William Meier

List of Publications by Year
in descending order

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49 papers	1,178 citations	394390 19 h-index	395678 33 g-index
49 all docs	49 docs citations	49 times ranked	1041 citing authors

#	Article	IF	Citations
1	Anisotropic thermodynamic and transport properties of single-crystalline<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CaKFe</mml:mi><mml:mn>4</mml:mn><mml:m Physical Review B, 2016, 94, .	3.2	116
2	Hedgehog spin-vortex crystal stabilized in a hole-doped iron-based superconductor. Npj Quantum Materials, 2018, 3, .	5.2	85
3	Enhancement of the Superconducting Gap by Nesting in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>CaKFe</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn> A New High Temperature Superconductor. Physical Review Letters, 2016, 117, 277001.	7.8	71
4	Optimization of the crystal growth of the superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CaKFe</mml:mi><mml:mn>4</mml:mn></m from solution in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>FeAs</mml:mi><mml:mtext>â”‚</mml:mtext><mml:msub Physical Review Materials, 2017, 1, .	2.4	63
5	Physical properties and the vortex phase diagram of the stoichiometric high- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:ma superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CaKFe</mml:mi><mml:mn>4</mml:mn><mml:m Physical Review Materials, 2018, 2, .	2.4	57
6	Flat bands in the CoSn-type compounds. Physical Review B, 2020, 102, .	3.2	52
7	Nodeless multiband superconductivity in stoichiometric single-crystalline <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CaKFe</mml:mi><mml:mn>4</mml:mn><mml:m Physical Review B, 2017, 95, .	3.2	49
8	Electronic, magnetic, and thermodynamic properties of the kagome layer compound FeSn. Physical Review Materials, 2019, 3, .	2.4	49
9	Geometry of the charge density wave in the kagome metal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>A</mml:mi><mml:msub><mml:mrow><mml:mi mathvariant="normal">V</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mi>Sb</mml:mi> Physical Review B, 2021, 104, .	3.2	47
10	Influence of multiband sign-changing superconductivity on vortex cores and vortex pinning in stoichiometric high- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub><mml:mo Physical Review B, 2018, 97, .	3.2	45
11	Physical properties and superconducting properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CaKFe</mml:mi><mml:mn>4</mml:mn></mml:m studied by <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>As</mml:mi><mml:mprescripts /><mml:none /><mml:mn>75</mml:mn></mml:mmultiscripts></mml:math> NMR. Physical Review B, 2017, 96, .	3.2	40
12	Pressure-induced half-collapsed-tetragonal phase in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CaKFe</mml:mi><mml:mn>4</mml:mn><mml:m Physical Review B, 2017, 96, .	3.2	36
13	Antiferromagnetic order in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mi>CaK</mml:mi></mml:mrow><mml:mrow><mml:mi><mml:mo>(</mml:mo> and its interplay with su. Physical Review B, 2018, 97, .	3.2	29
14	Measuring the Lower Critical Field of Superconductors Using Nitrogen-Vacancy Centers in Diamond Optical Magnetometry. Physical Review Applied, 2019, 11, .	3.8	27
15	Spatially-resolved study of the Meissner effect in superconductors using NV-centers-in-diamond optical magnetometry. New Journal of Physics, 2018, 20, 043010.	2.9	26
16	X-Ray diffraction on large single crystals using a powder diffractometer. Philosophical Magazine, 2016, 96, 2115-2124.	1.6	25
17	Synthesis, magnetization, and heat capacity of triangular lattice materials <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>NaErSe</mml:mi><mml:mn>2</mml:mn></mml:msub> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>KErSe</mml:mi><mml:mn>2</mml:mn></mml:msub> Physical Review Materials, 2019, 3, .	2.4	25
18	Analysis of the London penetration depth in Ni-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CaKFe</mml:mi><mml:mn>4</mml:mn><mml:m Physical Review B, 2019, 100, .	3.2	23

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19	Competing pairing interactions responsible for the large upper critical field in a stoichiometric iron-based superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CaKFe</mml:mi><mml:mn>4</mml:mn><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 101, .	3.2	22
20	Hedgehog Spin-Vortex Crystal Antiferromagnetic Quantum Criticality in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>CaK</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:msub><mml:mi>Fe</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â</mml:mo></mml:msub><mml:mo>	7.8	17
21	Coexistence of superconductivity and antiferromagnetism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>CaK</mml:mi><mml:mo>(</mml:mo><mml:mi>Fe</mml:mi><mml:msub><mml:mi></mml:mi><mml:mn></mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2018, 98, .	3.2	17
22	High- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:ma superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CaKFe</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> in absence of nematic fluctuations. Physical Review B, 2018, 98, .	3.2	17
23	Tuning the flat bands of the kagome metal CoSn with Fe, In, or Ni doping. Physical Review Materials, 2021, 5, .	2.4	17
24	NMR study of the new magnetic superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>CaK</mml:mi><mml:msub><mml:mi></mml:mi><mml:mn></mml:mn></mml:msub></mml:mrow><mml:mo>(</mml:mo> : Microscopic coexistence of the hed. Physical Review B, 2017, 96, .	3.2	16
25	Robust <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>s</mml:mi><mml:mo>Â±</mml:mo></mml:msub></mml: pairing in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>CaK</mml:mi><mml:msub><mml:mrow><mml:mo>(</mml:mo> Physical Review B, 2018, 97, .	3.2	16
26	Highly Textured BaTiO₃ via Templated Grain Growth and Resulting Polarization Reversal Dynamics. Journal of the American Ceramic Society, 2016, 99, 922-929.	3.8	15
27	In-plane magnetic penetration depth of superconducting <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CaKFe</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2018, 97, .	3.2	15
28	Damped Dirac magnon in the metallic kagome antiferromagnet FeSn. Physical Review B, 2022, 105, .	3.2	15
29	Indication of subdominant d -wave interaction in superconducting CaKFe4As4. Physical Review B, 2018, 98, .	3.2	14
30	Effect of Ni doping on vortex pinning in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>CaK</mml:mi><mml:msub><mml:mrow><mml:mo>(</mml:mo>	3.2	14
31	Anisotropy induced vortex lattice rearrangement in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CaKFe</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2019, 99, .	3.2	14
32	Reorientation of antiferromagnetism in cobalt doped FeSn. Physical Review B, 2019, 100, .	3.2	14
33	⁵⁷Fe MÃ¶ssbauer study of stoichiometric iron-based superconductor CaKFe₄As₄: a comparison to KFe₂As₂and CaFe₂As₂. Philosophical Magazine, 2017, 97, 2689-2703.	1.6	13
34	Pressure-temperature phase diagrams of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mtext>CaK</mml:mtext><mml:mo>(</mml:mo><mml:mrow><mml:msub> superconductors. Physical Review B, 2018, 97, .	3.2	12
35	Preparation and Processing Temperature Effects on Ion Conductivity in Solution Derived Sodium Zirconium Phosphate (NaZr₂P₃O₁₂) Thin Films. Journal of the Electrochemical Society, 2014, 161, A364-A367.	2.9	9
36	A Catastrophic Charge Density Wave in BaFe₂Al₉. Chemistry of Materials, 2021, 33, 2855-2863.	6.7	9

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37	Physical properties of single crystalline<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>R</mml:mi><mml:msub><mml:mi mathvariant="bold">Mg</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">Cu</mml:mi><mml:mn>9</mml:mn></mml:msub></mml:mrow></mml:math><mml:math		