

Quantum magnetism in minerals

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Magnetic ground state and magnetic excitations in black diopside $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{Cu} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 6 \langle \text{mml:mn} \rangle \langle \text{mml:mn} \rangle 18 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle .$ Physical Review B, 2019, 100, .	1.1	4
2	Order-disorder transition in the $S = \frac{1}{2}$ kagome antiferromagnets claringbullite and barlowite. Chemical Communications, 2019, 55, 11587-11590.	2.2	12
3	La- and Lu-agardite preparation, crystal structure, vibrational and magnetic properties. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2020, 75, 191-199.	0.3	1
4	Pressure-Induced Collapse of Magnetic Order in Jarosite. Physical Review Letters, 2020, 125, 077202.	2.9	3
5	Magnetic hexamers interacting in layers in the $(\text{Na,K})_2\text{Cu}_3\text{O}(\text{SO}_4)_3$ minerals. Physical Review B, 2020, 102, .	1.1	11
6	Quantum spin liquid candidate $\text{YCu}_3(\text{OH})_6\text{Br}_2[\text{Br}(\text{OH})_1]^{x \sim 0.51}$: With an almost perfect kagomé layer. Journal of Magnetism and Magnetic Materials, 2020, 512, 167066.	1.0	12
7	Effects of Dzyaloshinskii-Moriya Interactions in Volborthite: Magnetic Orders and Thermal Hall Effect. Journal of the Physical Society of Japan, 2020, 89, 034711.	0.7	4
8	Spin-coupling topology in the copper hexamer compounds $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{A} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \langle \text{mml:mo} \rangle \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{SO} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} .$ Physical Review B, 2020, 101, .	1.1	7
9	Synthesis, structure, and electronic properties of the $\text{Li}_{11}\text{RbGd}_4\text{Te}_6\text{O}_{30}$ single crystal. RSC Advances, 2020, 10, 11450-11454.	1.7	0
10	Magnonic analog of the Edelstein effect in antiferromagnetic insulators. Physical Review B, 2020, 101, .	1.1	10
11	Crystal structure and magnetic properties of the magnetically isolated zigzag chain in $\text{KGaCu}(\text{PO}_4)_2$. Dalton Transactions, 2021, 50, 7835-7842.	1.6	4
12	High-field spin-flop state in green diopside. Physical Review B, 2021, 103, .	1.1	2
13	First-principles characterization of the magnetic properties of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{Cu} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \langle \text{mml:mo} \rangle \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{O} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} .$ Physical Review Materials, 2021, 5, .	1.2	4
14	Francisites as new geometrically frustrated quasi-two-dimensional magnets. Physics-Uspekhi, 2021, 64, 344-356.	0.8	8
15	Low-dimensional magnetism of $\text{BaCuTe}_2\text{O}_6$. Physical Review B, 2021, 103, .	1.1	9
16	Calculated magnetic exchange interactions in brownmillerite $\text{Ca}_2\text{Fe}_2\text{O}_5$. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 394, 127202.	0.9	8
17	Changes in CO_2 Adsorption Affinity Related to Ni Doping in FeS Surfaces: A DFT-D3 Study. Catalysts, 2021, 11, 486.	1.6	6
18	Magnetization Process of Atacamite: A Case of Weakly Coupled $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \langle \text{mml:mi} \rangle S \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \text{stretchy="false"} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ Sawtooth Chains. Physical Review Letters, 2021, 126, 207201.	2.9	16

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19	Probing Phase Transitions and Magnetism in Minerals with Neutrons. Elements, 2021, 17, 181-188.	0.5	5
20	Stripe-yz magnetic order in the triangular-lattice antiferromagnet KCeS_2 . Journal of Physics Condensed Matter, 2021, 33, 425802.	0.7	7
21	Multiple field-induced phases in the frustrated triangular magnet CsMnCl_3 . Physical Review B, 2021, 104, .		
22	Crystal chemistry criteria of the existence of spin liquids on the kagome lattice. Journal of Physics Condensed Matter, 2021, 33, 415801.	0.7	2
23	High-throughput design of magnetic materials. Electronic Structure, 2021, 3, 033001.	1.0	23
24	Destruction of long-range magnetic order in an external magnetic field and the associated spin dynamics in Cu_2O and $\text{Cu}_2\text{VO}_4\text{Cl}_2$. Physical Review B, 2021, 104, .	1.1	6
25	$\text{Cu}_9\text{O}_2(\text{VO}_4)_4\text{Cl}_2$, the First Copper Oxychloride Vanadate: Mineralogically Inspired Synthesis and Magnetic Behavior. Inorganic Chemistry, 2020, 59, 2136-2143.	1.9	17
26	Engelhauptite: A variant of S_2O_7 kagome antiferromagnet. Physical Review Materials, 2019, 3, .	0.9	3
27	Multiferroic properties of melanothallite Cu_2O . Physical Review Materials, 2019, 3, .		
28	Single crystal growth and structural, magnetic, and magnetoelectric properties in spin-frustrated bow-tie lattice of $\text{Cu}_5\text{O}_2(\text{SeO}_3)_2\text{Cl}_2$. Materials Advances, 2021, 2, 7939-7948.	2.6	4
29	Low-energy quantum fluctuations and frustrated magnetism in rare-earth-based Shastry-Sutherland lattices: Insights on the CaCo_2Al_8 structure type antiferromagnets. Materials Today Physics, 2021, 21, 100552.	2.9	5
30	Quantum spin fluctuations and hydrogen bond network in the antiferromagnetic natural mineral henmilitite. Physical Review Materials, 2021, 5, .	0.9	3
31	Band-Mott mixing hybridizes the gap in Fe_2O_8 . Physical Review B, 2021, 104, .	1.1	8
32	Imbalanced spin coupling in the copper hexamer compounds A_2O_8 .		

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37	Nonstoichiometric Ellenbergerite-Type Phosphates: Hydrothermal Synthesis, Crystal Chemistry, and Magnetic Behavior. <i>Inorganic Chemistry</i> , 2022, 61, 4879-4886.	1.9	5
38	$\text{Na}_5\text{O}_{36} : \text{An}$ Physical Review B, 2022, 105, .	1.1	2
39	Breakdown of linear spin-wave theory and existence of spinon bound states in the frustrated kagome-lattice antiferromagnet. <i>Physical Review B</i> , 2022, 105, .	1.1	3
40	Novel first-row transition-metal phosphates: hydrothermal synthesis and crystal structures. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2022, 78, 287-294.	0.2	0
41	Thermodynamics of the spin-half square kagome lattice antiferromagnet. <i>Physical Review B</i> , 2022, 105, .	1.1	18
42	Spin-lattice-charge coupling in quasi-one-dimensional spin-chain NiTe_2O_5 . Physical Review Materials, 2022, 6, .	0.9	5
43	Magnetic frustration-driven ground state properties of rare-earth magnetic ions on a breathing kagome lattice: a review of the $\text{Gd}_3\text{Ru}_4\text{Al}_{12}$ structure type magnets. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2023, 48, 480-501.	6.8	3
44	Possible realization of the Majumdar-Ghosh point in the mineral szenicsite. <i>Physical Review B</i> , 2022, 105, .	1.1	0
45	Quantum Heisenberg model on a sawtooth-chain lattice: rotation-invariant Green's function method. <i>European Physical Journal B</i> , 2022, 95, .	0.6	2
46	Quasi-one-dimensional mineral antlerite $\text{Cu}_3\text{SO}_4(\text{OH})$ Multiple strongly coupled antiferromagnetic spin $S=1/2$ dimers in lironconite $\text{Cu}_2\text{Al}(\text{As,P})\text{O}_4(\text{OH}) \cdot 4\text{H}_2\text{O}$. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2022, 237, 403-415.	1.1	2
47	Multiple strongly coupled antiferromagnetic spin $S=1/2$ dimers in lironconite $\text{Cu}_2\text{Al}(\text{As,P})\text{O}_4(\text{OH}) \cdot 4\text{H}_2\text{O}$. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2022, 237, 403-415.	0.4	0
48	Chemical Vapor Transport Synthesis of $\text{Cu}(\text{VO})_2(\text{AsO})_4$ With Two Distinct Spin-1/2 Magnetic Ions. <i>Inorganic Chemistry</i> , 2022, 61, 16539-16548.	1.9	3
49	Unifying Kitaev Magnets, Kagomé Dimer Models, and Ruby Rydberg Spin Liquids. <i>Physical Review X</i> , 2022, 12, .	1.1	1
50	Magnetic properties and coupled spin-phonon behavior in quasi-one-dimensional screw-chain compound $\text{BaMn}_2\text{V}_2\text{O}_8$. Physical Review Materials, 2023, 7, .	2.8	8
51	Physical Review Materials, 2023, 7, .	0.9	3