

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	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
2	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
3	Structural, Magnetic And Optical Studies Of Nickel Ferrite Thin Films. Advanced Materials Letters, 2012, 3, 21-28.	0.6	95
4	FTIR and Electrical Study of Dysprosium Doped Cobalt Ferrite Nanoparticles. Journal of Nanoscience, 2014, 2014, 1-10.	2.6	67
5	Structural and electronic investigation of ZnO nanostructures synthesized under different environments. Heliyon, 2018, 4, e00594.	3.2	64
6	Investigation of phase segregation in Zn _{1-x} Mg _x O systems. Current Applied Physics, 2012, 12, 1166-1172.	2.4	60
7	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
8	Structural and magnetic study of dysprosium substituted cobalt ferrite nanoparticles. Journal of Magnetism and Magnetic Materials, 2016, 401, 16-21.	2.3	60
9	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
10	d ⁰ Ferromagnetism of Magnesium Oxide. Condensed Matter, 2017, 2, 36.	1.8	58
11	Electronic structure studies of chemically synthesized MgFe ₂ O ₄ nanoparticles. Journal of Molecular Structure, 2016, 1108, 444-450.	3.6	56
12	Raman and Fourier-transform infrared spectroscopic study of nanosized zinc ferrite irradiated with 200MeV Ag ¹⁵⁺ beam. Journal of Alloys and Compounds, 2013, 551, 370-375.	5.5	54
13	EPR STUDY OF NANOSTRUCTURED ZINC FERRITE. International Journal of Nanoscience, 2008, 07, 21-27.	0.7	50
14	Influence of Cu doping on the local electronic and magnetic properties of ZnO nanostructures. Nanoscale Advances, 2020, 2, 4450-4463.	4.6	49
15	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
16	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
17	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
18	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

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19	Observation of size dependent attributes on the magnetic resonance of irradiated zinc ferrite nanoparticles. <i>Current Applied Physics</i> , 2011, 11, 532-537.	2.4	39
20	Contributors to Enhanced CO ₂ Electroreduction Activity and Stability in a Nanostructured Au Electrocatalyst. <i>ChemSusChem</i> , 2016, 9, 2097-2102.	6.8	38
21	Investigations on magnetic and electrical properties of Zn doped Fe ₂ O ₃ nanoparticles and their correlation with local electronic structures. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 489, 165398.	2.3	36
22	Study of structural, morphological and electrical properties of Ce doped NiFe ₂ O ₄ nanoparticles and their electronic structure investigation. <i>Journal of Alloys and Compounds</i> , 2013, 581, 178-185.	5.5	35
23	Highly active and thermally stable single-atom catalysts for high-temperature electrochemical devices. <i>Energy and Environmental Science</i> , 2020, 13, 4903-4920.	30.8	35
24	Role of surface and subsurface defects in MgO thin film: XANES and magnetic investigations. <i>Superlattices and Microstructures</i> , 2015, 77, 313-324.	3.1	34
25	The application of a nickel Schiff base complex in water oxidation: the importance of nanosized materials. <i>Catalysis Science and Technology</i> , 2018, 8, 3954-3968.	4.1	34
26	Magnetic study of nanostructured zinc ferrite irradiated with 100MeV O-beam. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 1701-1705.	2.3	33
27	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
28	Optical Behaviour of Zinc Ferrite Nanoparticles. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	30
29	A nickel complex under water-oxidation reaction: what is the true catalyst?. <i>Dalton Transactions</i> , 2019, 48, 547-557.	3.3	30
30	Approaches to synthesize MgO nanostructures for diverse applications. <i>Heliyon</i> , 2020, 6, e04882.	3.2	30
31	Activity-stability benefits of Pt/C fuel cell electrocatalysts prepared via remote CeO ₂ interfacial doping. <i>Journal of Power Sources</i> , 2021, 496, 229798.	7.8	30
32	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
33	Investigation of structural and magnetic properties of Ni, NiFe and NiFe ₂ O ₄ thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 999-1005.	2.3	28
34	Correlation between the dielectric properties and local electronic structure of copper doped calcium titanate. <i>Journal of Alloys and Compounds</i> , 2013, 572, 84-89.	5.5	28
35	Solubility limit, magnetic interaction and conduction mechanism in rare earth doped spinel ferrite. <i>Applied Science Letters</i> , 2016, 2, 3-11.	0.3	28
36	Study Of Surface Morphology And Grain Size Of Irradiated MgO Thin Films. <i>Advanced Materials Letters</i> , 2012, 3, 112-117.	0.6	28

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37	Annealing effect on the structural and magnetic properties of nickel ferrite thin films. <i>Surface and Interface Analysis</i> , 2010, 42, 151-156.	1.8	27
38	Study of 200MeV Ag ¹⁵⁺ ion induced amorphisation in nickel ferrite thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 133-139.	1.4	26
39	Annealing effect on phase transition and thermochromic properties of VO ₂ thin films. <i>Superlattices and Microstructures</i> , 2020, 137, 106335.	3.1	26
40	Magnetic behaviour of nanosized zinc ferrite under heavy ion irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 1422-1426.	1.4	25
41	Covalency, hybridization and valence state effects in nano- and micro-sized ZnFe ₂ O ₄ . <i>CrystEngComm</i> , 2016, 18, 2701-2711.	2.6	25
42	Cu ₂ O nanocrystals with various morphology: Synthesis, characterization and catalytic properties. <i>Chinese Chemical Letters</i> , 2017, 28, 1125-1130.	9.0	25
43	Electronic and magnetic structure investigation of vanadium doped ZnO nanostructure. <i>Vacuum</i> , 2018, 158, 257-262.	3.5	25
44	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
45	Correlating the size and cation inversion factor in context of magnetic and optical behavior of CoFe ₂ O ₄ nanoparticles. <i>RSC Advances</i> , 2020, 10, 21259-21269.	3.6	23
46	Effect of Intermediate Annealing on the Structural, Electrical and Dielectric Properties of Zinc Ferrite: An XANES Investigation. <i>Science of Advanced Materials</i> , 2013, 5, 171-181.	0.7	23
47	Observation of Skyrmions at Room Temperature in Co ₂ FeAl Heusler Alloy Ultrathin Film Heterostructures. <i>Scientific Reports</i> , 2019, 9, 1085.	3.3	22
48	⁵⁷ Fe Mössbauer spectroscopic study of nanostructured zinc ferrite. <i>Hyperfine Interactions</i> , 2008, 183, 221-228.	0.5	20
49	Mechanistic insights on the electronic properties and electronic/atomic structure aspects in orthorhombic SrVO ₃ thin films: XANES-EXAFS study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6397-6405.	2.8	20
50	Effect of Ce Doping on the Magnetic Properties of NiFe ₂ O ₄ Nanoparticles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 1015-1019.	1.8	19
51	Electrochemical water oxidation by simple manganese salts. <i>Scientific Reports</i> , 2019, 9, 7749.	3.3	19
52	Porous Strained Pt Nanostructured Thin-Film Electrocatalysts via Dealloying for PEM Fuel Cells. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901326.	3.7	19
53	Electronic structure of Fe/MgO/Fe multilayer stack by X-ray magnetic circular dichroism. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	18
54	Formation of latent tracks and their effects on the magnetic properties of nanosized zinc ferrite. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 352, 36-44.	2.3	18

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55	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
56	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
57	HRTEM and FTIR investigation of nanosized zinc ferrite irradiated with 100MeV oxygen ions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 107, 326-333.	3.9	17
58	Unveiling the nature of adsorbed species onto the surface of MgO thin films during prolonged annealing. Journal of Alloys and Compounds, 2018, 748, 355-362.	5.5	17
59	Surface and local electronic structure modification of MgO film using Zn and Fe ion implantation. Applied Surface Science, 2018, 432, 132-139.	6.1	17
60	Structural phase control and thermochromic modulation of VO ₂ thin films by post thermal annealing. Applied Surface Science, 2020, 529, 147093.	6.1	17
61	Magnetic, Electronic Structure And Interface Study Of Fe/MgO/Fe Multilayer. Advanced Materials Letters, 2014, 5, 372-377.	0.6	17
62	Atomic diffusion processes in MgO/Fe/MgO multilayer. Superlattices and Microstructures, 2015, 88, 609-619.	3.1	16
63	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
64	Chemical effects at interfaces of Fe/MgO/Fe magnetic tunnel junction. Superlattices and Microstructures, 2016, 100, 560-586.	3.1	15
65	Synthesis and characterization of Dy _x CoFe _{2-x} O ₄ nanoparticles. Superlattices and Microstructures, 2017, 109, 296-306.	3.1	15
66	Swift heavy ion-induced effects in Ce-doped nickel ferrite nanoparticles. Radiation Effects and Defects in Solids, 2012, 167, 307-318.	1.2	14
67	Atomic-scale investigation of MgO growth on fused quartz using angle-dependent NEXAFS measurements. RSC Advances, 2018, 8, 31275-31286.	3.6	14
68	Synthesis and Characterization of Some Alkaline-Earth-Oxide Nanoparticles. Journal of the Korean Physical Society, 2018, 72, 890-899.	0.7	14
69	Swift heavy ion irradiation induced effects in Fe/MgO/Fe/Co multilayer. Materials and Design, 2016, 101, 72-79.	7.0	13
70	Correlation of oxygen vacancies to various properties of amorphous zinc tin oxide films. Journal of Applied Physics, 2017, 122, .	2.5	13
71	Structure, optical and electronic structure studies of Ti:ZnO thin films. Journal of Alloys and Compounds, 2018, 759, 8-13.	5.5	13
72	A manganese phthalocyanine under water-oxidation reaction: new findings. Dalton Transactions, 2019, 48, 12147-12158.	3.3	13

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73	Local Electronic Structure Perspectives of Nanoparticle Growth: The Case of MgO. ACS Omega, 2019, 4, 7140-7150.	3.5	13
74	Effect of thermal annealing on the properties of ZnO thin films. Vacuum, 2021, 183, 109776.	3.5	13
75	Crystallite size induced crossover from paramagnetism to superparamagnetism in zinc ferrite nanoparticles. Superlattices and Microstructures, 2015, 86, 390-394.	3.1	12
76	Electronic structure of magnetic Fe/MgO/Fe/Co multilayer structure by NEXAFS spectroscopy. Vacuum, 2017, 138, 48-54.	3.5	12
77	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
78	Design of zinc ferrite thin films with excess tetrahedrally coordinated Fe ³⁺ ions and their magnetic interactions. Vacuum, 2019, 168, 108848.	3.5	12
79	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
80	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
81	Water oxidation by simple manganese salts in the presence of cerium(IV) ammonium nitrate: towards a complete picture. Dalton Transactions, 2018, 47, 1557-1565.	3.3	11
82	RELAXATION PHENOMENA IN NANOSTRUCTURED ZINC FERRITE. International Journal of Nanoscience, 2009, 08, 523-531.	0.7	10
83	Introduction to X-Ray Absorption Spectroscopy and Its Applications in Material Science. , 2018, , 497-548.		10
84	Are organic templates responsible for the optical and magnetic response of MgO nanoparticles?. Materials Chemistry Frontiers, 2018, 2, 1707-1715.	5.9	10
85	Phase transformation in Fe ₂ O ₃ nanoparticles: Electrical properties with local electronic structure. Physica B: Condensed Matter, 2021, 620, 413275.	2.7	10
86	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
87	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
88	Bottom-Up and Top-Down Approaches for MgO. , 0, , .		9
89	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
90	Characterizing the defects and ferromagnetism in metal oxides: The case of magnesium oxide. Materials Characterization, 2021, 179, 111366.	4.4	9

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91	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
92	Effect of thermal treatment on the magnetic properties of nanostructured zinc ferrite. Journal of Physics: Conference Series, 2010, 217, 012108.	0.4	8
93	Effect of precursor thermal history on the formation of amorphous and crystalline calcium carbonate. Particuology, 2017, 33, 29-34.	3.6	8
94	Development of XANES nanoscopy on BL7C at PLS-II. Journal of Synchrotron Radiation, 2020, 27, 545-550.	2.4	8
95	Spin dynamics investigation in nanosized zinc ferrite irradiated with 200MeV Ag ¹⁵⁺ ions. Materials Letters, 2014, 122, 277-280.	2.6	7
96	Synthesis and Local Electronic Structure of Calcite Nanoparticles. Journal of Nanoscience and Nanotechnology, 2016, 16, 11429-11433.	0.9	7
97	Nanosized manganese oxide/holmium oxide: a new composite for water oxidation. New Journal of Chemistry, 2017, 41, 13732-13741.	2.8	7
98	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
99	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
100	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
101	A trimetallic organometallic precursor for efficient water oxidation. Scientific Reports, 2019, 9, 3734.	3.3	7
102	MgO Thin Film Growth on Si(001) by Radio-Frequency Sputtering Method. Journal of Nanoscience and Nanotechnology, 2020, 20, 7530-7534.	0.9	7
103	Magnetic resonance in superparamagnetic zinc ferrite. Bulletin of Materials Science, 2013, 36, 751-754.	1.7	6
104	100ÅMeV O ⁷⁺ ion irradiation in nanosized zinc ferrite. Radiation Effects and Defects in Solids, 2011, 166, 564-570.	1.2	5
105	Magnetization in MgO based multilayers fabricated by e-beam evaporation. AIP Conference Proceedings, 2012, , .	0.4	5
106	Microstructure, local electronic structure and optical behaviour of zinc ferrite thin films on glass substrate. Royal Society Open Science, 2018, 5, 181330.	2.4	5
107	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
108	Nanosized (Ni _x Zn _x)Fe ₂ O ₄ for water oxidation. Nanoscale Advances, 2019, 1, 686-695.	4.6	5

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109	Fe ⁺ and Zn ⁺ ion implantation in MgO single crystals. <i>Materials Letters</i> , 2021, 301, 130232.	2.6	5
110	Synchrotron radiation based X-ray techniques for analysis of cathodes in Li rechargeable batteries. <i>RSC Advances</i> , 2022, 12, 20360-20378.	3.6	5
111	Consequences of electronic excitations in CoFe _{1.90} Dy _{0.10} O ₄ . <i>Current Applied Physics</i> , 2015, 15, 1650-1656.	2.4	4
112	Li(Ni _{1/3} Co _{1/3} Mn _{1/3})O ₂ cathode investigated using X-ray absorption spectroscopy and transmission X-ray microscopy. <i>Materials Letters</i> , 2020, 261, 126983.	2.6	4
113	Structural and Electronic Properties of Flexible ZnO and Ti/Mn:ZnO Thin Films. <i>Journal of the Korean Physical Society</i> , 2020, 77, 452-456.	0.7	4
114	Calcite Nanocrystals Investigated Using X-ray Absorption Spectroscopy. <i>Crystals</i> , 2021, 11, 490.	2.2	4
115	Local Electronic Structure of Calcite Investigated Using X-ray Absorption Spectroscopy at Different Span of Time. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 6713-6717.	0.9	3
116	Magnetic Behaviour of Granular GdMnO ₃ Film. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017, 30, 1419-1425.	1.8	2
117	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
118	Fabrication of Magnetic Tunnel Junctions. , 2019, , 53-77.		2
119	New findings and current controversies on oxidation of benzyl alcohol by a copper complex. <i>Materials Advances</i> , 2020, 1, 441-449.	5.4	2
120	Local structure investigation of Co ²⁺ Fe ²⁺ Si ⁴⁺ B ribbons by extended X-ray absorption fine-structure spectroscopy. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 240-246.	2.4	2
121	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
122	1/4-Raman Study of Nanosized Zinc Ferrite above the Threshold of Electronic Stopping Regime. , 2010, , .		1
123	Structural, optical and transport properties of 100 MeV oxygen ion irradiated V ₂ O ₅ thin film. , 2012, , .		1
124	Comparison of Properties of Pristine and 200 MeV Ag ¹⁵⁺ Ions Irradiated Li TM 3 wt% Doped V ₂ O ₅ Thin Films. <i>Transactions of the Indian Institute of Metals</i> , 2013, 66, 353-356.	1.5	1
125	Improved optical and electrical properties of 200 MeV Ag ^[sup 15+] irradiated 3 wt% 'Li' doped MoO ₃ thin film. , 2013, , .		1
126	XAS and XMCD investigation of zinc ferrite nanoparticles irradiated with 100 MeV O beam. , 2015, , .		1

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127	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
128	Effect of thermal annealing on the film and substrate/film interface: the case of ZnFe ₂ O ₄ . Applied Nanoscience (Switzerland), 0, , 1.	3.1	1
129	Ion Beam Induced Defects and Their Effects in Oxide Materials. SpringerBriefs in Physics, 2022, , .	0.7	1
130	⁵⁷ Fe Mössbauer spectroscopic study of nanostructured zinc ferrite. , 2008, , 393-400.		0
131	SHI induced enhancement in conductivity of PbTe thin film for thermoelectric applications. , 2012, , .		0