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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	3,349 citations	38 h-index	57 g-index
65 ext. papers	3,642 ext. citations	5.1 avg, IF	5.41 L-index

#	Paper	IF	Citations
65	Development of CZTS thin films solar cells by pulsed laser deposition: Influence of pulse repetition rate. <i>Solar Energy</i> , 2011 , 85, 1354-1363	6.8	138
64	Structural, morphological, electrical and magnetic properties of Dy doped Ni _{0.8} Co substitutional spinel ferrite. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 329, 59-64	2.8	124
63	High-performance metal-semiconductor-metal UV photodetector based on spray deposited ZnO thin films. <i>Journal of Alloys and Compounds</i> , 2014 , 595, 55-59	5.7	122
62	Structural, optical and electrical properties of chemically sprayed CdO thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005 , 122, 67-71	3.1	118
61	Effect of fluorine doping on highly transparent conductive spray deposited nanocrystalline tin oxide thin films. <i>Applied Surface Science</i> , 2009 , 255, 9358-9364	6.7	115
60	Studies of compositional dependent CZTS thin film solar cells by pulsed laser deposition technique: An attempt to improve the efficiency. <i>Journal of Alloys and Compounds</i> , 2012 , 544, 145-151	5.7	113
59	Electrical, structural and optical properties of SnO ₂ :F thin films: Effect of the substrate temperature. <i>Journal of Alloys and Compounds</i> , 2009 , 488, 350-355	5.7	106
58	Zinc oxide mediated heterogeneous photocatalytic degradation of organic species under solar radiation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2011 , 104, 425-33	6.7	100
57	Spray deposition of highly transparent fluorine doped cadmium oxide thin films. <i>Applied Surface Science</i> , 2008 , 254, 2187-2195	6.7	99
56	Synthesis and characterization of Cu ₂ ZnSnS ₄ thin films grown by PLD: Solar cells. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 7439-7446	5.7	98
55	Structural and optoelectronic properties of antimony incorporated tin oxide thin films. <i>Journal of Alloys and Compounds</i> , 2010 , 505, 416-422	5.7	93
54	Sensing properties of sprayed antimony doped tin oxide thin films: Solution molarity. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 3108-3115	5.7	92
53	Structural and magnetic properties of Co _{1-x} MnxFe ₂ O ₄ (0 ≤ x ≤ 0.4) spinel ferrites synthesized by combustion route. <i>Journal of Alloys and Compounds</i> , 2010 , 490, 568-571	5.7	92
52	Effect of Sb doping on properties of conductive spray deposited SnO ₂ thin films. <i>Materials Chemistry and Physics</i> , 2000 , 64, 184-188	4.4	83
51	Room temperature synthesis and characterization of CdO nanowires by chemical bath deposition (CBD) method. <i>Applied Surface Science</i> , 2008 , 254, 3269-3273	6.7	72
50	Electrical and dielectric properties of co-precipitated nanocrystalline tin oxide. <i>Journal of Alloys and Compounds</i> , 2010 , 505, 743-749	5.7	68
49	Structural, morphological, dielectrical, magnetic and impedance properties of Co _{1-x} MnxFe ₂ O ₄ . <i>Journal of Alloys and Compounds</i> , 2013 , 555, 330-334	5.7	64

48	Synthesis and characterization of Sb doped ZnO thin films for photodetector application. <i>Optical Materials</i> , 2014 , 36, 833-838	3.3	61
47	Effect of solvent ratio on the properties of highly oriented sprayed fluorine-doped tin oxide thin films. <i>Materials Letters</i> , 2007 , 61, 3030-3036	3.3	60
46	Effect of concentration of SnCl ₄ on sprayed fluorine doped tin oxide thin films. <i>Journal of Alloys and Compounds</i> , 2008 , 455, 440-446	5.7	58
45	Solar photoelectrocatalytic activities of rhodamine-B using sprayed WO ₃ photoelectrode. <i>Journal of Alloys and Compounds</i> , 2016 , 655, 106-113	5.7	56
44	Photo-corrosion inhibition and photoactivity enhancement with tailored zinc oxide thin films. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2012 , 110, 15-21	6.7	56
43	Structural, optical and electrical properties of chemically sprayed nanosized gallium doped CdO thin films. <i>Journal of Alloys and Compounds</i> , 2010 , 496, 357-363	5.7	56
42	Effect of precursor concentration on the properties of ITO thin films. <i>Journal of Alloys and Compounds</i> , 2008 , 464, 387-392	5.7	56
41	Fast response ultraviolet Ga-doped ZnO based photoconductive detector. <i>Materials Research Bulletin</i> , 2011 , 46, 1734-1737	5.1	54
40	Preparation and characterization of spray deposited photoactive Sb ₂ S ₃ and Sb ₂ Se ₃ thin films using aqueous and non-aqueous media. <i>Materials Chemistry and Physics</i> , 2002 , 73, 6-12	4.4	54
39	High-performance UV detector based on Ga-doped zinc oxide thin films. <i>Applied Surface Science</i> , 2011 , 257, 9595-9599	6.7	52
38	ZnO based visible-blind UV photodetector by spray pyrolysis. <i>Superlattices and Microstructures</i> , 2014 , 76, 253-263	2.8	51
37	Solvent-dependent growth of sprayed FTO thin films with mat-like morphology. <i>Solar Energy Materials and Solar Cells</i> , 2008 , 92, 1439-1444	6.4	51
36	Distribution of cations in Co _{1-x} MnxFe ₂ O ₄ using XRD, magnetization and Mössbauer spectroscopy. <i>Journal of Alloys and Compounds</i> , 2015 , 646, 550-556	5.7	50
35	Influence of deposition temperature on morphological, optical, electrical and opto-electrical properties of highly textured nano-crystalline spray deposited CdO:Ga thin films. <i>Applied Surface Science</i> , 2010 , 257, 93-101	6.7	50
34	Photoelectrocatalytic degradation of benzoic acid using Au doped TiO ₂ thin films. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015 , 142, 204-11	6.7	48
33	Photoelectrocatalytic decolorization and degradation of textile effluent using ZnO thin films. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2012 , 114, 102-7	6.7	48
32	Photoelectrochemical properties of highly mobilized Li-doped ZnO thin films. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013 , 120, 1-9	6.7	41
31	Physicochemical properties of sprayed V ₂ O ₅ thin films: Effect of substrate temperature. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015 , 115, 57-65	6	40

30	UV assisted photoelectrocatalytic oxidation of phthalic acid using spray deposited Al doped zinc oxide thin films. <i>Journal of Alloys and Compounds</i> , 2014 , 611, 446-451	5.7	39
29	Influences in high quality zinc oxide films and their photoelectrochemical performance. <i>Journal of Alloys and Compounds</i> , 2010 , 503, 416-421	5.7	38
28	Properties of highly oriented spray-deposited fluorine-doped tin oxide thin films on glass substrates of different thickness. <i>Journal of Physics and Chemistry of Solids</i> , 2007 , 68, 1981-1988	3.9	38
27	Structural, compositional and electrical properties of co-precipitated zinc stannate. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 7508-7514	5.7	37
26	Hydroxyl radical's role in the remediation of wastewater. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2012 , 116, 66-74	6.7	31
25	Effect of quantity of spraying solution on the properties of spray deposited fluorine doped tin oxide thin films. <i>Physica B: Condensed Matter</i> , 2009 , 404, 1874-1877	2.8	31
24	Nanocrystalline immobilised ZnO photocatalyst for degradation of benzoic acid and methyl blue dye. <i>Materials Research Bulletin</i> , 2018 , 101, 324-333	5.1	30
23	Structural and optical properties of spray-deposited CdIn ₂ Se ₄ thin films. <i>Materials Chemistry and Physics</i> , 2003 , 78, 363-366	4.4	30
22	Effect of Ni content on the structural, morphological and magnetic properties of spray deposited Ni ₂ Zn ferrite thin films. <i>Materials Research Bulletin</i> , 2015 , 67, 47-54	5.1	29
21	Fabrication of ZnFe ₂ O ₄ films and its application in photoelectrocatalytic degradation of salicylic acid. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015 , 142, 118-23	6.7	29
20	Chemical synthesis of pinecone like ZnO films for UV photodetector applications. <i>Thin Solid Films</i> , 2017 , 642, 232-240	2.2	26
19	Photoelectrocatalytic degradation of oxalic acid by spray deposited nanocrystalline zinc oxide thin films. <i>Journal of Alloys and Compounds</i> , 2012 , 538, 237-243	5.7	26
18	Electron-phonon interaction and size effect study in catalyst based zinc oxide thin films. <i>Journal of Molecular Structure</i> , 2010 , 984, 186-193	3.4	26
17	N-doped ZnO based fast response ultraviolet photoconductive detector. <i>Solid-State Electronics</i> , 2012 , 68, 22-26	1.7	24
16	X-ray photoelectron spectroscopic study of catalyst based zinc oxide thin films. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 4603-4607	5.7	24
15	Development of CoFe ₂ O ₄ thin films for nitrogen dioxide sensing at moderate operating temperature. <i>Journal of Alloys and Compounds</i> , 2016 , 657, 414-421	5.7	22
14	Photodegradation of organic pollutants using N-titanium oxide catalyst. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014 , 141, 186-91	6.7	22
13	Exploring structural and magnetic properties of nanocrystalline iron oxide synthesized by autocombustion method. <i>Superlattices and Microstructures</i> , 2015 , 77, 181-195	2.8	20

12	Photoelectrocatalytic activity of spray deposited Fe ₂ O ₃ /ZnO photoelectrode for degradation of salicylic acid and methyl orange dye under solar radiation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019 , 248, 114386	3.1	19
11	The effect of Co substitution on the structural and magnetic properties of lithium ferrite synthesized by an autocombustion method. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 382, 152-157	2.8	19
10	Effect of intermittent time on structural, optoelectronic, luminescence properties of sprayed antimony doped tin oxide thin films. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015 , 112, 214-220	6	18
9	Studies on structural and electrical properties of Li _{0.5} Co _x Fe _{2.5-0.5x} O ₄ (0 ≤ x ≤ 0.6) spinel ferrite. <i>Physica B: Condensed Matter</i> , 2015 , 474, 47-52	2.8	18
8	Oxidative degradation of industrial wastewater using spray deposited TiO ₂ /Au:Fe ₂ O ₃ bilayered thin films. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014 , 141, 315-24	6.7	18
7	Photoelectrochemical performance of sprayed n-CdIn ₂ Se ₄ photoanodes. <i>Solar Energy</i> , 2011 , 85, 325-333	3.8	18
6	Synthesis and characterization of CdIn ₂ O ₄ thin films by spray pyrolysis technique. <i>Journal of Alloys and Compounds</i> , 2009 , 473, L20-L24	5.7	17
5	Studies on NO ₂ gas sensing properties of sprayed Co _{1-x} Mn _x Fe ₂ O ₄ (0 ≤ x ≤ 0.5) spinel ferrite thin films. <i>Ceramics International</i> , 2015 , 41, 7394-7401	5.1	16
4	Studies on morphological and electrical properties of Al incorporated combusted iron oxide. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 3943-3951	5.7	15
3	Photoelectrocatalytic activity of ferric oxide nanocatalyst: A synergistic effect of thickness. <i>Ceramics International</i> , 2014 , 40, 9463-9471	5.1	14
2	IR absorption spectroscopic study of mixed cobalt substituted lithium ferrites. <i>Physica B: Condensed Matter</i> , 2014 , 451, 39-42	2.8	10
1	Remediation of wastewater: role of hydroxyl radicals. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014 , 141, 210-6	6.7	6