Oleg Janson

List of Publications by Year
in descending order

59 papers	1,548 citations	279487 23 h-index	329751 37 g-index
60 all docs	60 docs citations	60 times ranked	1884 citing authors

#	Article	IF	Citations
1	Phase Diagram of Nickelate Superconductors Calculated by Dynamical Vertex Approximation. Frontiers in Physics, 2022, 9, .	1.0	24
2	Buckled Honeycomb Lattice Compound Sr₃CaOs₂O₉ Exhibiting Antiferromagnetism above Room Temperature. Chemistry of Materials, 2022, 34, 4741-4750.	3.2	3
3	Operation Mechanism in Hybrid Mgâ€“Li Batteries with TiNb₂O₇ Allowing Stable High-Rate Cycling. ACS Applied Materials & Interfaces, 2021, 13, 6309-6321.	4.0	13
4	Ab initio based ligand field approach to determine electronic multiplet properties. Physical Review B, 2021, 104, .	1.1	5
5	Frustration enhanced by Kitaev exchange in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mover accent="true"><mml:mi>j</mml:mi><mml:mo>^</mml:mo></mml:mover><mml:mtext>eff</mml:mtext></mml:msub><mml:mo>=	1.1	15
6	Destruction of long-range magnetic order in an external magnetic field and the associated spin dynamics in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Cu</mml:mi></mml:mrow><mml:mn>2</mml:mn> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Cu</mml:mi></mml:mrow><mml:mn>2</mml:mn> Physical Review B, 2021, 103, .	1.1	6
7	Different types of spin currents in the comprehensive materials database of nonmagnetic spin Hall effect. Npj Computational Materials, 2021, 7, .	3.5	16
8	How correlations change the magnetic structure factor of the kagome Hubbard model. Physical Review B, 2021, 104, .	1.1	11
9	Interplay of electron correlations, spin-orbit couplings, and structural effects for Cu centers in the quasi-two-dimensional magnet InCu2/3V1/3O3. Physical Review B, 2020, 102, .	1.1	1
10	Nickelate superconductorsâ€”a renaissance of the one-band Hubbard model. Npj Quantum Materials, 2020, 5, .	1.8	129
11	Ground state and low-temperature magnetism of the quasi-two-dimensional honeycomb compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>InCu</mml:mi><mml:mrow><mml:mn>2 mathvariant="normal">V</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>3</mml:mn></mml:mrow> mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2019, 100, .	1.1	5
12	Magnetoelastic couplings in the deformed kagome quantum spin lattice of volborthite. Physical Review B, 2019, 99, .	1.1	9
13	Electronic and magnetic state of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaMnO</mml:mi><mml:mn>3</mml:mn></mml:msub> epitaxially strained on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub> . Effect of local correlation and nonlocal exchange. Physical Review B, 2019, 100, .	1.1	11
14	Finite-temperature phase diagram of (111) nickelate bilayers. Physical Review B, 2018, 98, .	1.1	6
15	Dynamical Mean Field Theory for Oxide Heterostructures. Springer Series in Materials Science, 2018, , 215-243.	0.4	0
16	Frustrated spin chain physics near the Majumdar-Ghosh point in szenicsite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Cu</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>(</mml:mo><mml:msub><mml:mi) Tj ET Q q 0 0 rg /><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review B, 2017, 95, .	1.1	20
17	Anisotropic field-induced gap in the quasi-one-dimensional antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>KCuMoO</mml:mi><mml:mn>4</mml:mn> Physical Review B, 2017, 96, .	1.1	7
18	Quantum Anomalous Hall State in Ferromagnetic SrRuO3 (111) Bilayers. Physical Review Letters, 2017, 119, 026402.	2.9	47

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19	Interplay of magnetic sublattices in langite Cu₄(OH)₆SO₄Â·2H₂O. New Journal of Physics, 2016, 18, 033020.	1.2	7
20	Magnetic anisotropy in the frustrated spin-chain compound<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î²</mml:mi><mml:mo>â^'</mml:mo><mml:msub><mml:r Physical Review B, 2016, 94, .	1.1	29
21	Magnetic Behavior of Volborthite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>Cu</mml:mi></mml:mrow><mml:mrow><mml:mn>3</ mathvariant="normal">V</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:mrow><mml:m mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>7</mml:mn></mml:mrow></mml:msub></mm. Physical Review Letters, 2016, 117, 037206.	2.9	48
22	Consequences of critical interchain couplings and anisotropy on a Haldane chain. Physical Review B, 2015, 91, .	1.1	18
23	Intermetallic germanides with non-centrosymmetric structures derived from the Yb3Rh4Sn13 type. Dalton Transactions, 2015, 44, 5638-5651.	1.6	17
24	Magnetic pyroxenes<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">LiCrGe</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mn>6</mml:mn></mml:msub></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">LiCrSi</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mi	1.1	17
25	Nearly compensated exchange in the dimer compound callaghaniteCu2Mg2(CO3)(oH)6Â·2H2O. Physical Review B, 2014, 89, .	1.1	15
26	The quantum nature of skyrmions and half-skyrmions in Cu2OSeO3. Nature Communications, 2014, 5, 5376.	5.8	108
27	CoBi₃â€"the first binary compound of cobalt with bismuth: high-pressure synthesis and superconductivity. Journal of Physics Condensed Matter, 2014, 26, 395701.	0.7	15
28	Microscopic magnetic modeling for the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mspace width="0.16em" /><mml:mo>=</mml:mo><mml:mspace width="0.16em" /><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:mrow></mml:math>alternating-chain compounds<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Na</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:m	1.1	30
29	Crystal structures and variable magnetism of PbCu2(XO3)2Cl2 with X = Se, Te. Dalton Transactions, 2013, 42, 9547.	1.6	33
30	Structure and magnetism of Cr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>[BP<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	1.1	15
31	CoBi₃: A Binary Cobaltâ€"Bismuth Compound and Superconductor. Angewandte Chemie - International Edition, 2013, 52, 9853-9857.	7.2	37
32	Spin gap in malachite Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>(OH)<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>CO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow	1.1	42
33	Magnetism of Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>X</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>frustrated chains (<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML") Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 172 Td (disp 2013, 87,	1.1	24
34	Square-lattice magnetism of diaboleite Pb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Cu(OH)<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>Cl<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow	1.1	23
35	display="inline"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:m nanomagnet Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>5</mml:mn></mml:msub></mml:math>(OH)<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"	1.1	20
36	Electronic structure of KTi(SO4)2Â·H2O: AnS=12frustrated chain antiferromagnet. Physical Review B, 2013, 88, .	1.1	5

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37	Energy scales of spin dimers in clinoclase Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>(AsO<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td (xmlns:m	1.1	18
38	Decorated Shastry-Sutherland lattice in the spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:math>magnet CdCu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow		

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55	Intrinsic peculiarities of real material realizations of a spin-1/2 kagomÃ© lattice. Journal of Physics: Conference Series, 2009, 145, 012008.	0.3	11
56	Modified Kagome Physics in the Natural Spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:math>Kagome Lattice Systems: Kapellasite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Cu</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi>Zn</mml:mi><mml:mo xmlns:mml="http://www.w3.org/1998/Math/MathML"></mml:msub><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 677 Td (stretchy="fa display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^•</mml:mo><mml:mn>2</mml:mn></mml:mrow></mml:math>Hei magnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">	1.1	26
58	Cu^{II} materialsâ€”From crystal chemistry to magnetic model compounds. Science and Technology of Advanced Materials, 2007, 8, 352-356.	2.8	5
59	Electronic structure and magnetic properties of Bi2CuO4. Physica C: Superconductivity and Its Applications, 2007, 460-462, 458-459.	0.6	8