

Oleg Janson

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56

papers

1,168

citations

21

h-index

32

g-index

60

ext. papers

1,416

ext. citations

4.3

avg, IF

4.28

L-index

#	Paper	IF	Citations
56	Phase Diagram of Nickelate Superconductors Calculated by Dynamical Vertex Approximation. <i>Frontiers in Physics</i> , 2022 , 9,	3.9	4
55	Different types of spin currents in the comprehensive materials database of nonmagnetic spin Hall effect. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	1
54	How correlations change the magnetic structure factor of the kagome Hubbard model. <i>Physical Review B</i> , 2021 , 104,	3.3	2
53	Operation Mechanism in Hybrid Mg-Li Batteries with TiNbO Allowing Stable High-Rate Cycling. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 6309-6321	9.5	10
52	Ab initio based ligand field approach to determine electronic multiplet properties. <i>Physical Review B</i> , 2021 , 104,	3.3	1
51	Frustration enhanced by Kitaev exchange in a $J_{\text{eff}}=12$ triangular antiferromagnet. <i>Physical Review B</i> , 2021 , 104,	3.3	2
50	Nickelate superconductors—renaissance of the one-band Hubbard model. <i>Npj Quantum Materials</i> , 2020 , 5,	5	52
49	Ground state and low-temperature magnetism of the quasi-two-dimensional honeycomb compound $\text{InCu}_2\text{V}_1\text{O}_3$. <i>Physical Review B</i> , 2019 , 100,	3.3	1
48	Magnetoelastic couplings in the deformed kagome quantum spin lattice of volborthite. <i>Physical Review B</i> , 2019 , 99,	3.3	3
47	Electronic and magnetic state of LaMnO_3 epitaxially strained on SrTiO_3 : Effect of local correlation and nonlocal exchange. <i>Physical Review B</i> , 2019 , 100,	3.3	6
46	Dynamical Mean Field Theory for Oxide Heterostructures. <i>Springer Series in Materials Science</i> , 2018 , 215-243	3.3	3
45	Finite-temperature phase diagram of (111) nickelate bilayers. <i>Physical Review B</i> , 2018 , 98,	3.3	5
44	Frustrated spin chain physics near the Majumdar-Ghosh point in szenicsite $\text{Cu}_3(\text{MoO}_4)(\text{OH})_4$. <i>Physical Review B</i> , 2017 , 95,	3.3	12
43	Anisotropic field-induced gap in the quasi-one-dimensional antiferromagnet $\text{KCuMoO}_4(\text{OH})$. <i>Physical Review B</i> , 2017 , 96,	3.3	5
42	Quantum Anomalous Hall State in Ferromagnetic SrRuO_3 (111) Bilayers. <i>Physical Review Letters</i> , 2017 , 119, 026402	7.4	43
41	Magnetic Behavior of Volborthite $\text{Cu}_3\text{V}_2\text{O}_7(\text{OH})_2 \cdot 2\text{H}_2\text{O}$ Determined by Coupled Trimers Rather than Frustrated Chains. <i>Physical Review Letters</i> , 2016 , 117, 037206	7.4	31
40	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	7.4	4

39	Magnetic anisotropy in the frustrated spin-chain compound MnVO_4 . <i>Physical Review B</i> , 2016 , 94,	3.3	18
38	Intermetallic germanides with non-centrosymmetric structures derived from the $\text{Yb}_3\text{Rh}_4\text{Sn}_{13}$ type. <i>Dalton Transactions</i> , 2015 , 44, 5638-51	4.3	13
37	Consequences of critical interchain couplings and anisotropy on a Haldane chain. <i>Physical Review B</i> , 2015 , 91,	3.3	14
36	The quantum nature of skyrmions and half-skyrmions in Cu_2OSeO_3 . <i>Nature Communications</i> , 2014 , 5, 5376	17.4	79
35	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	1.8	14
34	Microscopic magnetic modeling for the $S=12$ alternating-chain compounds $\text{Na}_3\text{Cu}_2\text{SbO}_6$ and $\text{Na}_2\text{Cu}_2\text{TeO}_6$. <i>Physical Review B</i> , 2014 , 89,	3.3	22
33	Magnetic pyroxenes $\text{LiCrGe}_2\text{O}_6$ and $\text{LiCrSi}_2\text{O}_6$: Dimensionality crossover in a nonfrustrated $S=32$ Heisenberg model. <i>Physical Review B</i> , 2014 , 90,	3.3	11
32	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,	3.3	13
31	Crystal structures and variable magnetism of $\text{PbCu}_2(\text{XO}_3)_2\text{Cl}_2$ with $X = \text{Se}, \text{Te}$. <i>Dalton Transactions</i> , 2013 , 42, 9547-54	4.3	31
30	Structure and magnetism of $\text{Cr}_2[\text{BP}_3\text{O}_{12}]$: Towards the quantum-classical crossover in a spin-32 alternating chain. <i>Physical Review B</i> , 2013 , 87,	3.3	11
29	CoBi_3 : a binary cobalt-bismuth compound and superconductor. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9853-7	16.4	33
28	Spin gap in malachite $\text{Cu}_2(\text{OH})_2\text{CO}_3$ and its evolution under pressure. <i>Physical Review B</i> , 2013 , 88,	3.3	34
27	Magnetism of CuX_2 frustrated chains ($X = \text{F}, \text{Cl}, \text{Br}$): Role of covalency. <i>Physical Review B</i> , 2013 , 87,	3.3	18
26	Square-lattice magnetism of diabolite $\text{Pb}_2\text{Cu}(\text{OH})_4\text{Cl}_2$. <i>Physical Review B</i> , 2013 , 87,	3.3	20
25	Magnetization and spin dynamics of the spin $S=12$ hourglass nanomagnet $\text{Cu}_5(\text{OH})_2(\text{NIPA})_4 \cdot 10\text{H}_2\text{O}$. <i>Physical Review B</i> , 2013 , 87,	3.3	15
24	Electronic structure of $\text{KTi}(\text{SO}_4)_2 \cdot \text{H}_2\text{O}$: An $S=12$ frustrated chain antiferromagnet. <i>Physical Review B</i> , 2013 , 88,	3.3	3
23	Two energy scales of spin dimers in clinoclase $\text{Cu}_3(\text{AsO}_4)(\text{OH})_3$. <i>Physical Review B</i> , 2013 , 87,	3.3	15
22	Decorated Shastry-Sutherland lattice in the spin-12 magnet $\text{CdCu}_2(\text{BO}_3)_2$. <i>Physical Review B</i> , 2012 , 85,	3.3	20

21	Short-range order of Br and three-dimensional magnetism in (CuBr)LaNb ₂ O ₇ . <i>Physical Review B</i> , 2012 , 85,	3-3	7
20	Magnetic properties of the low-dimensional spin-12 magnet $\sqrt{3}\times\sqrt{3}\times 2$ -Cu ₂ As ₂ O ₇ . <i>Physical Review B</i> , 2011 , 84,	3-3	21
19	Magnetic model for A ₂ CuP ₂ O ₇ (A=Na, Li): One-dimensional versus two-dimensional behavior. <i>Physical Review B</i> , 2011 , 84,	3-3	21
18	CaCu ₂ (SeO ₃) ₂ Cl ₂ : Spin-12 Heisenberg chain compound with complex frustrated interchain couplings. <i>Physical Review B</i> , 2011 , 83,	3-3	11
17	Long-range superexchange in Cu ₂ A ₂ O ₇ (A= P, As, V) as a key element of the microscopic magnetic model. <i>Physical Review B</i> , 2011 , 83,	3-3	30
16	Multistep approach to microscopic models for frustrated quantum magnets: the case of the natural mineral azurite. <i>Physical Review Letters</i> , 2011 , 106, 217201	7-4	95
15	Unusual ferromagnetic superexchange in CdVO ₃ : The role of Cd. <i>Physical Review B</i> , 2011 , 84,	3-3	18
14	J ₁ J ₂ Heisenberg model at and close to its z=4 quantum critical point. <i>Physical Review B</i> , 2011 , 84,	3-3	25
13	Electronic structure and magnetic properties of the spin-gap compound Cu ₂ (PO ₃) ₂ CH ₂ : Magnetic versus structural dimers. <i>Physical Review B</i> , 2010 , 81,	3-3	11
12	Coupled frustrated quantum spin-12 chains with orbital order in volborthite Cu ₃ V ₂ O ₇ (OH) ₂ ·2H ₂ O. <i>Physical Review B</i> , 2010 , 82,	3-3	35
11	Antiferromagnetic spin-12 chains in (NO)Cu(NO ₃) ₃ : A microscopic study. <i>Physical Review B</i> , 2010 , 82,	3-3	14
10	$\sqrt{3}\times\sqrt{3}\times 2$ -Cu ₂ V ₂ O ₇ : A spin-12 honeycomb lattice system. <i>Physical Review B</i> , 2010 , 82,	3-3	74
9	Large quantum fluctuations in the strongly coupled spin-12 chains of green diopside Cu ₆ Si ₆ O ₁₈ ·6H ₂ O. <i>Physical Review B</i> , 2010 , 82,	3-3	27
8	Bridging frustrated-spin-chain and spin-ladder physics: Quasi-one-dimensional magnetism of BiCu ₂ PO ₆ . <i>Physical Review B</i> , 2010 , 82,	3-3	47
7	Crystal-water-induced switching of magnetically active orbitals in CuCl ₂ . <i>Physical Review B</i> , 2009 , 79,	3-3	22
6	Electronic structure and magnetic properties of the spin-1/2 Heisenberg system CuSe ₂ O ₅ . <i>New Journal of Physics</i> , 2009 , 11, 113034	2-9	34
5	Intrinsic peculiarities of real material realizations of a spin-1/2 kagome lattice. <i>Journal of Physics: Conference Series</i> , 2009 , 145, 012008	0-3	9
4	Modified kagome physics in the natural spin-1/2 kagome lattice systems: kapellasite Cu ₃ Zn(OH) ₆ Cl ₂ and haydeite Cu ₃ Mg(OH) ₆ Cl ₂ . <i>Physical Review Letters</i> , 2008 , 101, 106403	7-4	63

3	Cull materials from crystal chemistry to magnetic model compounds. <i>Science and Technology of Advanced Materials</i> , 2007 , 8, 352-356	7.1	5
2	Electronic structure and magnetic properties of Bi ₂ CuO ₄ . <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 460-462, 458-459	1.3	8
1	Electronic structure and magnetic properties of the spin-1 Heisenberg magnet Bi ₂ CuO ₄ . <i>Physical Review B</i> , 2007 , 76,	3.3	25