

Binod K Rai

List of Publications by Year in descending order

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all docs

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888
citing authors

#	ARTICLE	IF	CITATIONS
1	Review on crystal structures and magnetic properties of RTX ₃ materials. Journal of Physics Condensed Matter, 2022, 34, 273002.	1.8	4
2	Van Hove singularity in the magnon spectrum of the antiferromagnetic quantum honeycomb lattice. Nature Communications, 2021, 12, 171.	12.8	24
3	Unconventional magnetic order emerging from competing energy scales in the new $R\text{Rh}$ intermetallics ($T_{\text{ETQq1}} = 1.0784314 \text{ K}$). Physical Review Materials, 2021, 5, .	3.2	11
4	Complex magnetic phases in the polar tetragonal intermetallic NdCoGe . Physical Review B, 2021, 103, .	3.2	11
5	Magnetism of Nd_2O_3 single crystals near the Néel temperature. Physical Review B, 2020, 102, .	3.2	0
6	Weakly coupled alternating $S=1$ chains in the distorted honeycomb lattice compound $\text{Na}_2\text{Mn}_2\text{O}_7$. Physical Review B, 2020, 102, .	3.2	11
7	Effect of Terbium Ion Substitution in Inverse Spinel Nickel Ferrite: Structural and Magnetic Study. Magnetochemistry, 2020, 6, 14.	2.4	17
8	Kondo-lattice ferromagnets and their peculiar order along the magnetically hard axis determined by the crystalline electric field. Physical Review B, 2019, 99, .	3.2	16
9	Ferromagnetic ordering along the hard axis in the Kondo lattice Yb_3Mn_3 . Physical Review B, 2019, 99, .	3.2	9
10	Low-carrier density and fragile magnetism in a Kondo lattice system. Physical Review B, 2019, 99, .	3.2	9
11	Crystal field splitting, local anisotropy, and low-energy excitations in the quantum magnet YbCl_3 . Physical Review B, 2019, 100, .	3.2	26
12	Influence of cobalt substitution on the magnetism of NiBr_2 . Physical Review Materials, 2019, 3, .	2.4	3
13	Complex transport and magnetism in inhomogeneous mixed valence Ce_3Mn_3 . Physical Review Materials, 2019, 3, .	3.2	8
14	A local moment antiferromagnetic metal with extremely low ordering temperature. Physical Review B, 2018, 98, .	8.9	12
15	Anomalous Metamagnetism in the Low Carrier Density Kondo Lattice YbRh_3 . Physical Review X, 2018, 8, .	3.3	9
16	Synthesis of Hexagonal FeMnP Thin Films from a Single-Source Molecular Precursor. Chemistry - A European Journal, 2017, 23, 5565-5572.	2.6	23
17	The proof is in the powder: revealing structural peculiarities in the $\text{Yb}_3\text{Rh}_4\text{Sn}_{13}$ structure type. CrystEngComm, 2017, 19, 3381-3391.	3.2	18
18	Intermediate valence to heavy fermion through a quantum phase transition in Yb_3Mn_3 . Physical Review B, 2016, 93, .		

#	ARTICLE	IF	CITATIONS
19	Synthesis and anisotropic properties of single crystalline Ln ₂ Ru ₃ Al ₁₅ + (Ln=Gd, Tb). Journal of Solid State Chemistry, 2016, 236, 186-194.	2.9	1
20	Structural and magnetic study of Al ³⁺ doped Ni _{0.75} Zn _{0.25} Fe ₂ ·xAl _x O ₄ nanoferrites. Materials Research Bulletin, 2015, 65, 183-194.	5.2	35
21	Intermediate valence in single crystals of (Lu _{1-x} Y _x) ₂ Ti ₂ O ₇ . Journal of Solid State Chemistry, 2015, 3, 041511.	5.1	8
22	Superconductivity in Single Crystals of Lu ₃ T ₄ Ge ₁₃ (T = Co, Rh, Os) and Y ₃ T ₄ Ge ₁₃ (T = Ir, Rh, Os). Chemistry of Materials, 2015, 27, 2488-2494.	6.7	29
23	Synthesis and Magnetic Properties of Hard-Soft SrFe ₁₀ Al ₂ O ₁₉ /NiZnFe ₂ O ₄ Ferrite Nanocomposites. Journal of Nanoscience and Nanotechnology, 2014, 14, 5272-5277.	5.5	115
24	A structural, magnetic, and Mössbauer study of the Dy ₂ Fe ₁₇ ·xNb _x solid solutions. Journal of Magnetism and Magnetic Materials, 2014, 353, 51-56.	2.3	3
25	Influence of RE ³⁺ co-substitution on the structure and magnetic properties of Sr _{0.82} RE _{0.18} Fe ₁₂ O ₁₉ (RE: La _{0.18} ·xPr _x) ferrites. Journal of Alloys and Compounds, 2013, 581, 275-281.	5.5	23
26	Magnetically enhanced hard-soft SmCo ₅ ·FeNi composites obtained via high energy ball milling and heat treatment. Journal of Magnetism and Magnetic Materials, 2013, 344, 211-216.	2.3	16
27	Synthesis and characterization of high coercivity rare-earth ion doped Sr _{0.9} RE _{0.1} Fe ₁₀ Al ₂ O ₁₉ (RE: Y, La.) Journal of Magnetism and Magnetic Materials, 2013, 344, 211-216.	5.5	115
28	Synthesis and properties of near infrared-absorbing magnetic-optical nanoparticles. Nanoscale, 2012, 4, 4939.	5.6	27
29	Facile Mechanochemical Synthesis and Magnetic Properties of perovskite YCr _x Fe _{1-x} O ₃ , (0 ≤ x ≤ 1). Materials Research Society Symposia Proceedings, 2012, 1397, 71.	0.1	1
30	Synergistic Effect of PVP and PEG on the Behavior of Silver Nanoparticle-Polymer Composites. Journal of Nanoscience and Nanotechnology, 2012, 12, 6389-6396.	0.9	12
31	Physical and magnetic properties of highly aluminum doped strontium ferrite nanoparticles prepared by auto-combustion route. Journal of Magnetism and Magnetic Materials, 2012, 324, 2602-2608.	2.3	143