

# Mohamed Sh Abdel-wahab

## List of Publications by Year in descending order

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68  
papers

1,543  
citations

331259

21  
h-index

344852

36  
g-index

70  
all docs

70  
docs citations

70  
times ranked

1752  
citing authors

#	ARTICLE	IF	CITATIONS
1	The structure and optoelectronic characteristics of Ni <sub>1-x</sub> Al <sub>x</sub> O films synthesized via co-sputtering technique. <i>Physica B: Condensed Matter</i> , 2022, 626, 413575.	1.3	6
2	An investigation into the morphology and crystallization process of lithium borate glass containing vanadium oxide. <i>Journal of Materials Research and Technology</i> , 2022, 16, 1713-1731.	2.6	5
3	Experimental investigation of linear and third-order nonlinear optical properties of pure CuO thin film using femtosecond laser pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2022, 39, 508.	0.9	10
4	Impact of heat treatment on the physical properties of sputtered nickel oxide thin films containing molybdenum. , 2022, 18, 1-10.		2
5	Fabrication and Characterization of Highly Efficient As-Synthesized WO <sub>3</sub> /Graphitic-C <sub>3</sub> N <sub>4</sub> Nanocomposite for Photocatalytic Degradation of Organic Compounds. <i>Materials</i> , 2022, 15, 2482.	1.3	10
6	The Photocatalytic Performance of Nd <sub>2</sub> O <sub>3</sub> Doped CuO Nanoparticles with Enhanced Methylene Blue Degradation: Synthesis, Characterization and Comparative Study. <i>Nanomaterials</i> , 2022, 12, 1060.	1.9	7
7	The structural and optoelectronic properties of Cu <sub>1-x</sub> Ti <sub>x</sub> O (0 ≤ x ≤ 0.05) diodes prepared via a co-sputtering technique. <i>Superlattices and Microstructures</i> , 2022, 164, 107115.	1.4	5
8	Comparative Degradation Studies of Carmine Dye by Photocatalysis and Photoelectrochemical Oxidation Processes in the Presence of Graphene/N-Doped ZnO Nanostructures. <i>Crystals</i> , 2022, 12, 535.	1.0	7
9	The Auto-Combustion Method Synthesized Eu <sub>2</sub> O <sub>3</sub> - ZnO Nanostructured Composites for Electronic and Photocatalytic Applications. <i>Materials</i> , 2022, 15, 3257.	1.3	14
10	Development of Nanocoated Filaments for 3D Fused Deposition Modeling of Antibacterial and Antioxidant Materials. <i>Polymers</i> , 2022, 14, 2645.	2.0	13
11	Characterization of niobium-doped zinc oxide thin films: Structural changes and optical properties. <i>Materials Today Communications</i> , 2021, 26, 101791.	0.9	2
12	Metals and ITO Contact Nature on ZnO and NiO Thin Films. <i>Brazilian Journal of Physics</i> , 2021, 51, 1159-1165.	0.7	7
13	Impact of the Microwave Power on the Structural and Optical Properties of Nanocrystalline Nickel Oxide Thin Films. <i>Brazilian Journal of Physics</i> , 2021, 51, 499-506.	0.7	6
14	Substrate Temperature Impact on the Structural, Optical and Photo-Catalytic Activity of Sputtered Cu-Doped ZnO Thin Films. <i>Journal of Electronic Materials</i> , 2021, 50, 4364-4372.	1.0	18
15	Synthesis and characterization of a novel single-phase sputtered Cu <sub>2</sub> O thin films: Structural, antibacterial activity and photocatalytic degradation of methylene blue. <i>Inorganic Chemistry Communication</i> , 2021, 128, 108606.	1.8	20
16	ZnO Nanorods growth via green chemistry using wormwood ( <i>Artemisia</i> ). <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	0
17	Improvement the morphology, surface roughness, and some physical properties of sputtered CuO thin films by Si. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	1.5	4
18	Role of nickel in the phase change from nanocrystalline Cu <sub>2</sub> O to CuO sputtered films and the formation of a metastable phase of Cu <sub>4</sub> O <sub>3</sub> . <i>Materials Today Communications</i> , 2021, 28, 102605.	0.9	1

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19	Enhancing the electrical, optical, and structure morphology using Pr <sub>2</sub> O <sub>3</sub> -ZnO nanocomposites: Towards electronic varistors and environmental photocatalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 418, 113399.	2.0	9
20	Investigating the structural morphology, linear/nonlinear optical characteristics of Nd <sub>2</sub> O <sub>3</sub> doped PVA polymeric composite films: Kramers-Kroning approach. <i>Physica Scripta</i> , 2021, 96, 125831.	1.2	8
21	Direct current deposited NiO on polyaniline@MoS <sub>2</sub> flexible thin film for highly efficient solar light mineralization of 2-chlorophenol: A mechanistic analysis. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 129, 370-380.	2.7	4
22	Investigating NaIO <sub>3</sub> doped PVA polymeric nanocomposites via the structural morphology and linear and nonlinear optical analysis: For optoelectronic systems. <i>Optik</i> , 2021, 245, 167724.	1.4	17
23	Nano-Surface Composite Coating Reinforced by Ta <sub>2</sub> C, Al <sub>2</sub> O <sub>3</sub> and MWCNTs Nanoparticles for Aluminum Base via FSP. <i>Coatings</i> , 2021, 11, 1496.	1.2	5
24	Antibacterial activity of In-doped ZnO nanoparticles. <i>Inorganic Chemistry Communication</i> , 2020, 122, 108281.	1.8	38
25	Characterization of CuZnO Nanocomposite Thin Films Prepared from CuO@ZnO Sputtered Films. <i>Journal of Electronic Materials</i> , 2020, 49, 7179-7186.	1.0	6
26	Synthesis and optical characterization of multi-emission Ni <sub>x</sub> Yb <sub>1-x</sub> O photonic semiconducting quantum dots prepared using hydrothermal approach for nano-optical colored amplifiers and light emitting diodes. <i>Optik</i> , 2020, 208, 164541.	1.4	2
27	Structural, optical and photoluminescence investigations of nanocrystalline CuO thin films at different microwave powers. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	1.5	27
28	CuO sputtered flexible polyaniline@graphene thin films:A recyclable photocatalyst with enhanced electrical properties. <i>Composites Part B: Engineering</i> , 2019, 175, 107092.	5.9	36
29	Growth and Correlation of the Physical and Structural Properties of Hexagonal Nanocrystalline Nickel Oxide Thin Films with Film Thickness. <i>Coatings</i> , 2019, 9, 615.	1.2	19
30	Characterization of an amorphous indium tin oxide (ITO) film on a polylactic acid (PLA) substrate. <i>Bulletin of Materials Science</i> , 2019, 42, 1.	0.8	6
31	Influence the oxygen flow rate on the film thickness, structural, optical and photoluminescence behavior of DC sputtered NiO thin films. <i>Physica B: Condensed Matter</i> , 2019, 568, 6-12.	1.3	18
32	Sputtered cobalt doped CuO nano-structured thin films for photoconductive sensors. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 1275-1281.	1.1	40
33	Structural and optical characteristics, and bacterial decolonization studies on non-reactive RF sputtered Cu@ZnO@ graphene based nanoparticles thin films. <i>Journal of Materials Science</i> , 2019, 54, 6515-6529.	1.7	16
34	Nano and micro structures produced from carbon rich fly ash as effective lubricant additives for 150SN base oil. <i>Journal of Materials Research and Technology</i> , 2019, 8, 250-258.	2.6	10
35	Chemical state analysis, optical band gap, and photocatalytic decolorization of cobalt-doped ZnO nanospherical thin films by DC/RF sputtering technique. <i>Optik</i> , 2018, 164, 143-154.	1.4	17
36	Structural and optical properties of ZnO thin films prepared by RF sputtering at different thicknesses. <i>Physica B: Condensed Matter</i> , 2018, 540, 1-8.	1.3	36

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37	Sunlight-enhanced catalytic degradation over Ag@CuO nanoparticles thin films prepared by DC/RF sputtering technique. <i>Bulletin of Materials Science</i> , 2018, 41, 1.	0.8	13
38	Novel Control of the Synthesis and Band Gap of Zinc Aluminate (ZnAl <sub>2</sub> O <sub>4</sub> ) by Using a DC/RF Sputtering Technique. <i>Silicon</i> , 2018, 10, 1217-1223.	1.8	3
39	Investigation the phase transformation of sputtered molybdenum oxide thin films and their correlation with the film thickness. <i>Optik</i> , 2018, 154, 777-784.	1.4	4
40	Impact of titanium ions in the hexagonal nanostructured ZnO thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 3056-3065.	1.1	18
41	Effect of microwave power on morphology of AgO thin film grown using microwave plasma CVD. <i>International Journal of Surface Science and Engineering</i> , 2018, 12, 1.	0.4	6
42	Synthesis, characterization and oxidation of metallic cobalt (Co) thin film into semiconducting cobalt oxide (Co <sub>3</sub> O <sub>4</sub> ) thin film using microwave plasma CVD. <i>Materials Research Express</i> , 2018, 5, 065003.	0.8	5
43	Effect of ZnO layer thickness upon optoelectrical properties of NiO/ ZnO heterojunction prepared at room temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 16317-16324.	1.1	17
44	Structural, optical, and photocatalytic investigation of nickel oxide@graphene oxide nanocomposite thin films by RF magnetron sputtering. <i>Journal of Materials Science</i> , 2018, 53, 15034-15050.	1.7	25
45	Lubricant Additives Based on Carbon Nanotubes Produced from Carbon-Rich Fly Ash. <i>Tribology Transactions</i> , 2017, 60, 166-175.	1.1	20
46	Bulk Heterojunction Organic Solar Cells with Graphene Oxide Hole Transport Layer: Effect of Varied Concentration on Photovoltaic Performance. <i>Journal of Physical Chemistry C</i> , 2017, 121, 140-146.	1.5	20
47	Carbon nanotubes of oil fly ash integrated with ultrathin CuO nanosheets as effective lubricant additives. <i>Diamond and Related Materials</i> , 2017, 78, 97-104.	1.8	20
48	Carbon nanotubes of oil fly ash as lubricant additives for different base oils and their tribology performance. <i>RSC Advances</i> , 2017, 7, 40295-40302.	1.7	46
49	Ellipsometric study of optical properties of Sm-doped ZnO thin films Co-deposited by RF-Magnetron sputtering. <i>Optik</i> , 2017, 148, 172-180.	1.4	19
50	Biodegradable elastic nanofibrous platforms with integrated flexible heaters for on-demand drug delivery. <i>Scientific Reports</i> , 2017, 7, 9220.	1.6	90
51	Microfibrous silver-coated polymeric scaffolds with tunable mechanical properties. <i>RSC Advances</i> , 2017, 7, 34331-34338.	1.7	29
52	Sputtered CuO mono-phase thin films: Structural, compositional and spectroscopic linear/nonlinear optical characteristics. <i>Optik</i> , 2017, 144, 207-218.	1.4	18
53	Nanofibrous Silver-Coated Polymeric Scaffolds with Tunable Electrical Properties. <i>Nanomaterials</i> , 2017, 7, 63.	1.9	23
54	Non-linear optics of nano-scale pentacene thin film. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	1.1	9

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55	Enhanced the photocatalytic activity of Ni-doped ZnO thin films: Morphological, optical and XPS analysis. Superlattices and Microstructures, 2016, 94, 108-118.	1.4	186
56	RF sputtered CuO thin films: Structural, optical and photo-catalytic behavior. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 81, 83-90.	1.3	102
57	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.	1.1	26
58	The photocatalytic activity of graphene oxide/Ag <sub>3</sub> PO <sub>4</sub> nano-composite: Loading effect. Optik, 2016, 127, 10746-10757.	1.4	31
59	Tribological behavior of diamond-like carbon thin films deposited by the pulse laser technique at different substrate temperatures. Tribology International, 2016, 103, 274-280.	3.0	35
60	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.	2.7	16
61	Morphological, optical and X-ray photoelectron chemical state shift investigations of ZnO thin films. Optik, 2016, 127, 6358-6365.	1.4	27
62	Structure, optical constants and non-linear properties of high quality AZO nano-scale thin films. Optik, 2016, 127, 4324-4328.	1.4	15
63	Nonlinear optical parameters of nanocrystalline AZO thin film measured at different substrate temperatures. Physica B: Condensed Matter, 2016, 481, 97-103.	1.3	46
64	Structural, optical and photo-catalytic activity of nanocrystalline NiO thin films. Materials Research Bulletin, 2016, 75, 71-77.	2.7	66
65	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.	6.6	50
66	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.	1.3	24
67	Carbothermic reduction kinetics of nanocrystallite Fe <sub>2</sub> O <sub>3</sub> /NiO composites for the production of Fe/Ni alloy. Journal of Alloys and Compounds, 2008, 463, 585-590.	2.8	30
68	Advance Deposition Techniques for Thin Film and Coating. , 0, , .		52