

R H Colman

List of Publications by Year in descending order

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papers

970
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42
all docs

42
docs citations

42
times ranked

1087
citing authors

#	ARTICLE	IF	CITATIONS
1	Kapellasite: A Kagome Quantum Spin Liquid with Competing Interactions. Physical Review Letters, 2012, 109, 037208.	7.8	201
2	Optimized unconventional superconductivity in a molecular Jahn-Teller metal. Science Advances, 2015, 1, e1500059.	10.3	98
3	Toward Perfection: Kapellasite, $\text{Cu}_3\text{Zn}(\text{OH})_6\text{Cl}_2$, a New Model $S = 1/2$ Kagome Antiferromagnet. Chemistry of Materials, 2008, 20, 6897-6899.	6.7	76
4	Magnetic and Crystallographic Studies of Mg-Herbertsmithite, $\text{I}^3\text{-Cu}_3\text{Mg}(\text{OH})_6\text{Cl}_2$ A New $S = 1/2$ Kagome Magnet and Candidate Spin Liquid. Chemistry of Materials, 2011, 23, 1811-1817.	6.7	56
5	Comparisons between Haydeeite, $\text{I}^\pm\text{-Cu}_3\text{Mg}(\text{OD})_6\text{Cl}_2$, and Kapellasite, $\text{I}^\pm\text{-Cu}_3\text{Zn}(\text{OD})_6\text{Cl}_2$, Isostructural $S = 1/2$ Kagome Magnets. Chemistry of Materials, 2010, 22, 5774-5779.	3.2	56
6	Spin dynamics and disorder effects in the Heisenberg spin-liquid phase of kapellasite. Physical Review B, 2014, 90, .	6.7	52
7	Ground state and intrinsic susceptibility of the kagome antiferromagnet vesignieite as seen by ^1H NMR. Physical Review B, 2011, 84, .	3.2	44
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9			

#	ARTICLE	IF	CITATIONS
19	Rapid floating zone growth of NiMnGa single crystals exhibiting magnetic shape memory functionality. <i>Journal of Alloys and Compounds</i> , 2019, 775, 533-541.	5.5	11
20	IrSr ₂ Sm _{1.15} Ce _{0.85} Cu _{2.175} O ₁₀ : A reentrant spin-glass material. <i>Physical Review B</i> , 2012, 85, .	3.2	10
21	Synthesis of Er ₂ Ir ₂ O ₇ pyrochlore iridate by solid-state-reaction and CsCl flux method. <i>Materials Chemistry and Physics</i> , 2021, 258, 123868.	4.0	10
22	A variable temperature synchrotron X-ray diffraction study of the ferroelastic double perovskite Ba ₂ GdMoO ₆ . <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8672.	2.8	9
23	Systematic search for new Co ₂ YZ and Rh ₂ YZ Heusler alloys based on theoretical calculations. <i>Intermetallics</i> , 2021, 130, 107060.	3.9	9
24	Systematic experimental search for Fe ₂ YZ Heusler compounds predicted by ab-initio calculation. <i>Intermetallics</i> , 2021, 131, 107073.	3.9	9
25	Electrical transport properties of bulk tetragonal CuMnAs. <i>Physical Review Materials</i> , 2020, 4, .	2.4	9
26	Accessing new 2D semiconductors with optical band gap: synthesis of iron-intercalated titanium diselenide thin films <i>via</i> LPCVD. <i>RSC Advances</i> , 2018, 8, 22552-22558.	3.6	8
27	The stability and physical properties of the tetragonal phase of bulk CuMnAs antiferromagnet. <i>Journal of Alloys and Compounds</i> , 2019, 771, 680-685.	5.5	8
28	Iron-Intercalated Zirconium Diselenide Thin Films from the Low-Pressure Chemical Vapor Deposition of [Fe ⁵⁺ -C ₅ H ₄ Se] ₂ Zr ⁵⁺ -C ₅ H ₅] ₂ . <i>ACS Omega</i> , 2020, 5, 15799-15804.	3.5	7
29	Spin-Glass State in Defect-Fluorite Er ₂ Zr ₂ O ₇ . <i>Acta Physica Polonica A</i> , 2020, 137, 750-752.	0.5	7
30	Elusive Valence Transition in Mixed-Valence Sesquioxide Cs ₄ O ₆ . <i>Inorganic Chemistry</i> , 2019, 58, 14532-14541.	4.0	6
31	Characterization, specific heat and magnetization measurements on Ni ₂ YZ Heusler alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 513, 167083.	2.3	6
32	Low temperature magnetic structure of the quasi 1-dimensional magnet Ni ₂ SiO ₄ . <i>Journal of Physics: Conference Series</i> , 2009, 145, 012037.	0.4	2
33	Synthesis of face-centred cubic Cs ₃ C ₆₀ in THF. <i>Faraday Discussions</i> , 2014, 173, 95-103.	3.2	2
34	Synthesis and characterisation of Fe-substituted Ni ₅₀ Mn ₂₅ Fe ₂₅ Ga ₂₅ - single crystals Development of the phase transformations with Fe content. <i>Journal of Alloys and Compounds</i> , 2022, 908, 164543.	5.5	2
35	Spin dynamics in IrSr ₂ Sm _{1.15} Ce _{0.85} Cu ₂ O ₁₀ : Complex magnetic behavior in a layered iridocuprate. <i>Physical Review B</i> , 2013, 88, .	3.2	1
36	Pressure-induced Mott-insulator metal crossover at ambient temperature in an overexpanded fulleride. <i>Materials Chemistry Frontiers</i> , 2018, 2, 993-998.	5.9	1

#	ARTICLE	IF	CITATIONS
37	Evolution of magnetic and structural phase transitions in solid solutions Ni ₂ MnGa _{1-x} Ge _x . Journal of Alloys and Compounds, 2022, 894, 162441.	5.5	1
38	Pressure-Induced Charge Disorder-Order Transition in the Cs ₄ O ₆ Sesquioxide. Inorganic Chemistry, 2020, 59, 1256-1264.	4.0	0
39	Pressure effects on the crystal structure of the cubic metallofullerene salt [Li@C ₆₀][PF ₆] to 12 GPa. Materials Today Communications, 2022, 31, 103275.	1.9	0