

Dirk Wulferding

List of Publications by Year in descending order

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64
papers

1,041
citations

471509

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h-index

454955

30
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68
all docs

68
docs citations

68
times ranked

1735
citing authors

#	ARTICLE	IF	CITATIONS
1	Interplay of thermal and quantum spin fluctuations in the kagome lattice compound herbertsmithite. Physical Review B, 2010, 82, .	3.2	93
2	Magnon bound states versus anyonic Majorana excitations in the Kitaev honeycomb magnet $\hat{\pm}$ -RuCl ₃ . Nature Communications, 2020, 11, 1603.	12.8	72
3	Preparation of silver nanoparticles coated ZnO/Fe ₃ O ₄ composites using chemical reduction method for sensitive detection of uric acid via surface-enhanced Raman spectroscopy. Analytica Chimica Acta, 2019, 1073, 62-71.	5.4	70
4	Optical phonons, spin correlations, and spin-phonon coupling in the frustrated pyrochlore magnets CdCr_2O_7 and ZnCr_2O_7 . Physical Review B, 2009, 80, .	3.2	67
5	Lattice and electronic anomalies of CaFe_2As_2 by Raman spectroscopy. Physical Review B, 2008, 78, .	3.2	57
6	Interplay between lattice and spin states degree of freedom in the FeSe superconductor: Dynamic spin state instabilities. Physical Review B, 2013, 87, .	3.2	54
7	Crossover from coherent to incoherent scattering in spin-orbit dominated Sr ₂ IrO ₇ . Physical Review B, 2012, 85, .	3.2	45
8	Nano MOF Entrapping Hydrophobic Photosensitizer for Dual-Stimuli-Responsive Unprecedented Therapeutic Action against Drug-Resistant Bacteria. ACS Applied Bio Materials, 2019, 2, 1772-1780.	4.6	45
9	Synthesis, Crystal Structure, and Magnetic Properties of the Copper Selenite Chloride $\text{Cu}_5(\text{SeO}_3)_4\text{Cl}_2$. Inorganic Chemistry, 2010, 49, 9683-9688.	4.0	32
10	Flower-Like BiOI Microspheres Decorated with Plasmonic Gold Nanoparticles for Dual Detoxification of Organic and Inorganic Water Pollutants. ACS Applied Nano Materials, 2020, 3, 2733-2744.	5.0	29
11	Anomalous low-energy phonons in nearly tetragonal BiFeO ₃ thin films. Physical Review B, 2011, 84, .	3.2	26
12	Direct observation of the M2 phase with its Mott transition in a VO ₂ film. Applied Physics Letters, 2016, 109, .	3.3	26
13	Separation of the Oxide and Halide Part in the Oxohalide $\text{Fe}_3\text{Te}_3\text{O}_{10}\text{Cl}$ Due to High Lewis Acidity of the Cations. Inorganic Chemistry, 2009, 48, 6599-6603.	4.0	25
14	Raman study of the Verwey transition in magnetite thin films. New Journal of Physics, 2013, 15, 103032.	2.9	23
15	Soft tilt and rotational modes in the hybrid improper ferroelectric Ca_3O_7 . Physical Review B, 2018, 97, .	3.2	23
16	Microwave absorption in the frustrated ferrimagnet Cu_2OSeO_3 . Low Temperature Physics, 2010, 36, 176-179.	0.6	19
17	Emergent nematicity and intrinsic versus extrinsic electronic scattering processes in the kagome metal CsV_3Sb_5 . Physical Review Research, 2022, 4, .	3.6	18
18	Extension of the zinc paratacamite phase diagram: Probing the effect of spin vacancies in aNS=12 kagome antiferromagnet. Physical Review B, 2012, 85, .	3.2	17

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19	Evidence for Dimer Crystal Melting in the Frustrated Spin-Ladder System BiCu_2PO_6 . Physical Review Letters, 2013, 110, 117204.	7.8	17
20	Enhanced quasiparticle dynamics of quantum well states: The giant Rashba system BiTeI and topological insulators. Physical Review B, 2014, 89, .	3.2	16
21	Flat-band spin dynamics and phonon anomalies of the saw-tooth spin-chain system Fe_2O_3 . Physical Review B, 2019, 99, .	3.2	16
22	Raman spectroscopic diagnostic of quantum spin liquids. Journal of Physics Condensed Matter, 2020, 32, 043001.	1.8	16
23	Coupled spin-lattice fluctuations in a compound with orbital degrees of freedom: The Cr-based dimer system $\text{Sr}_3\text{Cr}_2\text{O}_8$. Physical Review B, 2011, 84, .	3.2	13
24	Interplay of electronic correlations and lattice instabilities in BaVS_3 . Physical Review B, 2009, 80, .	3.2	11
25	Kitaev Spin Liquid Candidate Os_2Cl_3 Comprised of Honeycomb Nano-Domains. Journal of the Physical Society of Japan, 2020, 89, 114709.	1.6	11
26	Softened magnetic excitations in the $S=3/2$ distorted triangular antiferromagnet $\text{La-CaCr}_2\text{O}_4$. Journal of Physics Condensed Matter, 2012, 24, 435604.	1.8	10
27	Tailoring defect structure and optical absorption of porous anodic aluminum oxide membranes. Materials Chemistry and Physics, 2012, 135, 206-211.	4.0	10
28	Competing lattice fluctuations and magnetic excitations in CuO . Physical Review B, 2013, 87, .	3.2	10
29	Domain engineering of the metastable domains in the 4f-uniaxial-ferromagnet $\text{CeRu}_2\text{Ga}_2\text{B}$. Scientific Reports, 2017, 7, 46296.	3.3	10
30	New Perspectives for Cuprate Research: $(\text{Ca}_x\text{La}_{1-x})(\text{Ba}_{1.75-x}\text{La}_{0.25+x})\text{Cu}_3\text{O}_y$ Single Crystals. Journal of Superconductivity and Novel Magnetism, 2012, 25, 2331-2335.	1.8	9
31	Relation between cuprate superconductivity and magnetism: A Raman study of $(\text{CaLa})_1(\text{BaLa})_2\text{Cu}_3\text{O}_y$. Physical Review B, 2014, 90, .	3.2	9
32	Spatially resolved penetration depth measurements and vortex manipulation in the ferromagnetic superconductor $\text{ErNi}_2\text{B}_2\text{C}$. Physical Review B, 2015, 92, .	3.2	9
33	Magnetic domain tuning and the emergence of bubble domains in the bilayer manganite $\text{La}_{1-x}\text{Mn}_2\text{O}_7$. Physical Review B, 2015, 92, .	3.2	9
34	Screw-Type Motion and Its Impact on Cooperativity in $\text{BaNa}_2\text{Fe}_4\text{VO}_8$. Inorganic Chemistry, 2018, 57, 6300-6308.	4.0	9
35	Effect of topology on quasiparticle interactions in the Weyl semimetal WP_2 . Physical Review B, 2020, 102, .	3.2	8
36	Dynamical lattice instability versus spin liquid state in a frustrated spin chain system. Physical Review B, 2012, 85, .	3.2	8

#	ARTICLE	IF	CITATIONS
37	Lattice and orbital fluctuations in TiPO $\langle mml:msub \langle mml:mrow / \rangle \langle mml:mn \rangle 4 \langle /mml:mn \rangle \langle /mml:msub \rangle \langle /mml:math \rangle$. Physical Review B, 2013, 88, .	3.2	8
38	Construction of a ³ He magnetic force microscope with a vector magnet. Review of Scientific Instruments, 2016, 87, 023704.	1.3	8
39	Development of a magnetic nanohybrid for multifunctional application: From immobile photocatalysis to efficient photoelectrochemical water splitting: A combined experimental and computational study. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 397, 112575.	3.9	8
40	Charge gap and charge-phonon coupling in LuFe $\langle mml:msub \langle mml:mrow / \rangle \langle mml:mn \rangle 2 \langle /mml:mn \rangle \langle /mml:msub \rangle \langle /mml:math \rangle$ O $\langle mml:msub \langle mml:mrow / \rangle \langle mml:mn \rangle 4 \langle /mml:mn \rangle \langle /mml:msub \rangle \langle /mml:math \rangle$. Physical Review B, 2013, 87, .	3.2	7
41	Anomalous low-temperature behavior of the Co dimers in the oxo-halide CoSb ₂ O ₃ Br ₂ . Journal of Solid State Chemistry, 2008, 181, 2776-2782.	2.9	6
42	A Molecular Magnet Confined in the Nanocage of a Globular Protein. ChemPhysChem, 2010, 11, 389-393.	2.1	6
43	The spin dynamics in distorted kagome lattices: a comparative Raman study. Journal of Physics Condensed Matter, 2012, 24, 185602.	1.8	6
44	Local characterization of a heavy-fermion superconductor via sub-Kelvin magnetic force microscopy. Applied Physics Letters, 2020, 117, .	3.3	6
45	Phononic and magnetic excitations in the quasi-one-dimensional Heisenberg antiferromagnet KCuF ₃ . Low Temperature Physics, 2012, 38, 419-427.	0.6	5
46	Low-dimensional magnetism of spin- $\hat{A}1/2$ chain systems of $\hat{I}\pm$ - and \hat{I}^2 -TeVO ₄ : A comparative study. Low Temperature Physics, 2012, 38, 559-569.	0.6	5
47	Ultrafast excited state deactivation of doped porous anodic alumina membranes. Nanotechnology, 2012, 23, 305705.	2.6	4
48	Raman scattering of plane-wave and twisted light off chiral molecular liquids. Low Temperature Physics, 2021, 47, 959-965.	0.6	4
49	Dimer Crystallization Induced by Elemental Substitution in the Honeycomb Lattice of Ru _{1-x} Os _x Cl ₃ . Journal of the Physical Society of Japan, 2022, 91, .	1.6	4
50	High magnetic anisotropy and magnon excitations in single crystals of the double spin chain compound $\langle mml:msub \langle mml:mrow / \rangle \langle mml:mi \rangle \text{Pb} \langle /mml:mi \rangle \langle mml:msub \langle mml:mi \rangle \text{Mn} \langle /mml:mi \rangle \langle mml:math \rangle$ $\langle mml:msub \langle mml:mrow / \rangle \langle mml:mi \rangle \text{O} \langle /mml:mi \rangle \langle mml:mn \rangle 18 \langle /mml:mn \rangle \langle /mml:msub \rangle \langle /mml:mrow \rangle \langle /mml:math \rangle$. Physical Review B, 2021, 103, .	3.2	3
51	Magnetic and structural correlations in the warwickite Mn ₂ OBO ₃ . Low Temperature Physics, 2019, 45, 1046-1052.	0.6	2
52	Tailoring the surface plasmon resonance energy of Au nanowire arrays by defect management and thermal treatment. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 121, 114092.	2.7	2
53	Strain-induced doping and zero line mode at the fold of twisted Bernal-stacked bilayer graphene. 2D Materials, 2021, 8, 045009.	4.4	2
54	Non-Abelian statistics in light-scattering processes across interacting Haldane chains. Physical Review B, 2021, 104, .	3.2	2

#	ARTICLE	IF	CITATIONS
55	Cu ₉ O ₂ (SeO ₃) ₄ Cl ₆ revisited: Crystal structure, Raman scattering and first-principles calculations. Journal of Alloys and Compounds, 2022, 894, 162291.	5.5	2
56	Thermally populated versus field-induced triplon bound states in the Shastry-Sutherland lattice SrCu ₂ (BO ₃) ₂ . Npj Quantum Materials, 2021, 6, .	5.2	2
57	Twisted double ABC-stacked trilayer graphene with weak interlayer coupling. Physical Review B, 2022, 105, .	3.2	2
58	Inside Cover: A Molecular Magnet Confined in the Nanocage of a Globular Protein (ChemPhysChem) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.1	1
59	Systematic Raman study of optical phonons in RBa ₂ Cu ₃ O _{6+δ} (R=Y, Dy, Gd, Sm, Nd): Antiferromagnetic coupling strength versus lattice parameters. Physical Review B, 2019, 99, .	3.2	1
60	Experimental signatures of nodeless multiband superconductivity in a $\text{Hf}_{0.08}\text{Pd}_{0.92}\text{TaSe}_2$ single crystal. Scientific Reports, 2021, 11, 13383.	3.3	1
61	Phase separation in iron chalcogenide superconductor Rb _{0.8+x} Fe _{1.6+y} Se ₂ as seen by Raman light scattering and band structure calculations. Low Temperature Physics, 2016, 42, 491-504.	0.6	0
62	Tuning the orbital-lattice fluctuations in the mixed spin-dimer system $\text{Ba}_{1-x}\text{Sr}_x\text{Cu}_2\text{O}_{8-2x}$. Physical Review B, 2018, 98, .	3.2	0
63	Comparative Optic Studies of Cobalt-Based Layered Double Hydroxides with Nitrate and Carbonate Anions and Coll/AIII ratio n = 2, 3, 4. , 2021, , .		0
64	Magnetic and lattice excitations in the quasi-2D quantum spin compound (CuCl)LaNb ₂ O ₇ . Low Temperature Physics, 2021, 47, 928-936.	0.6	0