

Mohindar S Seehra

List of Publications by Year in descending order

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49
papers

1,141
citations

430874

18
h-index

414414

32
g-index

50
all docs

50
docs citations

50
times ranked

1469
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic properties of Mn ₃ O ₄ and a solution of the canted-spin problem. Physical Review B, 1983, 28, 1-7.	3.2	127
2	Correlation between X-ray diffraction and Raman spectra of 16 commercial graphene-based materials and their resulting classification. Carbon, 2017, 111, 380-385.	10.3	80
3	Characterization of Fine Particulate Matter Produced by Combustion of Residual Fuel Oil. Journal of the Air and Waste Management Association, 2000, 50, 1106-1114.	1.9	76
4	Magnetic susceptibilities, their temperature variation, and exchange constants of NiO. Physical Review B, 1984, 29, 6295-6298.	3.2	68
5	Detection and quantification of 2H and 3R phases in commercial graphene-based materials. Carbon, 2015, 95, 818-823.	10.3	65
6	Size-Controlled Ferromagnetism in Capped CdSe Quantum Dots. Advanced Materials, 2008, 20, 1656-1660.	21.0	57
7	Magnetic structures of fcc systems with nearest-neighbor and next-nearest-neighbor exchange interactions. Physical Review B, 1988, 38, 11898-11900.	3.2	54
8	Percolation effects and magnetic properties of the randomly diluted fcc system Co _{1-x} Mg _x O. Physical Review B, 1987, 35, 6847-6853.	3.2	52
9	Phase diagram and magnetic properties of the diluted fcc system Ni _{1-x} Mg _x O. Physical Review B, 1992, 45, 2184-2189.	3.2	49
10	Magnetic and magnetocaloric properties of HoCrO ₃ tuned by selective rare-earth doping. Physical Review B, 2017, 95, .	3.2	43
11	Determination of particle size distribution in an Fe ₂ O ₃ -based catalyst using magnetometry and x-ray diffraction. Journal of Materials Research, 1992, 7, 1856-1860.	2.6	41
12	Effects of Oxygen Modification on the Structural and Magnetic Properties of Highly Epitaxial La _{0.7} Sr _{0.3} MnO ₃ (LSMO) thin films. Scientific Reports, 2020, 10, 3659.	3.3	35
13	Particle size dependence of the magnetic and magneto-caloric properties of HoCrO ₃ . Journal of Applied Physics, 2017, 121, .	2.5	32
14	Dielectric anomaly in MnO near the magnetic phase transition. Physical Review B, 1981, 24, 5098-5102.	3.2	29
15	Enhancement in magnetocaloric properties of ErCrO ₃ via A-site Gd substitution. Journal of Applied Physics, 2018, 123, .	2.5	28
16	Frequency Dependence of the EPR Linewidth in MnF ₂ Near the Critical Point. Journal of Applied Physics, 1971, 42, 1290-1292.	2.5	26
17	Anomalous changes in the dielectric constants of MnF ₂ near its Néel temperature. Journal of Applied Physics, 1984, 55, 2330-2332.	2.5	24
18	Antiferromagnetism, spin-glass state, H-T phase diagram, and inverse magnetocaloric effect in Co ₂ RuO ₄ . Journal of Physics Condensed Matter, 2020, 32, 485806.	1.8	22

#	ARTICLE	IF	CITATIONS
19	Magnetic ground state and exchange interactions in the Ising chain ferromagnet $\text{Co}_6\text{Nb}_6\text{O}_{24}$. Physical Review B, 2021, 103, .	3.2	18
20	Site selectivity of Mn atoms in TiAl alloys determined by x-ray scattering. Journal of Materials Research, 1991, 6, 339-342.	2.6	17
21	Effect of magnetic dilution on magnetic ordering in $\text{NiMg}_{1-x}\text{O}$. Journal of Applied Physics, 1991, 70, 6161-6163.	2.5	16
22	Ising-like chain magnetism, Arrhenius magnetic relaxation, and case against 3D magnetic ordering in Mn^{2+} -manganese phthalocyanine ($\text{C}_{32}\text{H}_{16}\text{MnN}_8$). Journal of Physics Condensed Matter, 2016, 28, 136002.	1.8	15
23	Comparison of the dielectric and magnetocaloric properties of bulk and film of $\text{GdFe}_{0.5}\text{Cr}_{0.5}\text{O}_3$. Journal of Applied Physics, 2021, 129, .	2.5	13
24	Magnetic properties of Fe-doped CuAlO_2 and role of impurities. AIP Advances, 2019, 9, .	1.3	12
25	Low temperature magnetic transition and high temperature oxidation in INCONEL alloy 718. Journal of Materials Research, 1996, 11, 1133-1136.	2.6	11
26	Sulfur-Promoted Degradation of Polyethylene/Polypropylene Detected by Electron Spin Resonance Spectroscopy. Energy & Fuels, 1997, 11, 926-930.	5.1	11
27	Observation and interpretation of negative remanent magnetization and inverted hysteresis loops in a thin film of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$. Journal of Physics Condensed Matter, 2018, 30, 405804.	1.8	11
28	Structure-property correlations and scaling in the magnetic and magnetocaloric properties of GdCrO_3 particles. Journal of Physics Condensed Matter, 2021, 33, 205801.	1.8	11
29	Magnetic investigations of phase transitions, exchange interactions, and magnetic ground state in nanosheets of $\text{Fe}^{2+}\text{-Co(OH)}_2$. Journal of Physics Condensed Matter, 2017, 29, 225803.	1.8	10
30	Variation of magnetic properties of Fe_2O_3 with nonstoichiometry. Journal of Applied Physics, 1984, 55, 2327-2329.	2.5	8
31	Induced ferromagnetism in multilayered graphene in proximity with CoFe_2O_4 . AIP Advances, 2018, 8, .	1.3	8
32	Magnetocaloric investigations show magnetic inhomogeneity in a 7.6 nm thin film of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{SrTiO}_3$. Journal of Alloys and Compounds, 2020, 826, 154200.	5.5	7
33	Lattice dynamics and magnetic exchange interactions in GeCo_2O_4 spinel with S^{2-} pyrochlore lattice. Physical Review B, 2021, 104, .	3.2	7
34	Magnetic specific heat and critical magnetic susceptibility of the diluted antiferromagnet $\text{CoMg}_{1-x}\text{O}$. Journal of Applied Physics, 1993, 73, 5468-5470.	2.5	6
35	Spin dynamics and relaxation in 7.6 nm thin film of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{SrTiO}_3$: ac magnetic susceptibility and magnetic viscosity investigations. Journal of Applied Physics, 2020, 128, 073903.	2.5	6
36	Magnetic field-temperature phase diagram, exchange constants and specific heat exponents of the antiferromagnet MnNb_2O_6 . Journal of Physics Condensed Matter, 2021, 33, 345801.	1.8	6

#	ARTICLE	IF	CITATIONS
37	Determination of the tricritical point, H ^T phase diagram and exchange interactions in the antiferromagnet MnTa ₂ O ₆ . Journal of Physics Condensed Matter, 2022, 34, 155801.	1.8	6
38	Site selectivities and magnetic moments of V, Cr, and Mn doped in β -TiAl alloys. Journal of Materials Research, 1993, 8, 989-994.	2.6	5
39	Synthetic Doped Amorphous Ferrihydrite for the Fischer-Tropsch Synthesis of Alternative Fuels. Industrial & Engineering Chemistry Research, 2012, 51, 4515-4522.	3.7	5
40	Magnetic Determination of the Electronic State of Cu and Exchange Interactions in the α - and β -Phases of Molecular Semiconductor Copper Phthalocyanine (C ₃₂ H ₁₆ N ₈ Cu). IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	5
41	Magnetic exchange interactions and band gap bowing in NixMg _{1-x} O (0.0 ≤ x ≤ 1.0): A GGA+U density functional study. Journal of Applied Physics, 2019, 126, 233904.	2.5	4
42	Antiferromagnetic short-range order and cluster spin-glass state in diluted spinel ZnTiCoO ₄ . Journal of Physics Condensed Matter, 2022, , .	1.8	4
43	Development and Evaluation of Diffuse Reflectance Spectroscopy for Determining Silica in Respirable Dusts. Journal of Occupational and Environmental Hygiene, 1996, 11, 767-770.	0.4	3
44	Identification of a Fe-Dependent Optical Mode in CuAl _{1-x} Fe _x O ₂ . Journal of Physical Chemistry C, 2021, 125, 3577-3583.	3.1	3
45	Enhanced magnetic properties of carbon nanotubes and multilayer graphene decorated with Co₃O₄. , 2016, , .		2
46	Diamagnetism of β -Nickel Phthalocyanine (C ₃₂ H ₁₆ N ₈ Ni) and Effects of Impurities. IEEE Magnetics Letters, 2016, 7, 1-4.	1.1	2
47	Magnetic Ground State and Tunable Néel Temperature in the Spin $\frac{1}{2}$ Linear Chain Antiferromagnet Co(OH) (2 \times) F x. Physica Status Solidi (B): Basic Research, 0, , 2100438.	1.5	1
48	Effects of Oxygen Stoichiometry on The Magnetic Ordering of La ₂ Ni _{1-y} Cu _y O ₄ + δ . Materials Research Society Symposia Proceedings, 1989, 169, 57.	0.1	0
49	Effects of Re concentration on the expansivity of NiRe alloys to 1200 K. Journal of Physics Condensed Matter, 1998, 10, 7349-7356.	1.8	0