

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

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87
all docs

87
docs citations

87
times ranked

2210
citing authors

#	ARTICLE	IF	CITATIONS
1	Superconductivity in the kagome metal Zr_2 as determined by muon spin spectroscopy. Journal of Physics Condensed Matter, 2021, 33, 235801. 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_3Sb_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 $A_2Ir_2O_7$ (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 $Nd_2Ir_2O_7$. Physical Review B, 2012, 85, .	3.2	51
9	Short-Range Correlations in the Magnetic Ground State of Na_4O_8 . Physical Review Letters, 2014, 113, 247601.	3.2	41
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 $(TMTSF)_2ClO_4$. 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 $\hat{A}SR$ 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_2Zn . 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 Cu_2Zn . 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 $\text{Nd}_2\text{Ir}_2\text{O}_7$. Physical Review B, 2016, 93, 040407.	3.2	30
21	Spin-flip scattering near the metal-to-insulator transition in $\text{Cd}_{0.95}\text{Mn}_{0.05}\text{Se}$. Physical Review B, 1991, 43, 3154-3163.	3.2	27
22	Effect of structural disorder on the Kitaev magnet Ag_3VO_6 . Physical Review B, 2021, 103, .	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 $\text{YBa}_2(\text{Cu}_{1-x}\text{Zn}_x)_3\text{O}_{7-\delta}$. 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 $\text{Ca}_{0.5}\text{NaFe}_2\text{As}_2$. Physical Review B, 2016, 93, 040504.	3.2	17
29	Yb_4LiGe_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 $\text{Sr}_3\text{Ir}_2\text{O}_7$. Physical Review B, 2016, 94, .	3.2	17
31	Frustrated Heisenberg model within the stretched diamond lattice of LiYb_2O_7 . Physical Review B, 2021, 103, .	3.2	17
32	Percolating cermet thin film thermistors between 50 mK and 300 K and 0-20 T. Journal of Applied Physics, 1988, 64, 4760-4762.	2.5	15
33	Probing spin dynamics and quantum relaxation in $\text{LiY}_0.998\text{Ho}_{0.002}\text{F}_4$ via ^1H NMR. Physical Review B, 2006, 73, .	3.2	15
34	Influence of hydrostatic pressure on the bulk magnetic properties of $\text{Eu}_2\text{Ir}_2\text{O}_7$. 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 $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}/\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ 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 AuxGe1â”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 LiY1â”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 RE_3CuGa ($\text{RE} = \text{La, Nd, Sm, Gd}$). Inorganic Chemistry, 2016, 55, 666-675.	4.0	7
50	Monopole-limited nucleation of magnetism in EuO . 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 Er_2O_3 . 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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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) ₂ ClO ₄ . <i>Synthetic Metals</i> , 1991, 42, 1667-1670.	3.9	0
77	The resistive transition in high magnetic fields in YBa ₂ (Cu _{1-x} Zn _x) ₃ O _{7-δ} . <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 $\hat{1}/4+$ depolarization by fast magnetic fluctuations at avoided level crossings for Ho ³⁺ ions in CaWO ₄ . <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