Michael Graf

List of Publications by Year
in descending order

82 papers	1,891 citations	279798 23 h-index	265206 42 g-index
87 all docs	87 docs citations	87 times ranked	2210 citing authors

#	Article	IF	Citations
1	High-Frequency ac Susceptibility of Iron-Based Superconductors. Materials, 2022, 15, 1079.	2.9	4
2	First demonstration of tuning between the Kitaev and Ising limits in a honeycomb lattice. Science Advances, 2022, 8, eabl5671.	10.3	6
3	Complex vortex-antivortex dynamics in the magnetic superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>EuFe</mml:mi></mml:mrow><mml:mn>2	3.2	3
4	Frustrated Heisenberg <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>J</mml:mi><mml:mn>1</mml:mn></mml:msub><mml:mo model within the stretched diamond lattice of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Li</mml:mi><mml:mi>Yb</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2021, 103, .	3.2	17
5	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="double-struck">Z</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> kagome metal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>KV</mml:mi><mml:mn>3</mml:mn></	2.4	280
6	Effect of structural disorder on the Kitaev magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ag</mml:mi><mml:mn>3</mml:mn></ mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2021, 103, .	3.2	25
7	Absence of local moments in the kagome metal KV₃Sb₅ as determined by muon spin spectroscopy. Journal of Physics Condensed Matter, 2021, 33, 235801.	1.8	100
8	Monopole-limited nucleation of magnetism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Eu</mml:mi><mml:mn>2</mml:mn> mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 101, .	3.2	7
9	Field-tunable quantum disordered ground state in the triangular-lattice antiferromagnet NaYbO2. Nature Physics, 2019, 15, 1058-1064.	16.7	138
10	Coexistence of static and dynamic magnetism in the Kitaev spin liquid material <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mn>2 Physical Review B, 2019, 100, .	3.2	36
11	Quasistatic antiferromagnetism in the quantum wells of SmTiO3/SrTiO3 heterostructures. Npj Quantum Materials, 2018, 3, .	5.2	8
12	Spin dynamics in the single-ion magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mo>[</mml:mo><mml:mrow><mml:mi>Er</mml:mi> Physical Review B, 2018, 97, .	3.2	6
13	Suppression of Î¼+ depolarization by fast magnetic fluctuations at avoided level crossings for Ho3+ ions in CaWO4. Physical Review B, 2018, 98, .	3.2	0
14	Evolution of magnetism in LnCuGa3 (Ln= Laâ€“Nd, Smâ€“Gd) studied via Î¼SR and specific heat. Journal of Magnetism and Magnetic Materials, 2017, 444, 236-242.	2.3	4
15	Spiral Modes and the Observation of Quantized Conductance in the Surface Bands of Bismuth Nanowires. Scientific Reports, 2017, 7, 15569.	3.3	4
16	Observation of a three-dimensional quasi-long-range electronic supermodulation in YBa2Cu3O7â˜x/La0.7Ca0.3MnO3 heterostructures. Nature Communications, 2016, 7, 10852.	12.8	12
17	Influence of hydrostatic pressure on the bulk magnetic properties ofEu2Ir2O7. Physical Review B, 2016, 93, .	3.2	14
18	Disordered dimer state in electron-dopedSr3Ir2O7. Physical Review B, 2016, 94, .	3.2	17

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19	Swinging Symmetry, Multiple Structural Phase Transitions, and Versatile Physical Properties in RECuGa₃ (RE = Laâ€“Nd, Smâ€“Gd). Inorganic Chemistry, 2016, 55, 666-675.	4.0	7
20	Short-Range Correlations in the Magnetic Ground State of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Na</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>8</mml:mn></mml:mrow></mml:msub></mml:mrow></mml: Physical Review Letters, 2014, 113, 247601.	7.8	31
21	Magnetism and magnetic order in the pyrochlore iridates in the insulator-to-metal crossover region. Journal of Physics: Conference Series, 2014, 551, 012020.	0.4	13
22	Superconductivity of Bi Confined in an Opal Host. Journal of Low Temperature Physics, 2013, 170, 205-215.	1.4	5
23	Magnetization and Hall effect studies on the pyrochlore iridate Nd<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>Ir<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>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	3.2	30
24	Surface state effects on the thermopower of 30- to 200-nm diameter bismuth nanowires. , 2012, , .		1
25	Thermoelectric prospects of nanomaterials with spin-orbit surface bands. Journal of Applied Physics, 2012, 111, 043709.	2.5	8
26	Magnetic penetration-depth measurements of a suppressed superfluid density of superconducting Ca<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub></mml:math>Na<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub></mml:math>Fe<mml:math xmlns:mml	3.2	17
27	Yb4LiGe4 â€“ A Yb mixed valent Zintl phase with strong electronic correlations. Journal of Alloys and Compounds, 2012, 516, 126-133.	5.5	17
28	Magnetic order in the pyrochlore iridatesA2Ir2O7(A= Y, Yb). Physical Review B, 2012, 86, .	3.2	89
29	Magnetic order and the electronic ground state in the pyrochlore iridate Nd2Ir2O7. Physical Review B, 2012, 85, .	3.2	51
30	Evolution of spin relaxation processes in LiY1â^'xHoxF4studied via ac-susceptibility and muon spin relaxation. Physical Review B, 2012, 86, .	3.2	7
31	Surface state band mobility and thermopower in semiconducting bismuth nanowires. Physical Review B, 2011, 83, .	3.2	34
32	Competing interactions and magnetic frustration in Yb4LiGe4. Physical Review B, 2011, 84, .	3.2	4
33	Î¼SR study of spin dynamics in LiY1â^'xHoxF4. Physical Review B, 2011, 83, .	3.2	4
34	Spin and charge dynamics in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mrow><mml:mo>[</mml:mo><mml:mrow><mml:msub><mml:mrow><mml:mrow><m xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mrow><mml:mo>[</mml:mo><mml:mrow><mml:msub. Physical Review B, 2010, 82, .	3.2	33
35	Observation of three-dimensional behavior in surface states of bismuth nanowires and the evidence for bulk-Bi surface quasiparticles. Physical Review B, 2009, 79, .	3.2	20
36	Bi nanowires: Magnetism and the semimetal-to-semiconductor transition. Journal of Physics: Conference Series, 2009, 150, 022030.	0.4	1

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37	Spin Dynamics in the Negatively Charged Terbium (III) Bis-phthalocyaninato Complex. Journal of the American Chemical Society, 2009, 131, 4387-4396.	13.7	158
38	Onset of magnetic correlations in LiY1-xHoxF4with 0.002 â‰¤xâ‰¤ 0.05 studied via Î¼SR. Journal of Physics: Conference Series, 2009, 150, 042044.	0.4	3
39	19F nuclear spin relaxation and spin diffusion effects in the single-ion magnet LiYF4:Ho3+. European Physical Journal B, 2008, 66, 155-163.	1.5	5
40	Quantum interference of surface states in bismuth nanowires probed by the Aharonov-Bohm oscillatory behavior of the magnetoresistance. Physical Review B, 2008, 77, .	3.2	38
41	Role of boundary roughness in the electronic transport of Bi nanowires. Journal of Applied Physics, 2008, 104, 123704.	2.5	7
42	Muon Spin Rotation Studies of Spin Dynamics at Avoided Level Crossings inLiY0.998Ho0.002F4. Physical Review Letters, 2007, 99, 267203.	7.8	8
43	Thermopower Measurements of Arrays of Small Diameter (18-60 nm) Bi Nanowires. Materials Research Society Symposia Proceedings, 2007, 1044, 1.	0.1	0
44	Quantum confinement and surface-state effects in bismuth nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 37, 194-199.	2.7	17
45	Thermoelectric properties of small diameter Bi nanowires: Evidence for surface charges. , 2006, , .		0
46	Probing spin dynamics and quantum relaxation inLiY0.998Ho0.002F4viaF19NMR. Physical Review B, 2006, 73, .	3.2	15
47	Weak-magnetism phenomena in heavy-fermion superconductors: selected ÂSR studies. Journal of Physics Condensed Matter, 2004, 16, S4403-S4420.	1.8	42
48	Magnetic Anisotropy and de Haasâ€“van Alphen Oscillations in a Bi Microwire Array Studied via Cantilever Magnetometry at Low Temperatures. Journal of Low Temperature Physics, 2004, 134, 1055-1068.	1.4	1
49	Confinement effects and surface-induced charge carriers in Bi quantum wires. Applied Physics Letters, 2004, 84, 1326-1328.	3.3	62
50	SdH oscillations in the contact resistance of bismuth nanowires. Materials Science and Engineering C, 2003, 23, 1099-1101.	7.3	2
51	Longitudinal magnetoresistance of -diameter Bismuth nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 18, 223-224.	2.7	3
52	Electronic transport in a 3-D network of 1-D Bi and Te-doped Bi quantum wires. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 18, 260-261.	2.7	2
53	Magnetoquantum oscillations and confinement effects in arrays of 270-nm-diameter bismuth nanowires. Physical Review B, 2003, 67, .	3.2	56
54	Onset of antiferromagnetism inUPt3via Th substitution studied by muon spin spectroscopy. Physical Review B, 2003, 68, .	3.2	6

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55	Evidence for the existence of a magnetic quantum critical point in U(Pt1â^'xPdx)3. Physica B: Condensed Matter, 2002, 319, 246-250.	2.7	3
56	Processing and Characterization of High-conductance Bismuth Wire Array Composites. Journal of Materials Research, 2000, 15, 1816-1821.	2.6	45
57	Magnetic Quantum Critical Point and Superconductivity inUPt3Doped with Pd. Physical Review Letters, 2000, 85, 3005-3008.	7.8	23
58	Electronic transport in a three-dimensional network of one-dimensional bismuth quantum wires. Physical Review B, 1999, 60, 16880-16884.	3.2	31
59	Suppression of superconductivity in single crystals ofUPt3by Pd substitution. Physical Review B, 1999, 60, 3056-3059.	3.2	10
60	Superconductivity in heavy-fermionU(Pt,Pd)3and its interplay with magnetism. Physical Review B, 1999, 60, 10527-10538.	3.2	11
61	Physical dependence of the sensitivity and room-temperature stability of AuxGe1â^'x thin film resistive thermometers on annealing conditions. Review of Scientific Instruments, 1998, 69, 133-138.	1.3	8
62	Thermoelectric Bismuth Wire Array Composites. Materials Research Society Symposia Proceedings, 1998, 545, 227.	0.1	3
63	Doping dependence of the critical field Hc2 and the transition temperature in Zn doped YBa2(Cu1â^'xZnx)3O7â^'Î´. Journal of Low Temperature Physics, 1997, 107, 491-496.	1.4	21
64	Frequency-dependent thermal response of indium nanoparticles in porous glass. European Physical Journal D, 1996, 46, 2367-2368.	0.4	0
65	The resistive transition in high magnetic fields in YBa2(Cu1-xZnx)3O7-Î´. Physica B: Condensed Matter, 1994, 194-196, 1871-1872.	2.7	0
66	Superconducting properties of indium in the restricted geometry of porous Vycor glass. Physical Review B, 1992, 45, 3133-3136.	3.2	42
67	Experimental search for current-driven plasma instabilities in superconducting layers. Solid State Communications, 1992, 84, 785-788.	1.9	4
68	Magneto-quantum oscillations of the specific heat in the Bechgaard salt (TMTSF)2ClO4. Synthetic Metals, 1991, 42, 1667-1670.	3.9	0
69	Spin-flip scattering near the metal-to-insulator transition inCd0.95Mn0.05Se:In. Physical Review B, 1991, 43, 3154-3163.	3.2	27
70	Thermal Response and Decoupling of Excitations at Low Temperatures. NATO ASI Series Series B: Physics, 1991, , 483-494.	0.2	0
71	Indium-Impregnated Porous Glass: Magnetotransport and Superconducting Transition. Materials Research Society Symposia Proceedings, 1990, 195, 397.	0.1	1
72	Specific-heat study of the anomalous quantum limit of (TMTSF)2ClO4. Physical Review Letters, 1990, 64, 2054-2057.	7.8	44

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73	Specific heat of pure and thoriatedUBe13at low temperatures in high magnetic fields. Physical Review B, 1989, 40, 9358-9361.	3.2	10
74	Carrier screening effects in semimetallic InAs single-quantum wells. Physical Review B, 1989, 40, 5852-5855.	3.2	4
75	Bound magnetic polarons belowT=1 K. Physical Review B, 1988, 37, 7108-7111.	3.2	21
76	Calorimetric evidence for high magnetic field transitions in (TMTSF)2ClO4. Synthetic Metals, 1988, 27, 29-33.	3.9	5
77	Percolating cermet thinâ€film thermistors between 50 mKâ€“300 K and 0â€“20 T. Journal of Applied Physics, 1988, 64, 4760-4762.	2.5	15
78	Optical transmission spectroscopy of the two-dimensional electron gas in GaAs in the quantum hall regime. Physical Review B, 1988, 38, 10131-10134.	3.2	32
79	High-velocity growth of solidHe4. Physical Review B, 1987, 35, 3142-3148.	3.2	11
80	Versatile Low Temperature and High Magnetic Field Thermometers: The Low Temperature Magneto Resistance of Thin Film Cermets. Japanese Journal of Applied Physics, 1987, 26, 1741.	1.5	2
81	Phonon transmission across the interface between solid helium and a3He-4He dilute solution. Journal of Low Temperature Physics, 1985, 58, 209-232.	1.4	7
82	Effect of Interface Mobility on Heat Transfer from SolidHe4toHe3Quasiparticles inHe3-He4Mixtures. Physical Review Letters, 1984, 53, 1176-1178.	7.8	10