

# Vivien S Zapf

## List of Publications by Year in descending order

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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	Thermal and Magnetic Field Switching in a Two-Step Hysteretic Mn <sup>III</sup> Spin Crossover Compound Coupled to Symmetry Breakings. <i>Angewandte Chemie</i> , 2022, 134, e202114021.	2.0	5
2	Thermal and Magnetic Field Switching in a Two-Step Hysteretic Mn <sup>III</sup> Spin Crossover Compound Coupled to Symmetry Breakings. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	15
3	Evidence of dynamical effects and critical field in a cobalt spin crossover complex. <i>Chemical Communications</i> , 2022, 58, 661-664.	4.1	4
4	Reaching the equilibrium state of the frustrated triangular Ising magnet $\text{CaMn}_3\text{O}_6$ . <i>Physical Review B</i> , 2022, 105, .	3.2	2
5	High-Field Magnetoelectric and Spin-Phonon Coupling in Multiferroic $\text{NH}_4\text{FeCl}_5\text{H}_2\text{O}$ . <i>Inorganic Chemistry</i> , 2022, 61, 3434-3442.	4.0	3
6	Using Hyperoptimized Tensor Networks and First-Principles Electronic Structure to Simulate the Experimental Properties of the Giant $\text{Mn}_{84}$ Torus. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2365-2370.	4.6	3
7	Accessing One-Dimensional Chains of Halogenoindates(III) in Organic-Inorganic Hybrids. <i>Inorganic Chemistry</i> , 2022, 61, 5469-5473.	4.0	2
8	Domain Wall Dynamics in a Ferroelastic Spin Crossover Complex with Giant Magnetoelectric Coupling. <i>Journal of the American Chemical Society</i> , 2022, 144, 195-211.	13.7	21
9	Giant Magnetoelectric Coupling and Magnetic-Field-Induced Permanent Switching in a Spin Crossover Mn(III) Complex. <i>Inorganic Chemistry</i> , 2021, 60, 6167-6175.	4.0	21
10	Dynamics of a fractal set of first-order magnetic phase transitions in frustrated $\text{Lu}_2\text{CoMnO}_6$ . <i>Physical Review B</i> , 2021, 103, .	3.2	2
11	Magnetic ground state of the one-dimensional ferromagnetic chain compounds		

#	ARTICLE	IF	CITATIONS
19	Spin Liquid State and Topological Structural Defects in Hexagonal $\text{TbInO}_3$ Physical Review X, 2019, 9, .	8.9	14
20	Magnetolectric behavior via a spin state transition. Nature Communications, 2019, 10, 4043.	12.8	29
21	Magnetic properties of double perovskite $\text{Ln}_2\text{CoIrO}_6$ ( $\text{Ln}=\text{Eu}, \text{ Tb}, \text{ Ho}$ ) : Hetero-tri-spin $3d^7 5d^4$ systems. Physical Review B, 2019, 99, . Comprehensive magnetic phase diagrams of the polar metal $\text{C}$	3.2	19
22			

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37	Switchable electric polarization and ferroelectric domains in a metal-organic-framework. Npj Quantum Materials, 2016, 1, .	5.2	103
38	Magnetic transitions and isotropic versus anisotropic magnetic behaviour of $[\text{CH}_3\text{NH}_3]_3[\text{M}(\text{HCOO})_3]$ $\text{M} = \text{Mn}^{2+}$ , $\text{Co}^{2+}$ , $\text{Ni}^{2+}$ , $\text{Cu}^{2+}$ metal-organic perovskites. Journal of Materials Chemistry C, 2016, 4, 11164-11172.	5.5	23
39	Magnetic Ordering-Induced Multiferroic Behavior in $[\text{CH}_3\text{NH}_3]_3[\text{Co}(\text{HCOO})_3]$ Metal-Organic Framework. Journal of the American Chemical Society, 2016, 138, 1122-1125.	13.7	170
40	Monoclinic crystal structure of $\text{Ni}^{2+}$ the zigzag antiferromagnetic ground state. Physical Review B, 2015, 92, .	3.2	36
41	Successive Magnetic-Field-Induced Transitions and Colossal Magnetoelectric Effect in $\text{Ni}^{2+}$ Physical Review Letters. 2015. 115. 137201.	7.8	58
42	The Origin and Coupling Mechanism of the Magnetoelectric Effect in $\text{TMCl}_2\cdot 4\text{SC}(\text{NH}_2)_2$ ( $\text{TM} = \text{Ni}$ and $\text{Co}$ ). Advances in Condensed Matter Physics, 2014, 2014, 1-4.	1.1	9
43	High magnetic field evolution of ferroelectricity in $\text{CuCrO}_2$ Physical Review B, 2014, 89, .	23.2	17
44	Bose-Einstein condensation in quantum magnets. Reviews of Modern Physics, 2014, 86, 563-614.	45.6	292
45	Non-hysteretic colossal magnetoelectricity in a collinear antiferromagnet. Nature Communications, 2014, 5, 3201.	12.8	106
46	Magnetocapacitance as a sensitive probe of magnetostructural changes in $\text{NiCr}_2\text{O}_4$ Physical Review B, 2014, 89, .	3.1	47
47	Magnetic-field-induced phases in anisotropic triangular antiferromagnets: Application to $\text{CuCrO}_2$ Physical Review B, 2014, 89, .	3.1	15
48	Criticality in a disordered quantum antiferromagnet studied by neutron diffraction. Physical Review B, 2013, 88, .	3.2	21
49	Neutron study of the magnetism in $\text{NiCl}_2\cdot 4\text{SC}(\text{NH}_2)_2$ . Journal of Physics Condensed Matter, 2013, 25, 216008.	1.8	15
50	High temperature magnetic properties of $\text{Co}_{1-x}\text{Mg}_x\text{Fe}_2\text{O}_4$ nanoparticles prepared by forced hydrolysis method. Journal of Applied Physics, 2012, 111, .	2.5	33
51	Superconductivity in $\text{CaH}_2\text{C}_2$ to 92 T and the signature of multiband superconductivity in $\text{Ca}$		

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55	Temperature thermodynamic properties near the field-induced quantum critical point in $\text{NiCl}_2\text{a}^{-4}\text{SC}(\text{NH}_2)_2$ . <i>Physical Review Letters</i> , 2008, 101, 187205.	7.8	64
56	$[\text{Ni}(\text{HF})_2(3\text{-Clpy})_4]\text{BF}_4$ (py = pyridine): Evidence for Spin Exchange Along Strongly Distorted $\text{F}\ddot{\text{A}}\ddot{\text{A}}\ddot{\text{H}}\ddot{\text{A}}\ddot{\text{F}}$ Bridges in a One-Dimensional Polymeric Chain. <i>Inorganic Chemistry</i> , 2012, 51, 7520-7528.	4.0	19
57	Structural, Electronic, and Magnetic Properties of Quasi-1D Quantum Magnets $[\text{Ni}(\text{HF})_2(\text{pyz})_2]\text{X}$ (pyz = pyrazine; X = $\text{PF}_6$ ), <i>Physical Review Letters</i> , 2011, 106, 057201.	4.0	30
58	Magnetic Susceptibility Measurements at Ultra-low Temperatures. <i>Journal of Low Temperature Physics</i> , 2010, 158, 710-715.	1.4	11
59	Pressure and magnetic field effects in heavy-fermion $\text{UCu}_3.5\text{Al}_{1.5}$ . <i>Journal of Applied Physics</i> , 2009, 105, 07E112.	2.5	0
60	Complex conductivity of UTX compounds in high magnetic fields. <i>Journal of Applied Physics</i> , 2009, 105, 07E108.	2.5	3
61	Enhanced magnetization of nanoparticles of $\text{Mg}_x\text{Fe}(3\hat{x})\text{O}_4$ (0.5 $\hat{x}$ 1.5) synthesized by combustion reaction. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 94, 131-137.	2.3	54
62	Radio-frequency measurements of UNiX compounds (X=Al, Ga, Ge) in high magnetic fields. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 3712-3718.	2.3	2
63	Magnetostriction and thermal expansion on 1D quantum spin system azurite. <i>Journal of Physics: Conference Series</i> , 2009, 150, 042030.	0.4	5
64	Temperature dependence of magnetic anisotropy in nanoparticles of $\text{Co}_x\text{Fe}(3\hat{x})\text{O}_4$ . <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 709-713.	2.3	69
65	Unconventional Superconductivity in Novel Materials. , 2008, , 639-762.		4
66	Direct Measurement of the Bose-Einstein Condensation Universality Class in $\text{NiCl}_2\text{a}^{-4}\text{SC}(\text{NH}_2)_2$ at Ultralow Temperatures. <i>Physical Review Letters</i> , 2008, 101, 187205.	7.8	64
67	Thermodynamics of the Spin Luttinger Liquid in a Model Ladder Material. <i>Physical Review Letters</i> , 2008, 101, 247202.	7.8	149
68	A Review of Bose-Einstein Condensation in Certain Quantum Magnets Containing Cu and Ni. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2008, , 239-249.	0.3	0
69	Magnetic properties of nanoparticles of $\text{Co}_x\text{Fe}(3\hat{x})\text{O}_4$ (0.05 $\hat{x}$ 1.6) prepared by combustion reaction. <i>Journal of Applied Physics</i> , 2007, 101, 09M506.	2.5	43
70	Impurity-satellite nuclear magnetic resonance in the site diluted non-Fermi-liquid alloy $\text{U}_{1-\hat{x}}\text{La}_x\text{Pd}_2\text{Al}_3$ . <i>Physical Review B</i> , 2005, 72, .	3.2	1
71	Field-dependent Hall effect in single-crystal heavy-fermion $\text{YbAgGe}$ below 1K. <i>Physical Review B</i> , 2005, 72, .	3.2	23
72	QUASIPARTICLE SPECTROSCOPY AND HIGH-FIELD PHASE DIAGRAMS OF CUPRATE SUPERCONDUCTORS – AN INVESTIGATION OF COMPETING ORDERS AND QUANTUM CRITICALITY. <i>International Journal of Modern Physics B</i> , 2005, 19, 285-294.	2.0	10

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73	Unconventional Superconductivity in Novel Materials. , 2004, , 555-730.		7
74	Strongly correlated electron phenomena in filled skutterudite compounds. Physica B: Condensed Matter, 2003, 328, 29-33.	2.7	39
75	Low-Temperature Specific Heat of the Heavy-Fermion Superconductor $\text{PrOs}_4\text{Sb}_{12}$ . Physical Review Letters, 2003, 90, 057001.	7.8	172
76	Superconductivity and the high-field ordered phase in the heavy-fermion compound $\text{PrOs}_4\text{Sb}_{12}$ . Journal of Physics Condensed Matter, 2003, 15, S2071-S2080.	1.8	26
77	SUPERCONDUCTING AND NORMAL STATE PROPERTIES OF THE HEAVY FERMION COMPOUND $\text{PrOs}_4\text{Sb}_{12}$ . International Journal of Modern Physics B, 2002, 16, 3008-3013.	2.0	15
78	f-Electron materials: a reservoir of novel electronic states and phenomena. Physica B: Condensed Matter, 2002, 318, 68-76.	2.7	5
79	Electronic and magnetic investigation of the filled skutterudite compound $\text{CeRu}_4\text{Sb}_{12}$ . Journal of Physics Condensed Matter, 2001, 13, 5183-5193.	1.8	36
80	Coexistence of superconductivity and ferromagnetism in polycrystalline $\text{UGe}_2$ . Journal of Physics Condensed Matter, 2001, 13, L759-L770.	1.8	32