

# Dr Y Ashok Kumar Reddy

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Green synthesis and characterization of silver nanoparticles using <i>Lantana camara</i> leaf extract. <i>Materials Science and Engineering C</i> , 2015, 49, 373-381.	3.8	227
2	Biogenic nano-scale silver particles by <i>Tephrosia purpurea</i> leaf extract and their inborn antimicrobial activity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 121, 164-172.	2.0	180
3	Assisted green synthesis of copper nanoparticles using <i>Syzygium aromaticum</i> bud extract: Physical, optical and antimicrobial properties. <i>Optik</i> , 2018, 154, 593-600.	1.4	169
4	Role of capping agents in controlling silver nanoparticles size, antibacterial activity and potential application as optical hydrogen peroxide sensor. <i>RSC Advances</i> , 2016, 6, 36171-36179.	1.7	162
5	Biosynthesis of silver nanoparticles using <i>Momordica charantia</i> leaf broth: Evaluation of their innate antimicrobial and catalytic activities. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 146, 1-9.	1.7	99
6	Biosynthesis of silver nanoparticles using <i>Plectranthus amboinicus</i> leaf extract and its antimicrobial activity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 128, 257-262.	2.0	98
7	Enhanced antimicrobial activity of silver nanoparticles with controlled particle size by pH variation. <i>Powder Technology</i> , 2015, 269, 110-117.	2.1	97
8	<i>Lantana camara</i> leaf extract mediated silver nanoparticles: Antibacterial, green catalyst. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 149, 84-92.	1.7	79
9	Recent advances in development of nanostructured photodetectors from ultraviolet to infrared region: A review. <i>Chemosphere</i> , 2021, 279, 130473.	4.2	77
10	Synthesis of silver nanoparticles in an eco-friendly way using <i>Phyllanthus amarus</i> leaf extract: Antimicrobial and catalytic activity. <i>Advanced Powder Technology</i> , 2018, 29, 86-93.	2.0	69
11	Instant biosynthesis of silver nanoparticles using <i>Lawsonia inermis</i> leaf extract: Innate catalytic, antimicrobial and antioxidant activities. <i>Journal of Molecular Liquids</i> , 2016, 219, 474-481.	2.3	63
12	Biomimetic synthesis of silver nanoparticles using <i>Syzygium aromaticum</i> (clove) extract: Catalytic and antimicrobial effects. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4867.	1.7	52
13	Oxygen partial pressure dependent UV photodetector performance of WO <sub>3</sub> sputtered thin films. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152565.	2.8	52
14	Enhanced UV photodetector performance in bi-layer TiO <sub>2</sub> /WO <sub>3</sub> sputtered films. <i>Applied Surface Science</i> , 2019, 494, 575-582.	3.1	44
15	Thickness dependent properties of nickel oxide thin films deposited by dc reactive magnetron sputtering. <i>Vacuum</i> , 2011, 85, 949-954.	1.6	41
16	Synthesis of copper nanoparticles and role of pH on particle size control. <i>Materials Today: Proceedings</i> , 2016, 3, 1985-1991.	0.9	41
17	Growth and characterization of NiO thin films prepared by dc reactive magnetron sputtering. <i>Solid State Sciences</i> , 2011, 13, 314-320.	1.5	39
18	Effect of sputter pressure on UV photodetector performance of WO <sub>3</sub> thin films. <i>Applied Surface Science</i> , 2021, 536, 147947.	3.1	38

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19	Effect of oxygen partial pressure on the structural, optical and electrical properties of sputtered NiO films. <i>Ceramics International</i> , 2011, 37, 2837-2843.	2.3	36
20	Effect of oxygen partial pressure on the properties of NiO-Ag composite films grown by DC reactive magnetron sputtering. <i>Journal of Alloys and Compounds</i> , 2014, 583, 396-403.	2.8	36
21	Copper nitride films deposited by dc reactive magnetron sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , 2007, 18, 1003-1008.	1.1	33
22	Characterization of CuAlO <sub>2</sub> films prepared by dc reactive magnetron sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , 2006, 17, 615-620.	1.1	32
23	Advancements of uncooled infrared microbolometer materials: A review. <i>Sensors and Actuators A: Physical</i> , 2022, 342, 113611.	2.0	31
24	Sesbania grandiflora leaf extract assisted green synthesis of silver nanoparticles: Antimicrobial activity. <i>Materials Today: Proceedings</i> , 2016, 3, 1977-1984.	0.9	28
25	Enhanced Performance of WO <sub>3</sub> Photodetectors Through Hybrid Graphene-Layer Integration. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2056-2066.	2.0	28
26	Substrate Temperature Dependent Properties of Cu Doped NiO Films Deposited by DC Reactive Magnetron Sputtering. <i>Journal of Materials Science and Technology</i> , 2013, 29, 647-651.	5.6	24
27	Superior UV photodetector performance of TiO <sub>2</sub> films using Nb doping. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 160, 110350.	1.9	24
28	Oxygen partial pressure and thermal annealing dependent properties of RF magnetron sputtered TiO <sub>2-x</sub> films. <i>Materials Science in Semiconductor Processing</i> , 2015, 32, 107-116.	1.9	20
29	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. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 10427-10434.	1.1	20
30	Effect of substrate temperature on the physical properties of dc magnetron sputtered Cu <sub>2</sub> O films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 844-853.	0.8	18
31	Bolometric properties of reactively sputtered TiO <sub>2-x</sub> films for thermal infrared image sensors. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 355104.	1.3	18
32	Enhanced bolometric properties of TiO <sub>2-x</sub> thin films by thermal annealing. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	18
33	Superior catalytic activity of synthesized triangular silver nanoplates with optimized sizes and shapes. <i>Catalysis Science and Technology</i> , 2016, 6, 8289-8299.	2.1	18
34	Improved UV photodetector performance of NiO films by substitutional incorporation of Li. <i>Materials Letters</i> , 2021, 301, 130296.	1.3	15
35	Substrate temperature dependent bolometric properties of TiO <sub>2-x</sub> films for infrared image sensor applications. <i>Ceramics International</i> , 2016, 42, 17123-17127.	2.3	14
36	Structural and Optical Behaviour of Ni Doped CdS Nanoparticles Synthesized by Chemical Co-Precipitation Method. <i>Acta Physica Polonica A</i> , 2011, 120, A-52-A-54.	0.2	14

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37	Influence of thermal annealing on structural, morphological, optical and electrical properties of NiO-Cu composite thin films. <i>Materials Express</i> , 2014, 4, 32-40.	0.2	12
38	Effect of sputtering pressure on microstructure and bolometric properties of Nb:TiO <sub>2-x</sub> films for infrared image sensor applications. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	12
39	A facile bio-synthesis of copper nanoparticles using <i>Cuminum cyminum</i> seed extract: antimicrobial studies. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2018, 9, 035005.	0.7	11
40	Improvement of UV photodetector properties of reactively sputtered TiO <sub>2-x</sub> films through vacuum annealing. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 20687-20695.	1.1	11
41	Bias voltage dependence properties of cadmium oxide films deposited by d.c. reactive magnetron sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , 2004, 15, 389-394.	1.1	10
42	Nb doping effect on TiO <sub>2-x</sub> films for bolometer applications. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 91, 128-135.	1.9	9
43	Investigations of LBMO thin films deposited on different substrates by electron beam evaporation. <i>Applied Nanoscience (Switzerland)</i> , 2016, 6, 461-466.	1.6	9
44	Synthesis and characterization of Zn <sub>1-x</sub> Mn <sub>x</sub> S nanocrystalline films prepared on glass substrates. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 91, 627-630.	1.1	8
45	Influence of oxygen partial pressure on the structural, optical and electrical properties of Cu-doped NiO thin films. <i>Physica Scripta</i> , 2013, 87, 015801.	1.2	8
46	Effect of substrate temperature on structural, optical and electrical properties of sputtered NiO-Ag nanocrystalline thin films. <i>Electronic Materials Letters</i> , 2014, 10, 907-913.	1.0	8
47	Preparation and characterization of Nickel Oxide thin films by direct current reactive magnetron sputtering at different substrate temperatures. <i>Electronic Materials Letters</i> , 2014, 10, 887-892.	1.0	8
48	Ag-doped WO <sub>3</sub> nanostructure films for organic volatile gas sensor application. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 12158-12168.	1.1	8
49	Strain, luminescence, and electrical properties of Zn <sub>1-x</sub> Mn <sub>x</sub> S nanocrystalline films prepared on silicon wafers. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	7
50	Effect of pH on the Characteristics of Cu <sub>2</sub> ZnSnS <sub>4</sub> Nanoparticles. , 2013, 2013, 1-5.		7
51	Systematic Investigation on Deposition Temperature Effect of Ni <sub>1-x</sub> O Thin Films for Uncooled Infrared Image Sensor Applications. <i>IEEE Sensors Journal</i> , 2015, 15, 7234-7241.	2.4	7
52	Silver nanoparticle embedded polymethacrylic acid/ polyvinylpyrrolidone nanofibers for catalytic application. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106291.	3.3	7
53	STRUCTURAL, ELECTRICAL AND MAGNETIC CHARACTERIZATION OF Ni-Cu-Zn SPINEL FERRITES. <i>Modern Physics Letters B</i> , 2011, 25, 211-222.	1.0	5
54	Bolometric properties of oxygen atmosphere annealed Nb:TiO <sub>2-x</sub> films for infrared detectors. <i>Ceramics International</i> , 2017, 43, 9207-9213.	2.3	5

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55	Improvement of the thermal stability of Nb:TiO <sub>2</sub> samples for uncooled infrared detectors. Journal Physics D: Applied Physics, 2018, 51, 025104.	1.3	5
56	Enhancement of NH <sub>3</sub> 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
57	Structural and optical characterization of DC magnetron sputtered molybdenum oxide films. Ionics, 2007, 13, 451-454.	1.2	4
58	Synthesis and characterization of monoclinic phase of zirconia. Journal of the Australian Ceramic Society, 2017, 53, 29-31.	1.1	4
59	Sputtering pressure dependent bolometric properties of Ni <sub>1-x</sub> O thin films for uncooled bolometer applications. Ceramics International, 2017, 43, 9498-9504.	2.3	4
60	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
61	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
62	Synthesis of silver nanoparticles by soft chemical method: Effect of reducing agent concentration. , 2013, , .		3
63	Influence of passivation layer on thermal stability of Nb:TiO <sub>2</sub> samples for shutter-less infrared image sensors. Infrared Physics and Technology, 2019, 100, 52-56.	1.3	3
64	Structural, compositional and Raman studies of ZnS: Ce, Cu co-doped nanoparticles. , 2013, , .		2
65	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
66	Influence of Nb Doping Concentration on Bolometric Properties of RF Magnetron Sputtered Nb:TiO <sub>2</sub> Films. Journal of Electronic Materials, 2018, 47, 2171-2176.	1.0	2
67	Effect of polymer concentration and annealing temperature on TiO <sub>2</sub> -PVP composite nanofiber mats prepared with homemade electrospinning. AIP Conference Proceedings, 2018, , .	0.3	2
68	Structural and morphological properties of sputtered NiO thin films at various sputtering pressures. , 2012, , .		1
69	Structural and electrical properties of pure and Cu doped NiO films deposited at various oxygen partial pressures. , 2013, , .		1
70	Influence of pH on the properties of PVA capped silver nanoparticles. , 2013, , .		1
71	Leaf extract assisted green synthesis and characterization of silver nanoparticles. AIP Conference Proceedings, 2015, , .	0.3	1
72	Structural and Electrical Properties of Resistive Thermal Evaporated Cd <sub>1-x</sub> Mn <sub>x</sub> S Nano-Crystalline Films. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2007, 37, 373-376.	0.6	0

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73	Effect of Post-deposition Annealing on the Physical Properties of DC Magnetron Sputtered Molybdenum Oxide Films. AIP Conference Proceedings, 2008, , .	0.3	0
74	Structural, Morphological and Optical properties of Sputtered Nickel oxide Thin Films. , 2011, , .		0
75	Influence of oxygen partial pressure on the physical properties of Ag doped NiO thin films. , 2013, , .		0
76	Synthesis and structural characterization of CZTS nanoparticles. , 2013, , .		0
77	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
78	Influence of deposition temperature on TiO <sub>2</sub> ~x films for infrared image sensor applications: TiO <sub>2</sub> ~x films: Infrared image sensor applications. , 2015, , .		0
79	Oxygen Atmosphere Annealing Effect on the Thermal Stability of TiO <sub>2-x</sub> Based Films for Shutter-Less Infrared Image Sensors. Key Engineering Materials, 0, 775, 272-277.	0.4	0
80	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