

Diptiranjana Sahu

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65 papers	1,925 citations	24 h-index	42 g-index
67 ext. papers	2,117 ext. citations	3.3 avg, IF	4.78 L-index

#	Paper	IF	Citations
65	ZnO/Ag/ZnO multilayer films for the application of a very low resistance transparent electrode. <i>Applied Surface Science</i> , 2006 , 252, 7509-7514	6.7	216
64	Micro-Raman and XPS studies of pure ZnO ceramics. <i>Physica B: Condensed Matter</i> , 2010 , 405, 2492-2497	2.8	167
63	High quality transparent conductive ZnO/Ag/ZnO multilayer films deposited at room temperature. <i>Thin Solid Films</i> , 2006 , 515, 876-879	2.2	118
62	Investigation of conductive and transparent Al-doped ZnO/Ag/Al-doped ZnO multilayer coatings by electron beam evaporation. <i>Thin Solid Films</i> , 2008 , 516, 4728-4732	2.2	113
61	Effect of holmium substitution for the improvement of multiferroic properties of BiFeO ₃ . <i>Journal of Physics and Chemistry of Solids</i> , 2010 , 71, 1557-1564	3.9	92
60	The properties of ZnO/Cu/ZnO multilayer films before and after annealing in the different atmosphere. <i>Thin Solid Films</i> , 2007 , 516, 208-211	2.2	66
59	Improved properties of Al-doped ZnO film by electron beam evaporation technique. <i>Microelectronics Journal</i> , 2007 , 38, 245-250	1.8	60
58	Synthesis, analysis and characterization of ordered mesoporous TiO ₂ /SBA-15 matrix: Effect of calcination temperature. <i>Microporous and Mesoporous Materials</i> , 2009 , 117, 640-649	5.3	58
57	Study on the electrical and optical properties of Ag/Al-doped ZnO coatings deposited by electron beam evaporation. <i>Applied Surface Science</i> , 2007 , 253, 4886-4890	6.7	56
56	Dependence of film thickness on the electrical and optical properties of ZnO/Cu/ZnO multilayers. <i>Applied Surface Science</i> , 2006 , 253, 915-918	6.7	56
55	Thickness dependence of optoelectronic properties in ALD grown ZnO thin films. <i>Applied Surface Science</i> , 2014 , 289, 27-32	6.7	53
54	Design of ZnO/Ag/ZnO multilayer transparent conductive films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006 , 130, 295-299	3.1	50
53	Characteristics of ZnO/Cu/ZnO multilayer films on copper layer properties. <i>Applied Surface Science</i> , 2006 , 253, 827-832	6.7	42
52	Defect driven multiferroicity in Gd doped BiFeO ₃ at room temperature. <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 3614-3622	2.8	41
51	Effect of substrate temperature and annealing treatment on the electrical and optical properties of silver-based multilayer coating electrodes. <i>Thin Solid Films</i> , 2006 , 515, 932-935	2.2	41
50	Studies on the properties of sputter-deposited Ag-doped ZnO films. <i>Microelectronics Journal</i> , 2007 , 38, 1252-1256	1.8	38
49	Influence of Ni doping on magnetic behavior of Mn doped ZnO. <i>Materials Letters</i> , 2011 , 65, 598-601	3.3	37

48	Correlation between structural, electrical and magnetic properties of GdMnO ₃ bulk ceramics. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 339, 168-174	2.8	31
47	Enhanced room-temperature magnetoresistance in partially melted La _{0.67} Ca _{0.33} MnO ₃ manganites. <i>Applied Physics Letters</i> , 2000 , 76, 763-765	3.4	30
46	Photoluminescence and Raman studies for the confirmation of oxygen vacancies to induce ferromagnetism in Fe doped Mn:ZnO compound. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 382, 111-116	2.8	27
45	Lanthanum-based manganite films on MgO using SrTiO ₃ as a template layer. <i>Journal of Applied Physics</i> , 2004 , 96, 1170-1173	2.5	27
44	Properties and biodegradability of chitosan/nylon 11 blending films. <i>Polymer Degradation and Stability</i> , 2006 , 91, 3097-3102	4.7	25
43	Electrochromic behavior of NiO film prepared by e-beam evaporation. <i>Journal of Science: Advanced Materials and Devices</i> , 2017 , 2, 225-232	4.2	24
42	Influence of doping rate in Er ³⁺ :ZnO films on emission characteristics. <i>Optics Letters</i> , 2008 , 33, 815-7	3	24
41	Synthesis of La _{0.7} Sr _{0.3} MnO ₃ materials by versatile chemical technique. <i>Physica B: Condensed Matter</i> , 2005 , 369, 209-214	2.8	24
40	Structural evolution and chemical bonds in electrochromic WO ₃ films during electrochemical cycles. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 225303	3	22
39	Properties of ZnO/Cu/ZnO multilayer films deposited by simultaneous RF and DC magnetron sputtering at different substrate temperatures. <i>Microelectronics Journal</i> , 2007 , 38, 299-303	1.8	22
38	Colossal magnetoresistance in doped manganites: A consequence of percolation and phase separation. <i>Applied Physics Letters</i> , 2001 , 79, 506-508	3.4	22
37	La _{1-x} Ba _x MnO ₃ epitaxial thin films by pulsed-laser deposition: A consequence of strain stabilization. <i>Applied Physics Letters</i> , 2002 , 81, 3597-3599	3.4	21
36	Annealing effect on the properties of La _{0.7} Sr _{0.3} MnO ₃ thin film grown on Si substrates by DC sputtering. <i>Physica B: Condensed Matter</i> , 2007 , 396, 75-80	2.8	20
35	XRD and Mössbauer spectroscopy study of Ho doped BiFeO ₃ . <i>Hyperfine Interactions</i> , 2013 , 219, 83-88	0.8	18
34	Enhanced metal-insulator transition and magnetoresistance in melt-processed La _{0.67} Ca _{0.33} MnO ₃ and Ho-doped manganites. <i>Applied Physics Letters</i> , 2001 , 78, 1598-1600	3.4	18
33	Enhancement of ferromagnetism and multiferroicity in Ho doped Fe rich BiFeO ₃ . <i>Solid State Communications</i> , 2012 , 152, 1176-1180	1.6	16
32	Electrochromic Nb-doped WO ₃ films: Effects of post annealing. <i>Ceramics International</i> , 2012 , 38, 2829-2833	2.9	16
31	Phase Composition and Photoluminescence Properties of Radio-Frequency Sputtered Pure and Sm ³⁺ -Doped ZrO ₂ Thin Films. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3481-3485	3.8	15

30	No room temperature ferromagnetism in Mn over-doped Zn _{1-x} Mn _x O (x>0.02). <i>Journal of Magnetism and Magnetic Materials</i> , 2011 , 323, 641-645	2.8	15
29	Structural and magnetic property of Mn:ZnO bulk ceramic doped with rare earth (Gd/Sm) atoms. <i>Physica B: Condensed Matter</i> , 2012 , 407, 3575-3579	2.8	13
28	Properties of doped ZnO thin films grown by simultaneous dc and RF magnetron sputtering. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010 , 171, 99-103	3.1	13
27	Existence of electrochromic reversibility at the 1000th cyclic voltammetry for spin coating WO ₃ film. <i>Ionics</i> , 2017 , 23, 3227-3233	2.7	12
26	The properties of La _{0.7} Sr _{0.3} MnO ₃ films prepared by dc magnetron sputtering using nanosized powder compacted target: Effect of substrate temperature. <i>Applied Surface Science</i> , 2008 , 255, 1870-1873	6.7	12
25	Interlayer coupling in a trilayer junction having bismuth as spacer layer. <i>Applied Physics Letters</i> , 2005 , 86, 192501	3.4	12
24	Effect of high temperature sintering schedule for enhanced CMR properties of La _{0.67} Ca _{0.33} MnO ₃ close to room temperature. <i>Materials Chemistry and Physics</i> , 2001 , 67, 267-271	4.4	11
23	Room temperature multiferroicity in Bi rich Fe deficient Gd doped Bi _{1.2} Gd _{0.1} Fe _{0.8} O ₃ . <i>Journal of Alloys and Compounds</i> , 2011 , 509, 2645-2649	5.7	10
22	Lateral parameter variations on the properties of La _{0.7} Sr _{0.3} MnO ₃ films prepared on Si (100) substrates by dc magnetron sputtering. <i>Journal of Alloys and Compounds</i> , 2010 , 503, 163-169	5.7	10
21	Sintering of Al ₂ O ₃ based oxide ceramics using thermal plasma. <i>Materials Chemistry and Physics</i> , 2001 , 67, 151-156	4.4	10
20	Unusual ferromagnetism in high purity ZnO sintered ceramics. <i>Materials Research Bulletin</i> , 2011 , 46, 42-47	4.1	9
19	Studies on dielectric properties of Al ₂ O ₃ oxide composites sintered by thermal plasma. <i>Materials Letters</i> , 2002 , 56, 817-821	3.3	9
18	Effect of Annealing Temperature and Oxygen Flow in the Properties of Ion Beam Sputtered SnO ₂ Thin Films. <i>Materials</i> , 2015 , 8, 5289-5297	3.5	8
17	Chemical pressure effect on CMR behavior of Sr substituted La _{0.67} Ca _{0.33-x} Sr _x MnO ₃ . <i>Physica B: Condensed Matter</i> , 2007 , 400, 155-162	2.8	8
16	Ultrafast sintering of La _{0.7} Ca _{0.3} MnO ₃ bulk ceramics by thermal plasma assisted heating. <i>Journal of Magnetism and Magnetic Materials</i> , 2008 , 320, 1485-1489	2.8	8
15	Thermal plasma assisted rapid sintering of MgO-doped Al ₂ O ₃ oxide composites. <i>Materials Chemistry and Physics</i> , 2008 , 107, 435-443	4.4	7
14	Synthesis and electrochromic property improvement of NiO films for device applications. <i>Thin Solid Films</i> , 2020 , 707, 138097	2.2	6
13	La _{0.67} Ca _{0.33} MnO ₃ thin films on Si (100) by DC magnetron sputtering technique using nanosized powder compacted target. <i>Materials Research Bulletin</i> , 2007 , 42, 1119-1127	5.1	6

12	Effect of sintering process on the magnetotransport properties of Ho-doped $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$. <i>Materials Chemistry and Physics</i> , 2003 , 77, 165-169	4.4	6
11	$\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ film prepared by dc sputtering on silicon substrate: Effect of working pressure. <i>Journal of Physics and Chemistry of Solids</i> , 2012 , 73, 622-625	3.9	5
10	Growth and Application of ZnO Nanostructures. <i>International Journal of Applied Ceramic Technology</i> , 2013 , 10, 814-838	2	5
9	Low K dielectrics in sintered Al_2O_3 oxide composites processed by thermal plasma heating. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004 , 106, 141-147	3.1	5
8	Ce-doped LCMO CMR manganites: a consequence of enhanced T_c and T_{IM} . <i>Bulletin of Materials Science</i> , 2011 , 34, 1501-1506	1.7	4
7	Effect of compositional variation in sintering behaviour of Al_2O_3 oxide composites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005 , 119, 29-35	3.1	4
6	Chemical pressure induced change in multiferroicity of $\text{Bi}_{1+2x}\text{Gd}_{2x}/2\text{Fe}_{1-x}\text{O}_3$ bulk ceramics. <i>Physica B: Condensed Matter</i> , 2017 , 510, 80-85	2.8	3
5	Structural, electrical and magnetic behavior in high-temperature sintered $\text{Zn}_{1-x}\text{Mn}_x\text{O}$. <i>Indian Journal of Physics</i> , 2015 , 89, 1143-1151	1.4	2
4	Magnetic characterization of radio frequency heat affected micron size Fe_3O_4 powders: a bio-application perspective. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 3204-9	1.3	2
3	Effects of site substitution and metal ion addition on doped manganites. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 10323-10329	1.8	2
2	Observation of quantum confinement effect on ZnO embedded mesoporous silica. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 2543-7	1.3	1
1	Dia-magnetic to ferro-magnetic behavioral change of Fe-catalysts based nitrogenated carbon nanotubes (NCNTs) by the process of chlorination/oxidation. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 8269-73	1.3	