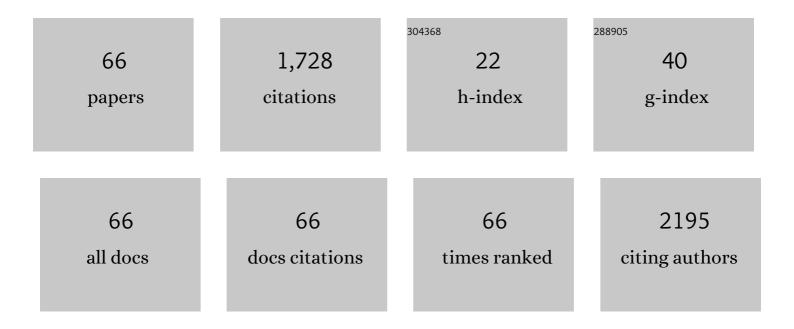
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	XRD and XPS characterization of mixed valence Mn3O4 hausmannite thin films prepared by chemical spray pyrolysis technique. Applied Surface Science, 2010, 256, 2920-2926.	3.1	299
2	Preparation and characterization of spray deposited n-type WO3 thin films for electrochromic devices. Materials Research Bulletin, 2004, 39, 1479-1489.	2.7	134
3	Visible light driven photocatalytic degradation of Rhodamine B and Direct Red using cobalt oxide nanoparticles. Ceramics International, 2015, 41, 9301-9313.	2.3	117
4	Assessment of CuO thin films for its suitablity as window absorbing layer in solar cell fabrications. Materials Research Bulletin, 2015, 68, 1-8.	2.7	82
5	Growth mechanism and optoelectronic properties of nanocrystalline In2O3 films prepared by chemical spray pyrolysis of metal-organic precursor. Physica B: Condensed Matter, 2008, 403, 544-554.	1.3	67
6	Spray pyrolysis deposition and characterization of highly (100) oriented magnesium oxide thin films. Crystal Research and Technology, 2007, 42, 867-875.	0.6	64
7	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
8	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
9	Effect of solution molarity on optical dispersion energy parameters and electrochromic performance of Co3O4 films. Optical Materials, 2017, 72, 717-729.	1.7	52
10	Spray deposition and property analysis of anatase phase titania (TiO2) nanostructures. Thin Solid Films, 2010, 519, 129-135.	0.8	41
11	An insight in the structural, morphological, electrical and optical properties of spray pyrolysed Co3O4 thin films. Materials Chemistry and Physics, 2015, 162, 852-859.	2.0	40
12	Effect of nitrogen doped titanium dioxide (N-TiO2) 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
13	Analysis of optical dispersion parameters and electrochromic properties of manganese-doped Co3O4 dendrite structured thin films. Journal of Physics and Chemistry of Solids, 2018, 122, 118-129.	1.9	34
14	Synthesis and materials properties of transparent conducting In2O3 films prepared by sol–gel-spin coating technique. Journal of Physics and Chemistry of Solids, 2007, 68, 1380-1389.	1.9	32
15	Optimized growth and characterization of cadmium oxalate single crystals in silica gel. Solid State Sciences, 2008, 10, 557-562.	1.5	32
16	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
17	Synthesis, vacuum sintering and dielectric characterization of zirconia (t-ZrO2) nanopowder. Journal of Alloys and Compounds, 2011, 509, 6819-6823.	2.8	32
18	Ultrasonic study on binary mixture containing dimethylformamide and methanol over the entire miscibility range (0 <x<1) 2009,="" 281,="" 303–323k.="" 78-86.<="" at="" equilibria,="" fluid="" phase="" td="" temperatures=""><td>1.4</td><td>31</td></x<1)>	1.4	31

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19	Low temperature TiO2 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
20	Fast electrochromic response of porous-structured cobalt oxide (Co3O4) thin films by novel nebulizer spray pyrolysis technique. Ionics, 2016, 22, 1911-1926.	1.2	27
21	Optimization of CdO nanoparticlesÂby Zr4+ doping for better photocatalytic activity. Journal of Materials Science: Materials in Electronics, 2018, 29, 97-116.	1.1	24
22	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
23	Electrochemical sensing of glucose and photocatalytic performance of porous Co3O4 films by nebulizer spray technique. Materials Chemistry and Physics, 2017, 186, 561-573.	2.0	22
24	Synthesis and characterization of hematite nanopowders. Materials Research Express, 2016, 3, 105037.	0.8	21
25	Effect of sputtering power on properties and photovoltaic performance of CICS thin film solar cells. Materials Research Innovations, 2017, 21, 286-293.	1.0	21
26	Electrochromic performance of chromium-doped Co3O4 nanocrystalline thin films prepared by nebulizer spray technique. Journal of Alloys and Compounds, 2019, 784, 49-59.	2.8	21
27	Tunable morphology with selective faceted growth of visible light active TiO2 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
28	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
29	Nebulizer spray-deposited CuInGaS2 thin films, a viable candidate for counter electrode in dye-sensitized solar cells. Solar Energy, 2017, 157, 58-70.	2.9	19
30	Synthesis and photoluminescent characteristics of Dy ³⁺ doped Gd ₂ O ₃ phosphors. Materials Research Express, 2017, 4, 025019.	0.8	18
31	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
32	Studies on transparent spinel magnesium indium oxide thin films prepared by chemical spray pyrolysis. Thin Solid Films, 2008, 517, 510-516.	0.8	16
33	Crystal structure and thermal characterization of cadmium oxalate [CdC2O4·3H2O] and barium-doped cadmium oxalate [Ba0.5Cd0.5(C2O4)2·5H2O] single crystals grown in silica gel. Inorganica Chimica Acta, 2009, 362, 1535-1540.	1.2	15
34	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
35	Role of fluorine doping on luminescence centers and enhanced photocatalytic performance of nebulizer sprayed TiO2 films under visible light. Journal of Luminescence, 2018, 198, 272-283.	1.5	11
36	Low-cost and eco-friendly nebulizer spray coated CuInAIS 2 counter electrode for dye-sensitized solar cells. Physica B: Condensed Matter, 2018, 537, 23-32.	1.3	11

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37	Growth aspects of barium oxalate monohydrate single crystals in gel medium. Crystal Research and Technology, 2008, 43, 1307-1313.	0.6	10
38	Magnesium indium oxide (MgIn2O4) spinel thin films: Chemical spray pyrolysis (CSP) growth and materials characterizations. Journal of Colloid and Interface Science, 2008, 328, 396-401.	5.0	10
39	A systematic probe in the properties of spray coated mixed spinel films of cobalt and manganese. Journal of Physics and Chemistry of Solids, 2018, 112, 262-269.	1.9	10
40	Substrate Temperature Induced (020) Growth Facets of Nebulizer Sprayed BiVO ₄ Thin Films for Effective Photodegradation of Rhodamine B. Crystal Research and Technology, 2019, 54, 1700257.	0.6	10
41	Tailoring optical and electrical properties of MgO thin films by 1.5MeV H+ implantation to fluences. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2564-2571.	0.6	9
42	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
43	Effect of embedded lithium nanoclusters on structural, optical and electrical characteristics of MgO thin films. Radiation Physics and Chemistry, 2009, 78, 914-921.	1.4	9
44	Ethanol sensing behaviour of CuMnO2 nanostructured thin films. Journal of Materials Science: Materials in Electronics, 2016, 27, 4810-4815.	1.1	8
45	Synthesis and characterization of spray pyrolysed MgIn2O4 spinel thin films for novel applications. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 467-473.	1.3	6
46	Novel report on single phase BiFeO3 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
47	Solvent volume-driven CulnAlS2 nanoflake counter electrode for effective electrocatalytic tri-iodide reduction in dye-sensitized solar cells. Journal of Solid State Electrochemistry, 2018, 22, 2485-2497.	1.2	6
48	Tailoring the physical properties and electrochromic performance of nebulizer spray coated Co3O4 films through copper doping. Solid State Ionics, 2019, 334, 5-13.	1.3	6
49	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
50	Influence of metal organic and inorganic precursors on spray pyrolyzed ceramic MgO (200) thin films for epitaxial over layers. Journal of Non-Crystalline Solids, 2008, 354, 3773-3779.	1.5	5
51	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
52	Dependence of structural/morphological and magnetic properties of LaCoO3 nanoparticles prepared by citrate nitrate auto combustion. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	5
53	Solvent volume dependent physical properties and electrocatalytic ability of nebulizer spray deposited CuInGaS2 counter electrode for dye-sensitized solar cells. Thin Solid Films, 2018, 653, 73-81.	0.8	4
54	Facile preparation of hierarchical nanostructured CuInS2 counter electrodes for dye-sensitized solar cells. Materials Research Express, 2017, 4, 125001.	0.8	3

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55	Urea doped crystals formed with potassium–sodium pentaborate (K 0.5 Na 0.5 B5). Surfaces and Interfaces, 2018, 11, 14-21.	1.5	3
56	Effect of fuels on the autocombustion reaction synthesis of nanocrystalline gadolinium sesquioxide (Gd2O3) powder: evaluation of structure, morphology, optical and electrical properties. Journal of the Australian Ceramic Society, 2018, 54, 279-293.	1.1	3
57	Structure and morphology of synthesized lanthanum hydroxide [La(OH)3] nanocrystalline powders: study on fuel to oxidant ratio. Journal of the Australian Ceramic Society, 2020, 56, 711-720.	1.1	3
58	Judging phase purity of hematite (α-Fe2O3) nanoparticles through structural and magnetic studies. Materials Research Express, 2021, 8, 055005.	0.8	3
59	CulnS2 Layer Deposition Through Nebulizer Spray Technique for Solar Cell Fabrication. Springer Proceedings in Physics, 2017, , 451-464.	0.1	3
60	Dependence of photoluminescence on doping concentration of Ho3+ in nanocrystalline La(OH)3. Journal of Materials Science: Materials in Electronics, 2018, 29, 18718-18726.	1.1	2
61	A novel reaction path to barium dysprosium zirconate [Ba2DyZrO(6-Î)] by the auto ignition combustion synthesis method. Materials Science in Semiconductor Processing, 2013, 16, 797-801.	1.9	1
62	The role of pH and effect of calcination temperature on polymorphs and properties of iron oxide nanoparticles. International Journal of Nanoparticles, 2019, 11, 62.	0.1	1
63	Alteration of CdO Lattice Structure By Cu2+ Doping for Enhanced Photocatalytic Application. Brazilian Journal of Physics, 2021, 51, 1550.	0.7	1
64	Defect engineering and opto electronic property modifications by 1.5ÂMeV Li+implantation on nano crystalline MgIn2O4thin films. Radiation Effects and Defects in Solids, 2010, 165, 265-276.	0.4	0
65	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
66	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