

Abdelfattah Mohammed Mansour

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

1,499
citations

236925

25
h-index

395702

33
g-index

65
all docs

65
docs citations

65
times ranked

517
citing authors

#	ARTICLE	IF	CITATIONS
1	Green sol-gel synthesis of novel nanoporous copper aluminosilicate for the eradication of pathogenic microbes in drinking water and wastewater treatment. <i>Environmental Science and Pollution Research</i> , 2019, 26, 9508-9523.	5.3	76
2	Electrical conductivity, dielectric properties and optical absorption of organic based nanocrystalline sodium copper chlorophyllin for photodiode application. <i>Journal of Alloys and Compounds</i> , 2012, 513, 404-413.	5.5	60
3	Thermal, dielectric and antimicrobial properties of polystyrene-assisted/ITO:Cu nanocomposites. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	55
4	Fabrication and Characterization of a Photodiode Based on 5,5'-dibromo-o-cresolsulfophthalein (BCP). <i>Silicon</i> , 2019, 11, 1989-1996.	3.3	51
5	Study of Gaussian distribution of inhomogeneous barrier height for n-InSb/p-GaAs heterojunction prepared by flash evaporation. <i>Journal of Alloys and Compounds</i> , 2009, 481, 427-433.	5.5	41
6	Characterization of electrical and optical absorption of organic based methyl orange for photovoltaic application. <i>Synthetic Metals</i> , 2011, 161, 2135-2143.	3.9	41
7	Optical, Functional Impact and Antimicrobial of Chitosan/Phosphosilicate/Al ₂ O ₃ Nanosheets. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 3084-3094.	3.7	41
8	Thermal stability, AC electrical conductivity and dielectric properties of N-(5-[antipyrinyl-hydrazono]-cyanomethyl)-[1,3,4]thiadiazol-2-yl)-benzamide. <i>Journal of Alloys and Compounds</i> , 2014, 611, 50-56.	5.5	40
9	Sol-gel synthesis and physical characterization of high impact polystyrene nanocomposites based on Fe ₂ O ₃ doped with ZnO. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	38
10	Impact of Mn-substitution on structural, optical, and magnetic properties evolution of sodium-cobalt ferrite for opto-magnetic applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 6224-6232.	2.2	38
11	Influence of NiO on structural, optical, and magnetic properties of Al ₂ O ₃ -P ₂ O ₅ -Na ₂ O magnetic porous nanocomposites nucleated by SiO ₂ . <i>Solid State Sciences</i> , 2020, 108, 106454.	3.2	36
12	Structural, magnetic and dielectric properties of reduced graphene oxide/ La _{0.9} Bi _{0.1} FeO ₃ nanocomposites. <i>Materials Chemistry and Physics</i> , 2020, 241, 122335.	4.0	35
13	Ultrasonic studies on polystyrene/styrene butadiene rubber polymer blends filled with glass fiber and talc. <i>Ultrasonics</i> , 2006, 44, e1439-e1445.	3.9	34
14	Current transport and capacitance-voltage characteristics of an n-PbTe/p-GaP heterojunction prepared using the electron beam deposition technique. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 115, 283-288.	4.0	33
15	Structural, electrical and photovoltaic properties of CoS/Si heterojunction prepared by spray pyrolysis. <i>Materials Research Express</i> , 2018, 5, 015904.	1.6	32
16	Effect of Cu incorporation on morphology and optical band gap properties of nano-porous lithium magnesio-silicate (LMS) thin films. <i>Materials Research Express</i> , 2019, 6, 016404.	1.6	32
17	Detection of 3,4-diaminotoluene based on Sr _{0.3} Pb _{0.7} TiO ₃ /CoFe ₂ O ₄ core/shell nanocomposite via an electrochemical approach. <i>New Journal of Chemistry</i> , 2020, 44, 7941-7953.	2.8	32
18	Design, fabrication and optical characterizations of pyrimidine fused quinolone carboxylate moiety for photodiode applications. <i>Optik</i> , 2020, 216, 164882.	2.9	32

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19	Physical characterization of 5,5-dibromo-o-cresolsulfophthalein (BCP) spin-coated thin films and BCP/p-Si based diode. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	31
20	Electrical and photosensing performance of heterojunction device based on organic thin film structure. <i>Synthetic Metals</i> , 2013, 175, 81-87.	3.9	30
21	Structural, electrical and photovoltaic properties of PbS ₂ /S ₅ /n-Si heterojunction synthesized by vacuum coating technique. <i>Materials Research Express</i> , 2018, 5, 076406.	1.6	29
22	Sol-gel synthesis and physical characterization of novel MgCrO ₄ -MgCu ₂ O ₃ layered films and MgCrO ₄ -MgCu ₂ O ₃ /p-Si based photodiode. <i>Nano Structures Nano Objects</i> , 2021, 25, 100646.	3.5	29
23	Structural, Optical, Electrical and Photoelectrical Properties of 2-Amino-4-(5-bromothiophen-2-yl)-5,6-dihydro-6-methyl-5-oxo-4H-pyrano[3,2-c] quinoline-3-carbonitrile Films. <i>Journal of Electronic Materials</i> , 2017, 46, 6957-6964.	2.2	28
24	Optical sensing performance characteristics of Schottky devices diodes based nano-particle disodium 6-hydroxy-5-[(2-methoxy-5-methyl-4-sulfophenyl)azo]-2-naphthalenesulfonate thin films: A comparison study. <i>Optik</i> , 2018, 158, 1255-1265.	2.9	28
25	Integrated use of nickel cobalt aluminoferrite/Ni ²⁺ nano-crystallites supported with SiO ₂ for optomagnetic and biomedical applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 274, 115491.	3.5	28
26	Structural, Magnetic, and Dielectric properties of Sr ₄ Fe ₆ O ₁₃ ferrite prepared of small crystallites. <i>Scientific Reports</i> , 2020, 10, 4955.	3.3	27
27	Compositional Effects and Optical Properties of P ₂ O ₅ Doped Magnesium Silicate Mesoporous Thin Films. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 5893-5906.	3.0	27
28	Structural investigation and optical properties of Fe, Al, Si, and Cu-ZnTiO ₃ nanocrystals. <i>Physica Scripta</i> , 2021, 96, 115801.	2.5	27
29	Ni ²⁺ doping effect on potassium barium titanate nanoparticles: enhancement optical and dielectric properties. <i>Physica Scripta</i> , 2021, 96, 125821.	2.5	27
30	Electrical conduction mechanisms and thermal properties of 2-(2,)-Tj ETQqO O O rgBT /Overlock 10 Tf 50 307 Td (3-dihydro-1,5-dimethyl-Condensed Matter, 2013, 413, 31-35.	2.7	26
31	Structural and electrical characteristics of n-InSb/p-GaAs heterojunction prepared by liquid phase epitaxy. <i>Journal of Alloys and Compounds</i> , 2014, 615, 604-609.	5.5	26
32	Impact of ZnO on the spectroscopic, mechanical, and UPF properties of Fe ₂ O ₃ -tough polystyrene-based nanocomposites. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 28019-28031.	2.2	23
33	Structural and Opto-Magnetic Properties of Nickel Magnesium Copper Zircon Silicate Nano-Composite for Suppress the Spread of Foodborne Pathogenic bacteria. <i>Silicon</i> , 2022, 14, 6645-6660.	3.3	23
34	Preparation and Characterization of Transparent Semiconducting Silica Nanocomposites Doped with P ₂ O ₅ and Al ₂ O ₃ . <i>Silicon</i> , 2021, 13, 3733-3739.	3.3	22
35	Electrical Conductivity and Dielectrical Properties of Bulk Methylene Green. <i>Journal of Electronic Materials</i> , 2017, 46, 4353-4358.	2.2	21
36	Modern Template Design and Biological Evaluation of Cephadrine-loaded Magnesium Calcium Silicate Nanocomposites as an Inhibitor for Nosocomial Bacteria in Biomedical Applications. <i>Silicon</i> , 2021, 13, 2979-2991.	3.3	21

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37	Synthesis of Sm ³⁺ and Gd ³⁺ Ions Embedded in Nano-Structure Barium Titanate Prepared by Sol-Gel Technique: Terahertz, Dielectric and Up-Conversion Study. ECS Journal of Solid State Science and Technology, 2020, 9, 123005.	1.8	21
38	Silica Zinc Titanate Wide Bandgap Semiconductor Nanocrystallites: Synthesis and Characterization. Silicon, 2022, 14, 11715-11729.	3.3	21
39	Synthesis and structural, optical, and magnetic properties of Mn-doped CdS quantum dots prepared by chemical precipitation method. Journal of Materials Science: Materials in Electronics, 2021, 32, 19980-19990.	2.2	20
40	Talented Bi _{0.5} Na _{0.25} K _{0.25} TiO ₃ /oxidized cellulose films for optoelectronic and bioburden of pathogenic microbes. Carbohydrate Polymers, 2022, 291, 119656.	10.2	20
41	Ecofriendly synthesis and characterization of Ni ²⁺ codoped silica magnesium zirconium copper nanoceramics for wastewater treatment applications. Scientific Reports, 2022, 12, .	3.3	17
42	Fabrication, electrical and photovoltaic characteristics of CuInGeSe ₄ /n-Si diode. Journal of Semiconductors, 2018, 39, 124010.	3.7	15
43	Physical Characterizations of 3-(4-Methyl Piperazinylimino Methyl) Rifampicin Films for Photodiode Applications. Silicon, 2019, 11, 1693-1699.	3.3	15
44	Spectroscopic Study of Eu ³⁺ -Doped Magnesium Lanthanum Phosphate (MLPO) Films on SiO ₂ Substrate. Silicon, 2022, 14, 1227-1234.	3.3	14
45	Current transport and capacitance-voltage characteristics of n-InSb/p-GaP prepared by flash evaporation and liquid phase epitaxy. Metals and Materials International, 2012, 18, 509-515.	3.4	13
46	Structural, Morphological, and Optical Characterization of MoO ₃ Thin Films and MoO ₃ /p-Si Based Diode. Silicon, 2022, 14, 2189-2199.	3.3	11
47	(InSb/GaAs)-Au hybrid macro-structure prepared by flash evaporation. Indian Journal of Physics, 2010, 84, 265-277.	1.8	10
48	Current transport and capacitance-voltage characteristics of Sb ₂ Se ₃ /n-Si heterojunction diode prepared by electron beam evaporation. Materials Research Express, 2019, 6, 036405.	1.6	10
49	Terahertz and UV-VIS Spectroscopy Evaluation of Copper Doped Zinc Magnesium Titanate Nanoceramics Prepared via Sol-Gel Method. ECS Journal of Solid State Science and Technology, 2021, 10, 063007.	1.8	10
50	Structural, optical and electrical properties of CuBi ₂ thin films deposited by spray pyrolysis at different deposition times. International Journal of Microstructure and Materials Properties, 2019, 14, 419.	0.1	8
51	Effect of Calcination Temperature on the Optical and Magnetic Properties of NiFe ₂ O ₄ -KFeO ₂ Nanocomposite Films Synthesized via WOSW Sol-Gel Route for Opto-Magnetic Applications. ECS Journal of Solid State Science and Technology, 2021, 10, 103016.	1.8	8
52	Structure, morphology, optical and magnetic studies of Fe ₃ O ₄ -doped CdS nanocomposite. Journal of Materials Science: Materials in Electronics, 2022, 33, 10251-10258.	2.2	8
53	Spectroscopic and magnetic properties of Co _{0.15} Al _{0.25} -xNi _{0.6} +xFe ₂ O ₄ nanocomposites aided by silica for prohibiting pathogenic bacteria during sewage handling. Environmental Nanotechnology, Monitoring and Management, 2022, 18, 100672.	2.9	8
54	Structural, optical and galvanomagnetic properties of nanocrystalline Se _{51.43} In _{44.67} Pb _{3.9} thin films. Materials Research Express, 2017, 4, 115903.	1.6	7

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55	Effect of deposition temperature on structural, optical and electrical properties of chemically deposited thermochromic $\text{Cu}_{2}\text{Hg}_{4}$ thin films. International Journal of Microstructure and Materials Properties, 2019, 14, 462.	0.1	7
56	Effect of Cu co-doping on the microstructure and optical properties of alumino-zinc thin films for optoelectronic applications. International Journal of Materials Engineering Innovation, 2021, 12, 18.	0.5	7
57	Structural, optical and electrical properties of CuBiS_{2} thin films deposited by spray pyrolysis at different deposition times. International Journal of Microstructure and Materials Properties, 2019, 14, 419.	0.1	6
58	Effect of deposition temperature on structural, optical and electrical properties of chemically deposited thermochromic $\text{Cu}_{2}\text{Hg}_{4}$ thin films. International Journal of Microstructure and Materials Properties, 2019, 14, 462.	0.1	6
59	Impact of Cu concentration on the properties of sol-gel spin-coated Cu-ZnZrSnO thin films: evaluation of $\text{Ag/Cu-ZrZnSn/p-Si/Al}$ Schottky diodes. Silicon, 2022, 14, 10837-10847.	3.3	5
60	Structural, Optical and Electrical Properties of Nanocrystalline PbSe: In Films. Recent Patents on Materials Science, 2018, 11, 41-47.	0.5	4
61	Thermal microscopy (TM). International Journal of Microstructure and Materials Properties, 2020, 15, 215.	0.1	4
62	Structural, optical and galvanomagnetical properties of low cost synthesised nanostructure Cu_{2}S films. International Journal of Microstructure and Materials Properties, 2019, 14, 272.	0.1	3
63	High Quality InSb Microcrystal Hall Sensor Doped with Te or Bi. International Journal of Advanced Applied Physics Research, 2016, 3, .	0.4	1
64	Effect of Cu co-doping on the microstructure and optical properties of alumino-zinc thin films for optoelectronic applications. International Journal of Materials Engineering Innovation, 2021, 12, 18.	0.5	0
65	The Spectroscopic and Antimicrobial Yield of Sol-Gel Derived Zinc Copper Silicate/E102 Nanoclusters. ECS Journal of Solid State Science and Technology, 2022, 11, 013003.	1.8	0