

Sebastian Loth

List of Publications by Year in descending order

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42
papers

2,714
citations

279487

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264894

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42
all docs

42
docs citations

42
times ranked

2720
citing authors

#	ARTICLE	IF	CITATIONS
1	Variable Repetition Rate THz Source for Ultrafast Scanning Tunneling Microscopy. ACS Photonics, 2021, 8, 702-708.	3.2	27
2	Quantum stochastic resonance of individual Fe atoms. Science Advances, 2021, 7, .	4.7	8
3	Mixed 4f population of Tm adatoms on insulating Cu ₂ N islands. Physical Chemistry Chemical Physics, 2020, 22, 196-202.	1.3	3
4	Quantum dynamics of a single molecule magnet on superconducting Pb(111). Nature Materials, 2020, 19, 546-551.	13.3	62
5	Minimally invasive spin sensing with scanning tunneling microscopy. Nanoscale, 2020, 12, 11619-11626.	2.8	3
6	Vanadyl phthalocyanines on graphene/SiC(0001): toward a hybrid architecture for molecular spin qubits. Nanoscale Horizons, 2019, 4, 1202-1210.	4.1	32
7	All-electronic Nanosecond-resolved Scanning Tunneling Microscopy: Facilitating the Investigation of Single Dopant Charge Dynamics. Journal of Visualized Experiments, 2018, , .	0.2	2
8	Tunable Spin-Superconductor Coupling of Spin 1/2 Vanadyl Phthalocyanine Molecules. Nano Letters, 2018, 18, 7955-7961.	4.5	72
9	Nonlocally sensing the magnetic states of nanoscale antiferromagnets with an atomic spin sensor. Science Advances, 2017, 3, e1603137.	4.7	38
10	Building Complex Kondo Impurities by Manipulating Entangled Spin Chains. Nano Letters, 2017, 17, 6203-6209.	4.5	23
11	Dynamical Negative Differential Resistance in Antiferromagnetically Coupled Few-Atom Spin Chains. Physical Review Letters, 2017, 119, 217201.	2.9	17
12	Closing the superconducting gap in small Pb nanoislands with high magnetic fields. Physical Review B, 2016, 94, . Structural and magnetic properties of	1.1	10
13	on Physical Review B, 2016, 94, .	1.1	14
14	Time-resolved single dopant charge dynamics in silicon. Nature Communications, 2016, 7, 13258.	5.8	43
15	Comparing XMCD and DFT with STM spin excitation spectroscopy for Fe and Co adatoms on Physical Review B, 2015, 92, .	1.1	15
16	Magnetic fingerprint of individual Fe ₄ molecular magnets under compression by a scanning tunnelling microscope. Nature Communications, 2015, 6, 8216.	5.8	56
17	Three-Dimensional Mapping of Single-Atom Magnetic Anisotropy. Nano Letters, 2015, 15, 1938-1942.	4.5	22
18	Spin Polarization of the Split Kondo State. Physical Review Letters, 2015, 114, 076601.	2.9	44

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19	The emergence of classical behaviour in magnetic adatoms. <i>Europhysics Letters</i> , 2015, 109, 57001.	0.7	31
20	Control of quantum magnets by atomic exchange bias. <i>Nature Nanotechnology</i> , 2015, 10, 40-45.	15.6	108
21	Close-up on spin coherence. <i>Nature Nanotechnology</i> , 2014, 9, 574-575.	15.6	2
22	Magnetism in Single Metalloorganic Complexes Formed by Atom Manipulation. <i>Nano Letters</i> , 2014, 14, 1196-1201.	4.5	21
23	Measuring the Three-Dimensional Structure of Ultrathin Insulating Films at the Atomic Scale. <i>ACS Nano</i> , 2014, 8, 1739-1744.	7.3	35
24	Quantitative mapping of fast voltage pulses in tunnel junctions by plasmonic luminescence. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	25
25	Bistability in Atomic-Scale Antiferromagnets. <i>Science</i> , 2012, 335, 196-199.	6.0	566
26	A Logical Use for Atoms. <i>Science</i> , 2011, 332, 1039-1040.	6.0	12
27	Bistable Charge Configuration of Donor Systems near the GaAs(110) Surfaces. <i>Nano Letters</i> , 2011, 11, 3538-3542.	4.5	14
28	Jenseits des Gleichgewichts. <i>Physik in Unserer Zeit</i> , 2011, 42, 168-175.	0.0	1
29	Single Si dopants in GaAs studied by scanning tunneling microscopy and spectroscopy. <i>Physical Review B</i> , 2011, 84, .	1.1	24
30	Controlling the state of quantum spins with electric currents. <i>Nature Physics</i> , 2010, 6, 340-344.	6.5	277
31	Spin-polarized spin excitation spectroscopy. <i>New Journal of Physics</i> , 2010, 12, 125021.	1.2	80
32	Measurement of Fast Electron Spin Relaxation Times with Atomic Resolution. <i>Science</i> , 2010, 329, 1628-1630.	6.0	301
33	Spin Excitations of a Kondo-Screened Atom Coupled to a Second Magnetic Atom. <i>Physical Review Letters</i> , 2009, 103, 107203.	2.9	111
34	Enhanced Donor Binding Energy Close to a Semiconductor Surface. <i>Physical Review Letters</i> , 2009, 102, 166101.	2.9	57
35	Band structure related wave-function symmetry of amphoteric Si dopants in GaAs. <i>Solid State Communications</i> , 2008, 145, 551-555.	0.9	10
36	The role of magnetic anisotropy in the Kondo effect. <i>Nature Physics</i> , 2008, 4, 847-850.	6.5	309

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37	Controlled Charge Switching on a Single Donor with a Scanning Tunneling Microscope. Physical Review Letters, 2008, 101, 076103.	2.9	150
38	Asymmetry of acceptor wave functions caused by surface-related strain and electric field in InAs. Physical Review B, 2008, 77, .	1.1	12
39	Reconstruction of the local density of states in Ag(111) surfaces using scanning tunneling potentiometry. Physical Review B, 2007, 76, .	1.1	8
40	Connection of anisotropic conductivity to tip-induced space-charge layers in scanning tunneling spectroscopy of p -doped GaAs. Physical Review B, 2007, 76, .	1.1	23
41	Depth Resolved Scanning Tunneling Spectroscopy of Shallow Acceptors in Gallium Arsenide. Japanese Journal of Applied Physics, 2006, 45, 2193-2196.	0.8	11
42	Probing Semiconductor Gap States with Resonant Tunneling. Physical Review Letters, 2006, 96, 066403.	2.9	35