

Jitendra Pal Singh

List of Publications by Year in descending order

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131
papers

2,734
citations

172457

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254184

43
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139
all docs

139
docs citations

139
times ranked

2890
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion Beam Induced Defects and Their Effects in Oxide Materials. SpringerBriefs in Physics, 2022, , .	0.7	1
2	Synchrotron radiation based X-ray techniques for analysis of cathodes in Li rechargeable batteries. RSC Advances, 2022, 12, 20360-20378.	3.6	5
3	Effect of thermal annealing on the properties of ZnO thin films. Vacuum, 2021, 183, 109776.	3.5	13
4	Calcite Nanocrystals Investigated Using X-ray Absorption Spectroscopy. Crystals, 2021, 11, 490.	2.2	4
5	Activity-stability benefits of Pt/C fuel cell electrocatalysts prepared via remote CeO ₂ interfacial doping. Journal of Power Sources, 2021, 496, 229798.	7.8	30
6	Hierarchically Assembled Cobalt Oxynitride Nanorods and N-Doped Carbon Nanofibers for Efficient Bifunctional Oxygen Electrocatalysis with Exceptional Regenerative Efficiency. ACS Nano, 2021, 15, 11218-11230.	14.6	45
7	Characterizing the defects and ferromagnetism in metal oxides: The case of magnesium oxide. Materials Characterization, 2021, 179, 111366.	4.4	9
8	Fe ⁺ and Zn ⁺ ion implantation in MgO single crystals. Materials Letters, 2021, 301, 130232.	2.6	5
9	Phase transformation in Fe ₂ O ₃ nanoparticles: Electrical properties with local electronic structure. Physica B: Condensed Matter, 2021, 620, 413275.	2.7	10
10	Local structure investigation of Coâ€“Feâ€“Siâ€“B ribbons by extended X-ray absorption fine-structure spectroscopy. Journal of Synchrotron Radiation, 2021, 28, 240-246.	2.4	2
11	Li(Ni _{1/3} Co _{1/3} Mn _{1/3})O ₂ cathode investigated using X-ray absorption spectroscopy and transmission X-ray microscopy. Materials Letters, 2020, 261, 126983.	2.6	4
12	Porous Strained Pt Nanostructured Thinâ€“Film Electrocatalysts via Dealloying for PEM Fuel Cells. Advanced Materials Interfaces, 2020, 7, 1901326.	3.7	19
13	Annealing effect on phase transition and thermochromic properties of VO ₂ thin films. Superlattices and Microstructures, 2020, 137, 106335.	3.1	26
14	Approaches to synthesize MgO nanostructures for diverse applications. Heliyon, 2020, 6, e04882.	3.2	30
15	Highly active and thermally stable single-atom catalysts for high-temperature electrochemical devices. Energy and Environmental Science, 2020, 13, 4903-4920.	30.8	35
16	Influence of Cu doping on the local electronic and magnetic properties of ZnO nanostructures. Nanoscale Advances, 2020, 2, 4450-4463.	4.6	49
17	Structural and Electronic Properties of Flexible ZnO and Ti/Mn:ZnO Thin Films. Journal of the Korean Physical Society, 2020, 77, 452-456.	0.7	4
18	New findings and current controversies on oxidation of benzyl alcohol by a copper complex. Materials Advances, 2020, 1, 441-449.	5.4	2

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19	Correlating the size and cation inversion factor in context of magnetic and optical behavior of CoFe ₂ O ₄ nanoparticles. RSC Advances, 2020, 10, 21259-21269.	3.6	23
20	Structural phase control and thermochromic modulation of VO ₂ thin films by post thermal annealing. Applied Surface Science, 2020, 529, 147093.	6.1	17
21	Soft X-ray Absorption Spectroscopic Investigation of Li(Ni _{0.8} Co _{0.1} Mn _{0.1})O ₂ Cathode Materials. Nanomaterials, 2020, 10, 759.	4.1	9
22	Development of XANES nanoscopy on BL7C at PLS-II. Journal of Synchrotron Radiation, 2020, 27, 545-550.	2.4	8
23	Effect of oxygen vacancy gradient on ion-irradiated Ca-doped YMnO ₃ thin films. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2020, 38, .	1.2	9
24	MgO Thin Film Growth on Si(001) by Radio-Frequency Sputtering Method. Journal of Nanoscience and Nanotechnology, 2020, 20, 7530-7534.	0.9	7
25	Local Electronic Structure of Calcite Investigated Using X-ray Absorption Spectroscopy at Different Span of Time. Journal of Nanoscience and Nanotechnology, 2020, 20, 6713-6717.	0.9	3
26	Design of zinc ferrite thin films with excess tetrahedrally coordinated Fe ³⁺ ions and their magnetic interactions. Vacuum, 2019, 168, 108848.	3.5	12
27	Investigations on the Electronic Excitations through Spectroscopic Measures for Resistive Switching Character of Manganite Thin Films. Physica Status Solidi (B): Basic Research, 2019, 256, 1900264.	1.5	7
28	A manganese(II) phthalocyanine under water-oxidation reaction: new findings. Dalton Transactions, 2019, 48, 12147-12158.	3.3	13
29	Extraction of Switching Parameters for Sr ²⁺ Doped YMnO ₃ Thin Film. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900780.	1.8	5
30	An interplay among the Mg ²⁺ ion coordination, structural order, oxygen vacancies and magnetism of MgO thin films. Journal of Alloys and Compounds, 2019, 806, 1348-1356.	5.5	12
31	A nickel(II) complex under water-oxidation reaction: what is the true catalyst?. Dalton Transactions, 2019, 48, 547-557.	3.3	30
32	Observation of Skyrmions at Room Temperature in Co ₂ FeAl Heusler Alloy Ultrathin Film Heterostructures. Scientific Reports, 2019, 9, 1085.	3.3	22
33	Nanosized (Ni ^x Zn ^x)Fe ₂ O ₄ for water oxidation. Nanoscale Advances, 2019, 1, 686-695.	4.6	5
34	Electrochemical water oxidation by simple manganese salts. Scientific Reports, 2019, 9, 7749.	3.3	19
35	Investigations on magnetic and electrical properties of Zn doped Fe ₂ O ₃ nanoparticles and their correlation with local electronic structures. Journal of Magnetism and Magnetic Materials, 2019, 489, 165398.	2.3	36
36	Local Electronic Structure Perspectives of Nanoparticle Growth: The Case of MgO. ACS Omega, 2019, 4, 7140-7150.	3.5	13

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37	UV-Vis Spectroscopic and NEXAFS Studies of Polycrystalline Zinc Ferrite Films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1800997.	1.8	2
38	A trimetallic organometallic precursor for efficient water oxidation. <i>Scientific Reports</i> , 2019, 9, 3734.	3.3	7
39	Role of low energy transition metal ions in interface formation in ZnO thin films and their effect on magnetic properties for spintronic applications. <i>Applied Surface Science</i> , 2019, 479, 1021-1028.	6.1	29
40	Fabrication of Magnetic Tunnel Junctions. , 2019, , 53-77.		2
41	Annealing Effects on MgO Films Grown using e-beam Evaporation. <i>International Journal of Mathematical, Engineering and Management Sciences</i> , 2019, 4, 619-626.	0.7	2
42	Mechanistic insights into the interaction between energetic oxygen ions and nanosized ZnFe ₂ O ₄ : XAS-XMCD investigations. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 12084-12096.	2.8	24
43	Structural and electronic investigation of ZnO nanostructures synthesized under different environments. <i>Heliyon</i> , 2018, 4, e00594.	3.2	64
44	Water oxidation by simple manganese salts in the presence of cerium(IV) ammonium nitrate: towards a complete picture. <i>Dalton Transactions</i> , 2018, 47, 1557-1565.	3.3	11
45	Unveiling the nature of adsorbed species onto the surface of MgO thin films during prolonged annealing. <i>Journal of Alloys and Compounds</i> , 2018, 748, 355-362.	5.5	17
46	Surface and local electronic structure modification of MgO film using Zn and Fe ion implantation. <i>Applied Surface Science</i> , 2018, 432, 132-139.	6.1	17
47	Microstructure, local electronic structure and optical behaviour of zinc ferrite thin films on glass substrate. <i>Royal Society Open Science</i> , 2018, 5, 181330.	2.4	5
48	Electronic and magnetic structure investigation of vanadium doped ZnO nanostructure. <i>Vacuum</i> , 2018, 158, 257-262.	3.5	25
49	Atomic-scale investigation of MgO growth on fused quartz using angle-dependent NEXAFS measurements. <i>RSC Advances</i> , 2018, 8, 31275-31286.	3.6	14
50	Introduction to X-Ray Absorption Spectroscopy and Its Applications in Material Science. , 2018, , 497-548.		10
51	Structure, optical and electronic structure studies of Ti:ZnO thin films. <i>Journal of Alloys and Compounds</i> , 2018, 759, 8-13.	5.5	13
52	The application of a nickel(II) Schiff base complex in water oxidation: the importance of nanosized materials. <i>Catalysis Science and Technology</i> , 2018, 8, 3954-3968.	4.1	34
53	Uptake, Distribution, and Transformation of Zerovalent Iron Nanoparticles in the Edible Plant <i>Cucumis sativus</i> . <i>Environmental Science & Technology</i> , 2018, 52, 10057-10066.	10.0	31
54	Are organic templates responsible for the optical and magnetic response of MgO nanoparticles?. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1707-1715.	5.9	10

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55	Synthesis and Characterization of Some Alkaline-Earth-Oxide Nanoparticles. Journal of the Korean Physical Society, 2018, 72, 890-899.	0.7	14
56	Links between peptides and Mn oxide: nano-sized manganese oxide embedded in a peptide matrix. New Journal of Chemistry, 2018, 42, 10067-10077.	2.8	1
57	Surface Structure of MgO Thin Films Revealed from X-ray Reflectivity and Near-Edge X-ray Absorption Fine Structure Measurements. Science of Advanced Materials, 2018, 10, 1372-1376.	0.7	10
58	Electronic structure of magnetic Fe/MgO/Fe/Co multilayer structure by NEXAFS spectroscopy. Vacuum, 2017, 138, 48-54.	3.5	12
59	Mechanistic insights on the electronic properties and electronic/atomic structure aspects in orthorhombic SrVO ₃ thin films: XANES and EXAFS study. Physical Chemistry Chemical Physics, 2017, 19, 6397-6405.	2.8	20
60	Effect of precursor thermal history on the formation of amorphous and crystalline calcium carbonate. Particuology, 2017, 33, 29-34.	3.6	8
61	Cu ₂ O nanocrystals with various morphology: Synthesis, characterization and catalytic properties. Chinese Chemical Letters, 2017, 28, 1125-1130.	9.0	25
62	Synthesis and characterization of Dy _x CoFe _{2-α} O ₄ nanoparticles. Superlattices and Microstructures, 2017, 109, 296-306.	3.1	15
63	Tunichrome-Inspired Gold-Enrichment Dispersion Matrix and Its Application in Water Treatment: A Proof-of-Concept Investigation. ACS Applied Materials & Interfaces, 2017, 9, 19815-19824.	8.0	9
64	Optical behavior of MgO nanoparticles investigated using diffuse reflectance and near edge X-ray absorption spectroscopy. Materials Letters, 2017, 198, 34-37.	2.6	12
65	Magnetic Behaviour of Granular GdMnO ₃ Film. Journal of Superconductivity and Novel Magnetism, 2017, 30, 1419-1425.	1.8	2
66	Nanosized manganese oxide/holmium oxide: a new composite for water oxidation. New Journal of Chemistry, 2017, 41, 13732-13741.	2.8	7
67	Correlation of oxygen vacancies to various properties of amorphous zinc tin oxide films. Journal of Applied Physics, 2017, 122, .	2.5	13
68	A new strategy to make an artificial enzyme: photosystem II around nanosized manganese oxide. Catalysis Science and Technology, 2017, 7, 4451-4461.	4.1	7
69	Tunichrome mimetic matrix, its perspective in abatement for carcinogenic hexavalent chromium and specific coordination behavior. Chemical Engineering Journal, 2017, 328, 629-638.	12.7	7
70	Role of silver doping on the defects related photoluminescence and antibacterial behaviour of zinc oxide nanoparticles. Colloids and Surfaces B: Biointerfaces, 2017, 159, 191-199.	5.0	58
71	Tuning and Characterizing Nanocellulose Interface for Enhanced Removal of Dual-Sorbate (As ^V and Cr ^{VI}) from Water Matrices. ACS Sustainable Chemistry and Engineering, 2017, 5, 518-528.	6.7	47
72	d ⁰ Ferromagnetism of Magnesium Oxide. Condensed Matter, 2017, 2, 36.	1.8	58

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73	Synthesis and Local Electronic Structure of Calcite Nanoparticles. Journal of Nanoscience and Nanotechnology, 2016, 16, 11429-11433.	0.9	7
74	Swift heavy ion irradiation induced effects in Fe/MgO/Fe/Co multilayer. Materials and Design, 2016, 101, 72-79.	7.0	13
75	Chemical effects at interfaces of Fe/MgO/Fe magnetic tunnel junction. Superlattices and Microstructures, 2016, 100, 560-586.	3.1	15
76	Contributors to Enhanced CO ₂ Electroreduction Activity and Stability in a Nanostructured Au Electrocatalyst. ChemSusChem, 2016, 9, 2097-2102.	6.8	38
77	Covalency, hybridization and valence state effects in nano- and micro-sized ZnFe ₂ O ₄ . CrystEngComm, 2016, 18, 2701-2711.	2.6	25
78	Electronic structure studies of chemically synthesized MgFe ₂ O ₄ nanoparticles. Journal of Molecular Structure, 2016, 1108, 444-450.	3.6	56
79	Structural and magnetic study of dysprosium substituted cobalt ferrite nanoparticles. Journal of Magnetism and Magnetic Materials, 2016, 401, 16-21.	2.3	60
80	Solubility limit, magnetic interaction and conduction mechanism in rare earth doped spinel ferrite. Applied Science Letters, 2016, 2, 3-11.	0.3	28
81	Consequences of electronic excitations in CoFe _{1.90} Dy _{0.10} O ₄ . Current Applied Physics, 2015, 15, 1650-1656.	2.4	4
82	Structural, transport and ferroelectric properties of Zn _{1-x} Mg _x O samples and their local electronic structure. Superlattices and Microstructures, 2015, 78, 183-189.	3.1	15
83	Onset of size independent cationic exchange in nano-sized CoFe ₂ O ₄ induced by electronic excitation. Journal of Alloys and Compounds, 2015, 645, 274-282.	5.5	18
84	Crystallite size induced crossover from paramagnetism to superparamagnetism in zinc ferrite nanoparticles. Superlattices and Microstructures, 2015, 86, 390-394.	3.1	12
85	XAS and XMCD investigation of zinc ferrite nanoparticles irradiated with 100 MeV O beam. , 2015, , .		1
86	Atomic diffusion processes in MgO/Fe/MgO multilayer. Superlattices and Microstructures, 2015, 88, 609-619.	3.1	16
87	Role of surface and subsurface defects in MgO thin film: XANES and magnetic investigations. Superlattices and Microstructures, 2015, 77, 313-324.	3.1	34
88	FTIR and Electrical Study of Dysprosium Doped Cobalt Ferrite Nanoparticles. Journal of Nanoscience, 2014, 2014, 1-10.	2.6	67
89	Electronic structure of Fe/MgO/Fe multilayer stack by X-ray magnetic circular dichroism. Journal of Applied Physics, 2014, 115, .	2.5	18
90	Spin dynamics investigation in nanosized zinc ferrite irradiated with 200MeV Ag ¹⁵⁺ ions. Materials Letters, 2014, 122, 277-280.	2.6	7

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91	Formation of latent tracks and their effects on the magnetic properties of nanosized zinc ferrite. Journal of Magnetism and Magnetic Materials, 2014, 352, 36-44.	2.3	18
92	Magnetic, Electronic Structure And Interface Study Of Fe/MgO/Fe Multilayer. Advanced Materials Letters, 2014, 5, 372-377.	0.6	17
93	Effect of Ce Doping on the Magnetic Properties of NiFe ₂ O ₄ Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1015-1019.	1.8	19
94	Magnetic resonance in superparamagnetic zinc ferrite. Bulletin of Materials Science, 2013, 36, 751-754.	1.7	6
95	Study of structural, morphological and electrical properties of Ce doped NiFe ₂ O ₄ nanoparticles and their electronic structure investigation. Journal of Alloys and Compounds, 2013, 581, 178-185.	5.5	35
96	Comparison of Properties of Pristine and 200 MeV Ag ¹⁵⁺ Ions Irradiated ⁶ Li ³ wt% Doped V ₂ O ₅ Thin Films. Transactions of the Indian Institute of Metals, 2013, 66, 353-356.	1.5	1
97	HRTEM and FTIR investigation of nanosized zinc ferrite irradiated with 100 MeV oxygen ions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 107, 326-333.	3.9	17
98	Structural, optical and magnetic studies of Ce doped NiFe ₂ O ₄ nanoparticles. Journal of Magnetism and Magnetic Materials, 2013, 345, 65-71.	2.3	60
99	Correlation between the dielectric properties and local electronic structure of copper doped calcium titanate. Journal of Alloys and Compounds, 2013, 572, 84-89.	5.5	28
100	Raman and Fourier-transform infrared spectroscopic study of nanosized zinc ferrite irradiated with 200 MeV Ag ¹⁵⁺ beam. Journal of Alloys and Compounds, 2013, 551, 370-375.	5.5	54
101	Improved optical and electrical properties of 200 MeV Ag ¹⁵⁺ irradiated 3 wt% 'Li' doped MoO ₃ thin film. , 2013, , .		1
102	Effect of Intermediate Annealing on the Structural, Electrical and Dielectric Properties of Zinc Ferrite: An XANES Investigation. Science of Advanced Materials, 2013, 5, 171-181.	0.7	23
103	Magnetization in MgO based multilayers fabricated by e-beam evaporation. AIP Conference Proceedings, 2012, , .	0.4	5
104	SHI induced enhancement in conductivity of PbTe thin film for thermoelectric applications. , 2012, , .		0
105	Swift heavy ion-induced effects in Ce-doped nickel ferrite nanoparticles. Radiation Effects and Defects in Solids, 2012, 167, 307-318.	1.2	14
106	Structural, optical and transport properties of 100 MeV oxygen ion irradiated V ₂ O ₅ thin film. , 2012, , .		1
107	Study of size dependent features of swift heavy ion irradiation in nanosized zinc ferrite. Journal of Magnetism and Magnetic Materials, 2012, 324, 3306-3312.	2.3	17
108	Investigation of phase segregation in Zn _{1-x} Mg _x O systems. Current Applied Physics, 2012, 12, 1166-1172.	2.4	60

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109	Magnetic resonance study of Ce and Gd doped NiFe ₂ O ₄ nanoparticles. Journal of Magnetism and Magnetic Materials, 2012, 324, 479-483.	2.3	116
110	Investigation of structural and magnetic properties of Ni, NiFe and NiFe ₂ O ₄ thin films. Journal of Magnetism and Magnetic Materials, 2012, 324, 999-1005.	2.3	28
111	Observation of bulk like magnetic ordering below the blocking temperature in nanosized zinc ferrite. Journal of Magnetism and Magnetic Materials, 2012, 324, 2553-2559.	2.3	42
112	Structural, Magnetic And Optical Studies Of Nickel Ferrite Thin Films. Advanced Materials Letters, 2012, 3, 21-28.	0.6	95
113	Study Of Surface Morphology And Grain Size Of Irradiated MgO Thin Films. Advanced Materials Letters, 2012, 3, 112-117.	0.6	28
114	Looking for the possibility of multiferroism in NiGd _{0.04} Fe _{1.96} O ₄ nanoparticle system. Journal Physics D: Applied Physics, 2011, 44, 435306.	2.8	39
115	Micro-Raman investigation of nanosized zinc ferrite: effect of crystallite size and fluence of irradiation. Journal of Raman Spectroscopy, 2011, 42, 1510-1517.	2.5	95
116	Observation of size dependent attributes on the magnetic resonance of irradiated zinc ferrite nanoparticles. Current Applied Physics, 2011, 11, 532-537.	2.4	39
117	Study of 200MeV Ag ¹⁵⁺ ion induced amorphisation in nickel ferrite thin films. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 133-139.	1.4	26
118	100 MeV O ⁷⁺ ion irradiation in nanosized zinc ferrite. Radiation Effects and Defects in Solids, 2011, 166, 564-570.	1.2	5
119	Effect of thermal treatment on the magnetic properties of nanostructured zinc ferrite. Journal of Physics: Conference Series, 2010, 217, 012108.	0.4	8
120	⁵⁷ Fe Mössbauer investigation of nanostructured zinc ferrite irradiated by 100 MeV oxygen beam. Journal of Physics: Conference Series, 2010, 217, 012109.	0.4	11
121	Optical Behaviour of Zinc Ferrite Nanoparticles. AIP Conference Proceedings, 2010, , .	0.4	30
122	Magnetic behaviour of nanosized zinc ferrite under heavy ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 1422-1426.	1.4	25
123	Magnetic study of nanostructured zinc ferrite irradiated with 100MeV O-beam. Journal of Magnetism and Magnetic Materials, 2010, 322, 1701-1705.	2.3	33
124	Annealing effect on the structural and magnetic properties of nickel ferrite thin films. Surface and Interface Analysis, 2010, 42, 151-156.	1.8	27
125	¹ / ₄ -Raman Study of Nanosized Zinc Ferrite above the Threshold of Electronic Stopping Regime. , 2010, , .		1
126	RELAXATION PHENOMENA IN NANOSTRUCTURED ZINC FERRITE. International Journal of Nanoscience, 2009, 08, 523-531.	0.7	10

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127	^{57}Fe Mössbauer spectroscopic study of nanostructured zinc ferrite. <i>Hyperfine Interactions</i> , 2008, 183, 221-228.	0.5	20
128	EPR STUDY OF NANOSTRUCTURED ZINC FERRITE. <i>International Journal of Nanoscience</i> , 2008, 07, 21-27.	0.7	50
129	^{57}Fe Mössbauer spectroscopic study of nanostructured zinc ferrite. , 2008, , 393-400.		0
130	Bottom-Up and Top-Down Approaches for MgO. , 0, , .		9
131	Effect of thermal annealing on the film and substrate/film interface: the case of ZnFe ₂ O ₄ . <i>Applied Nanoscience (Switzerland)</i> , 0, , 1.	3.1	1