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	Deep Trap Characterization and the Kink Effect in AlGaN/GaN HEMTs. IETE Technical Review (Institution) Tj ETQq1 1 0.784314 rgBT /O	2.1	6
2	Analysis of the post-stress recovery of reverse leakage current in GaN HEMTs. Materials Science in Semiconductor Processing, 2022, 137, 106222.	1.9	5
3	Observation of Anisotropic Thermal Expansion and the Jahnâ€“Teller Effect in Double Perovskites Sr_{2â€“x}La_xCoNbO₆ Using Neutron Diffraction. Journal of Physical Chemistry Letters, 2022, 13, 3023-3031.	2.1	6
4	Unraveling the diffusion kinetics of honeycomb structured Na₂Ni₂TeO₆ as a high-potential and stable electrode for sodium-ion batteries. Journal of Materials Chemistry A, 2022, 10, 15460-15473.	5.2	18
5	Probing the electronic and local structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mrow	3.3	8
6	Understanding Na-Ion Transport in NaxV4O10 Electrode Material for Sodium-Ion Batteries. Journal of Electronic Materials, 2021, 50, 1794-1799.	1.0	6
7	X-ray Absorption Spectroscopy Study of La_{1â€“y}Sr_yCo_{1â€“x}Nb_xO₃. Journal of Physical Chemistry C, 2021, 125, 10130-10139.	3.3	8
8	Functionalized Co₂FeAl Nanoparticles for Detection of SARS CoV-2 Based on Reverse Transcriptase Loop-Mediated Isothermal Amplification. ACS Applied Nano Materials, 2021, 4, 5871-5882.	2.4	10
9	A comprehensive review on recent advances of polyanionic cathode materials in Naâ€ion batteries for cost effective energy storage applications. Wiley Interdisciplinary Reviews: Energy and Environment, 2021, 10, e400.	1.9	20
10	Structural phase transition and its consequences for the optical behavior of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>LaV</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2021, 103, .	1.1	6
11	Hydrogenated Anatase and Rutile TiO₂ for Sodium-Ion Battery Anodes. ACS Applied Energy Materials, 2021, 4, 5738-5746.	2.5	22
12	Na4Co3(PO4)2P2O7/NC Composite as a Negative Electrode for Sodium-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 8076-8084.	2.5	7
13	Proximityâ€Induced Novel Ferromagnetism Accompanied with Resolute Metallicity in NdNiO₃ Heterostructure. Advanced Science, 2021, 8, e2101516.	5.6	4
14	Diffusion coefficient and electrochemical performance of NaVO3 anode in Li/Na batteries. Electrochimica Acta, 2020, 331, 135293.	2.6	48
15	Evidence of discrete energy states and cluster-glass behavior in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mrow	3.3	19
16	Exploring the possibility of enhancing the figure-of-merit (> 2) of Na0.74CoO2: A combined experimental and theoretical study. European Physical Journal B, 2020, 93, 1.	0.6	4
17	Structural, transport, optical, and electronic properties of Sr2CoNbO6 thin films. Journal of Applied Physics, 2020, 128, .	1.1	9
18	Structural and transport properties of La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Sr Co<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>y</mml:mi></mml:mrow></mml:msub></mml:math>Nb	0.8	4

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19	Magnetotransport and Berry phase in magnetically doped Bi0.97â^'xSb0.03 single crystals. Physical Review B, 2020, 102, .	1.1	8
20	Investigating the thermoelectric properties of Na0.74Co1â^'xNb O2 (xâ€¯=â€¯0.05,0.10) at high temperature region. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126893.	0.9	0
21	Unraveling magnetic interactions and the spin state in insulating <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Sr</mml:mi></mml:mrow><mml:mrow><mml:mi>2</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi>Co</mml:mi></mml:mrow><mml:mrow><mml:mi>1</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi>O</mml:mi></mml:mrow><mml:mrow><mml:mi>4</mml:mi></mml:mrow></mml:msub></mml:math>. Physical Review B, 2020, 101, .	1.1	22
22	Structural and magnetic behavior of Cr2Co(1â^'x)CrxAl inverse Heusler alloys. AIP Advances, 2020, 10, .	0.6	4
23	Electrochemical analysis of Na0.7Co1-xNbxO2(x = 0, 0.05) as cathode materials in sodium-ion batteries. AIP Conference Proceedings, 2020, , .	0.3	1
24	Physical properties of Sr and Nb substituted LaCoO3. AIP Conference Proceedings, 2020, , .	0.3	3
25	Magnetic properties of as casted Ni2CrAl Heusler alloy. AIP Conference Proceedings, 2020, , .	0.3	0
26	Spin Dynamics and Unconventional Magnetism in Insulating La_(1â€“2x)Sr_{2x}Co_(1â€“x)Nb_xO₃. Journal of Physical Chemistry C, 2019, 123, 22457-22469.	1.5	14
27	Neutron diffraction and magnetic properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi></mml:mi></mml:mrow></mml:math> Heusler alloys. Physical Review B, 2019, 100, .	1.1	17
28	Synthesis of CuSbS₂ Nanoplates and CuSbS₂â€“Cu₃SbS₄ Nanocomposite: Effect of Sulfur Source on Different Phase Formation. Inorganic Chemistry, 2019, 58, 15291-15302.	1.9	21
29	Growth and characterization of Fe0.95Se0.6Te0.4 single crystal. AIP Conference Proceedings, 2019, , .	0.3	0
30	Electrochemical Properties of Na_{0.66}V₄O₁₀ Nanostructures as Cathode Material in Rechargeable Batteries for Energy Storage Applications. ACS Omega, 2019, 4, 9878-9888.	1.6	15
31	Magnetocaloric properties and critical behavior of Co2Cr1â^'xMnxAl Heusler alloys. Journal of Applied Physics, 2019, 126, .	1.1	21
32	Investigation of the structural, electronic, transport and magnetic properties of Co2FeGa Heusler alloy nanoparticles. Journal of Alloys and Compounds, 2019, 776, 379-386.	2.8	33
33	Nuanced superconductivity in endohedral gallide Mo₈Ga₄₁. Materials Research Express, 2019, 6, 016002.	0.8	9
34	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
35	Synthesis and physical properties of Na x TO 2 (Tâ€“Mn, Co) nanostructures for cathode materials in Na-ion batteries. Materials Research Bulletin, 2018, 105, 178-183.	2.7	10
36	Anomalous magnetic and spin glass behavior in Nb-substituted <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="bold">LaCo</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow><mml:mi mathvariant="bold">Nb</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi mathvariant="bold">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2018, 97, .	1.1	25

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37	Structural and magnetic characterizations of Co2FeGa/SiO2 nanoparticles prepared via chemical route. AIP Conference Proceedings, 2018, , .	0.3	1
38	Physical properties and electrochemical performance of Zn-substituted <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0021.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi>Na</mml:mi></mml:mrow><mml:mrow><mml:mn>0.44</mml:mn> Ceramics International, 2018, 44, 21127-21131.	2.3	16
39	Tuning ferromagnetism and spin state in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mn>1</mml:mn><mml:mo>		

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55	Linking dynamic and thermodynamic properties of cuprates: An angle-resolved photoemission study of		

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73	Modulation on Ni[sub 2]MnGa(001) surface. , 2011, , .		0
74	Direct and core-resonant double photoemission from Cu(001). Journal of Physics Condensed Matter, 2010, 22, 092201.	0.7	21
75	Plasmon Excitations by Photoelectron Emission from Rare Gas Nanobubbles in Aluminum. Physical Review Letters, 2010, 104, 036803.	2.9	19
76	An ultrahigh vacuum compatible sample holder for studying complex metal surfaces. Review of Scientific Instruments, 2010, 81, 043907.	0.6	34
77	Bimodal distribution of neon nanobubbles in aluminum. Physical Review B, 2009, 79, .	1.1	8
78	Quasiperiodic layers of free-electron metals studied using electron diffraction. Physical Review B, 2009, 79, .	1.1	17
79	Depth-resolved positron annihilation studies of argon nanobubbles in aluminum. Journal of Applied Physics, 2009, 105, 054304.	1.1	8
80	Manganese adlayers on i-Alâ€“Pdâ€“Mn quasicrystal: growth and electronic structure. Journal of Physics Condensed Matter, 2009, 21, 405005.	0.7	9
81	Photoemission study of the (100) surface of Ni2MnGa and Mn2NiGa ferromagnetic shape memory alloys. Surface Science, 2009, 603, 1999-2004.	0.8	30
82	X-ray photoemission studies on rare gas bubbles in aluminium with annealing temperature. Surface and Coatings Technology, 2009, 203, 2380-2382.	2.2	12
83	Xe and Ar nanobubbles in Al studied by photoemission spectroscopy. Physical Review B, 2008, 77, .	1.1	24
84	Influence of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>s</mml:mi><mml:mi>p</mml:mi><mml:mtext>â^’</mml:mtext><mml:mi>d</mml:mi></mml:mr on the electronic structure of Al-Mn alloys. Physical Review B, 2008, 77, .		13
85	Electronic structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi></mml:math>- and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math>-brass. Physical Review B, 2008, 78, .	1.1	16
86	Growth and electronic structure of Mn on Al(111). Surface Science, 2007, 601, 609-614.	0.8	12
87	Understanding the2pcore-level spectra of manganese: Photoelectron spectroscopy experiments and Anderson impurity model calculations. Physical Review B, 2007, 75, .	1.1	25
88	Surface composition and electronic structure of Ni2+xMn1â^’xGa studied by X-ray photoelectron spectroscopy. Surface Science, 2006, 600, 3749-3752.	0.8	4
89	Growth and electronic structure of alkali-metal adlayers on icosahedralAl70.5Pd21Mn8.5. Physical Review B, 2006, 73, .	1.1	21
90	Influence of Ni doping on the electronic structure ofNi2MnGa. Physical Review B, 2005, 72, .	1.1	67

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91	Versatile UHV compatible Knudsen type effusion cell. Review of Scientific Instruments, 2004, 75, 4467-4470.	0.6	32
92	Surface Study of Ni₂MnGa(100). Materials Science Forum, 0, 684, 215-230.	0.3	6