Ravi Dhas C

List of Publications by Year
in descending order

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54	1,521	361045	315357
papers	citations	20	38
		h-index	g-index

55	55	55	1973
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Direct-grown nebulizer-sprayed nickel-copper mixed metal oxide nanocomposite films as bifunctional electrocatalyst for water splitting. Ionics, 2022, 28, 383-396.	1.2	9
2	Nebulizer sprayed nickel-manganese (Ni-Mn) mixed metal oxide nanocomposite coatings for high-performance electrochromic device applications. Journal of Solid State Electrochemistry, 2022, 26, 1271-1290.	1.2	5
3	Insights on photocatalytic dye inactivation and antimicrobial activity of pH-dependent facile synthesised copper oxide nanoparticles. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	4
4	Template-free and cost-effective nebulizer spray-coated BiVO4 nanostructured thin films for photocatalytic applications. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	4
5	Effect of pH on visible-light-driven photocatalytic degradation of facile synthesized bismuth vanadate nanoparticles. Materials Research Express, 2020, 7, 015036.	0.8	20
6	Jet nebulizer-spray coated CZTS film as Pt-free electrocatalyst in photoelectrocatalytic fuel cells. Applied Surface Science, 2019, 463, 994-1000.	3.1	10
7	Influence of precursor aging time period on physical and photocatalytic properties of nebulizer spray coated BiVO4 thin films. Solid State Sciences, 2019, 92, 36-45.	1.5	13
8	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
9	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
10	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
11	Jet-nebulizer-spray coated copper zinc tin sulphide film for low cost platinum-free electrocatalyst in solar cells. Materials Letters, 2018, 220, 122-125.	1.3	14
12	Solvent volume-driven CuInAlS2 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
13	Low-cost and eco-friendly nebulizer spray coated CuInAlS 2 counter electrode for dye-sensitized solar cells. Physica B: Condensed Matter, 2018, 537, 23-32.	1.3	11
14	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
15	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
16	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
17	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
18	Effect of solution molarity on optical dispersion energy parameters and electrochromic performance of Co3O4 films. Optical Materials, 2017, 72, 717-729.	1.7	52

#	Article	IF	Citations
19	Facile preparation of hierarchical nanostructured CuInS2 counter electrodes for dye-sensitized solar cells. Materials Research Express, 2017, 4, 125001.	0.8	3
20	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
21	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
22	CuInS2 Layer Deposition Through Nebulizer Spray Technique for Solar Cell Fabrication. Springer Proceedings in Physics, 2017, , 451-464.	0.1	3
23	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
24	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
25	Enhanced electrical behaviour of monoclinic p-CuNb 2 O 6. Materials Research Bulletin, 2016, 84, 39-45.	2.7	8
26	Effect of fluorine (an anionic dopant) on transparent conducting properties of Sb (a cationic) doped ZnO thin films deposited using a simplified spray technique. Materials Research Bulletin, 2016, 83, 442-452.	2.7	35
27	Fabrication of a novel low-cost triple layer system (TaZO/Ag/TaZO) with an enhanced quality factor for transparent electrode applications. RSC Advances, 2016, 6, 63314-63324.	1.7	5
28	Effect of size reduction on the magnetic and antibacterial properties of ZnO:Zr:Mn nanoparticles synthesized by a cost-effective chemical method. Journal of Materials Science: Materials in Electronics, 2016, 27, 5825-5832.	1.1	5
29	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
30	Ethanol sensing behaviour of CuMnO2 nanostructured thin films. Journal of Materials Science: Materials in Electronics, 2016, 27, 4810-4815.	1.1	8
31	Enhancement of the Hackee's quality factor of solâ€“gel spin coated ZnO thin films by MO doping. Materials Science in Semiconductor Processing, 2016, 41, 150-154.	1.9	14
32	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
33	Influence of Mo doping on transparent conducting properties of ZnO films prepared by a simplified spray technique. Journal of Materials Science: Materials in Electronics, 2015, 26, 7649-7654.	1.1	9
34	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
35	Visible light driven photocatalytic degradation of Rhodamine B and Direct Red using cobalt oxide nanoparticles. Ceramics International, 2015, 41, 9301-9313.	2.3	117
36	Effect of annealing on the transparent conducting properties of fluorine doped zinc oxide and tin oxide thin films â€“ A comparative study. Superlattices and Microstructures, 2015, 83, 121-130.	1.4	18

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37	Enhancement of optical and electrical properties of SILAR deposited ZnO thin films through fluorine doping and vacuum annealing for photovoltaic applications. Materials Science in Semiconductor Processing, 2015, 35, 189-196.	1.9	24
38	Self-cleaning and superhydrophobic CuO coating by jet-nebulizer spray pyrolysis technique. CrystEngComm, 2015, 17, 2624-2628.	1.3	66
39	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
40	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
41	Impact of spray flux density and vacuum annealing on the transparent conducting properties of doubly doped (SnÂ+ÂF) zinc oxide films deposited using a simplified spray technique. Vacuum, 2014, 107, 68-76.	1.6	36
42	Influence of spray flux density on the photocatalytic activity and certain physical properties of ZnO thin films. Journal of Materials Science: Materials in Electronics, 2014, 25, 2546-2553.	1.1	23
43	Simultaneous glucose sensing and biohydrogen evolution from direct photoelectrocatalytic glucose oxidation on robust Cu₂Oâ€“TiO₂ electrodes. Physical Chemistry Chemical Physics, 2014, 16, 21237-21242.	1.3	54
44	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
45	Effect of pyrolytic temperature on the properties of nano-structured Cuo optimized for ethanol sensing applications. Journal of Materials Science: Materials in Electronics, 2013, 24, 1004-1011.	1.1	29
46	Property enhancement of transparent conducting zinc oxide thin filmsâ€”Effect of simultaneous (Sn+F) doping. Journal of Physics and Chemistry of Solids, 2013, 74, 1794-1801.	1.9	28
47	Effect of annealing on the properties of nanostructured CuO thin films for enhanced ethanol sensitivity. Ceramics International, 2013, 39, 7685-7691.	2.3	58
48	Influence of deposition parameters and heat treatment on the NO2 sensing properties of nanostructured indium tin oxide thin film. Thin Solid Films, 2011, 519, 3378-3382.	0.8	20
49	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
50	Spray deposition and property analysis of anatase phase titania (TiO2) nanostructures. Thin Solid Films, 2010, 519, 129-135.	0.8	41
51	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
52	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
53	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
54	Correlation of annealing temperature on physico-chemical properties and electrochromic performance of nebulizer spray-coated NiO films. Inorganic and Nano-Metal Chemistry, 0, , 1-13.	0.9	1