

Rajendra Singh Dhaka

List of Publications by Year in descending order

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92
papers

2,430
citations

185998

28
h-index

223531

46
g-index

93
all docs

93
docs citations

93
times ranked

3251
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct observation of the spin texture in SmB ₆ as evidence of the topological Kondo insulator. Nature Communications, 2014, 5, 4566.	5.8	193
2	Surface and bulk electronic structure of the strongly correlated system SmB ₆ and implications for a topological Kondo insulator. Physical Review B, 2013, 88, .	1.1	179
3	pnictide Ba(Fe _{1-x} Co _x) ₂ As ₂ . Physical Review Letters, 2012, 108, 087005.	1.1	115
4	Bimetallic Au-Cu alloy nanoparticles on reduced graphene oxide support: Synthesis, catalytic activity and investigation of synergistic effect by DFT analysis. Applied Catalysis A: General, 2017, 538, 107-122.	2.2	81
5	Ba _{1-x} K _x Mn ₂ As ₂ : An Antiferromagnetic Local-Moment Metal. Physical Review Letters, 2012, 108, 087005.	2.9	71
6	Design of a graphene oxide-SnO ₂ nanocomposite with superior catalytic efficiency for the synthesis of β -enaminones and β -enaminoesters. RSC Advances, 2015, 5, 39193-39204.	1.7	71
7	Greener Route for Synthesis of aryl and alkyl-14H-dibenzo [a,j] xanthenes using Graphene Oxide-Copper Ferrite Nanocomposite as a Recyclable Heterogeneous Catalyst. Scientific Reports, 2017, 7, 42975.	1.6	68
8	Influence of Ni doping on the electronic structure of Ni ₂ MnGa. Physical Review B, 2005, 72, .	1.1	67
9	Crystallographic, electronic, thermal, and magnetic properties of single-crystal SrCo ₂ As ₂ . Physical Review B, 2013, 88, .	1.1	67
10	Fluoride removal in waters using ionic liquid-functionalized alumina as a novel adsorbent. Journal of Cleaner Production, 2017, 151, 303-318.	4.6	67
11	What Controls the Phase Diagram and Superconductivity in Ru-Substituted BaFe ₂ As ₂ ? Physical Review Letters, 2011, 107, 267002.	2.9	62
12	Bimetallic Ag-Cu alloy nanoparticles as a highly active catalyst for the enamination of 1,3-dicarbonyl compounds. RSC Advances, 2016, 6, 49923-49940.	1.7	51
13	Dramatic changes in the electronic structure upon transition to the collapsed tetragonal phase in CaFe ₂ As ₂ . Physical Review B, 2014, 89, .	1.1	48
14	Phosphate functionalized graphene oxide with enhanced catalytic activity for Biginelli type reaction under microwave condition. Chemical Engineering Journal, 2018, 331, 300-310.	6.6	48
15	Diffusion coefficient and electrochemical performance of NaVO ₃ anode in Li/Na batteries. Electrochimica Acta, 2020, 331, 135293.	2.6	48
16	Physical properties of metallic antiferromagnetic CaCo ₂ single crystals. Physical Review B, 2014, 89, .	1.1	44
17	Exotic Kondo crossover in a wide temperature region in the topological Kondo insulator SmB ₆ revealed by high-resolution ARPES. Physical Review B, 2014, 90, .	1.1	43
18	Unusual Temperature Dependence of Band Dispersion in Ba _{1-x} Fe _x As ₂ . Physical Review Letters, 2013, 110, 067002.	2.9	42

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19	An investigation into the solar light-driven enhanced photocatalytic properties of a graphene oxide@SnO ₂ /TiO ₂ ternary nanocomposite. RSC Advances, 2016, 6, 32074-32088.	1.7	39
20	Tuning the metal-insulator transition in NdNiO ₃ via Fermi surface instability and spin fluctuations. Physical Review B, 2015, 92, .	1.1	35
21	An ultrahigh vacuum compatible sample holder for studying complex metal surfaces. Review of Scientific Instruments, 2010, 81, 043907.	0.6	34
22	Investigation of the structural, electronic, transport and magnetic properties of Co ₂ FeGa Heusler alloy nanoparticles. Journal of Alloys and Compounds, 2019, 776, 379-386.	2.8	33
23	Versatile UHV compatible Knudsen type effusion cell. Review of Scientific Instruments, 2004, 75, 4467-4470.	0.6	32
24	Evolution of structure, magnetism, and electronic transport in the doped pyrochlore iridate Y ₂ Ir ₂ O ₇ . Physical Review B, 2017, 95, .	1.1	32
25	Surface state and resonance effects in electron-pair emission from Cu(111). Physical Review B, 2011, 84, .	1.1	31
26	Coexistence of charge-density wave and ferromagnetism in Ni ₂ MnGa. Physical Review B, 2012, 85, .	1.1	31
27	Observation of Dirac-like band dispersion in LaAgSb ₂ . Physical Review B, 2016, 93, .	1.1	31
28	Photoemission study of the (100) surface of Ni ₂ MnGa and Mn ₂ NiGa ferromagnetic shape memory alloys. Surface Science, 2009, 603, 1999-2004.	0.8	30
29	Defect controlled ferromagnetism in xenon ion irradiated zinc oxide. Journal of Magnetism and Magnetic Materials, 2015, 385, 318-325.	1.0	27
30	Understanding the 2p core-level spectra of manganese: Photoelectron spectroscopy experiments and Anderson impurity model calculations. Physical Review B, 2007, 75, .	1.1	25
31	Anomalous magnetic and spin-glass behavior in Nb-substituted LaCo _{1-x} Nb _x O ₃ . Physical Review B, 2018, 97, .	1.1	25
32	Xe and Ar nanobubbles in Al studied by photoemission spectroscopy. Physical Review B, 2008, 77, .	1.1	24
33	Direct observation of enhanced magnetism in individual size- and shape-selected Mn ₃ d ₄ transition metal nanoparticles. Physical Review B, 2017, 95, .	1.1	24
34	Angle-resolved photoemission spectroscopy study of BaCo ₂ As ₂ . Physical Review B, 2013, 87, .	1.1	22
35	Unraveling magnetic interactions and the spin state in insulating Sr ₂ As ₂ . Physical Review B, 2020, 101, .	1.1	22
36	Hydrogenated Anatase and Rutile TiO ₂ for Sodium-Ion Battery Anodes. ACS Applied Energy Materials, 2021, 4, 5738-5746.	2.5	22

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37	Growth and electronic structure of alkali-metal adlayers on icosahedral Al _{70.5} Pd ₂₁ Mn _{8.5} . <i>Physical Review B</i> , 2006, 73, .	1.1	21
38	Direct and core-resonant double photoemission from Cu(001). <i>Journal of Physics Condensed Matter</i> , 2010, 22, 092201.	0.7	21
39	Effect of Cu substitution in spin-orbit coupled $\text{Sr}_2\text{Cu}_2\text{Sb}_2\text{O}_{10}$. <i>Physical Review B</i> , 2017, 96, .	1.1	21
40	Synthesis of CuSbS_2 Nanoplates and CuSbS_2 - Cu_3SbS_4 Nanocomposite: Effect of Sulfur Source on Different Phase Formation. <i>Inorganic Chemistry</i> , 2019, 58, 15291-15302.	1.9	21
41	Magnetocaloric properties and critical behavior of $\text{Co}_2\text{Cr}_1-x\text{Mn}_x\text{Al}$ Heusler alloys. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	21
42	A comprehensive review on recent advances of polyanionic cathode materials in Na-ion batteries for cost effective energy storage applications. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2021, 10, e400.	1.9	20
43	Plasmon Excitations by Photoelectron Emission from Rare Gas Nanobubbles in Aluminum. <i>Physical Review Letters</i> , 2010, 104, 036803.	2.9	19
44	Evidence of discrete energy states and cluster-glass behavior in $\text{Sr}_2\text{Cu}_2\text{Sb}_2\text{O}_{10}$. <i>Physical Review B</i> , 2020, 102, .	1.1	19
45	Unraveling the diffusion kinetics of honeycomb structured $\text{Na}_2\text{Ni}_2\text{TeO}_6$ as a high-potential and stable electrode for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 15460-15473.	5.2	18
46	Quasiperiodic layers of free-electron metals studied using electron diffraction. <i>Physical Review B</i> , 2009, 79, .	1.1	17
47	Neutron diffraction and magnetic properties of $\text{Co}_2\text{Cr}_1-x\text{Mn}_x\text{Al}$ Heusler alloys. <i>Physical Review B</i> , 2019, 100, .	1.1	17
48	Electronic structure of $\text{Sr}_2\text{Cu}_2\text{Sb}_2\text{O}_{10}$ and $\text{Sr}_2\text{Cu}_2\text{Sb}_2\text{O}_{10}$ -brass. <i>Physical Review B</i> , 2008, 78, .	1.1	16
49	Physical properties and electrochemical performance of Zn-substituted $\text{Na}_2\text{V}_4\text{O}_{10}$. <i>Ceramics International</i> , 2018, 44, 21127-21131.	2.3	16
50	$\text{Ni}_2\text{MnGa}(100)$ ferromagnetic shape memory alloy: A surface study. <i>Surface Science</i> , 2012, 606, 130-136.	0.8	15
51	Electrochemical Properties of $\text{Na}_{0.66}\text{V}_4\text{O}_{10}$ Nanostructures as Cathode Material in Rechargeable Batteries for Energy Storage Applications. <i>ACS Omega</i> , 2019, 4, 9878-9888.	1.6	15
52	Spin Dynamics and Unconventional Magnetism in Insulating $\text{La}_2(1-x)\text{Sr}_2(1-x)\text{Co}(1-x)\text{Nb}_3\text{O}_{14}$. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22457-22469.	1.1	14
53	Influence of s - p hybridization on the electronic structure of Al-Mn alloys. <i>Physical Review B</i> , 2008, 77, .	1.1	13
54	Electron pair emission from surfaces: Diffraction effects. <i>Physical Review B</i> , 2012, 85, .	1.1	13

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55	Tuning ferromagnetism and spin state in L		



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73	Deep Trap Characterization and the Kink Effect in AlGaIn/GaN HEMTs. IETE Technical Review (Institution) Tj ETQq1 1, 2011, 1-6.	1.0	6
74	Understanding Na-Ion Transport in Na _x V ₄ O ₁₀ Electrode Material for Sodium-Ion Batteries. Journal of Electronic Materials, 2021, 50, 1794-1799.	1.0	6
75	Structural phase transition and its consequences for the optical behavior of LaV_2O_7 . Physical Review B, 2021, 103, .	1.1	6
76	Observation of Anisotropic Thermal Expansion and the Jahn-Teller Effect in Double Perovskites Sr _{2-x} La _x CoNbO ₆ Using Neutron Diffraction. Journal of Physical Chemistry Letters, 2022, 13, 3023-3031.	2.1	6
77	Photoemission study of Al adlayers on Mn. Physical Review B, 2011, 84, .	1.1	5
78	Analysis of the post-stress recovery of reverse leakage current in GaN HEMTs. Materials Science in Semiconductor Processing, 2022, 137, 106222.	1.9	5
79	Surface composition and electronic structure of Ni _{2-x} Mn _{1-x} Ga studied by X-ray photoelectron spectroscopy. Surface Science, 2006, 600, 3749-3752.	0.8	4
80	Exploring the possibility of enhancing the figure-of-merit (> 2) of Na _{0.74} CoO ₂ : A combined experimental and theoretical study. European Physical Journal B, 2020, 93, 1.	0.6	4
81	Structural and transport properties of $\text{La}_2\text{Co}_4\text{SrCo}_4$	0.8	4
82	Proximity-Induced Novel Ferromagnetism Accompanied with Resolute Metallicity in NdNiO ₃ Heterostructure. Advanced Science, 2021, 8, e2101516.	5.6	4
83	Structural and magnetic behavior of Cr ₂ Co(1-x)Cr _x Al inverse Heusler alloys. AIP Advances, 2020, 10, .	0.6	4
84	Physical properties of Sr and Nb substituted LaCoO ₃ . AIP Conference Proceedings, 2020, , .	0.3	3
85	Experimental and theoretical electronic structure of EuRnAs_2 . Physical Review B, 2012, 85, .	1.1	1
86	Structural and magnetic characterizations of Co ₂ FeGa/SiO ₂ nanoparticles prepared via chemical route. AIP Conference Proceedings, 2018, , .	0.3	1
87	Electrochemical analysis of Na _{0.7} Co _{1-x} Nb _x O ₂ (x = 0, 0.05) as cathode materials in sodium-ion batteries. AIP Conference Proceedings, 2020, , .	0.3	1
88	Modulation on Ni ₂ MnGa(001) surface. , 2011, , .		0
89	Magnetization enhancement due to incorporation of non-magnetic nitrogen content in (Co ₈₄ Zr ₁₆)N _x nano-composite films. AIP Advances, 2016, 6, 015307.	0.6	0
90	Growth and characterization of Fe _{0.95} Se _{0.6} Te _{0.4} single crystal. AIP Conference Proceedings, 2019, , .	0.3	0

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91	Investigating the thermoelectric properties of $\text{Na}_{0.74}\text{Co}_{1-x}\text{NbO}_2$ ($x=0.05, 0.10$) at high temperature region. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126893.	0.9	0
92	Magnetic properties of as casted Ni_2CrAl Heusler alloy. AIP Conference Proceedings, 2020, , .	0.3	0