

Ravi Dhas C

List of Publications by Year in descending order

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54
papers

1,521
citations

361045

20
h-index

315357

38
g-index

55
all docs

55
docs citations

55
times ranked

1973
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Visible light driven photocatalytic degradation of Rhodamine B and Direct Red using cobalt oxide nanoparticles. Ceramics International, 2015, 41, 9301-9313.	2.3	117
3	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
4	Self-cleaning and superhydrophobic CuO coating by jet-nebulizer spray pyrolysis technique. CrystEngComm, 2015, 17, 2624-2628.	1.3	66
5	Effect of annealing on the properties of nanostructured CuO thin films for enhanced ethanol sensitivity. Ceramics International, 2013, 39, 7685-7691.	2.3	58
6	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
7	Simultaneous glucose sensing and biohydrogen evolution from direct photoelectrocatalytic glucose oxidation on robust Cu ₂ O/TiO ₂ electrodes. Physical Chemistry Chemical Physics, 2014, 16, 21237-21242.	1.3	54
8	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
9	Spray deposition and property analysis of anatase phase titania (TiO ₂) nanostructures. Thin Solid Films, 2010, 519, 129-135.	0.8	41
10	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
11	Impact of spray flux density and vacuum annealing on the transparent conducting properties of doubly doped (Sn ⁺ Al ⁺) zinc oxide films deposited using a simplified spray technique. Vacuum, 2014, 107, 68-76.	1.6	36
12	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
13	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
14	Analysis of optical dispersion parameters and electrochromic properties of manganese-doped Co ₃ O ₄ dendrite structured thin films. Journal of Physics and Chemistry of Solids, 2018, 122, 118-129.	1.9	34
15	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
16	Property enhancement of transparent conducting zinc oxide thin films—Effect of simultaneous (Sn ⁺ F) doping. Journal of Physics and Chemistry of Solids, 2013, 74, 1794-1801.	1.9	28
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Influence of spray flux density on the photocatalytic activity and certain physical properties of ZnO thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 2546-2553.	1.1	23
20	Electrochemical sensing of glucose and photocatalytic performance of porous Co ₃ O ₄ films by nebulizer spray technique. <i>Materials Chemistry and Physics</i> , 2017, 186, 561-573.	2.0	22
21	Effect of sputtering power on properties and photovoltaic performance of CIGS thin film solar cells. <i>Materials Research Innovations</i> , 2017, 21, 286-293.	1.0	21
22	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
23	Influence of deposition parameters and heat treatment on the NO ₂ sensing properties of nanostructured indium tin oxide thin film. <i>Thin Solid Films</i> , 2011, 519, 3378-3382.	0.8	20
24	Effect of pH on visible-light-driven photocatalytic degradation of facile synthesized bismuth vanadate nanoparticles. <i>Materials Research Express</i> , 2020, 7, 015036.	0.8	20
25	Tunable morphology with selective faceted growth of visible light active TiO ₂ thin films by facile hydrothermal method: structural, optical and photocatalytic properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 5020-5032.	1.1	19
26	Self assembled sulfur induced interconnected nanostructure TiO ₂ electrode for visible light photoresponse and photocatalytic application. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 91, 148-160.	1.3	19
27	Nebulizer spray-deposited CuInGaS ₂ thin films, a viable candidate for counter electrode in dye-sensitized solar cells. <i>Solar Energy</i> , 2017, 157, 58-70.	2.9	19
28	Effect of annealing on the transparent conducting properties of fluorine doped zinc oxide and tin oxide thin films – A comparative study. <i>Superlattices and Microstructures</i> , 2015, 83, 121-130.	1.4	18
29	Preparation and Characterization of CuO Thin Films Prepared by Spray Pyrolysis Technique for Ethanol Gas Sensing Application. <i>Asian Journal of Applied Sciences</i> , 2014, 7, 671-684.	0.4	15
30	Enhancement of the Hackee's quality factor of sol-gel spin coated ZnO thin films by MO doping. <i>Materials Science in Semiconductor Processing</i> , 2016, 41, 150-154.	1.9	14
31	Jet-nebulizer-spray coated copper zinc tin sulphide film for low cost platinum-free electrocatalyst in solar cells. <i>Materials Letters</i> , 2018, 220, 122-125.	1.3	14
32	Influence of precursor aging time period on physical and photocatalytic properties of nebulizer spray coated BiVO ₄ thin films. <i>Solid State Sciences</i> , 2019, 92, 36-45.	1.5	13
33	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
34	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
35	Jet nebulizer-spray coated CZTS film as Pt-free electrocatalyst in photoelectrocatalytic fuel cells. <i>Applied Surface Science</i> , 2019, 463, 994-1000.	3.1	10
36	Optimized deposition and characterization of nanocrystalline magnesium indium oxide thin films for opto-electronic applications. <i>Materials Research Bulletin</i> , 2009, 44, 1051-1057.	2.7	9

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37	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
38	Influence of Mo doping on transparent conducting properties of ZnO films prepared by a simplified spray technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 7649-7654.	1.1	9
39	Direct-grown nebulizer-sprayed nickel-copper mixed metal oxide nanocomposite films as bifunctional electrocatalyst for water splitting. <i>Ionics</i> , 2022, 28, 383-396.	1.2	9
40	Enhanced electrical behaviour of monoclinic p-CuNb ₂ O ₆ . <i>Materials Research Bulletin</i> , 2016, 84, 39-45.	2.7	8
41	Ethanol sensing behaviour of CuMnO ₂ nanostructured thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 4810-4815.	1.1	8
42	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
43	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
44	Influence of substrate temperature on crystalline copper aluminium oxide thin films synthesized through chemical spray pyrolysis (CSP) technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 8991-8995.	1.1	5
45	Fabrication of a novel low-cost triple layer system (TaZO/Ag/TaZO) with an enhanced quality factor for transparent electrode applications. <i>RSC Advances</i> , 2016, 6, 63314-63324.	1.7	5
46	Effect of size reduction on the magnetic and antibacterial properties of ZnO:Zr:Mn nanoparticles synthesized by a cost-effective chemical method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 5825-5832.	1.1	5
47	Nebulizer sprayed nickel-manganese (Ni-Mn) mixed metal oxide nanocomposite coatings for high-performance electrochromic device applications. <i>Journal of Solid State Electrochemistry</i> , 2022, 26, 1271-1290.	1.2	5
48	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
49	Template-free and cost-effective nebulizer spray-coated BiVO ₄ nanostructured thin films for photocatalytic applications. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	4
50	Insights on photocatalytic dye inactivation and antimicrobial activity of pH-dependent facile synthesised copper oxide nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	4
51	Facile preparation of hierarchical nanostructured CuInS ₂ counter electrodes for dye-sensitized solar cells. <i>Materials Research Express</i> , 2017, 4, 125001.	0.8	3
52	CuInS ₂ Layer Deposition Through Nebulizer Spray Technique for Solar Cell Fabrication. <i>Springer Proceedings in Physics</i> , 2017, , 451-464.	0.1	3
53	Correlation of annealing temperature on physico-chemical properties and electrochromic performance of nebulizer spray-coated NiO films. <i>Inorganic and Nano-Metal Chemistry</i> , 0, , 1-13.	0.9	1
54	Structural, Optical and Ethanol Gas Sensing Performance of Aluminium Doped Zinc Oxide (AZO) Thin Films by Nebulizer Spray Technique. <i>Springer Proceedings in Physics</i> , 2017, , 351-365.	0.1	0