Marcus Liebmann

List of Publications by Year
in descending order

50 papers	2,184 citations	257357 24 h-index	214721 47 g-index
53 all docs	53 docs citations	53 times ranked	3455 citing authors

#	Article	IF	Citations
1	Strong and Weak 3D Topological Insulators Probed by Surface Science Methods. Physica Status Solidi (B): Basic Research, 2021, 258, 2000060.	0.7	2
2	Mnâ€Rich MnSb₂Te₄: A Topological Insulator with Magnetic Gap Closing at High Curie Temperatures of 45â€“50 K. Advanced Materials, 2021, 33, e2102935.	11.1	70
3	Evidence for Local Spots of Viscous Electron Flow in Graphene at Moderate Mobility. Nano Letters, 2021, 21, 9365-9373.	4.5	11
4	Exfoliated hexagonal BN as gate dielectric for InSb nanowire quantum dots with improved gate hysteresis and charge noise. Applied Physics Letters, 2020, 116, 253101.	1.5	4
5	Mapping the band structure of GeSbTe phase change alloys around the Fermi level. Communications Physics, 2018, 1, .	2.0	16
6	Mask aligner for ultrahigh vacuum with capacitive distance control. Applied Physics Letters, 2018, 112, 161602.	1.5	1
7	Tuning the Pseudospin Polarization of Graphene by a Pseudomagnetic Field. Nano Letters, 2017, 17, 2240-2245.	4.5	113
8	Graphene Quantum Dots Probed by Scanning Tunneling Microscopy. Annalen Der Physik, 2017, 529, 1700018.	0.9	10
9	Probing the Nodal Structure of Landau Level Wave Functions in Real Space. Physical Review Letters, 2017, 118, 016803.	2.9	4
10	Exploring the subsurface atomic structure of the epitaxially grown phase-change material <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="bold">Ge</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">Sb</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">Te</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2017, 96, .	1.1	10
11	An ultrahigh-vacuum cryostat for simultaneous scanning tunneling microscopy and magneto-transport measurements down to 400 mK. Review of Scientific Instruments, 2017, 88, 123707.	0.6	6
12	Giant Rashbaâ€Type Spin Splitting in Ferroelectric GeTe(111). Advanced Materials, 2016, 28, 560-565.	11.1	155
13	Probing variations of the Rashba spinâ€“orbit coupling at the nanometre scale. Nature Physics, 2016, 12, 920-925.	6.5	68
14	Graphene quantum dots: wave function mapping by scanning tunneling spectroscopy and transport spectroscopy of quantum dots prepared by local anodic oxidation. Physica Status Solidi - Rapid Research Letters, 2016, 10, 24-38.	1.2	7
15	Spin mapping of surface and bulk Rashba states in ferroelectric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math> -GeTe(111) films. Physical Review B, 2016, 94, .	1.1	46
16	Apparent rippling with honeycomb symmetry and tunable periodicity observed by scanning tunneling microscopy on suspended graphene. Physical Review B, 2016, 94, .	1.1	2
17	Electronic Structure of the Dark Surface of the Weak Topological Insulator Bi₁₄Rh₃I₉. ACS Nano, 2016, 10, 3995-4003.	7.3	22
18	Spatially resolved Landau level spectroscopy of the topological Dirac cone of bulk-type<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sb</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Potential fluctuations and quasiparticle lifetime. Physical Review B, 2015, 92, .	12	12

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19	Tuning the Dirac point to the Fermi level in the ternary topological insulator (Bi1â[’]xSbx)2Te3. Applied Physics Letters, 2015, 107, .	1.5	40
20	Subnanometre-wide electron channels protected by topology. Nature Physics, 2015, 11, 338-343.	6.5	114
21	Networks of ABA and ABC stacked graphene on mica observed by scanning tunneling microscopy. Surface Science, 2013, 610, 53-58.	0.8	66
22	Evidence for topological band inversion of the phase change material Ge2Sb2Te5. Applied Physics Letters, 2013, 103, .	1.5	28
23	Absence of Edge States in Covalently Bonded Zigzag Edges of Graphene on Ir(111). Advanced Materials, 2013, 25, 1967-1972.	11.1	42
24	Scanning tunneling microscopy with InAs nanowire tips. Applied Physics Letters, 2012, 101, .	1.5	5
25	Scanning tunneling microscopy of two-dimensional semiconductors: Spin properties and disorder. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 1795-1814.	1.3	25
26	Probing two topological surface bands of Sb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Te<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>by spin-polarized photoemission spectroscopy. Physical Review B, 2012, 86, .	1.1	78
27	Wave-Function Mapping of Graphene Quantum Dots with Soft Confinement. Physical Review Letters, 2012, 108, 046801.	2.9	110
28	Manipulating InAs nanowires with submicrometer precision. Review of Scientific Instruments, 2011, 82, 113705.	0.6	30
29	Probing Electron-Electron Interaction in Quantum Hall Systems with Scanning Tunneling Spectroscopy. Physical Review Letters, 2011, 106, 156805.	2.9	22
30	Real space visualization of thermal fluctuations in a triangular flux-line lattice. New Journal of Physics, 2010, 12, 033022.	1.2	10
31	Bistability and Oscillatory Motion of Natural Nanomembranes Appearing within Monolayer Graphene on Silicon Dioxide. Nano Letters, 2010, 10, 461-465.	4.5	101
32	Scanning tunneling spectroscopy of a dilute two-dimensional electron system exhibiting Rashba spin splitting. Physical Review B, 2010, 81, .	1.1	24
33	Electrical transport and low-temperature scanning tunneling microscopy of microsoldered graphene. Applied Physics Letters, 2010, 96, 082114.	1.5	43
34	Scanning tunneling microscopy and spectroscopy of the phase change alloy Ge1Sb2Te4. Applied Physics Letters, 2009, 95, .	1.5	15
35	Data acquisition and analysis procedures for high-resolution atomic force microscopy in three dimensions. Nanotechnology, 2009, 20, 264002.	1.3	28
36	Three-dimensional imaging of short-range chemical forces with picometre resolution. Nature Nanotechnology, 2009, 4, 307-310.	15.6	181

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37	Intrinsic and extrinsic corrugation of monolayer graphene deposited on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>SiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2009, 102, 076102.	2.9	336
38	Combined low-temperature scanning tunneling/atomic force microscope for atomic resolution imaging and site-specific force spectroscopy. Review of Scientific Instruments, 2008, 79, 033704.	0.6	64
39	Observation of the flux-antiflux boundary propagation during magnetization reversal in Bi2Sr2CaCu2O8+Î´ with single vortex resolution. Applied Physics Letters, 2006, 88, 012507.	1.5	5
40	Visualizing flux distribution of superconductors in external magnetic fields with magnetic force microscopy. Physical Review B, 2006, 73, .	1.1	4
41	Barkhausen noise visualized in real space (Invited Paper). , 2005, , .		1
42	Magnetization reversal of a structurally disordered manganite thin film with perpendicular anisotropy. Physical Review B, 2005, 71, .	1.1	30
43	Dynamic force spectroscopy across an individual strongly pinned vortex in a Bi2Sr2CaCu2O8+Î´ single crystal. Applied Physics Letters, 2004, 85, 5307-5309.	1.5	6
44	Visualization of the Barkhausen Effect by Magnetic Force Microscopy. Physical Review Letters, 2004, 92, 077206.	2.9	64
45	Direct observation of vortices trapped at stacking fault dislocations inBi2Sr2CaCu2O8by a low-temperature magnetic force microscope. Physical Review B, 2004, 69, .	1.1	14
46	Tilted magnetization of a La0.7Sr0.3MnO3/LaAlO3 (001) thin film. Journal of Magnetism and Magnetic Materials, 2004, 280, 51-59.	1.0	6
47	Title is missing!. Journal of Low Temperature Physics, 2003, 131, 993-1002.	0.6	13
48	Domain nucleation and growth of La0.7Ca0.3MnO3âˆ'Î´/LaAlO3 films studied by low temperature magnetic force microscopy. Journal of Applied Physics, 2003, 93, 8319-8321.	1.1	13
49	A low-temperature ultrahigh vacuum scanning force microscope with a split-coil magnet. Review of Scientific Instruments, 2002, 73, 3508-3514.	0.6	47
50	Design and performance of a versatile, cost-effective microwave electron cyclotron resonance plasma source for surface and thin film processing. Review of Scientific Instruments, 2000, 71, 1177-1180.	0.6	60