Mohamed Sh Abdel-wahab

List of Publications by Year
in descending order

68 papers	1,543 citations	331670 21 h-index	345221 36 g-index
70 all docs	70 docs citations	70 times ranked	1752 citing authors

#	Article	IF	Citations
1	Enhanced the photocatalytic activity of Ni-doped ZnO thin films: Morphological, optical and XPS analysis. Superlattices and Microstructures, 2016, 94, 108-118.	3.1	186
2	RF sputtered CuO thin films: Structural, optical and photo-catalytic behavior. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 81, 83-90.	2.7	102
3	Biodegradable elastic nanofibrous platforms with integrated flexible heaters for on-demand drug delivery. Scientific Reports, 2017, 7, 9220.	3.3	90
4	Structural, optical and photo-catalytic activity of nanocrystalline NiO thin films. Materials Research Bulletin, 2016, 75, 71-77.	5.2	66
5	Advance Deposition Techniques for Thin Film and Coating. , 0, , .		52
6	Flow controlled fabrication of N doped ZnO thin films and estimation of their performance for sunlight photocatalytic decontamination of water. Chemical Engineering Journal, 2016, 291, 115-127.	12.7	50
7	Nonlinear optical parameters of nanocrystalline AZO thin film measured at different substrate temperatures. Physica B: Condensed Matter, 2016, 481, 97-103.	2.7	46
8	Carbon nanotubes of oil fly ash as lubricant additives for different base oils and their tribology performance. RSC Advances, 2017, 7, 40295-40302.	3.6	46
9	Sputtered cobalt doped CuO nano-structured thin films for photoconductive sensors. Journal of Materials Science: Materials in Electronics, 2019, 30, 1275-1281.	2.2	40
10	Antibacterial activity of In-doped ZnO nanoparticles. Inorganic Chemistry Communication, 2020, 122, 108281.	3.9	38
11	Structural and optical properties of ZnO thin films prepared by RF sputtering at different thicknesses. Physica B: Condensed Matter, 2018, 540, 1-8.	2.7	36
12	CuO sputtered flexible polyaniline@graphene thin films:A recyclable photocatalyst with enhanced electrical properties. Composites Part B: Engineering, 2019, 175, 107092.	12.0	36
13	Tribological behavior of diamond-like carbon thin films deposited by the pulse laser technique at different substrate temperatures. Tribology International, 2016, 103, 274-280.	5.9	35
14	The photocatalytic activity of graphene oxide/Ag3PO4 nano-composite: Loading effect. Optik, 2016, 127, 10746-10757.	2.9	31
15	Carbothermic reduction kinetics of nanocrystallite Fe2O3/NiO composites for the production of Fe/Ni alloy. Journal of Alloys and Compounds, 2008, 463, 585-590.	5.5	30
16	Microfibrous silver-coated polymeric scaffolds with tunable mechanical properties. RSC Advances, 2017, 7, 34331-34338.	3.6	29
17	Morphological, optical and X-ray photoelectron chemical state shift investigations of ZnO thin films. Optik, 2016, 127, 6358-6365.	2.9	27
18	Structural, optical and photoluminescence investigations of nanocrystalline CuO thin films at different microwave powers. Optical and Quantum Electronics, 2020, 52, 1.	3.3	27

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19	Linear and nonlinear optical investigations of nano-scale Si-doped ZnO thin films: spectroscopic approach. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	26
20	Structural, optical, and photocatalytic investigation of nickel oxide@graphene oxide nanocomposite thin films by RF magnetron sputtering. Journal of Materials Science, 2018, 53, 15034-15050.	3.7	25
21	A study on linear and non-linear optical constants of Rhodamine B thin film deposited on FTO glass. Physica B: Condensed Matter, 2016, 490, 25-30.	2.7	24
22	Nanofibrous Silver-Coated Polymeric Scaffolds with Tunable Electrical Properties. Nanomaterials, 2017, 7, 63.	4.1	23
23	Lubricant Additives Based on Carbon Nanotubes Produced from Carbon-Rich Fly Ash. Tribology Transactions, 2017, 60, 166-175.	2.0	20
24	Bulk Heterojunction Organic Solar Cells with Graphene Oxide Hole Transport Layer: Effect of Varied Concentration on Photovoltaic Performance. Journal of Physical Chemistry C, 2017, 121, 140-146.	3.1	20
25	Carbon nanotubes of oil fly ash integrated with ultrathin CuO nanosheets as effective lubricant additives. Diamond and Related Materials, 2017, 78, 97-104.	3.9	20
26	Synthesis and characterization of a novel single-phase sputtered Cu2O thin films: Structural, antibacterial activity and photocatalytic degradation of methylene blue. Inorganic Chemistry Communication, 2021, 128, 108606.	3.9	20
27	Ellipsometric study of optical properties of Sm-doped ZnO thin films Co-deposited by RF-Magnetron sputtering. Optik, 2017, 148, 172-180.	2.9	19
28	Growth and Correlation of the Physical and Structural Properties of Hexagonal Nanocrystalline Nickel Oxide Thin Films with Film Thickness. Coatings, 2019, 9, 615.	2.6	19
29	Sputtered CuO mono-phase thin films: Structural, compositional and spectroscopic linear/nonlinear optical characteristics. Optik, 2017, 144, 207-218.	2.9	18
30	Impact of titanium ions in the hexagonal nanostructured ZnO thin films. Journal of Materials Science: Materials in Electronics, 2018, 29, 3056-3065.	2.2	18
31	Influence the oxygen flow rate on the film thickness, structural, optical and photoluminescence behavior of DC sputtered NiO thin films. Physica B: Condensed Matter, 2019, 568, 6-12.	2.7	18
32	Substrate Temperature Impact on the Structural, Optical and Photo-Catalytic Activity of Sputtered Cu-Doped ZnO Thin Films. Journal of Electronic Materials, 2021, 50, 4364-4372.	2.2	18
33	Chemical state analysis, optical band gap, and photocatalytic decolorization of cobalt-doped ZnO nanospherical thin films by DC/RF sputtering technique. Optik, 2018, 164, 143-154.	2.9	17
34	Effect of ZnO layer thickness upon optoelectrical properties of NiO/ ZnO heterojunction prepared at room temperature. Journal of Materials Science: Materials in Electronics, 2018, 29, 16317-16324.	2.2	17
35	Investigating NaIO3 doped PVA polymeric nanocomposites via the structural morphology and linear and nonlinear optical analysis: For optoelectronic systems. Optik, 2021, 245, 167724.	2.9	17
36	Role of N doping on the structural, optical and photocatalytic properties of the silver deposited ZnO thin films. Journal of the Taiwan Institute of Chemical Engineers, 2016, 69, 131-138.	5.3	16

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37	Structural and optical characteristics, and bacterial decolonization studies on non-reactive RF sputtered Cuâ€"ZnO@ graphene based nanoparticles thin films. Journal of Materials Science, 2019, 54, 6515-6529.	3.7	16
38	Structure, optical constants and non-linear properties of high quality AZO nano-scale thin films. Optik, 2016, 127, 4324-4328.	2.9	15
39	The Auto-Combustion Method Synthesized Eu2O3- ZnO Nanostructured Composites for Electronic and Photocatalytic Applications. Materials, 2022, 15, 3257.	2.9	14
40	Sunlight-enhanced catalytic degradation over Agâ€"CuO nanoparticles thin films prepared by DC/RF sputtering technique. Bulletin of Materials Science, 2018, 41, 1.	1.7	13
41	Development of Nanocoated Filaments for 3D Fused Deposition Modeling of Antibacterial and Antioxidant Materials. Polymers, 2022, 14, 2645.	4.5	13
42	Nano and micro structures produced from carbon rich fly ash as effective lubricant additives for 150SN base oil. Journal of Materials Research and Technology, 2019, 8, 250-258.	5.8	10
43	Experimental investigation of linear and third-order nonlinear optical properties of pure CuO thin film using femtosecond laser pulses. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 508.	2.1	10
44	Fabrication and Characterization of Highly Efficient As-Synthesized WO3/Graphitic-C3N4 Nanocomposite for Photocatalytic Degradation of Organic Compounds. Materials, 2022, 15, 2482.	2.9	10
45	Non-linear optics of nano-scale pentacene thin film. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	9
46	Enhancing the electrical, optical, and structure morphology using Pr2O3-ZnO nanocomposites: Towards electronic varistors and environmental photocatalytic activity. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 418, 113399.	3.9	9
47	Investigating the structural morphology, linear/nonlinear optical characteristics of Nd₂O₃ doped PVA polymeric composite films: Kramers-Kroning approach. Physica Scripta, 2021, 96, 125831.	2.5	8
48	Metals and ITO Contact Nature on ZnO and NiO Thin Films. Brazilian Journal of Physics, 2021, 51, 1159-1165.	1.4	7
49	The Photocatalytic Performance of Nd2O3 Doped CuO Nanoparticles with Enhanced Methylene Blue Degradation: Synthesis, Characterization and Comparative Study. Nanomaterials, 2022, 12, 1060.	4.1	7
50	Comparative Degradation Studies of Carmine Dye by Photocatalysis and Photoelectrochemical Oxidation Processes in the Presence of Graphene/N-Doped ZnO Nanostructures. Crystals, 2022, 12, 535.	2.2	7
51	Effect of microwave power on morphology of AgO thin film grown using microwave plasma CVD. International Journal of Surface Science and Engineering, 2018, 12, 1.	0.4	6
52	Characterization of an amorphous indium tin oxide (ITO) film on a polylactic acid (PLA) substrate. Bulletin of Materials Science, 2019, 42, 1.	1.7	6
53	Characterization of CuZnO Nanocomposite Thin Films Prepared from CuOâ€"ZnO Sputtered Films. Journal of Electronic Materials, 2020, 49, 7179-7186.	2.2	6
54	Impact of the Microwave Power on the Structural and Optical Properties of Nanocrystalline Nickel Oxide Thin Films. Brazilian Journal of Physics, 2021, 51, 499-506.	1.4	6

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55	The structure and optoelectronic characteristics of Ni1-xAlxO films synthesized via co-sputtering technique. Physica B: Condensed Matter, 2022, 626, 413575.	2.7	6
56	Synthesis, characterization and oxidation of metallic cobalt (Co) thin film into semiconducting cobalt oxide (Co3O4)thin film using microwave plasma CVD. Materials Research Express, 2018, 5, 065003.	1.6	5
57	An investigation into the morphology and crystallization process of lithium borate glass containing vanadium oxide. Journal of Materials Research and Technology, 2022, 16, 1713-1731.	5.8	5
58	Nano-Surface Composite Coating Reinforced by Ta2C, Al2O3 and MWCNTs Nanoparticles for Aluminum Base via FSP. Coatings, 2021, 11, 1496.	2.6	5
59	The structural and optoelectronic properties of Cu1-xTixO (0â‰xâ‰0.05) diodes prepared via a co-sputtering technique. Superlattices and Microstructures, 2022, 164, 107115.	3.1	5
60	Investigation the phase transformation of sputtered molybdenum oxide thin films and their correlation with the film thickness. Optik, 2018, 154, 777-784.	2.9	4
61	Improvement the morphology, surface roughness, and some physical properties of sputtered CuO thin films by Si. Optical and Quantum Electronics, 2021, 53, 1.	3.3	4
62	Direct current deposited NiO on polyaniline@MoS2 flexible thin film for highly efficient solar light mineralization of 2-chlorophenol: A mechanistic analysis. Journal of the Taiwan Institute of Chemical Engineers, 2021, 129, 370-380.	5.3	4
63	Novel Control of the Synthesis and Band Gap of Zinc Aluminate (ZnAl2O4) by Using a DC/RF Sputtering Technique. Silicon, 2018, 10, 1217-1223.	3.3	3
64	Synthesis and optical characterization of multi-emission NixYb1-xO photonic semiconducting quantum dots prepared using hydrothermal approach for nano-optical colored amplifiers and light emitting diodes. Optik, 2020, 208, 164541.	2.9	2
65	Characterization of niobium-doped zinc oxide thin films: Structural changes and optical properties. Materials Today Communications, 2021, 26, 101791.	1.9	2
66	Impact of heat treatment on the physical properties of sputtered nickel oxide thin films containing molybdenum. , 2022, 18, 1-10.		2
67	Role of nickel in the phase change from nanocrystalline Cu2O to CuO sputtered films and the formation of a metastable phase of Cu4O3. Materials Today Communications, 2021, 28, 102605.	1.9	1
68	ZnO Nanorods growth via green chemistry using wormwood (Artemisia). Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	0