Vivien S Zapf

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6403259/publications.pdf

Version: 2024-02-01

80 papers	2,838 citations	218677 26 h-index	175258 52 g-index
87 all docs	87 docs citations	87 times ranked	3489 citing authors

#	Article	IF	Citations
1	Monoclinic crystal structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mo>â^'</mml:mo><mml:mn>3</mml:mn></mml:mrow></mml:math> the zigzag antiferromagnetic ground state. Physical Review B, 2015, 92, .	3.2	386
2	Bose-Einstein condensation in quantum magnets. Reviews of Modern Physics, 2014, 86, 563-614.	45.6	292
3	Low-Temperature Specific Heat of the Heavy-Fermion SuperconductorPrï»¿Os4Sb12. Physical Review Letters, 2003, 90, 057001.	7.8	172
4	Magnetic Ordering-Induced Multiferroic Behavior in [CH₃NH₃][Co(HCOO)₃] Metalâ€"Organic Framework. Journal of the American Chemical Society, 2016, 138, 1122-1125.	13.7	170
5	Thermodynamics of the Spin Luttinger Liquid in a Model Ladder Material. Physical Review Letters, 2008, 101, 247202.	7.8	149
6	Bose glass and Mott glass of quasiparticles in a doped quantum magnet. Nature, 2012, 489, 379-384.	27.8	111
7	Non-hysteretic colossal magnetoelectricity in a collinear antiferromagnet. Nature Communications, 2014, 5, 3201.	12.8	106
8	Switchable electric polarization and ferroelectric domains in a metal-organic-framework. Npj Quantum Materials, 2016, 1, .	5.2	103
9	Temperature dependence of magnetic anisotropy in nanoparticles of CoxFe(3â^'x)O4. Journal of Magnetism and Magnetic Materials, 2008, 320, 709-713.	2.3	69
10	Magnetocapacitance as a sensitive probe of magnetostructural changes in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>NiCr</mml:mtext><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2014, 89, .	3.2	67
11	Direct Measurement of the Bose-Einstein Condensation Universality Class inNiCl2â^'4SC(NH2)2at Ultralow Temperatures. Physical Review Letters, 2008, 101, 187205.	7.8	64
12	Successive Magnetic-Field-Induced Transitions and Colossal Magnetoelectric Effect in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Ni</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review Letters, 2015, 115, 137201.	7.8	58
13	Enhanced magnetization of nanoparticles of Mg x Fe(3â^'x)O4 (0.5â‰¤xâ‰¤1.5) synthesized by combustion reaction. Applied Physics A: Materials Science and Processing, 2009, 94, 131-137.	2.3	54
14	Stressâ€Induced Domain Wall Motion in a Ferroelastic Mn³⁺ Spin Crossover Complex. Angewandte Chemie - International Edition, 2020, 59, 13305-13312.	13.8	49
15	Magnetic properties of nanoparticles of CoxFe(3â^'x)O4 (0.05â©½xâ©½1.6) prepared by combustion reaction. Journal of Applied Physics, 2007, 101, 09M506.	2.5	43
16	Strongly correlated electron phenomena in filled skutterudite compounds. Physica B: Condensed Matter, 2003, 328, 29-33.	2.7	39
17	Quantum Oscillations in Flux-Grown <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>SmB</mml:mi></mml:mrow><mml:mrow><mml:mn>6</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> with Embedded Aluminum. Physical Review Letters, 2019, 122, 166401.	7.8	37
18	Electronic and magnetic investigation of the filled skutterudite compound CeRu4Sb12. Journal of Physics Condensed Matter, 2001, 13, 5183-5193.	1.8	36

#	ARTICLE	IF	CITATIONS
19	High temperature magnetic properties of Co1-xMgxFe2O4 nanoparticles prepared by forced hydrolysis method. Journal of Applied Physics, 2012, 111, .	2.5	33
20	Coexistence of superconductivity and ferromagnetism in polycrystalline UGe2. Journal of Physics Condensed Matter, 2001, 13, L759-L770.	1.8	32
21	Anisotropic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>H</mml:mi><mml:mrow><mml:mi>c</mml:mi><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math> to 92 T and the signature of multiband superconductivity in Ca<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow		

#	ARTICLE	IF	CITATIONS
37	[Ni(HF₂)(3-Clpy)₄]BF₄ (py = pyridine): Evidence for Spin Exchange Along Strongly Distorted FÂ·Â·Â·HÂ·Â·Â·F^{â€“} Bridges in a One-Dimensional Polymeric Chain. Inorganic Chemistry, 2012, 51, 7520-7528.	4.0	19
38	Magnetic properties of double perovskite Ln2CoIrO6 (Ln=Eu,ÂTb,ÂHo) : Hetero-tri-spin 3dâ¨5dâ¨4f systems. Physical Review B, 2019, 99, .	3.2	19
39	High magnetic field evolution of ferroelectricity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>CuCrO</mml:mtext><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2014, 89, .	3.2	17
40	Magnetization Process of Atacamite: A Case of Weakly Coupled <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn><mml:mo stretchy="false">/</mml:mo><mml:mn>2</mml:mn></mml:math> Sawtooth Chains. Physical Review Letters, 2021, 126, 207201.	7.8	16
41	SUPERCONDUCTING AND NORMAL STATE PROPERTIES OF THE HEAVY FERMION COMPOUND PrOs4Sb12. International Journal of Modern Physics B, 2002, 16, 3008-3013.	2.0	15
42	Neutron study of the magnetism in NiCl2â‹…4SC(NH2)2. Journal of Physics Condensed Matter, 2013, 25, 216008.	1.8	15
43	Magnetic-field-induced phases in anisotropic triangular antiferromagnets: Application to <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CuCrO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2014, 89, .	3.2	15
44	Magnetization dynamics and frustration in the multiferroic double perovskite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Lu</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2016, 93, .	3.2	15
45	Combining microscopic and macroscopic probes to untangle the single-ion anisotropy and exchange energies in an <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn></mml:math> quantum antiferromagnet. Physical Review B, 2017, 95, .	3.2	15
46	Thermal and Magnetic Field Switching in a Twoâ€Step Hysteretic Mn^{III} Spin Crossover Compound Coupled to Symmetry Breakings. Angewandte Chemie - International Edition, 2022, 61, .	13.8	15
47	Spin Liquid State and Topological Structural Defects in Hexagonal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>TbInO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:math> Physical Review X, 2019, 9, .	8.9	14
48	Stressâ€Induced Domain Wall Motion in a Ferroelastic Mn 3+ Spin Crossover Complex. Angewandte Chemie, 2020, 132, 13407-13414.	2.0	13
49	Field-tunable toroidal moment in a chiral-lattice magnet. Nature Communications, 2021, 12, 5339.	12.8	13
50	Anomalous Metamagnetism in the Low Carrier Density Kondo Lattice <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>YbRh</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:math> Physical Review X, 2018, 8, .	8.9	12
51	Magnetic Susceptibility Measurements at Ultra-low Temperatures. Journal of Low Temperature Physics, 2010, 158, 710-715.	1.4	11
52	Three Jahn-Teller States of Matter in Spin-Crossover System Mn(taa). Physical Review Letters, 2020, 124, 227201.	7.8	11
53	QUASIPARTICLE SPECTROSCOPY AND HIGH-FIELD PHASE DIAGRAMS OF CUPRATE SUPERCONDUCTORS â€“ AN INVESTIGATION OF COMPETING ORDERS AND QUANTUM CRITICALITY. International Journal of Modern Physics B, 2005, 19, 285-294.	2.0	10
54	The Origin and Coupling Mechanism of the Magnetoelectric Effect inTMCl₂-4SC(NH₂)₂(TM= Ni and Co). Advances in Condensed Matter Physics, 2014, 2014, 1-4.	1.1	9

#	Article	IF	Citations
55	Partially disordered antiferromagnetism and multiferroic behavior in a frustrated Ising system<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CoCl</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">SC</mml:mi><mml:mo>(</mml:mo><mml:msub><mml:mi>NH</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>)</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2016, 93, .	3.2	8
56	Ag(nic)₂ (nic = Nicotinate): A Spin-Canted Quasi-2D Antiferromagnet Composed of Square-Planar S = ¹/₂ Ag^{II} Ions. Inorganic Chemistry, 2012, 51, 1989-1991.	4.0	7
57	Magnetic properties of some transition-metal Prussian Blue Analogs with composition M[M(C,N)]Â·xHO. Journal of Science: Advanced Materials and Devices, 2016, 1, 113-120.	3.1	7
58	Comprehensive magnetic phase diagrams of the polar metal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi		

#	Article	IF	Citations
73	Irreversibility Line Measurement and Vortex Dynamics in High Magnetic Fields in Ni- and Co-Doped Iron Pnictide Bulk Superconductors. Journal of Superconductivity and Novel Magnetism, 2016, 29, 2735-2742.	1.8	2
74	Dynamics of a fractal set of first-order magnetic phase transitions in frustrated <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Lu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">CoMnO</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:math>. Physical Review B, 2021, 103, .	3.2	2
75	Reaching the equilibrium state of the frustrated triangular Ising magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Ca</mml:mi></mml:mrow><mml:mn>3</mml:mn> mathvariant="normal">O</mml:mi></mml:mrow><mml:mn>6</mml:mn></mml:msub></mml:math>. Physical Review B, 2022, 105, .	3.2	2
76	Accessing One-Dimensional Chains of Halogenoindates(III) in Organicâ€“Inorganic Hybrids. Inorganic Chemistry, 2022, 61, 5469-5473.	4.0	2
77	Impurity-satelliteAl27nuclear magnetic resonance in thef-site diluted non-Fermi-liquid alloysU1â^'xLaxPd2Al3. Physical Review B, 2005, 72, .	3.2	1
78	Anomalous frequency dependence of magneto-electric effect in doped DTN. Physica B: Condensed Matter, 2021, 608, 412875.	2.7	1
79	Pressure and magnetic field effects in heavy-fermion UCu3.5Al1.5. Journal of Applied Physics, 2009, 105, 07E112.	2.5	0
80	A Review of Bose-Einstein Condensation in Certain Quantum Magnets Containing Cu and Ni. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 239-249.	0.3	0