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List of Publications by Year in descending order

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66
papers

1,728
citations

304368

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288905

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docs citations

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times ranked

2195
citing authors

#	ARTICLE	IF	CITATIONS
1	Judging phase purity of hematite (α -Fe ₂ O ₃) nanoparticles through structural and magnetic studies. <i>Materials Research Express</i> , 2021, 8, 055005.	0.8	3
2	Alteration of CdO Lattice Structure By Cu ²⁺ Doping for Enhanced Photocatalytic Application. <i>Brazilian Journal of Physics</i> , 2021, 51, 1550.	0.7	1
3	Structure and morphology of synthesized lanthanum hydroxide [La(OH) ₃] nanocrystalline powders: study on fuel to oxidant ratio. <i>Journal of the Australian Ceramic Society</i> , 2020, 56, 711-720.	1.1	3
4	Dependence of structural/morphological and magnetic properties of LaCoO ₃ nanoparticles prepared by citrate nitrate auto combustion. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	5
5	The role of pH and effect of calcination temperature on polymorphs and properties of iron oxide nanoparticles. <i>International Journal of Nanoparticles</i> , 2019, 11, 62.	0.1	1
6	Tailoring the physical properties and electrochromic performance of nebulizer spray coated Co ₃ O ₄ films through copper doping. <i>Solid State Ionics</i> , 2019, 334, 5-13.	1.3	6
7	Electrochromic performance of chromium-doped Co ₃ O ₄ nanocrystalline thin films prepared by nebulizer spray technique. <i>Journal of Alloys and Compounds</i> , 2019, 784, 49-59.	2.8	21
8	Substrate Temperature Induced (020) Growth Facets of Nebulizer Sprayed BiVO ₄ Thin Films for Effective Photodegradation of Rhodamine B. <i>Crystal Research and Technology</i> , 2019, 54, 1700257.	0.6	10
9	Role of fluorine doping on luminescence centers and enhanced photocatalytic performance of nebulizer sprayed TiO ₂ films under visible light. <i>Journal of Luminescence</i> , 2018, 198, 272-283.	1.5	11
10	Solvent volume dependent physical properties and electrocatalytic ability of nebulizer spray deposited CuInGaS ₂ counter electrode for dye-sensitized solar cells. <i>Thin Solid Films</i> , 2018, 653, 73-81.	0.8	4
11	Solvent volume-driven CuInAlS ₂ nanoflake counter electrode for effective electrocatalytic tri-iodide reduction in dye-sensitized solar cells. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 2485-2497.	1.2	6
12	Urea doped crystals formed with potassium-sodium pentaborate (K _{0.5} Na _{0.5} B ₅). <i>Surfaces and Interfaces</i> , 2018, 11, 14-21.	1.5	3
13	Low-cost and eco-friendly nebulizer spray coated CuInAlS ₂ counter electrode for dye-sensitized solar cells. <i>Physica B: Condensed Matter</i> , 2018, 537, 23-32.	1.3	11
14	Effect of fuels on the autocombustion reaction synthesis of nanocrystalline gadolinium sesquioxide (Gd ₂ O ₃) powder: evaluation of structure, morphology, optical and electrical properties. <i>Journal of the Australian Ceramic Society</i> , 2018, 54, 279-293.	1.1	3
15	A systematic probe in the properties of spray coated mixed spinel films of cobalt and manganese. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 112, 262-269.	1.9	10
16	Optimization of CdO nanoparticles by Zr ⁴⁺ doping for better photocatalytic activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 97-116.	1.1	24
17	Dependence of photoluminescence on doping concentration of Ho ³⁺ in nanocrystalline La(OH) ₃ . <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 18718-18726.	1.1	2
18	Analysis of optical dispersion parameters and electrochromic properties of manganese-doped Co ₃ O ₄ dendrite structured thin films. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 122, 118-129.	1.9	34

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19	Influence of Ag-Dopant on Structural Optical and Electrical Properties of Cu(1-x)AgxO Thin Films Prepared By Chemical Spray Pyrolysis Technique. Journal of Nanoscience and Technology, 2018, 4, 542-545.	0.2	6
20	Synthesis and photoluminescent characteristics of Dy ³⁺ doped Gd ₂ O ₃ phosphors. Materials Research Express, 2017, 4, 025019.	0.8	18
21	Self assembled sulfur induced interconnected nanostructure TiO ₂ electrode for visible light photoresponse and photocatalytic application. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 91, 148-160.	1.3	19
22	Structural, Optical and Ethanol Gas Sensing Performance of Aluminium Doped Zinc Oxide (AZO) Thin Films by Nebulizer Spray Technique. Springer Proceedings in Physics, 2017, , 351-365.	0.1	0
23	Nebulizer spray-deposited CuInGaS ₂ thin films, a viable candidate for counter electrode in dye-sensitized solar cells. Solar Energy, 2017, 157, 58-70.	2.9	19
24	Effect of solution molarity on optical dispersion energy parameters and electrochromic performance of Co ₃ O ₄ films. Optical Materials, 2017, 72, 717-729.	1.7	52
25	Facile preparation of hierarchical nanostructured CuInS ₂ counter electrodes for dye-sensitized solar cells. Materials Research Express, 2017, 4, 125001.	0.8	3
26	Novel report on single phase BiFeO ₃ nanorod layer synthesised rapidly by novel hot-wall spray pyrolysis system: evidence of high magnetization due to surface spins. Journal of Materials Science: Materials in Electronics, 2017, 28, 3217-3225.	1.1	6
27	Effect of sputtering power on properties and photovoltaic performance of CIGS thin film solar cells. Materials Research Innovations, 2017, 21, 286-293.	1.0	21
28	Electrochemical sensing of glucose and photocatalytic performance of porous Co ₃ O ₄ films by nebulizer spray technique. Materials Chemistry and Physics, 2017, 186, 561-573.	2.0	22
29	CuInS ₂ Layer Deposition Through Nebulizer Spray Technique for Solar Cell Fabrication. Springer Proceedings in Physics, 2017, , 451-464.	0.1	3
30	Influence of substrate temperature on crystalline copper aluminium oxide thin films synthesized through chemical spray pyrolysis (CSP) technique. Journal of Materials Science: Materials in Electronics, 2016, 27, 8991-8995.	1.1	5
31	Fast electrochromic response of porous-structured cobalt oxide (Co ₃ O ₄) thin films by novel nebulizer spray pyrolysis technique. Ionics, 2016, 22, 1911-1926.	1.2	27
32	Synthesis and characterization of hematite nanopowders. Materials Research Express, 2016, 3, 105037.	0.8	21
33	Effect of thickness on structural and magnetic properties of NiO thin films prepared by chemical spray pyrolysis (CSP) technique. Materials Letters, 2016, 164, 547-550.	1.3	23
34	Tunable morphology with selective faceted growth of visible light active TiO ₂ thin films by facile hydrothermal method: structural, optical and photocatalytic properties. Journal of Materials Science: Materials in Electronics, 2016, 27, 5020-5032.	1.1	19
35	Ethanol sensing behaviour of CuMnO ₂ nanostructured thin films. Journal of Materials Science: Materials in Electronics, 2016, 27, 4810-4815.	1.1	8
36	Effect of thickness on physico-chemical properties of p-NiO (bunsenite) thin films prepared by the chemical spray pyrolysis (CSP) technique. Optik, 2016, 127, 1442-1449.	1.4	17

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37	Synthesis, growth, and spectroscopic studies of nonlinear optical mixed borate crystal. Asian Journal of Research in Social Sciences and Humanities, 2016, 6, 2401.	0.0	0
38	Effect of nitrogen doped titanium dioxide (N-TiO ₂) thin films by jet nebulizer spray technique suitable for photoconductive study. Journal of Materials Science: Materials in Electronics, 2015, 26, 3573-3582.	1.1	34
39	An insight in the structural, morphological, electrical and optical properties of spray pyrolysed Co ₃ O ₄ thin films. Materials Chemistry and Physics, 2015, 162, 852-859.	2.0	40
40	Visible light driven photocatalytic degradation of Rhodamine B and Direct Red using cobalt oxide nanoparticles. Ceramics International, 2015, 41, 9301-9313.	2.3	117
41	Assessment of CuO thin films for its suitability as window absorbing layer in solar cell fabrications. Materials Research Bulletin, 2015, 68, 1-8.	2.7	82
42	Facile synthesis of nanostructured monoclinic bismuth vanadate by a co-precipitation method: Structural, optical and photocatalytic properties. Materials Science in Semiconductor Processing, 2015, 30, 343-351.	1.9	58
43	Preparation and Characterization of CuO Thin Films Prepared by Spray Pyrolysis Technique for Ethanol Gas Sensing Application. Asian Journal of Applied Sciences, 2014, 7, 671-684.	0.4	15
44	A novel reaction path to barium dysprosium zirconate [Ba ₂ DyZrO(6- $\hat{1}$)] by the auto ignition combustion synthesis method. Materials Science in Semiconductor Processing, 2013, 16, 797-801.	1.9	1
45	Synthesis, vacuum sintering and dielectric characterization of zirconia (t-ZrO ₂) nanopowder. Journal of Alloys and Compounds, 2011, 509, 6819-6823.	2.8	32
46	XRD and XPS characterization of mixed valence Mn ₃ O ₄ hausmannite thin films prepared by chemical spray pyrolysis technique. Applied Surface Science, 2010, 256, 2920-2926.	3.1	299
47	Fabrication techniques and material properties of dielectric MgO thin films – A status review. CIRP Journal of Manufacturing Science and Technology, 2010, 2, 92-113.	2.3	52
48	Low temperature TiO ₂ rutile phase thin film synthesis by chemical spray pyrolysis (CSP) of titanyl acetylacetonate. Materials Science in Semiconductor Processing, 2010, 13, 389-394.	1.9	29
49	Growth of ZnSe thin layers on different substrates and their structural consequences with bath temperature. Physica B: Condensed Matter, 2010, 405, 2485-2491.	1.3	32
50	Spray deposition and property analysis of anatase phase titania (TiO ₂) nanostructures. Thin Solid Films, 2010, 519, 129-135.	0.8	41
51	Defect engineering and opto electronic property modifications by 1.5 MeV Li-implantation on nano crystalline MgIn ₂ O ₄ thin films. Radiation Effects and Defects in Solids, 2010, 165, 265-276.	0.4	0
52	Optimized deposition and characterization of nanocrystalline magnesium indium oxide thin films for opto-electronic applications. Materials Research Bulletin, 2009, 44, 1051-1057.	2.7	9
53	Ultrasonic study on binary mixture containing dimethylformamide and methanol over the entire miscibility range (0 < x < 1) at temperatures 303 – 323 K. Fluid Phase Equilibria, 2009, 281, 78-86.	1.4	31
54	Crystal structure and thermal characterization of cadmium oxalate [CdC ₂ O ₄ ·3H ₂ O] and barium-doped cadmium oxalate [Ba _{0.5} Cd _{0.5} (C ₂ O ₄) ₂ ·5H ₂ O] single crystals grown in silica gel. Inorganica Chimica Acta, 2009, 362, 1535-1540.	1.2	15

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55	Effect of embedded lithium nanoclusters on structural, optical and electrical characteristics of MgO thin films. <i>Radiation Physics and Chemistry</i> , 2009, 78, 914-921.	1.4	9
56	Growth aspects of barium oxalate monohydrate single crystals in gel medium. <i>Crystal Research and Technology</i> , 2008, 43, 1307-1313.	0.6	10
57	Magnesium indium oxide (MgIn ₂ O ₄) spinel thin films: Chemical spray pyrolysis (CSP) growth and materials characterizations. <i>Journal of Colloid and Interface Science</i> , 2008, 328, 396-401.	5.0	10
58	Synthesis and characterization of spray pyrolysed MgIn ₂ O ₄ spinel thin films for novel applications. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 467-473.	1.3	6
59	Studies on transparent spinel magnesium indium oxide thin films prepared by chemical spray pyrolysis. <i>Thin Solid Films</i> , 2008, 517, 510-516.	0.8	16
60	Growth mechanism and optoelectronic properties of nanocrystalline In ₂ O ₃ films prepared by chemical spray pyrolysis of metal-organic precursor. <i>Physica B: Condensed Matter</i> , 2008, 403, 544-554.	1.3	67
61	Tailoring optical and electrical properties of MgO thin films by 1.5MeV H ⁺ implantation to fluences. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 2564-2571.	0.6	9
62	Optimized growth and characterization of cadmium oxalate single crystals in silica gel. <i>Solid State Sciences</i> , 2008, 10, 557-562.	1.5	32
63	Influence of metal organic and inorganic precursors on spray pyrolyzed ceramic MgO (200) thin films for epitaxial over layers. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 3773-3779.	1.5	5
64	Spray pyrolysis deposition and characterization of highly (100) oriented magnesium oxide thin films. <i>Crystal Research and Technology</i> , 2007, 42, 867-875.	0.6	64
65	Synthesis and materials properties of transparent conducting In ₂ O ₃ films prepared by sol-gel-spin coating technique. <i>Journal of Physics and Chemistry of Solids</i> , 2007, 68, 1380-1389.	1.9	32
66	Preparation and characterization of spray deposited n-type WO ₃ thin films for electrochromic devices. <i>Materials Research Bulletin</i> , 2004, 39, 1479-1489.	2.7	134