

Benjamin A Frandsen

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,119
citations

394286

19
h-index

434063

31
g-index

60
all docs

60
docs citations

60
times ranked

1629
citing authors

#	ARTICLE	IF	CITATIONS
1	Signatures of the topological $s + \hat{a}^z$ superconducting order parameter in the type-II Weyl semimetal Td-MoTe ₂ . Nature Communications, 2017, 8, 1082.	5.8	101

2	Diluted ferromagnetic semiconductor Li(Zn,Mn)P with decoupled charge and spin doping. Physical Review B, 2013, 88, .	1.1	71
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#	ARTICLE	IF	CITATIONS
19	Quantitative characterization of short-range orthorhombic fluctuations in FeSe through pair distribution function analysis. Physical Review B, 2019, 100, .	1.1	21
20	Large negative magnetoresistance in the antiferromagnetic rare-earth dichalcogenide EuTe . Physical Review Materials, 2020, 4, .	0.9	2
21	Antiferromagnetism and hidden order in isoelectronic doping of URu . Physical Review B, 2016, 93, .	2.9	19
22	Gradual enhancement of stripe-type antiferromagnetism in the spin-ladder material BaFe_2S_3 under pressure. Physical Review B, 2018, 98, .	1.1	19
23	Local and long-range atomic/magnetic structure of non-stoichiometric spinel iron oxide nanocrystallites. IUCrJ, 2021, 8, 33-45.	1.0	18
24	New Fluoride-arsenide Diluted Magnetic Semiconductor $(\text{Ba,K})\text{F}(\text{Zn,Mn})\text{As}$ with Independent Spin and Charge Doping. Scientific Reports, 2016, 6, 36578.	1.6	17
25	$\text{Ba}(\text{Zn,Co})_2\text{As}_2$: A diluted ferromagnetic semiconductor with n -type carriers and isostructural to 122 iron-based superconductors. Physical Review B, 2019, 99, .	1.1	16
26	Neutron scattering investigation of proposed Kosterlitz-Thouless transitions in the triangular-lattice Ising antiferromagnet TmMgGaO . Physical Review B, 2021, 103, .	1.1	16
27	Widespread orthorhombic fluctuations in the family of superconductors $\text{Sr}_2\text{Fe}_2\text{O}_7$. Physical Review B, 2018, 98, .	1.5	15
28	Real-space investigation of short-range magnetic correlations in fluoride pyrochlores $\text{NaCaCo}_2\text{F}_7$ and $\text{NaSrCo}_2\text{F}_7$. Physical Review Materials, 2017, 1, .	0.9	15
29	Intertwined magnetic, structural, and electronic transitions in V_2O_3 . Physical Review B, 2019, 100, .	1.1	14
30	Robust block magnetism in the spin ladder compound BaFe_2S_3 under hydrostatic pressure. Physical Review B, 2019, 100, .	1.3	13
31	Nanoscale degeneracy lifting in a geometrically frustrated antiferromagnet. Physical Review B, 2020, 101, .	1.1	13
32	Superconducting properties of noncentrosymmetric superconductor CaIrSi_3 investigated by muon spin relaxation and rotation. Physical Review B, 2015, 91, .	1.1	12
33	Non-Fermi Liquid Behavior Close to a Quantum Critical Point in a Ferromagnetic State without Local Moments. Physical Review X, 2015, 5, .	2.8	11
34	Spectral Evidence for Emergent Order in BaFe_2S_3 . Physical Review Letters, 2018, 121, 127001.	2.9	11
35	Spin dynamics and a nearly continuous magnetic phase transition in an entropy-stabilized oxide antiferromagnet. Physical Review Materials, 2020, 4, .	0.9	11
36	Real-space visualization of short-range antiferromagnetic correlations in a magnetically enhanced thermoelectric. Matter, 2022, 5, 1853-1864.	5.0	11

#	ARTICLE	IF	CITATIONS
37	Disentangling superconducting and magnetic orders in NaFeO_2 using muon spin rotation. <i>Physical Review B</i> , 2018, 97, .		
38	Iron-Based Chalcogenide Spin Ladder BaFe_2X_3 (X = Se,S). <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 143-158.	0.8	8
39	Ground state in pressurized BaFe_2S_3 and BaFe_2Se_3 . <i>Physical Review B</i> , 2020, 101, .	1.1	8
40	High-temperature magnetic anomaly in the Kitaev hyperhoneycomb compound TaS_2 . <i>Physical Review B</i> , 2020, 101, .		
41	Probing the quantum phase transition in Mott insulator BaCoS_2 tuned by pressure and Ni substitution. <i>Physical Review Materials</i> , 2019, 3, .		
42	Pressure tuning of structure, superconductivity, and novel magnetic order in the Ce-underdoped electron-doped cuprate $\text{Ce}_{1-x}\text{Pr}_x\text{CuO}_2$. <i>Physical Review B</i> , 2017, 96, .	1.1	6
43	Structural, magnetic, and electronic evolution of the spin-ladder system $\text{BaFe}_2\text{S}_{3-x}\text{Se}_x$ with isoelectronic substitution. <i>Physical Review B</i> , 2020, 101, .	1.1	6
44	Superparamagnetic dynamics and blocking transition in Fe_3O_4 nanoparticles probed by vibrating sample magnetometry and muon spin relaxation. <i>Physical Review Materials</i> , 2021, 5, .	0.9	6
45	VERDI: VERsatile Diffractometer with wide-angle polarization analysis for magnetic structure studies in powders and single crystals. <i>Review of Scientific Instruments</i> , 2022, 93, .	0.6	6
46	The synthesis and characterization of 1 1 1 type diluted ferromagnetic semiconductor $(\text{La}_{1-x}\text{Ca}_x)(\text{Zn}_{1-x}\text{Mn}_x)\text{AsO}$. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 026003.	0.7	5
47	$^{1/4}\text{SR}$ investigation of a new diluted magnetic semiconductor $\text{Li}(\text{Zn},\text{Mn},\text{Cu})\text{As}$ with Mn and Cu codoping at the same Zn sites. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 366001.	0.7	5
48	Control of dopant crystallinity in electrochemically treated cuprate thin films. <i>Physical Review Materials</i> , 2019, 3, .	0.9	5
49	$^{1/4}\text{SR}$ and magnetometry study of superconducting 5% Pt-doped IrTe_2 . <i>Physical Review B</i> , 2016, 94, .	1.1	4
50	Nematic fluctuations in iron-oxychalcogenide Mott insulators. <i>Npj Quantum Materials</i> , 2021, 6, .	1.8	4
51	$^{1/4}\text{SR}$ study of spin freezing and persistent spin dynamics in $\text{NaCaNi}_2\text{F}_7$. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 385802.	0.7	3
52	Incommensurate Magnetism Near Quantum Criticality in CeNiAsO . <i>Physical Review Letters</i> , 2019, 122, 197203.	2.9	3
53	Observation of a C-type short-range antiferromagnetic order in layer spacing expanded FeS . <i>Physical Review Materials</i> , 2020, 4, .	0.9	3
54	Uniform structural phase transition in V_2O_3 without short-range distortions of the local structure. <i>Physical Review B</i> , 2021, 104, .	1.1	3

#	ARTICLE	IF	CITATIONS
55	Effect of iron vacancies on magnetic order and spin dynamics of the spin ladder $\text{BaFe}_2\text{S}_{1.5}\text{Se}$. Physical Review B, 2022, 105, .	1.1	3
56	Investigating short-range magnetic correlations in real space with the magnetic pair distribution function (mPDF). Neutron News, 2016, 27, 14-16.	0.1	1
57	<i>Ab initio</i> modeling and experimental investigation of Fe_2P by DFT and spin spectroscopies. Physical Review Materials, 2021, 5, .	0.9	1
58	Local structure determination using total scattering data. , 2023, , 222-247.		1
59	Spin dynamics of the spin-chain antiferromagnet RbFeS_2 . Physical Review B, 2021, 104, .	1.1	1