

Michael Graf

List of Publications by Year in descending order

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82
papers

1,891
citations

279798
23
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265206
42
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87
all docs

87
docs citations

87
times ranked

2210
citing authors

#	ARTICLE	IF	CITATIONS
1	Conductivity in the $\kappa_{\text{ag}} \propto \text{exp}(\text{const.}/T^{\alpha})$ regime. $\text{xmlns:mml} = \text{http://www.w3.org/1998/Math/MathML}$ $\langle \text{mml:msub} \rangle \langle \text{mml:mi} \text{ mathvariant="double-struck"} \rangle Z \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle / \text{mml:mn} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:math} \rangle$ kagome metal $\text{xmlns:mml} = \text{http://www.w3.org/1998/Math/MathML}$ $\langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle KV \langle / \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle / \text{mml:mn} \rangle \langle / \text{mml:mrow} \rangle$ Physical Review Materials, 2021, 5, .	2.4	280
2	Spin Dynamics in the Negatively Charged Terbium (III) Bis-phthalocyaninato Complex. Journal of the American Chemical Society, 2009, 131, 4387-4396.	13.7	158
3	Field-tunable quantum disordered ground state in the triangular-lattice antiferromagnet NaYbO ₂ . Nature Physics, 2019, 15, 1058-1064.	16.7	138
4	Absence of local moments in the kagome metal KV ₃ Sb ₅ as determined by muon spin spectroscopy. Journal of Physics Condensed Matter, 2021, 33, 235801.	1.8	100
5	Magnetic order in the pyrochlore iridates A ₂ Ir ₂ O ₇ (A= Y, Yb). Physical Review B, 2012, 86, .	3.2	89
6	Confinement effects and surface-induced charge carriers in Bi quantum wires. Applied Physics Letters, 2004, 84, 1326-1328.	3.3	62
7	Magnetoquantum oscillations and confinement effects in arrays of 270-nm-diameter bismuth nanowires. Physical Review B, 2003, 67, .	3.2	56
8	Magnetic order and the electronic ground state in the pyrochlore iridate Nd ₂ Ir ₂ O ₇ . Physical Review B, 2012, 85, .	3.2	51
9	Short-Range Correlations in the Magnetic Ground State of $\text{Na}_x\text{O}_{y+4}$. $\text{xmlns:mml} = \text{http://www.w3.org/1998/Math/MathML}$ display="block" $\langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Na} \langle / \text{mml:mi} \rangle \langle / \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{O} \langle / \text{mml:mi} \rangle \langle / \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle 8 \langle / \text{mml:mi} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:math} \rangle$ Physical Review Letters, 2014, 113, 247601.	3.2	51
10	Processing and Characterization of High-conductance Bismuth Wire Array Composites. Journal of Materials Research, 2000, 15, 1816-1821.	2.6	45
11	Specific-heat study of the anomalous quantum limit of (TMTSF) ₂ ClO ₄ . Physical Review Letters, 1990, 64, 2054-2057.	7.8	44
12	Superconducting properties of indium in the restricted geometry of porous Vycor glass. Physical Review B, 1992, 45, 3133-3136.	3.2	42
13	Weak-magnetism phenomena in heavy-fermion superconductors: selected ÅSR studies. Journal of Physics Condensed Matter, 2004, 16, S4403-S4420.	1.8	42
14	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
15	Coexistence of static and dynamic magnetism in the Kitaev spin liquid material Cu ₃ Ni ₂ O ₄ . $\text{xmlns:mml} = \text{http://www.w3.org/1998/Math/MathML}$ display="block" $\langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Cu} \langle / \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle / \text{mml:mn} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:mrow} \rangle$ Physical Review B, 2019, 100, .	3.2	36
16	Surface state band mobility and thermopower in semiconducting bismuth nanowires. Physical Review B, 2011, 83, .	3.2	34
17	Spin and charge dynamics in $\text{Cu}_3\text{Ni}_2\text{O}_4$. $\text{xmlns:mml} = \text{http://www.w3.org/1998/Math/MathML}$ display="block" $\langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle [\langle / \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle / \text{mml:msup} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:math} \rangle$ $\text{xmlns:mml} = \text{http://www.w3.org/1998/Math/MathML}$ display="block" $\langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle [\langle / \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle / \text{mml:msup} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:math} \rangle$ Physical Review B, 2010, 82, .	3.2	33
18	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

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19	Electronic transport in a three-dimensional network of one-dimensional bismuth quantum wires. Physical Review B, 1999, 60, 16880-16884.	3.2	31
20	Magnetization and Hall effect studies on the pyrochlore iridate Nd _{2-x} Ir _x O ₆ . xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:math>$\text{Nd}_{2-x}\text{Ir}_x\text{O}_6$</mml:math>	3.2	30
21	Spin-flip scattering near the metal-to-insulator transition in Cd _{0.95} Mn _{0.05} Se:In. Physical Review B, 1991, 43, 3154-3163.	3.2	27
22	Effect of structural disorder on the Kitaev magnet <mml:math>\text{Ag}_{3-x}\text{O}_{6+x}</mml:math>. xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block">$\text{Ag}_{3-x}\text{O}_{6+x}$	3.2	25
23	Magnetic Quantum Critical Point and Superconductivity in UPt ₃ Doped with Pd. Physical Review Letters, 2000, 85, 3005-3008.	7.8	23
24	Bound magnetic polarons below T=1 K. Physical Review B, 1988, 37, 7108-7111.	3.2	21
25	Doping dependence of the critical field H _{c2} and the transition temperature in Zn doped YBa ₂ (Cu _{1-x} Zn _x) ₃ O _{7-y} . Journal of Low Temperature Physics, 1997, 107, 491-496.	1.4	21
26	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
27	Quantum confinement and surface-state effects in bismuth nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 37, 194-199.	2.7	17
28	Magnetic penetration-depth measurements of a suppressed superfluid density of superconducting Ca _{0.5} Na _{0.5} Fe ₂ Yb ₄ Li ₄ Ge ₄ . A Yb mixed valent Zintl phase with strong electronic correlations. Journal of Alloys and Compounds, 2012, 516, 126-133.	3.2	17
29	Yb ₄ Li ₄ Ge ₄ A Yb mixed valent Zintl phase with strong electronic correlations. Journal of Alloys and Compounds, 2012, 516, 126-133.	5.5	17
30	Disordered dimer state in electron-doped Sr ₃ Ir ₂ O ₇ . Physical Review B, 2016, 94, .	3.2	17
31	Frustrated Heisenberg model within the stretched diamond lattice of Li ₂ Yb ₃ O ₇ . Physical Review B, 2021, 103, .	3.2	17
32	Percolating cermet thin-film thermistors between 50 mK and 20 T. Journal of Applied Physics, 1988, 64, 4760-4762.	2.5	15
33	Probing spin dynamics and quantum relaxation in Li _{0.998} Ho _{0.002} F ₄ via ¹⁹ NMR. Physical Review B, 2006, 73, .	3.2	15
34	Influence of hydrostatic pressure on the bulk magnetic properties of Eu ₂ Ir ₂ O ₇ . Physical Review B, 2016, 93, .	3.2	14
35	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
36	Observation of a three-dimensional quasi-long-range electronic supermodulation in YBa ₂ Cu ₃ O _{7-y} /La _{0.7} Ca _{0.3} MnO ₃ heterostructures. Nature Communications, 2016, 7, 10852.	12.8	12

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37	High-velocity growth of solidHe4. Physical Review B, 1987, 35, 3142-3148.	3.2	11
38	Superconductivity in heavy-fermionU(Pt,Pd)3and its interplay with magnetism. Physical Review B, 1999, 60, 10527-10538.	3.2	11
39	Effect of Interface Mobility on Heat Transfer from SolidHe4toHe3Quasiparticles inHe3-He4Mixtures. Physical Review Letters, 1984, 53, 1176-1178.	7.8	10
40	Specific heat of pure and thoriatedUBe13at low temperatures in high magnetic fields. Physical Review B, 1989, 40, 9358-9361.	3.2	10
41	Suppression of superconductivity in single crystals ofUPt3by Pd substitution. Physical Review B, 1999, 60, 3056-3059.	3.2	10
42	Physical dependence of the sensitivity and room-temperature stability of Au_xGe_{1-x} thin film resistive thermometers on annealing conditions. Review of Scientific Instruments, 1998, 69, 133-138.	1.3	8
43	Muon Spin Rotation Studies of Spin Dynamics at Avoided Level Crossings inLiY0.998Ho0.002F4. Physical Review Letters, 2007, 99, 267203.	7.8	8
44	Thermoelectric prospects of nanomaterials with spin-orbit surface bands. Journal of Applied Physics, 2012, 111, 043709.	2.5	8
45	Quasistatic antiferromagnetism in the quantum wells of SmTiO3/SrTiO3 heterostructures. Npj Quantum Materials, 2018, 3, .	5.2	8
46	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
47	Role of boundary roughness in the electronic transport of Bi nanowires. Journal of Applied Physics, 2008, 104, 123704.	2.5	7
48	Evolution of spin relaxation processes in LiY1-xHoxF4studied via ac-susceptibility and muon spin relaxation. Physical Review B, 2012, 86, .	3.2	7
49	Swinging Symmetry, Multiple Structural Phase Transitions, and Versatile Physical Properties in $\langle i>RE</i>CuGa₃$ ($i = La, Nd, Sm, Gd$). Inorganic Chemistry, 2016, 55, 666-675.	4.0	7
50	Monopole-limited nucleation of magnetism in $\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML">\langle mml:mrow>\langle mml:msub>\langle mml:mi>Eu</mml:mi>\langle mml:mn>2</mml:mn>\langle mml:mathvariant="normal">O</mml:mi>\langle mml:mn>7</mml:mn>\langle mml:msub>\langle mml:mrow></mml:mo>\langle mml:mrow>\langle mml:mi>Er</mml:mi>\langle mml:math>$. Physical Review B, 2020, 101, .	3.2	7
51	Onset of antiferromagnetism inUPt3via Th substitution studied by muon spin spectroscopy. Physical Review B, 2003, 68, .	3.2	6
52	Spin dynamics in the single-ion magnet $\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML">\langle mml:msup>\langle mml:mrow>\langle mml:mo>[</mml:mo>\langle mml:mrow>\langle mml:mi>Er</mml:mi>\langle mml:math>$. Physical Review B, 2018, 97, .	3.2	6
53	First demonstration of tuning between the Kitaev and Ising limits in a honeycomb lattice. Science Advances, 2022, 8, eabl5671.	10.3	6
54	Calorimetric evidence for high magnetic field transitions in (TMTSF)2ClO4. Synthetic Metals, 1988, 27, 29-33.	3.9	5

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55	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
56	Superconductivity of Bi Confined in an Opal Host. Journal of Low Temperature Physics, 2013, 170, 205-215.	1.4	5
57	Carrier screening effects in semimetallic InAs single-quantum wells. Physical Review B, 1989, 40, 5852-5855.	3.2	4
58	Experimental search for current-driven plasma instabilities in superconducting layers. Solid State Communications, 1992, 84, 785-788.	1.9	4
59	Competing interactions and magnetic frustration in Yb4LiGe4. Physical Review B, 2011, 84, .	3.2	4
60	$\frac{1}{4}$ SR study of spin dynamics in LiY _{1-x} H _x F ₄ . Physical Review B, 2011, 83, .	3.2	4
61	Evolution of magnetism in LnCuGa ₃ (Ln= La, Nd, Sm, Gd) studied via $\frac{1}{4}$ SR and specific heat. Journal of Magnetism and Magnetic Materials, 2017, 444, 236-242.	2.3	4
62	Spiral Modes and the Observation of Quantized Conductance in the Surface Bands of Bismuth Nanowires. Scientific Reports, 2017, 7, 15569.	3.3	4
63	High-Frequency ac Susceptibility of Iron-Based Superconductors. Materials, 2022, 15, 1079.	2.9	4
64	Thermoelectric Bismuth Wire Array Composites. Materials Research Society Symposia Proceedings, 1998, 545, 227.	0.1	3
65	Evidence for the existence of a magnetic quantum critical point in U(Pt _{1-x} Pd _x) ₃ . Physica B: Condensed Matter, 2002, 319, 246-250.	2.7	3
66	Longitudinal magnetoresistance of -diameter Bismuth nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 18, 223-224.	2.7	3
67	Onset of magnetic correlations in LiY _{1-x} H _x F ₄ with 0.002 \leq x \leq 0.05 studied via $\frac{1}{4}$ SR. Journal of Physics: Conference Series, 2009, 150, 042044.	0.4	3
68	Complex vortex-antivortex dynamics in the magnetic superconductor EuFe_3 . Physical Review B, 2022, 105, .	3.2	1
69	SdH oscillations in the contact resistance of bismuth nanowires. Materials Science and Engineering C, 2003, 23, 1099-1101.	7.3	2
70	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
71	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
72	Indium-Impregnated Porous Glass: Magnetotransport and Superconducting Transition. Materials Research Society Symposia Proceedings, 1990, 195, 397.	0.1	1

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73	Magnetic Anisotropy and de Haas-van Alphen Oscillations in a Bi Microwire Array Studied via Cantilever Magnetometry at Low Temperatures. <i>Journal of Low Temperature Physics</i> , 2004, 134, 1055-1068.	1.4	1
74	Bi nanowires: Magnetism and the semimetal-to-semiconductor transition. <i>Journal of Physics: Conference Series</i> , 2009, 150, 022030.	0.4	1
75	Surface state effects on the thermopower of 30- to 200-nm diameter bismuth nanowires. , 2012, , .		1
76	Magneto-quantum oscillations of the specific heat in the Bechgaard salt (TMTSF)2ClO4. <i>Synthetic Metals</i> , 1991, 42, 1667-1670.	3.9	0
77	The resistive transition in high magnetic fields in YBa2(Cu1-xZnx)3O7. <i>Physica B: Condensed Matter</i> , 1994, 194-196, 1871-1872.	2.7	0
78	Frequency-dependent thermal response of indium nanoparticles in porous glass. <i>European Physical Journal D</i> , 1996, 46, 2367-2368.	0.4	0
79	Thermoelectric properties of small diameter Bi nanowires: Evidence for surface charges. , 2006, , .		0
80	Thermopower Measurements of Arrays of Small Diameter (18-60 nm) Bi Nanowires. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1044, 1.	0.1	0
81	Suppression of $\frac{1}{4}+$ depolarization by fast magnetic fluctuations at avoided level crossings for Ho $^{3+}$ ions in CaWO4. <i>Physical Review B</i> , 2018, 98, .	3.2	0
82	Thermal Response and Decoupling of Excitations at Low Temperatures. <i>NATO ASI Series Series B: Physics</i> , 1991, , 483-494.	0.2	0