	3.2	16
18	Transport across a carbon nanotube quantum dot contacted with ferromagnetic leads: Experiment and nonperturbative modeling. Physical Review B, 2015, 91, .	3.2	16

#	Article	IF	Citations
19	Shaping Electron Wave Functions in a Carbon Nanotube with a Parallel Magnetic Field. Physical Review Letters, 2019, 122, 086802.	7.8	15
20	Self-detecting gate-tunable nanotube paddle resonators. Applied Physics Letters, 2008, 93, 111909.	3.3	14
21	Characterization of ferromagnetic contacts to carbon nanotubes. Journal of Applied Physics, 2009, 106, 084314.	2.5	13
22	Coulomb Blockade Spectroscopy of a MoS 2 Nanotube. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900251.	2.4	13
23	Lab::Measurementâ€"A portable and extensible framework for controlling lab equipment and conducting measurements. Computer Physics Communications, 2019, 234, 216-222.	7.5	13
24	Secondary Electron Interference from Trigonal Warping in Clean Carbon Nanotubes. Physical Review Letters, 2016, 117, 166804.	7.8	11
25	Subgap spectroscopy of thermally excited quasiparticles in a Nb-contacted carbon nanotube quantum dot. Physical Review B, 2014, 89, .	3.2	10
26	Liquid-induced damping of mechanical feedback effects in single electron tunneling through a suspended carbon nanotube. Applied Physics Letters, 2015, 107, .	3.3	10
27	Co-sputtered MoRe thin films for carbon nanotube growth-compatible superconducting coplanar resonators. Nanotechnology, 2016, 27, 135202.	2.6	9
28	Negative frequency tuning of a carbon nanotube nano-electromechanical resonator under tension. Physica Status Solidi (B): Basic Research, 2013, 250, 2518-2522.	1.5	8
29	Quartz Tuningâ€Fork Based Carbon Nanotube Transfer into Quantum Device Geometries. Physica Status Solidi (B): Basic Research, 2018, 255, 1800118.	1.5	7
30	Molecular states in a one-electron double quantum dot. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 34, 488-492.	2.7	6
31	Thermally induced subgap features in the cotunneling spectroscopy of a carbon nanotube. New Journal of Physics, 2014, 16, 123040.	2.9	6
32	Towards carbon nanotube growth into superconducting microwave resonator geometries. Physica Status Solidi (B): Basic Research, 2016, 253, 2385-2390.	1.5	5
33	Carbon Nanotube Millikelvin Transport and Nanomechanics. Physica Status Solidi (B): Basic Research, 2019, 256, 1800517.	1.5	4
34	Probing coherent electronic states in double quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 2094-2110.	0.8	3
35	Magnetic field control of the Franck-Condon coupling of few-electron quantum states. Physical Review B, 2020, 102, .	3.2	3
36	Spectroscopy of molecular states in a few-electron double quantum dot. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 35, 278-284.	2.7	2

#	Article	IF	Citations
37	A widely tunable few-electron droplet. Journal of Physics Condensed Matter, 2007, 19, 236202.	1.8	2
38	Suspended carbon nanotube double quantum dots. Physica Status Solidi (B): Basic Research, 2007, 244, 4184-4187.	1.5	2
39	From Transparent Conduction to Coulomb Blockade at Fixed Hole Number. Physica Status Solidi (B): Basic Research, 2020, 257, 2000253.	1.5	2
40	Confinement Related Phenomena in MoS 2 Tubular Structures Grown from Vapour Phase. Israel Journal of Chemistry, 0, , .	2.3	2
41	Transversal magnetic anisotropy in nanoscale PdNi-strips. Journal of Applied Physics, 2013, 113, 034303.	2.5	1
42	Double quantum dots in suspended carbon nanotubes. Journal of Physics: Conference Series, 2007, 92, 012037.	0.4	0
43	Negative frequency tuning of a carbon nanotube nano-electromechanical resonator under tension (Phys. Status Solidi B 12/2013). Physica Status Solidi (B): Basic Research, 2013, 250, .	1.5	0