

Mohamed Salah Aida

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82
papers

1,048
citations

17
h-index

30
g-index

92
ext. papers

1,253
ext. citations

2.2
avg, IF

4.58
L-index

#	Paper	IF	Citations
82	ZnO thin films deposition by spray pyrolysis: Influence of precursor solution properties. <i>Current Applied Physics</i> , 2012 , 12, 1283-1287	2.6	112
81	Cu ₂ ZnSnS ₄ thin films deposition by ultrasonic spray pyrolysis. <i>Journal of Alloys and Compounds</i> , 2012 , 542, 22-27	5.7	77
80	Growth and physical properties of CdS thin films prepared by chemical bath deposition. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 135404	3	76
79	Indium and aluminium-doped ZnO thin films deposited onto FTO substrates: nanostructure, optical, photoluminescence and electrical properties. <i>Journal of Sol-Gel Science and Technology</i> , 2010 , 55, 335-342	2.3	60
78	Structural, optical and electrical properties of n-ZnO/p-Si heterojunction prepared by ultrasonic spray. <i>Materials Science in Semiconductor Processing</i> , 2011 , 14, 229-234	4.3	50
77	Effects of thickness variation on properties of ZnO:Al thin films grown by RF magnetron sputtering deposition. <i>Superlattices and Microstructures</i> , 2015 , 79, 148-155	2.8	43
76	Optical and electrical properties of Bi doped ZnO thin films deposited by ultrasonic spray pyrolysis. <i>Journal of Materials Science: Materials in Electronics</i> , 2011 , 22, 499-505	2.1	41
75	Solution flow rate influence on properties of copper oxide thin films deposited by ultrasonic spray pyrolysis. <i>Materials Science in Semiconductor Processing</i> , 2015 , 30, 645-650	4.3	38
74	NO ₂ Selective Sensor Based on Fe ₃ O ₄ Nanoparticles Synthesized via Hydrothermal Technique. <i>Sensors</i> , 2019 , 19,	3.8	33
73	Properties of n-type SnO ₂ semiconductor prepared by spray ultrasonic technique for photovoltaic applications. <i>Journal of Semiconductors</i> , 2015 , 36, 123002	2.3	29
72	Chemical bath deposition of nanocrystalline ZnS thin films: Influence of pH on the reaction solution. <i>Materials Science in Semiconductor Processing</i> , 2013 , 16, 1753-1758	4.3	27
71	Influence of annealing temperature on the structural, morphological and optical properties of Cu doped ZnO thin films deposited by the sol-gel method. <i>Superlattices and Microstructures</i> , 2014 , 75, 47-53	2.8	25
70	CdS thin films growth by ammonia free chemical bath deposition technique. <i>Thin Solid Films</i> , 2012 , 520, 3485-3489	2.2	25
69	ZnS thin films deposition by thermal evaporation for photovoltaic applications. <i>Journal of Semiconductors</i> , 2015 , 36, 103001	2.3	25
68	A Comparative Study of Structural Stability and Mechanical and Optical Properties of Fluorapatite (Ca ₅ (PO ₄) ₃ F) and Lithium Disilicate (Li ₂ Si ₂ O ₅) Components Forming Dental Glass-Ceramics: First Principles Study. <i>Journal of Electronic Materials</i> , 2016 , 45, 5082-5095	1.9	23
67	Sulfide precursor concentration and lead source effect on PbS thin films properties. <i>Journal of Alloys and Compounds</i> , 2016 , 666, 327-333	5.7	20
66	High Performance CO Gas Sensor Based on ZnO Nanoparticles. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020 , 30, 4063-4071	3.2	18

65	Rhodamine (B) photocatalysis under solar light on high crystalline ZnO films grown by home-made DC sputtering. <i>Optik</i> , 2018 , 174, 77-85	2.5	17
64	Co ²⁺ /Al-ZnO Nano-composites: Gas Sensing Properties. <i>Sensors</i> , 2019 , 19,	3.8	16
63	Influence of precursor source on sol-gel deposited ZnO thin films properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 9252-9257	2.1	15
62	ITO substrate resistivity effect on the properties of CuInSe ₂ deposited using two-electrode system. <i>Journal of Materials Science</i> , 2009 , 44, 1241-1244	4.3	13
61	Morphology and photocatalytic activity of porous (In, Mg) co-doped ZnO nanoparticles. <i>Optik</i> , 2018 , 156, 949-960	2.5	13
60	Thermal sulfurization effect on sprayed CZTS thin films properties and CZTS/CdS solar cells performances. <i>Materials Research Express</i> , 2018 , 5, 015511	1.7	12
59	SnO ₂ thin film synthesis for organic vapors sensing at ambient temperature. <i>Sensing and Bio-Sensing Research</i> , 2016 , 11, 52-57	3.3	12
58	Isothermal crystallization kinetic of ZnO thin films. <i>Journal of Crystal Growth</i> , 2010 , 312, 3282-3286	1.6	11
57	Zinc molarity effect on Cu ₂ ZnSnS ₄ thin film properties prepared by spray pyrolysis. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 4089-4095	2.1	11
56	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	2.1	10
55	Modeling and Simulation of Hydrogenated Amorphous Silicon Thin-Film Transistors. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 1192-1198	1.4	10
54	Antibacterial activity of In-doped ZnO nanoparticles. <i>Inorganic Chemistry Communication</i> , 2020 , 122, 108381	3.81	10
53	Simulation of a thin film solar cell based on copper zinc tin sulfo-selenide Cu ₂ ZnSn(S,Se) ₄ . <i>Superlattices and Microstructures</i> , 2016 , 91, 70-77	2.8	9
52	Oxygen effect in radio frequency magnetron sputtered aluminium doped zinc oxide films. <i>Thin Solid Films</i> , 2014 , 562, 70-74	2.2	9
51	Fabrication of a novel MOS diode by indium incorporation control for microelectronic applications*. <i>Journal of Semiconductors</i> , 2017 , 38, 064004	2.3	9
50	Fe ₂ O ₄ /ZnO-nanowires synthesis by dip-coating for Orange II-dye photodegradation. <i>Optik</i> , 2017 , 144, 397-405	2.5	9
49	The optical properties of sputtered amorphous silicon nitride films: Effect of RF power. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1996 , 73, 339-347		9
48	Solution flow rate influence on ZnS thin films properties grown by ultrasonic spray for optoelectronic application. <i>Journal of Semiconductors</i> , 2018 , 39, 093001	2.3	9

47	Gadolinium doping effect on SnO ₂ thin films optical and electrical properties. <i>Materials Research Express</i> , 2019 , 6, 096405	1.7	8
46	Improved Cu ₂ O/AZO Heterojunction by Inserting a Thin ZnO Interlayer Grown by Pulsed Laser Deposition. <i>Journal of Electronic Materials</i> , 2019 , 48, 4381-4388	1.9	8
45	Cadmium sulfide thin films growth by chemical bath deposition. <i>Journal of Semiconductors</i> , 2018 , 39, 034004	2.3	8
44	Optimization of sulphurization temperature for the production of single-phase CZTS kesterite layers synthesized by electrodeposition. <i>Surface Engineering</i> , 2020 , 36, 1000-1011	2.6	7
43	Growth study of CdS thin films deposited by chemical bath. <i>Optik</i> , 2016 , 127, 8423-8430	2.5	7
42	Elaboration of Transparent Undoped ZnO and Al-Doped ZnO Thin Films by Spray Pyrolysis and their Properties. <i>Plasma Processes and Polymers</i> , 2007 , 4, S356-S358	3.4	7
41	Electrical properties of Cu ₄ ZnSnS ₂ /ZnS heterojunction prepared by ultrasonic spray pyrolysis. <i>Journal of Semiconductors</i> , 2016 , 37, 122001	2.3	6
40	Copper oxide thin films for ethanol sensing. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 108, 012004	0.4	6
39	The effect of Ni/Fe ratio on the physical properties of NiFe ₂ O ₄ nanocomposites. <i>Materials Research Express</i> , 2019 , 6, 086107	1.7	5
38	One-step electrodeposition process of CuInSe ₂ : Deposition time effect. <i>Bulletin of Materials Science</i> , 2014 , 37, 1535-1542	1.7	5
37	Temperature-dependent photoluminescence of Li-doped ZnO. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 10521-10530	2.1	4
36	Influence of solvent on humidity sensing of sol-gel deposited ZnO thin films. <i>EPJ Applied Physics</i> , 2014 , 65, 20302	1.1	4
35	Surface state dependence of PbS and PbSe infrared noise and detectivity. <i>Journal of Materials Science: Materials in Electronics</i> , 2012 , 23, 2083-2088	2.1	4
34	Effect of cerium doping on the structural, optical and photocatalytic properties of SnO ₂ thin films prepared by spray pyrolysis method. <i>Materials Research Express</i> , 2019 , 6, 076407	1.7	3
33	Influence of divalent metals (Zn, Cu and Co) on the synthesis and magnetic properties of spinel ferrite nanopowders. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 8194-8205	2.1	3
32	Preparation and photoluminescence of NiFe ₂ O ₄ nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 15379-15387	2.1	3
31	Relative importance of deposition rate for surface potential in amorphous silicon/SiO ₂ interface. <i>Journal Physics D: Applied Physics</i> , 2002 , 35, 2015-2020	3	3
30	Effect of RF Power on the Microstructure of a-Si: H Films. <i>Physica Status Solidi A</i> , 1993 , 136, K31-K33		3

29	Copper concentration effect on physical properties of ultrasonically sprayed Cu ₂ ZnSnS ₄ absorber thin films for solar cell applications. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	3
28	Films surface temperature calculation during growth by sputtering technique. <i>Journal of Semiconductors</i> , 2017 , 38, 096001	2.3	2
27	Co ₃ O ₄ /Fe ₂ O ₃ nanocomposites (NCs): synthesis and characterization. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 5591-5598	2.1	2
26	Investigation of photocatalytic activity of ZnO prepared by spray pyrolysis with various precursors. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 108, 012049	0.4	2
25	Solvent and Spinning Speed Effects on CH ₃ NH ₃ PbI ₃ Films Deposited by Spin Coating. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1900340	1.6	2
24	The sprayed ZnO films: nanostructures and physical parameters. <i>Journal of Semiconductors</i> , 2015 , 36, 083001	2.3	2
23	Facile Synthesis and Antibacterial Activity of Bioplastic Membrane Containing In Doped ZnO/Cellulose Acetate Nanocomposite. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 1	3.2	2
22	Metals and ITO Contact Nature on ZnO and NiO Thin Films. <i>Brazilian Journal of Physics</i> , 2021 , 51, 1159-1165		2
21	Mechanism for phosphorus deactivation in silicon-based Schottky diodes submitted to MW-ECR hydrogen plasma. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	2
20	CO ₂ sensing behavior of vertically aligned Si Nanowire/ZnO structures. <i>Materials Science in Semiconductor Processing</i> , 2021 , 134, 106028	4.3	2
19	Synthesis and Characterization of Cu ₂ ZnSnS ₄ Absorber Layers by Ultrasonic Spray Pyrolysis. <i>Advanced Structured Materials</i> , 2017 , 325-331	0.6	1
18	Surface states simulation model for photoconductors infrared detectors. <i>Journal of Materials Science: Materials in Electronics</i> , 2009 , 20, 400-406	2.1	1
17	A comparison of NO ₂ sensing characteristics of ZnO and Iron oxide-based solid-state gas sensors. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	1
16	Nanocrystalline ZnO thin film growth by ultrasonic spray from a non-aqueous solution. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems</i> , 2009 , 223, 25-33		0
15	Antibacterial activity of stannate M ₂ SnO ₄ (M = Co, Cu, Mg, Ni and Zn) nanoparticles prepared by hydrothermal. <i>Applied Nanoscience (Switzerland)</i> , 1	3.3	0
14	Impact of the meso-PSi substrate on ZnO thin films deposited by spray pyrolysis technique for UV photodetectors. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	0
13	Study of the chemical structure of CH ₃ NH ₃ PbI ₃ perovskite films deposited on different substrates. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 3303-3312	2.1	0
12	Effect of film structure on CH ₃ NH ₃ PbI ₃ perovskite thin films degradation. <i>AIP Advances</i> , 2021 , 11, 025226	2.5	0

11	ZnO and Simonkolleite Nanocomposite Synthesis via Green Chemistry Using Hibiscus Flower Extract. <i>ECS Journal of Solid State Science and Technology</i> , 2021 , 10, 123016	2	0
10	A Low Cost Resistive Gas Sensor Network Based on Zn-Al Doped and Co ₃ O ₄ Nanopowder Composite. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 163-168	0.2	
9	CuInTe ₂ thin films synthesis using one-step electrodeposition process: structural, optical, and electrical characterization. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	
8	Microstructure and opto-electrical properties of SnO ₂ :In ₂ O ₃ alloys thin films prepared by ultrasonic spray. <i>International Journal of Nanoparticles</i> , 2013 , 6, 252	0.4	
7	Substrate-plasma interaction during amorphous silicon thin films growth by sputtering technique. <i>EPJ Applied Physics</i> , 2009 , 47, 31001	1.1	
6	Influence de la température de substrat sur la croissance et les propriétés des films minces de silicium amorphe déposés par pulvérisation cathodique. <i>Canadian Journal of Physics</i> , 2003 , 81, 1293-1302	1.1	
5	ZnO Nanorods growth via green chemistry using wormwood (Artemisia). <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	
4	Realization and Characterization of CH ₃ NH ₃ PbI ₃ /c-Si Heterojunction. <i>Defect and Diffusion Forum</i> , 2006 , 364-374	0.7	
3	Blue-shift in optical bandgap of sprayed nanocrystalline Cu ₂ ZnSnS ₄ thin films induced by 200 MeV Xe swift heavy ions irradiation. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 25516	2.1	
2	Characterization and photocatalytic activity of different molar ratios of TiO ₂ thin films prepared by Sol-Gel process. <i>Main Group Chemistry</i> , 2022 , 1-11	0.6	
1	Effect of deposition time on chemical bath deposited CdS thin films properties. <i>Bulletin of Materials Science</i> , 2022 , 45, 1	1.7	