

# Oleg Janson

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Nickelate superconductors – a renaissance of the one-band Hubbard model. Npj Quantum Materials, 2020, 5, .	1.8	129
2	Multistep Approach to Microscopic Models for Frustrated Quantum Magnets: The Case of the Natural Mineral Azurite. Physical Review Letters, 2011, 106, 217201.	2.9	109
3	The quantum nature of skyrmions and half-skyrmions in Cu <sub>2</sub> OSeO <sub>3</sub> . Nature Communications, 2014, 5, 5376.	5.8	108
4	A spin- $\frac{1}{2}$ Kagome Lattice System: Kapellasite. Physical Review B, 2010, 82, .	1.1	84
5	Lattice Systems: Kapellasite. Physical Review B, 2010, 82, .	2.9	72
6	Bridging frustrated-spin-chain and spin-ladder physics: Quasi-one-dimensional magnetism of BiCu <sub>2</sub> PO <sub>6</sub> . Physical Review B, 2010, 82, .	1.1	54
7	Quantum Anomalous Hall State in Ferromagnetic SrRuO <sub>3</sub> (111) Bilayers. Physical Review Letters, 2017, 119, 026402.	2.9	47
8	Magnetic Behavior of Volborthite. Physical Review B, 2006, 73, 035106.	2.9	47
9	Long-range superexchange in Cu <sub>2</sub> O. Physical Review B, 2006, 73, 035106.	1.1	42
10	Long-range superexchange in Cu <sub>2</sub> O. Physical Review B, 2006, 73, 035106.		



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37	Nearly compensated exchange in the dimer compound callaghanite $\text{Cu}_2\text{Mg}_2(\text{CO}_3)(\text{OH})_6 \cdot 2\text{H}_2\text{O}$ . <i>Physical Review B</i> , 2014, 89, .	1.1	15
38	$\text{CoBi}_3$ – the first binary compound of cobalt with bismuth: high-pressure synthesis and superconductivity. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 395701.	0.7	15
39	Frustration enhanced by Kitaev exchange in a $\text{CaCu}_2\text{O}_7$ kagome antiferromagnet. <i>Physical Review B</i> , 2021, 104, .	1.1	15
40	Operation Mechanism in Hybrid $\text{Mg-Li}$ Batteries with $\text{TiNb}_2\text{O}_7$ Allowing Stable High-Rate Cycling. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 6309-6321.	1.1	14
41	Electronic structure and magnetic properties of the spin-gap compound $\text{Cu}_2(\text{PO}_3)_2\text{CH}_2$ : Magnetic versus structural dimers. <i>Physical Review B</i> , 2010, 81, .	4.0	13
42	Intrinsic peculiarities of real material realizations of a spin-1/2 kagome lattice. <i>Journal of Physics: Conference Series</i> , 2009, 145, 012008.	1.1	12
43	Electronic and magnetic state of epitaxially strained $\text{SrTiO}_3$ : Effect of local correlation and nonlocal exchange. <i>Physical Review B</i> , 2019, 100, .	0.3	11
44	How correlations change the magnetic structure factor of the kagome Hubbard model. <i>Physical Review B</i> , 2021, 104, .	1.1	11
45	Magnetoelastic couplings in the deformed kagome quantum spin lattice of volborthite. <i>Physical Review B</i> , 2019, 99, .	1.1	9
46	Electronic structure and magnetic properties of $\text{Bi}_2\text{CuO}_4$ . <i>Physica C: Superconductivity and Its Applications</i> , 2007, 460-462, 458-459.	0.6	8
47	Short-range order of Br and three-dimensional magnetism in $(\text{CuBr})\text{LaNb}_2\text{O}_7$ . <i>Physical Review B</i> , 2012, 85, .	1.1	7
48	Interplay of magnetic sublattices in langite $\text{Cu}_4(\text{OH})_6\text{SO}_4 \cdot 2\text{H}_2\text{O}$ . <i>New Journal of Physics</i> , 2016, 18, 033020.	1.1	7
49	Anisotropic field-induced gap in the quasi-one-dimensional antiferromagnet $\text{KCuMoO}_4$ . <i>Physical Review B</i> , 2017, 96, .	1.2	7
50	Finite-temperature phase diagram of (111) nickelate bilayers. <i>Physical Review B</i> , 2018, 98, .	1.1	6
51	Destruction of long-range magnetic order in an external magnetic field and the associated spin dynamics in $\text{Cu}_2$ materials. <i>Physical Review B</i> , 2021, 103, .	1.1	6
52	$\text{Cu}^{\text{II}}$ materials – From crystal chemistry to magnetic model compounds. <i>Science and Technology of Advanced Materials</i> , 2007, 8, 352-356.	2.8	5
53	Electronic structure of $\text{KTi}(\text{SO}_4)_2 \cdot \text{H}_2\text{O}$ : An $S=1/2$ frustrated chain antiferromagnet. <i>Physical Review B</i> , 2013, 88, .	1.1	5

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55	Ground state and low-temperature magnetism of the quasi-two-dimensional honeycomb compound $\text{InCu}_2\text{VO}_3$ . Physical Review B, 2019, 100, .	1.1	5
56	<i>Ab initio</i> based ligand field approach to determine electronic multiplet properties. Physical Review B, 2021, 104, .	1.1	5
57	Buckled Honeycomb Lattice Compound $\text{Sr}_3\text{CaO}_9$ Exhibiting Antiferromagnetism above Room Temperature. Chemistry of Materials, 2022, 34, 4741-4750.	3.2	3
58	Interplay of electron correlations, spin-orbit couplings, and structural effects for Cu centers in the quasi-two-dimensional magnet $\text{InCu}_2\text{V}_1/3\text{O}_3$ . Physical Review B, 2020, 102, .	1.1	1
59	Dynamical Mean Field Theory for Oxide Heterostructures. Springer Series in Materials Science, 2018, , 215-243.	0.4	0