

# Binod K Rai

## List of Publications by Year in descending order

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31  
papers

659  
citations

623734

14  
h-index

552781

26  
g-index

32  
all docs

32  
docs citations

32  
times ranked

888  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Synthesis and characterization of high coercivity rare-earth ion doped Sr <sub>0.9</sub> RE <sub>0.1</sub> Fe <sub>10</sub> Al <sub>2</sub> O <sub>19</sub> (RE: Y, La). Tj ETQq 0.0 rgBT / Overlock 115	9.5	115
3	Synthesis and Magnetic Properties of Hard-Soft SrFe <sub>10</sub> Al <sub>2</sub> O <sub>19</sub> /Al <sub>2</sub> O <sub>3</sub> /NiZnFe <sub>2</sub> O <sub>4</sub> /SrFe <sub>10</sub> Al <sub>2</sub> O <sub>19</sub> Ferrite Nanocomposites. Journal of Nanoscience and Nanotechnology, 2014, 14, 5272-5277.		
4	Structural and magnetic study of Al <sup>3+</sup> doped Ni <sub>0.75</sub> Zn <sub>0.25</sub> Fe <sub>2</sub> xAl <sub>x</sub> O <sub>4</sub> nanoferrites. Materials Research Bulletin, 2015, 65, 183-194.	5.2	35
5	Superconductivity in Single Crystals of Lu <sub>3</sub> T <sub>4</sub> Ge <sub>13</sub> (T = Co, Rh, Os) and Y <sub>3</sub> T <sub>4</sub> Ge <sub>13</sub> (T = Ir, Rh, Os). Chemistry of Materials, 2015, 27, 2488-2494.	6.7	29
6	Synthesis and properties of near infrared-absorbing magnetic-optical nanopins. Nanoscale, 2012, 4, 4939.	5.6	27
7	Crystal field splitting, local anisotropy, and low-energy excitations in the quantum magnet $\text{YbCl}_3$ . Physical Review B, 2019, 100, .	3.2	26
8	Van Hove singularity in the magnon spectrum of the antiferromagnetic quantum honeycomb lattice. Nature Communications, 2021, 12, 171.	12.8	24
9	Influence of RE <sup>3+</sup> co-substitution on the structure and magnetic properties of Sr <sub>0.82</sub> RE <sub>0.18</sub> Fe <sub>12</sub> O <sub>19</sub> (RE: La <sub>0.18</sub> xPrx) ferrites. Journal of Alloys and Compounds, 2013, 581, 275-281.	5.5	23
10	The proof is in the powder: revealing structural peculiarities in the Yb <sub>3</sub> Rh <sub>4</sub> Sn <sub>13</sub> structure type. CrystEngComm, 2017, 19, 3381-3391.	2.6	23
11	Intermediate valence to heavy fermion through a quantum phase transition in $\text{Yb}_3\text{Rh}_4\text{Sn}_{13}$ . Physical Review X, 2018, 8, .	3.2	18
12	Effect of Terbium Ion Substitution in Inverse Spinel Nickel Ferrite: Structural and Magnetic Study. Magnetochemistry, 2020, 6, 14.	2.4	17
13	Magnetically enhanced hard-soft SmCo <sub>5</sub> -FeNi composites obtained via high energy ball milling and heat treatment. Journal of Magnetism and Magnetic Materials, 2013, 344, 211-216.	2.3	16
14	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
15	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
16	Anomalous Metamagnetism in the Low Carrier Density Kondo Lattice $\text{YbRh}_3$ . Physical Review X, 2018, 8, .	8.9	12
17	Weakly coupled alternating chains in the distorted honeycomb lattice compound $\text{Na}_2\text{Mg}_2\text{M}_2\text{O}_{10}$ . Physical Review B, 2020, 102, .	3.2	11
18	Synthesis of Hexagonal FeMnP Thin Films from a Single-Source Molecular Precursor. Chemistry - A European Journal, 2017, 23, 5565-5572.	3.3	9

#	ARTICLE	IF	CITATIONS
19	Ferromagnetic ordering along the hard axis in the Kondo lattice $\text{YbIr}_2\text{P}_2\text{O}_{14}$ . Physical Review B, 2019, 99, .		
20	Low-carrier density and fragile magnetism in a Kondo lattice system. Physical Review B, 2019, 99, .	3.2	9
21	Intermediate valence in single crystals of $(\text{Lu}_{1-x}\text{Y})_2\text{TeO}_7$ . Physical Review B, 2015, 3, 041511.	5.1	8
22	A local moment antiferromagnetic metal with extremely low ordering temperature. Physical Review B, 2018, 98, .	3.2	8
23	Complex magnetic phases in the polar tetragonal intermetallic $\text{NdCoGe}$ . Physical Review B, 2021, 103, .		
24	Complex transport and magnetism in inhomogeneous mixed valence $\text{Ce}_3\text{Co}$ . Physical Review Materials, 2019, 3, .		
25	Review on crystal structures and magnetic properties of $\text{RTX}_3$ materials. Journal of Physics Condensed Matter, 2022, 34, 273002.	1.8	4
26	A structural, magnetic, and Mössbauer study of the $\text{Dy}_2\text{Fe}_{17-x}\text{Nb}_x$ solid solutions. Journal of Magnetism and Magnetic Materials, 2014, 353, 51-56.	2.3	3
27	Unconventional magnetic order emerging from competing energy scales in the new intermetallics $\text{R}_2\text{Rh}_2\text{TeO}_7$ . Physical Review Materials, 2021, 5, .		
28	Influence of cobalt substitution on the magnetism of $\text{NiBr}_2$ . Physical Review Materials, 2019, 3, .	2.4	3
29	Facile Mechanochemical Synthesis and Magnetic Properties of perovskite $\text{YCr}_x\text{Fe}_{1-x}\text{O}_3$ . Materials Research Society Symposia Proceedings, 2012, 1397, 71.	0.1	1
30	Synthesis and anisotropic properties of single crystalline $\text{Ln}_2\text{Ru}_3\text{Al}_{15+}$ (Ln=Gd, Tb). Journal of Solid State Chemistry, 2016, 236, 186-194.	2.9	1
31	Magnetism of $\text{Nd}_2\text{O}_3$ single crystals near the Néel temperature. Physical Review B, 2020, 102, .	3.2	0