

R H Colman

List of Publications by Year in descending order

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papers

970
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623734

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42
docs citations

42
times ranked

1087
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Pressure effects on the crystal structure of the cubic metallofullerene salt [Li@C ₆₀][PF ₆] to 12 ÅGPa. Materials Today Communications, 2022, 31, 103275.	1.9	0
3	Synthesis and characterisation of Fe-substituted Ni ₅₀ Mn ₂₅ Fe ₂₅ Ga ₂₅ - single crystals Development of the phase transformations with Fe content. Journal of Alloys and Compounds, 2022, 908, 164543.	5.5	2
4	Synthesis of Er ₂ Ir ₂ O ₇ pyrochlore iridate by solid-state-reaction and CsCl flux method. Materials Chemistry and Physics, 2021, 258, 123868.	4.0	10
5	Systematic search for new Co ₂ YZ and Rh ₂ YZ Heusler alloys based on theoretical calculations. Intermetallics, 2021, 130, 107060.	3.9	9
6	Systematic experimental search for Fe ₂ YZ Heusler compounds predicted by ab-initio calculation. Intermetallics, 2021, 131, 107073.	3.9	9
7	Full Variation of Site Substitution in Ni-Mn-Ga by Ferromagnetic Transition Metals. Metals, 2021, 11, 850.	2.3	12
8	Effect of crystal quality on twinning stress in Ni ₅₀ Mn ₂₅ Ga magnetic shape memory alloys. Journal of Materials Research and Technology, 2021, 14, 1934-1944.	5.8	17
9	Pressure-Induced Charge Disorder Order Transition in the Cs ₄ O ₆ Sesquioxide. Inorganic Chemistry, 2020, 59, 1256-1264.	4.0	0
10	Magnetic properties and crystal field splitting of the rare-earth pyrochlore Er ₂ O ₇ . Physical Review B, 2020, 102, .	3.2	12
11	Characterization, specific heat and magnetization measurements on Ni ₂ YZ Heusler alloys. Journal of Magnetism and Magnetic Materials, 2020, 513, 167083.	2.3	6
12	Systematic Trends of Transformation Temperatures and Crystal Structure of Ni ₅₀ Mn ₂₅ Ga ₂₅ Fe _x Cu _{1-x} Alloys. Shape Memory and Superelasticity, 2020, 6, 97-106.	2.2	12
13	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 . ACS Omega, 2020, 5, 15799-15804.	3.5	7
14	Fe ₂ MnSn Experimental quest for predicted Heusler alloy. Journal of Magnetism and Magnetic Materials, 2020, 501, 166426.	2.3	14
15	Electrical transport properties of bulk tetragonal CuMnAs. Physical Review Materials, 2020, 4, .	2.4	9
16	Spin-Glass State in Defect-Fluorite Er ₂ Zr ₂ O ₇ . Acta Physica Polonica A, 2020, 137, 750-752.	0.5	7
17	Elusive Valence Transition in Mixed-Valence Sesquioxide Cs ₄ O ₆ . Inorganic Chemistry, 2019, 58, 14532-14541.	4.0	6
18	Evidence for spin-glass ground state in fluorite-defect Er ₂ Zr ₂ O ₇ . Physical Review B, 2019, 100, 104407.	3.2	19

#	ARTICLE	IF	CITATIONS
19	The stability and physical properties of the tetragonal phase of bulk CuMnAs antiferromagnet. Journal of Alloys and Compounds, 2019, 771, 680-685.	5.5	8
20	Rapid floating zone growth of Ni ₂ MnGa single crystals exhibiting magnetic shape memory functionality. Journal of Alloys and Compounds, 2019, 775, 533-541.	5.5	11
21	Pressure-induced Mott-insulator-metal crossover at ambient temperature in an overexpanded fulleride. Materials Chemistry Frontiers, 2018, 2, 993-998.	5.9	1
22	Accessing new 2D semiconductors with optical band gap: synthesis of iron-intercalated titanium diselenide thin films via LPCVD. RSC Advances, 2018, 8, 22552-22558.	3.6	8
23	Redox-controlled potassium intercalation into two polyaromatic hydrocarbon solids. Nature Chemistry, 2017, 9, 644-652.	13.6	32
24	Upper critical field reaches 90 tesla near the Mott transition in fulleride superconductors. Nature Communications, 2017, 8, 14467.	12.8	21
25	Optimized unconventional superconductivity in a molecular Jahn-Teller metal. Science Advances, 2015, 1, e1500059.	10.3	98
26	Spin dynamics and disorder effects in the Heisenberg spin-liquid phase of kagellite. Physical Review B, 2014, 90, .	3.2	41
27	Synthesis of face-centred cubic Cs ₃ C ₆₀ in THF. Faraday Discussions, 2014, 173, 95-103.	3.2	2
28	A variable temperature synchrotron X-ray diffraction study of the ferroelastic double perovskite Ba ₂ GdMoO ₆ . Physical Chemistry Chemical Physics, 2013, 15, 8672.	2.8	9
29	Exchange energies of kagellite from high-temperature series analysis of the kagome lattice model. Physical Review B, 2013, 87, .	3.2	41
30	Spin dynamics in IrSr ₂ Sm _{1.15} Ce _{0.85} Cu ₂ O ₁₀ : Complex magnetic behavior in a layered iridocuprate. Physical Review B, 2013, 88, .	3.2	1
31	Kagellite: A Kagome Quantum Spin Liquid with Competing Interactions. Physical Review Letters, 2012, 109, 037208.	7.8	201
32	IrSr ₂ Sm _{1.15} Ce _{0.85} Cu ₂ O ₁₀ : A reentrant spin-glass material. Physical Review B, 2012, 85, .	3.2	10
33	Spin dynamics in the kagome compound vesignite, Cu ₃ VO ₅ . Physical Review B, 2012, 85, .	3.2	10

#	ARTICLE	IF	CITATIONS
37	Comparisons between Haydeeite, $\hat{I}_{\pm}\text{-Cu}_{3}\text{Mg}(\text{OD})_{6}\text{Cl}_{2}$, and Kapellasite, $\hat{I}_{\pm}\text{-Cu}_{3}\text{Zn}(\text{OD})_{6}\text{Cl}_{2}$, Isostructural $S = 1/2$ Kagome Magnets. Chemistry of Materials, 2010, 22, 5774-5779.	6.7	52
38	Low temperature magnetic structure of the quasi 1-dimensional magnet $\text{Ni}_{2}\text{SiO}_{4}$. Journal of Physics: Conference Series, 2009, 145, 012037.	0.4	2
39	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