Christopher Bauerle

List of Publications by Year
in descending order

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93	3,198	147801	155660
papers	citations	31 h-index	55 g-index

94	94	94	2622
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spin-Valley Coupling Anisotropy and Noise in CMOS Quantum Dots. Physical Review Applied, 2022, 17, .	3.8	5
2	Coherent control of individual electron spins in a two-dimensional quantum dot array. Nature Nanotechnology, 2021, 16, 296-301.	31.5	47
3	Distant spin entanglement via fast and coherent electron shuttling. Nature Nanotechnology, 2021, 16, 570-575.	31.5	36
4	Remotely Pumped GHz Antibunched Emission from Single Exciton Centers in GaAs. ACS Photonics, 2021, 8, 758-764.	6.6	3
5	Enhanced Spin Coherence while Displacing Electron in a Two-Dimensional Array of Quantum Dots. PRX Quantum, 2021, 2, .	9.2	13
6	In-flight distribution of an electron within a surface acoustic wave. Applied Physics Letters, 2021, 119, .	3.3	10
7	Heat-Driven Electron-Motion in a Nanoscale Electronic Circuit. Journal of the Physical Society of Japan, 2021, 90, .	1.6	2
8	Charge Detection in an Array of CMOS Quantum Dots. Physical Review Applied, 2020, 14, .	3.8	40
9	Efficient Three-Dimensional Photonicâ€“Plasmonic Photoconductive Switches for Picosecond THz Pulses. ACS Photonics, 2020, 7, 1444-1451.	6.6	9
10	The 2019 surface acoustic waves roadmap. Journal Physics D: Applied Physics, 2019, 52, 353001.	2.8	236
11	Sound-driven single-electron transfer in a circuit of coupled quantum rails. Nature Communications, 2019, 10, 4557.	12.8	50
12	Gate-based high fidelity spin readout in a CMOS device. Nature Nanotechnology, 2019, 14, 737-741.	31.5	91
13	Coherent control of single electrons: a review of current progress. Reports on Progress in Physics, 2018, 81, 056503.	20.1	180
14	All-Electrical Control of a Hybrid Electron Spin/Valley Quantum Bit in SOI CMOS Technology. IEEE Transactions on Electron Devices, 2018, 65, 5151-5156.	3.0	13
15	Unveiling the bosonic nature of an ultrashort few-electron pulse. Nature Communications, 2018, 9, 2811.	12.8	28
16	Classical information transfer between distant quantum dots using individual electrons in fast moving quantum dots. Physica Status Solidi (B): Basic Research, 2017, 254, 1600673.	1.5	2
17	Mesoscopic phase behavior in a quantum dot around crossover between single-level and multilevel transport regimes. Physical Review B, 2017, 95, .	3.2	5
18	Coherent long-distance displacement of individual electron spins. Nature Communications, 2017, 8, 501.	12.8	55

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19	Non-universal transmission phase behaviour of a large quantum dot. Nature Communications, 2017, 8, 1710.	12.8	16
20	A linear triple quantum dot system in isolated configuration. Applied Physics Letters, 2017, 110, .	3.3	17
21	Injection of a single electron from static to moving quantum dots. Nanotechnology, 2016, 27, 214001.	2.6	15
22	Low-temperature behavior of transmission phase shift across a Kondo correlated quantum dot. Physical Review B, 2016, 94, .	3.2	9
23	Fast spin information transfer between distant quantum dots using individual electrons. Nature Nanotechnology, 2016, 11, 672-676.	31.5	71
24	Quantum Manipulation of Two-Electron Spin States in Isolated Double Quantum Dots. Physical Review Letters, 2015, 115, 096801.	7.8	57
25	Measurement of the transmission phase of an electron in a quantum two-path interferometer. Applied Physics Letters, 2015, 107, .	3.3	14
26	Theoretical, numerical, and experimental study of a flying qubit electronic interferometer. Physical Review B, 2014, 89, .	3.2	34
27	Transmission Phase in the Kondo Regime Revealed in a Two-Path Interferometer. Physical Review Letters, 2014, 113, 126601.	7.8	38
28	Superconducting nano-mechanical diamond resonators. Carbon, 2014, 72, 100-105.	10.3	26
29	Interplay between exchange interaction and magnetic field gradient in a double quantum dot with two individual electron spin qubits. Physical Review B, 2014, 90, .	3.2	6
30	Un Ã©lectron surfeur. , 2014, , 10-14.	0.1	0
31	Magnetic Dephasing in Mesoscopic Spin Glasses. Physical Review Letters, 2013, 111, 187203.	7.8	10
32	Fast and efficient single electron transfer between distant quantum dots. Journal of Applied Physics, 2013, 113, .	2.5	8
33	Observation of conduction electron spin resonance in boron-doped diamond. Physical Review B, 2013, 87, .	3.2	13
34	Iron impurities in gold and silver: Comparison of transport measurements to numerical renormalization group calculations exploiting non-Abelian symmetries. Physical Review B, 2013, 88, .	3.2	21
35	A few-electron quadruple quantum dot in a closed loop. Applied Physics Letters, 2012, 101, .	3.3	50
36	Transport through side-coupled double quantum dots: From weak to strong interdot coupling. Physical Review B, 2012, 85, .	3.2	21

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37	A detailed analysis of the Raman spectra in superconducting boron doped nanocrystalline diamond. Physica Status Solidi (B): Basic Research, 2012, 249, 2656-2659.	1.5	38
38	Einzelne Elektronen surfen auf einer Schallwelle. Physik in Unserer Zeit, 2012, 43, 7-8.	0.0	0
39	Electrical control of a solid-state flying qubit. Nature Nanotechnology, 2012, 7, 247-251.	31.5	105
40	The Diamond Superconducting Quantum Interference Device. ACS Nano, 2011, 5, 7144-7148.	14.6	54
41	Electrons surfing on a sound wave as a platform for quantum optics with flying electrons. Nature, 2011, 477, 435-438.	27.8	263
42	Remanence effects in the electrical resistivity of spin glasses. Europhysics Letters, 2011, 93, 27001.	2.0	4
43	Efficient radio frequency filters for space constrained cryogenic setups. Review of Scientific Instruments, 2011, 82, 024704.	1.3	8
44	Quantum coherence and magnetic scattering. International Journal of Nanotechnology, 2010, 7, 403.	0.2	1
45	Detailed study of superconductivity in nanostructured nanocrystalline boron doped diamond thin films. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 2017-2022.	1.8	9
46	Quantum coherence at low temperatures in mesoscopic systems: Effect of disorder. Physical Review B, 2010, 81, .	3.2	34
47	Nanostructures made from superconducting boron-doped diamond. Nanotechnology, 2010, 21, 195303.	2.6	31
48	Kondo Decoherence: Finding the Right Spin Model for Iron Impurities in Gold and Silver. Physical Review Letters, 2009, 102, 056802.	7.8	77
49	Effect of Disorder on the Quantum Coherence in Mesoscopic Wires. Physical Review Letters, 2009, 102, 226801.	7.8	21
50	A microstructural study of superconductive nanocrystalline diamond. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1986-1990.	1.8	5
51	Low-temperature dephasing in irradiated metallic wires. Physical Review B, 2008, 77, .	3.2	6
52	DEPHASING IN KONDO SYSTEMS: COMPARISON BETWEEN THEORY AND EXPERIMENT. , 2008, , .		0
53	ENSEMBLE AVERAGING IN METALLIC QUANTUM NETWORKS. , 2008, , .		0
54	Dimensional Crossover in Quantum Networks: From Macroscopic to Mesoscopic Physics. Physical Review Letters, 2007, 98, 026807.	7.8	14

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55	Electron coherence at low temperatures: The role of magnetic impurities. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 40, 12-24.	2.7	24
56	Scaling of the Low-Temperature Dephasing Rate in Kondo Systems. Physical Review Letters, 2006, 97, 226804.	7.8	44
57	Ferromagnetic nanoclusters in two-dimensionalHe3. Physical Review B, 2006, 73, .	3.2	6
58	Experimental Test of the Numerical Renormalization-Group Theory for Inelastic Scattering from Magnetic Impurities. Physical Review Letters, 2005, 95, 266805.	7.8	34
59	Preliminary Heat-Capacity Measurements of 2D Solid3He Adsorbed on Graphite Preplated with4He. Journal of Low Temperature Physics, 2004, 134, 61-66.	1.4	1
60	Characterization of ZYX graphite for studies of two-dimensional at ultra-low temperatures. Physica B: Condensed Matter, 2003, 329-333, 144-145.	2.7	3
61	Experimental apparatus for heat capacity measurements of 2D in magnetic fields. Physica B: Condensed Matter, 2003, 329-333, 146-147.	2.7	8
62	Anomalous Temperature Dependence of the Dephasing Time in Mesoscopic Kondo Wires. Physical Review Letters, 2003, 90, 056801.	7.8	48
63	PERSISTENT CURRENTS IN A NETWORK OF CONNECTED MESOSCOPIC RINGS. , 2003, , .		0
64	Quantum Frustration in the â€œSpin Liquidâ€•Phase of Two-DimensionalH3e. Physical Review Letters, 2001, 86, 2447-2450.	7.8	46
65	The origin of nuclear magnetism in solid 3He films: determination of multi-spin exchange frequencies. Physica B: Condensed Matter, 2000, 280, 95-99.	2.7	9
66	Superfluidity of 3He contained in aerogel. Physica B: Condensed Matter, 2000, 284-288, 311-312.	2.7	1
67	Microfabrication of silicon vibrating wires. Physica B: Condensed Matter, 2000, 284-288, 2141-2142.	2.7	10
68	The â€˜Grenobleâ€™ Cosmological Experiment. , 2000, , 105-120.		3
69	Some Structural Properties of Solid He Films: Consequences on 3He Film Ferromagnetism. Journal of Low Temperature Physics, 1998, 112, 451-478.	1.4	68
70	Studies of 2D Cryocrystals by STM Techniques. Journal of Low Temperature Physics, 1998, 113, 927-932.	1.4	6
71	Structure and Magnetism of Second-Layer Solid 3He Films in the Intermediate Regime. Journal of Low Temperature Physics, 1998, 113, 259-264.	1.4	1
72	Ultra-Low Temperature Magnetic Properties of Liquid 3He Films. Journal of Low Temperature Physics, 1998, 110, 333-338.	1.4	37

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73	STM Observations of Helium Atoms Adsorbed on Graphite Surfaces. Journal of Low Temperature Physics, 1998, 110, 641-646.	1.4	7
74	Title is missing!. Journal of Low Temperature Physics, 1998, 110, 345-350.	1.4	19
75	Superfluid 3He Simulation of Cosmic String Creation in the Early Universe. Journal of Low Temperature Physics, 1998, 110, 13-22.	1.4	10
76	Ultra-Low Temperature Susceptibility of a Highly Frustrated Two-Dimensional Solid 3He Magnet. Journal of Low Temperature Physics, 1998, 113, 287-292.	1.4	13
77	Nuclear Magnetic Properties of Solid 3He Films. Journal of Low Temperature Physics, 1998, 113, 249-258.	1.4	50
78	Temperature scale and heat capacity of superfluid3Heâ^'Bin the100Î¼Krange. Physical Review B, 1998, 57, 14381-14386.	3.2	60
79	Multiple-Spin Exchange on a Triangular Lattice: A Quantitative Interpretation of Thermodynamic Properties of Two-Dimensional SolidH3e. Physical Review Letters, 1998, 80, 1308-1311.	7.8	161
80	Do not try this at home. Nature, 1996, 383, 570-571.	27.8	5
81	Simulated cosmic strings in a â€œbig bangâ€•in superfluid3He at 100 Î¼K. European Physical Journal D, 1996, 46, 5-6.	0.4	4
82	Systematic study of3He adsorbed on graphite by NMR techniques. European Physical Journal D, 1996, 46, 399-400.	0.4	3
83	3He/graphite commensurate bilayer films in the antiferromagnetic regime. European Physical Journal D, 1996, 46, 401-402.	0.4	5
84	Magnetic field dependence of the nuclear magnetization of3He films adsorbed on graphite in the ferromagnetic regime. European Physical Journal D, 1996, 46, 403-404.	0.4	6
85	The new grenoble 100 Î¼K refrigerator. European Physical Journal D, 1996, 46, 2791-2792.	0.4	4
86	Laboratory simulation of cosmic string formation in the early Universe using superfluid 3He. Nature, 1996, 382, 332-334.	27.8	451
87	Two-dimensional Fermi liquid in the highly correlated regime: The second layer ofHe3adsorbed on graphite. Physical Review B, 1996, 53, 2658-2661.	3.2	96
88	Field dependence of the magnetization of adsorbed3He films at ultra low temperatures. Journal of Low Temperature Physics, 1995, 101, 457-462.	1.4	6
89	2D liquid3He near solidification: a highly correlated Fermi liquid. Journal of Low Temperature Physics, 1995, 101, 161-166.	1.4	5
90	A geometry dependent thermal resistance between a saturated dilute3He-4He solution and sintered silver powder. Journal of Low Temperature Physics, 1995, 101, 259-264.	1.4	2

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91	NMR of adsorbed3He: Surface physics at millikelvin temperatures. Applied Magnetic Resonance, 1995, 8, 401-414.	1.2	0
92	Condensation ofHe3in 21/2 dimensions and indirect exchange in adsorbed films. Physical Review B, 1994, 49, 12377-12380.	3.2	18
93	Electron Coherence in Mesoscopic Kondo Wires. Advances in Solid State Physics, 0, , 181-192.	0.8	3