

Dr Y Ashok Kumar Reddy

List of Publications by Year in descending order

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80
papers

2,253
citations

236833

25
h-index

223716

46
g-index

80
all docs

80
docs citations

80
times ranked

3040
citing authors

#	ARTICLE	IF	CITATIONS
1	Superior UV photodetector performance of TiO ₂ films using Nb doping. Journal of Physics and Chemistry of Solids, 2022, 160, 110350.	1.9	24
2	Advancements of uncooled infrared microbolometer materials: A review. Sensors and Actuators A: Physical, 2022, 342, 113611.	2.0	31
3	Effect of sputter pressure on UV photodetector performance of WO ₃ thin films. Applied Surface Science, 2021, 536, 147947.	3.1	38
4	Enhanced Performance of WO ₃ Photodetectors Through Hybrid Graphene-Layer Integration. ACS Applied Electronic Materials, 2021, 3, 2056-2066.	2.0	28
5	Recent advances in development of nanostructured photodetectors from ultraviolet to infrared region: A review. Chemosphere, 2021, 279, 130473.	4.2	77
6	Silver nanoparticle embedded polymethacrylic acid/ polyvinylpyrrolidone nanofibers for catalytic application. Journal of Environmental Chemical Engineering, 2021, 9, 106291.	3.3	7
7	Improved UV photodetector performance of NiO films by substitutional incorporation of Li. Materials Letters, 2021, 301, 130296.	1.3	15
8	Oxygen partial pressure dependent UV photodetector performance of WO ₃ sputtered thin films. Journal of Alloys and Compounds, 2020, 816, 152565.	2.8	52
9	Ag-doped WO ₃ nanostructure films for organic volatile gas sensor application. Journal of Materials Science: Materials in Electronics, 2020, 31, 12158-12168.	1.1	8
10	Enhanced UV photodetector performance in bi-layer TiO ₂ /WO ₃ sputtered films. Applied Surface Science, 2019, 494, 575-582.	3.1	44
11	Influence of passivation layer on thermal stability of Nb:TiO _{2-x} samples for shutter-less infrared image sensors. Infrared Physics and Technology, 2019, 100, 52-56.	1.3	3
12	Biomimetic synthesis of silver nanoparticles using <i>Syzygium aromaticum</i> (clove) extract: Catalytic and antimicrobial effects. Applied Organometallic Chemistry, 2019, 33, e4867.	1.7	52
13	Improvement of UV photodetector properties of reactively sputtered TiO _{2-x} films through vacuum annealing. Journal of Materials Science: Materials in Electronics, 2019, 30, 20687-20695.	1.1	11
14	Enhanced bolometric properties of nickel oxide thin films for infrared image sensor applications by substitutional incorporation of Li. Ceramics International, 2018, 44, 7808-7813.	2.3	4
15	Influence of Nb Doping Concentration on Bolometric Properties of RF Magnetron Sputtered Nb:TiO _{2-x} Films. Journal of Electronic Materials, 2018, 47, 2171-2176.	1.0	2
16	Assisted green synthesis of copper nanoparticles using <i>Syzygium aromaticum</i> bud extract: Physical, optical and antimicrobial properties. Optik, 2018, 154, 593-600.	1.4	169
17	Synthesis of silver nanoparticles in an eco-friendly way using <i>Phyllanthus amarus</i> leaf extract: Antimicrobial and catalytic activity. Advanced Powder Technology, 2018, 29, 86-93.	2.0	69
18	Improvement of the thermal stability of Nb:TiO _{2-x} samples for uncooled infrared detectors. Journal Physics D: Applied Physics, 2018, 51, 025104.	1.3	5

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19	Effect of polymer concentration and annealing temperature on TiO ₂ -PVP composite nanofiber mats prepared with homemade electrospinning. AIP Conference Proceedings, 2018, , .	0.3	2
20	A facile bio-synthesis of copper nanoparticles using <i>Cuminum cyminum</i> seed extract: antimicrobial studies. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2018, 9, 035005.	0.7	11
21	Bolometric properties of oxygen atmosphere annealed Nb:TiO ₂ films for infrared detectors. Ceramics International, 2017, 43, 9207-9213.	2.3	5
22	Synthesis and characterization of monoclinic phase of zirconia. Journal of the Australian Ceramic Society, 2017, 53, 29-31.	1.1	4
23	Sputtering pressure dependent bolometric properties of Ni _{1-x} O thin films for uncooled bolometer applications. Ceramics International, 2017, 43, 9498-9504.	2.3	4
24	Effect of sputtering pressure on microstructure and bolometric properties of Nb:TiO _{2-x} films for infrared image sensor applications. Journal of Applied Physics, 2016, 119, .	1.1	12
25	Role of capping agents in controlling silver nanoparticles size, antibacterial activity and potential application as optical hydrogen peroxide sensor. RSC Advances, 2016, 6, 36171-36179.	1.7	162
26	Nb doping effect on TiO _{2-x} films for bolometer applications. Journal of Physics and Chemistry of Solids, 2016, 91, 128-135.	1.9	9
27	Instant biosynthesis of silver nanoparticles using Lawsonia inermis leaf extract: Innate catalytic, antimicrobial and antioxidant activities. Journal of Molecular Liquids, 2016, 219, 474-481.	2.3	63
28	Substrate temperature dependent bolometric properties of TiO _{2-x} films for infrared image sensor applications. Ceramics International, 2016, 42, 17123-17127.	2.3	14
29	Superior catalytic activity of synthesized triangular silver nanoplates with optimized sizes and shapes. Catalysis Science and Technology, 2016, 6, 8289-8299.	2.1	18
30	Sesbania grandiflora leaf extract assisted green synthesis of silver nanoparticles: Antimicrobial activity. Materials Today: Proceedings, 2016, 3, 1977-1984.	0.9	28
31	The effect of annealing on the structural, optical and electrical properties of Titanium Nitride (TiN) thin films prepared by DC magnetron sputtering with supported discharge. Journal of Materials Science: Materials in Electronics, 2016, 27, 10427-10434.	1.1	20
32	Synthesis of copper nanoparticles and role of pH on particle size control. Materials Today: Proceedings, 2016, 3, 1985-1991.	0.9	41
33	Investigations of LBMO thin films deposited on different substrates by electron beam evaporation. Applied Nanoscience (Switzerland), 2016, 6, 461-466.	1.6	9
34	Influence of deposition temperature on TiO _{2-x} films for infrared image sensor applications: TiO _{2-x} films: Infrared image sensor applications. , 2015, , .		0
35	Leaf extract assisted green synthesis and characterization of silver nanoparticles. AIP Conference Proceedings, 2015, , .	0.3	1
36	Bolometric properties of reactively sputtered TiO _{2-x} films for thermal infrared image sensors. Journal Physics D: Applied Physics, 2015, 48, 355104.	1.3	18

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37	Lantana camara leaf extract mediated silver nanoparticles: Antibacterial, green catalyst. Journal of Photochemistry and Photobiology B: Biology, 2015, 149, 84-92.	1.7	79
38	Oxygen partial pressure and thermal annealing dependent properties of RF magnetron sputtered TiO ₂ ~x films. Materials Science in Semiconductor Processing, 2015, 32, 107-116.	1.9	20
39	Green synthesis and characterization of silver nanoparticles using Lantana camara leaf extract. Materials Science and Engineering C, 2015, 49, 373-381.	3.8	227
40	Biosynthesis of silver nanoparticles using Momordica charantia leaf broth: Evaluation of their innate antimicrobial and catalytic activities. Journal of Photochemistry and Photobiology B: Biology, 2015, 146, 1-9.	1.7	99
41	Enhanced bolometric properties of TiO ₂ ~x thin films by thermal annealing. Applied Physics Letters, 2015, 107, .	1.5	18
42	Systematic Investigation on Deposition Temperature Effect of Ni~xO Thin Films for Uncooled Infrared Image Sensor Applications. IEEE Sensors Journal, 2015, 15, 7234-7241.	2.4	7
43	Enhanced antimicrobial activity of silver nanoparticles with controlled particle size by pH variation. Powder Technology, 2015, 269, 110-117.	2.1	97
44	Influence of substrate temperature on the electrical, morphological and structural properties of electron beam evaporated LBMO thin films. Electronic Materials Letters, 2014, 10, 159-163.	1.0	2
45	Biogenic nano-scale silver particles by Tephrosia purpurea leaf extract and their inborn antimicrobial activity. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 121, 164-172.	2.0	180
46	Biosynthesis of silver nanoparticles using Plectranthus amboinicus leaf extract and its antimicrobial activity. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 128, 257-262.	2.0	98
47	Effect of oxygen partial pressure on the properties of Ni~Ag composite films grown by DC reactive magnetron sputtering. Journal of Alloys and Compounds, 2014, 583, 396-403.	2.8	36
48	Effect of substrate temperature on structural, optical and electrical properties of sputtered NiO-Ag nanocrystalline thin films. Electronic Materials Letters, 2014, 10, 907-913.	1.0	8
49	Thickness Dependence Study of Electron Beam Evaporated LBMO Manganite Thin Films for Bolometer Applications. Journal of Electronic Materials, 2014, 43, 1436-1442.	1.0	0
50	Preparation and characterization of Nickel Oxide thin films by direct current reactive magnetron sputtering at different substrate temperatures. Electronic Materials Letters, 2014, 10, 887-892.	1.0	8
51	Influence of thermal annealing on structural, morphological, optical and electrical properties of Ni~Cu composite thin films. Materials Express, 2014, 4, 32-40.	0.2	12
52	Enhancement of NH ₃ Gas Sensing Properties of NiO-Based Thin Films Deposited by DC Reactive Magnetron Sputtering. Science of Advanced Materials, 2014, 6, 178-188.	0.1	5
53	Influence of oxygen partial pressure on the structural, optical and electrical properties of Cu-doped NiO thin films. Physica Scripta, 2013, 87, 015801.	1.2	8
54	Substrate Temperature Dependent Properties of Cu Doped NiO Films Deposited by DC Reactive Magnetron Sputtering. Journal of Materials Science and Technology, 2013, 29, 647-651.	5.6	24

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55	Structural and electrical properties of pure and Cu doped NiO films deposited at various oxygen partial pressures. , 2013, , .		1
56	Synthesis of silver nanoparticles by soft chemical method: Effect of reducing agent concentration. , 2013, , .		3
57	Influence of oxygen partial pressure on the physical properties of Ag doped NiO thin films. , 2013, , .		0
58	Influence of pH on the properties of PVA capped silver nanoparticles. , 2013, , .		1
59	Structural, compositional and Raman studies of ZnS: Ce, Cu co-doped nanoparticles. , 2013, , .		2
60	Synthesis and structural characterization of CZTS nanoparticles. , 2013, , .		0
61	Effect of pH on the Characteristics of Cu ₂ ZnSnS ₄ Nanoparticles. , 2013, 2013, 1-5.		7
62	Effect of Cu Doping on the Gas Sensing Properties of Nano-Crystalline NiO Thin Films. Journal of Surfaces and Interfaces of Materials, 2013, 1, 143-147.	0.5	0
63	Structural and morphological properties of sputtered NiO thin films at various sputtering pressures. , 2012, , .		1
64	Growth and characterization of NiO thin films prepared by dc reactive magnetron sputtering. Solid State Sciences, 2011, 13, 314-320.	1.5	39
65	Effect of oxygen partial pressure on the structural, optical and electrical properties of sputtered NiO films. Ceramics International, 2011, 37, 2837-2843.	2.3	36
66	Thickness dependent properties of nickel oxide thin films deposited by dc reactive magnetron sputtering. Vacuum, 2011, 85, 949-954.	1.6	41
67	STRUCTURAL, ELECTRICAL AND MAGNETIC CHARACTERIZATION OF Ni-Cu-Zn SPINEL FERRITES. Modern Physics Letters B, 2011, 25, 211-222.	1.0	5
68	Structural, Morphological and Optical properties of Sputtered Nickel oxide Thin Films. , 2011, , .		0
69	Structural and Optical Behaviour of Ni Doped CdS Nanoparticles Synthesized by Chemical Co-Precipitation Method. Acta Physica Polonica A, 2011, 120, A-52-A-54.	0.2	14
70	Synthesis and characterization of Zn _{1-x} Mn _x S nanocrystalline films prepared on glass substrates. Applied Physics A: Materials Science and Processing, 2008, 91, 627-630.	1.1	8
71	Effect of Post-deposition Annealing on the Physical Properties of DC Magnetron Sputtered Molybdenum Oxide Films. AIP Conference Proceedings, 2008, , .	0.3	0
72	Strain, luminescence, and electrical properties of Zn _{1-x} Mn _x S nanocrystalline films prepared on silicon wafers. Journal of Applied Physics, 2008, 104, .	1.1	7

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73	Structural and Electrical Properties of Resistive Thermal Evaporated Cd _{1-x} Mn _x S Nano-Crystalline Films. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2007, 37, 373-376.	0.6	0
74	Copper nitride films deposited by dc reactive magnetron sputtering. Journal of Materials Science: Materials in Electronics, 2007, 18, 1003-1008.	1.1	33
75	Structural and optical characterization of DC magnetron sputtered molybdenum oxide films. Ionics, 2007, 13, 451-454.	1.2	4
76	Effect of substrate temperature on the physical properties of dc magnetron sputtered Cu ₂ O films. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 844-853.	0.8	18
77	Characterization of CuAlO ₂ films prepared by dc reactive magnetron sputtering. Journal of Materials Science: Materials in Electronics, 2006, 17, 615-620.	1.1	32
78	Bias voltage dependence properties of cadmium oxide films deposited by d.c. reactive magnetron sputtering. Journal of Materials Science: Materials in Electronics, 2004, 15, 389-394.	1.1	10
79	Summary Abstract: Characterization of sprayed antimony doped tin oxide films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1987, 5, 1688-1690.	0.9	3
80	Oxygen Atmosphere Annealing Effect on the Thermal Stability of TiO _{2-x} Based Films for Shutter-Less Infrared Image Sensors. Key Engineering Materials, 0, 775, 272-277.	0.4	0