

Mohammad F Al-Kuhaili

List of Publications by Year in descending order

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76
papers

2,090
citations

218677

26
h-index

254184

43
g-index

76
all docs

76
docs citations

76
times ranked

2937
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of copper oxide thin films deposited by the thermal evaporation of cuprous oxide (Cu ₂ O). <i>Vacuum</i> , 2008, 82, 623-629.	3.5	185
2	Optical properties of hafnium oxide thin films and their application in energy-efficient windows. <i>Optical Materials</i> , 2004, 27, 383-387.	3.6	165
3	Optical properties of iron oxide (I±-Fe ₂ O ₃) thin films deposited by the reactive evaporation of iron. <i>Journal of Alloys and Compounds</i> , 2012, 521, 178-182.	5.5	157
4	Optical properties of gallium oxide films deposited by electron-beam evaporation. <i>Applied Physics Letters</i> , 2003, 83, 4533-4535.	3.3	96
5	Optical properties of chromium oxide thin films deposited by electron-beam evaporation. <i>Optical Materials</i> , 2007, 29, 709-713.	3.6	85
6	Characterization of thin films produced by the thermal evaporation of silver oxide. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 2847-2853.	2.8	75
7	Carbon monoxide gas-sensing properties of CeO ₂ ±ZnO thin films. <i>Applied Surface Science</i> , 2008, 255, 3033-3039.	6.1	72
8	Dielectric/Ag/dielectric coated energy-efficient glass windows for warm climates. <i>Energy and Buildings</i> , 2004, 36, 891-898.	6.7	71
9	Effect of preparation conditions on the optical and thermochromic properties of thin films of tungsten oxide. <i>Solar Energy Materials and Solar Cells</i> , 2002, 71, 313-325.	6.2	56
10	Characterization of hafnium oxide thin films prepared by electron beam evaporation. <i>Journal Physics D: Applied Physics</i> , 2004, 37, 1254-1261.	2.8	55
11	Investigation of the Carbon Monoxide Gas Sensing Characteristics of Tin Oxide Mixed Cerium Oxide Thin Films. <i>Sensors</i> , 2012, 12, 2598-2609.	3.8	54
12	Influence of hydrogen annealing on the optoelectronic properties of WO ₃ thin films. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 12343-12351.	7.1	54
13	Carbon monoxide gas-sensing properties of electron-beam deposited cerium oxide thin films. <i>Sensors and Actuators B: Chemical</i> , 2008, 134, 934-939.	7.8	48
14	Influence of hydrogen annealing on the properties of hafnium oxide thin films. <i>Materials Chemistry and Physics</i> , 2011, 126, 515-523.	4.0	43
15	Application of nickel oxide thin films in NiO/Ag multilayer energy-efficient coatings. <i>Materials Science in Semiconductor Processing</i> , 2015, 39, 84-89.	4.0	41
16	Effects of preparation conditions on the optical properties of thin films of tellurium oxide. <i>Journal Physics D: Applied Physics</i> , 2002, 35, 910-915.	2.8	40
17	Transparent heat mirrors based on tungsten oxide±silver multilayer structures. <i>Solar Energy</i> , 2009, 83, 1571-1577.	6.1	35
18	Optical constants and thermocoloration of pulsed laser deposited molybdenum oxide thin films. <i>Optics Communications</i> , 2010, 283, 2857-2862.	2.1	35

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19	Pulsed laser deposition of molybdenum oxide thin films. Applied Physics A: Materials Science and Processing, 2010, 98, 609-615.	2.3	32
20	A study of thin films of V2O5 containing molybdenum from an evaporation boat. Thin Solid Films, 2004, 460, 30-35.	1.8	31
21	Energy-saving transparent heat mirrors based on tungsten oxideâ€“gold WO3/Au/WO3 multilayer structures. Solar Energy, 2012, 86, 3183-3189.	6.1	31
22	Investigation of ZnO/Al/ZnO multilayers as transparent conducting coatings. Journal Physics D: Applied Physics, 2008, 41, 215302.	2.8	30
23	Determination of average refractive index of thin CeO2films with large inhomogeneities. Journal Physics D: Applied Physics, 2003, 36, 545-551.	2.8	28
24	CO-sensing properties of undoped and doped tin oxide thin films prepared by electron beam evaporation. Talanta, 2005, 65, 1162-1167.	5.5	28
25	Band Gap Engineering of Zinc Selenide Thin Films Through Alloying with Cadmium Telluride. ACS Applied Materials & Interfaces, 2013, 5, 5366-5372.	8.0	28
26	Modulation of the band gap of tungsten oxide thin films through mixing with cadmium telluride towards photovoltaic applications. Materials Research Bulletin, 2017, 87, 148-154.	5.2	28
27	Characterization of thin films of a-SiOx(1.1<x<2.0) prepared by reactive evaporation of SiO. Journal of Physics Condensed Matter, 2003, 15, 8123-8135.	1.8	27
28	Optical properties of erbium oxide thin films deposited by electron beam evaporation. Thin Solid Films, 2007, 515, 2885-2890.	1.8	26
29	Electrical conductivity enhancement of indium tin oxide (ITO) thin films reactively sputtered in a hydrogen plasma. Journal of Materials Science: Materials in Electronics, 2020, 31, 2729-2740.	2.2	24
30	Effect of biasing voltages and electrode metals and materials on the sensitivity of electron beam evaporated HfO2 thin film CO sensor. Materials Chemistry and Physics, 2008, 109, 56-60.	4.0	21
31	Effect of annealing on pulsed laser deposited zirconium oxide thin films. Journal of Alloys and Compounds, 2011, 509, 9536-9541.	5.5	21
32	Enhancement of the refractive index of sputtered zinc oxide thin films through doping with Fe2O3. Journal of Alloys and Compounds, 2017, 690, 453-460.	5.5	18
33	Optical properties of scandium oxide films prepared by electron beam evaporation. Thin Solid Films, 2003, 426, 178-185.	1.8	17
34	Optical constants of hydrogenated zinc oxide thin films. Optical Materials Express, 2014, 4, 2323.	3.0	17
35	Chemical inhomogeneity in zinc telluride thin films prepared by thermal evaporation. Thin Solid Films, 2005, 485, 16-21.	1.8	16
36	Chemical and optical properties of thermally evaporated manganese oxide thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 1746-1750.	2.1	16

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37	Energy-saving spectrally-selective coatings based on MoO ₃ /Ag thin films. <i>Materials & Design</i> , 2015, 73, 15-19.	5.1	16
38	Enhancement in the solar light harvesting ability of tungsten oxide thin films by annealing in vacuum and hydrogen. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 28755-28765.	7.1	16
39	Influence of angle deposition on the properties of ZnTe thin films prepared by thermal evaporation. <i>Ceramics International</i> , 2018, 44, 10130-10140.	4.8	15
40	Electromodulation of wide-bandgap semiconductors. <i>Journal of Alloys and Compounds</i> , 2018, 747, 374-384.	5.5	15
41	Effects of preparation conditions and thermocoloration on the optical properties of thin films of molybdenum oxide. <i>Thin Solid Films</i> , 2002, 408, 188-193.	1.8	14
42	The effect of annealing on structural and optical properties of $\text{Fe}_2\text{O}_3/\text{CdS}/\text{Fe}_2\text{O}_3$ multilayer heterostructures. <i>Applied Surface Science</i> , 2014, 320, 653-657.	6.1	13
43	Bi-layered energy efficient coatings as transparent heat mirrors based on vanadium oxide thin films. <i>Solar Energy Materials and Solar Cells</i> , 2017, 169, 258-263.	6.2	13
44	Collective effects in the ionization of calcium atoms following resonant laser pumping of 4s4p ³ P ¹ metastable state. <i>Journal Physics D: Applied Physics</i> , 1993, 26, 1614-1621.	2.8	12
45	Effect of Annealing on the Optical Properties of GaN Films Grown by Pulsed Laser Deposition. <i>Journal of Materials Science and Technology</i> , 2013, 29, 752-756.	10.7	12
46	Co-sputtered tantalum-doped tin oxide thin films for transparent conducting applications. <i>Materials Chemistry and Physics</i> , 2021, 257, 123749.	4.0	12
47	CW laser pumping of the 4s ² 1S ⁰ -4s4p ³ P ¹ transition of calcium: study of ionization and absorption line profiles. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1993, 26, 393-402.	1.5	11
48	Optical constants of vacuum annealed radio frequency (RF) magnetron sputtered zinc oxide thin films. <i>Optics Communications</i> , 2012, 285, 4405-4412.	2.1	11
49	Characterization of nanocrystalline Fe_2O_3 thin films grown by reactive evaporation and oxidation of iron. <i>Physica Scripta</i> , 2012, 85, 055802.	2.5	11
50	Electronic phase transition in CrN thin films grown by reactive RF magnetron sputtering. <i>Ceramics International</i> , 2022, 48, 17352-17358.	4.8	10
51	Effect of collision during vapor transport between Cd and X (X = Te ₂ , Se ₂ , or S ₂) molecules on the properties of thermally evaporated CdTe, CdSe, and CdS thin films. <i>Results in Physics</i> , 2018, 8, 988-1000.	4.1	9
52	A study of the fluorescent properties of spin-coated sodium salicylate thin films. <i>Journal of Luminescence</i> , 2006, 117, 209-216.	3.1	8
53	Carbon monoxide gas-sensing properties of CeO ₂ -WO ₃ thin films. <i>Materials Science and Technology</i> , 2010, 26, 726-731.	1.6	8
54	Influence of vacuum annealing on the photoresponse of thermally evaporated cadmium telluride thin films. <i>Thin Solid Films</i> , 2019, 686, 137412.	1.8	8

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55	Determination of the optical constants (n and k) of inhomogeneous thin films with linear index profiles. <i>Applied Optics</i> , 2006, 45, 4591.	2.1	7
56	Influence of vacuum annealing on the physical properties of ZnO/Al/ZnO multilayer coatings. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2009, 27, 276-281.	2.1	6
57	Structural and optical properties of dysprosium oxide thin films. <i>Journal of Alloys and Compounds</i> , 2014, 591, 234-239.	5.5	6
58	Enhancement of plasmonic transmittance of porous gold thin films via gold/metal oxide bi-layers for solar energy-saving applications. <i>Solar Energy</i> , 2019, 181, 456-463.	6.1	6
59	Electromodulated transmittance of optical transitions in tungsten oxide. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 139, 109317.	4.0	6
60	Blue shift in the optical transitions of ZnO thin film due to an external electric field. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 112, 94-99.	4.0	5
61	Investigating the structural and optoelectronic properties of co-sputtered Fe-doped WO ₃ thin films and their suitability for photocatalytic applications. <i>Materials Chemistry and Physics</i> , 2022, 281, 125897.	4.0	5
62	Influence of oxygen flow rate on the surface chemistry and morphology of radio frequency (RF) magnetron sputtered zinc oxide thin films. <i>Surface and Interface Analysis</i> , 2013, 45, 1353-1357.	1.8	4
63	Incorporation of oxygen into thermally evaporated germanium and optical characterization of the resulting films. <i>Journal of Applied Physics</i> , 2007, 102, 053512.	2.5	3
64	Phase dependent growth of superficial nanowalls-like structure on TiO ₂ thin films in molecular hydrogen (H ₂) annealing environment. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 12497-12502.	7.1	3
65	Influence of iron doping on the structural, chemical, and optoelectronic properties of sputtered zinc oxide thin films. <i>Journal of Materials Research</i> , 2016, 31, 3230-3239.	2.6	3
66	Tunable visible light absorption of MoO ₃ -CdTe composite thin films. <i>Thin Solid Films</i> , 2017, 636, 137-143.	1.8	3
67	Investigation of fundamental and high order optical transitions in $\hat{1}\pm$ -Fe ₂ O ₃ thin films using surface barrier electroreflectance. <i>Superlattices and Microstructures</i> , 2017, 110, 98-107.	3.1	3
68	Laser-induced photocoloration in molybdenum oxide thin films. <i>Journal of Alloys and Compounds</i> , 2021, 885, 161043.	5.5	3
69	A method for the determination of the optical constants (n and k) of thin films with large optical inhomogeneities. <i>Journal of Modern Optics</i> , 2007, 54, 1453-1465.	1.3	2
70	P-type conductivity in hydrogenated radio frequency sputtered tin oxide thin films. <i>Journal of Alloys and Compounds</i> , 2019, 772, 801-807.	5.5	2
71	Spectrally selective energy-saving coatings based on reactively sputtered bismuth oxide thin films. <i>Optical Materials Express</i> , 2020, 10, 449.	3.0	2
72	Electroreflectance of hexagonal gallium nitride at the fundamental and E1 spectral regions. <i>Applied Physics Letters</i> , 2003, 82, 1203-1205.	3.3	1

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73	Influence of Post Growth Annealing on the Optical Properties of Gallium Nitride Films Grown by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 2012, 1432, 59.	0.1	0
74	Thin Film growth and characterization of Ti doped ZnO by RF/DC magnetron sputtering. Materials Research Society Symposia Proceedings, 2015, 1731, 55.	0.1	0
75	A Substantial linear red shift in the band gap in heavily copper doped zinc oxide thin films produced by co-sputtering. Journal of Materials Science: Materials in Electronics, 2017, 28, 12956-12961.	2.2	0
76	Recovering the optical transitions in tin oxide thin films at room temperature using electroreflectance. Superlattices and Microstructures, 2021, 156, 106985.	3.1	0