

Mohammad F Al-Kuhaili

List of Publications by Year in descending order

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76
papers

2,090
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218677

26
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254184

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76
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76
docs citations

76
times ranked

2937
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic phase transition in CrN thin films grown by reactive RF magnetron sputtering. <i>Ceramics International</i> , 2022, 48, 17352-17358.	4.8	10
2	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
3	Co-sputtered tantalum-doped tin oxide thin films for transparent conducting applications. <i>Materials Chemistry and Physics</i> , 2021, 257, 123749.	4.0	12
4	Recovering the optical transitions in tin oxide thin films at room temperature using electroreflectance. <i>Superlattices and Microstructures</i> , 2021, 156, 106985.	3.1	0
5	Laser-induced photocolouration in molybdenum oxide thin films. <i>Journal of Alloys and Compounds</i> , 2021, 885, 161043.	5.5	3
6	Electrical conductivity enhancement of indium tin oxide (ITO) thin films reactively sputtered in a hydrogen plasma. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 2729-2740.	2.2	24
7	Electromodulated transmittance of optical transitions in tungsten oxide. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 139, 109317.	4.0	6
8	Spectrally selective energy-saving coatings based on reactively sputtered bismuth oxide thin films. <i>Optical Materials Express</i> , 2020, 10, 449.	3.0	2
9	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
10	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
11	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
12	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
13	Electromodulation of wide-bandgap semiconductors. <i>Journal of Alloys and Compounds</i> , 2018, 747, 374-384.	5.5	15
14	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
15	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
16	Tunable visible light absorption of MoO ₃ -CdTe composite thin films. <i>Thin Solid Films</i> , 2017, 636, 137-143.	1.8	3
17	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
18	Investigation of fundamental and high order optical transitions in λ -Fe ₂ O ₃ thin films using surface barrier electroreflectance. <i>Superlattices and Microstructures</i> , 2017, 110, 98-107.	3.1	3

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19	A Substantial linear red shift in the band gap in heavily copper doped zinc oxide thin films produced by co-sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 12956-12961.	2.2	0
20	Enhancement of the refractive index of sputtered zinc oxide thin films through doping with Fe ₂ O ₃ . <i>Journal of Alloys and Compounds</i> , 2017, 690, 453-460.	5.5	18
21	Modulation of the band gap of tungsten oxide thin films through mixing with cadmium telluride towards photovoltaic applications. <i>Materials Research Bulletin</i> , 2017, 87, 148-154.	5.2	28
22	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
23	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
24	Thin Film growth and characterization of Ti doped ZnO by RF/DC magnetron sputtering. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1731, 55.	0.1	0
25	Energy-saving spectrally-selective coatings based on MoO ₃ /Ag thin films. <i>Materials & Design</i> , 2015, 73, 15-19.	5.1	16
26	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
27	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
28	Optical constants of hydrogenated zinc oxide thin films. <i>Optical Materials Express</i> , 2014, 4, 2323.	3.0	17
29	The effect of annealing on structural and optical properties of $\text{In}_x\text{Fe}_{2-x}\text{O}_3/\text{CdS}/\text{In}_x\text{Fe}_{2-x}\text{O}_3$ multilayer heterostructures. <i>Applied Surface Science</i> , 2014, 320, 653-657.	6.1	13
30	Structural and optical properties of dysprosium oxide thin films. <i>Journal of Alloys and Compounds</i> , 2014, 591, 234-239.	5.5	6
31	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
32	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
33	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
34	Band Gap Engineering of Zinc Selenide Thin Films Through Alloying with Cadmium Telluride. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5366-5372.	8.0	28
35	Influence of Post Growth Annealing on the Optical Properties of Gallium Nitride Films Grown by Pulsed Laser Deposition. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1432, 59.	0.1	0
36	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

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37	Optical properties of iron oxide (Fe_2O_3) thin films deposited by the reactive evaporation of iron. <i>Journal of Alloys and Compounds</i> , 2012, 521, 178-182.	5.5	157
38	Energy-saving transparent heat mirrors based on tungsten oxide-gold $\text{WO}_3/\text{Au}/\text{WO}_3$ multilayer structures. <i>Solar Energy</i> , 2012, 86, 3183-3189.	6.1	31
39	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
40	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
41	Effect of annealing on pulsed laser deposited zirconium oxide thin films. <i>Journal of Alloys and Compounds</i> , 2011, 509, 9536-9541.	5.5	21
42	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
43	Pulsed laser deposition of molybdenum oxide thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 98, 609-615.	2.3	32
44	Optical constants and thermocoloration of pulsed laser deposited molybdenum oxide thin films. <i>Optics Communications</i> , 2010, 283, 2857-2862.	2.1	35
45	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
46	Influence of vacuum annealing on the physical properties of $\text{ZnO}/\text{Al}/\text{ZnO}$ multilayer coatings. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2009, 27, 276-281.	2.1	6
47	Transparent heat mirrors based on tungsten oxide-silver multilayer structures. <i>Solar Energy</i> , 2009, 83, 1571-1577.	6.1	35
48	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
49	Characterization of copper oxide thin films deposited by the thermal evaporation of cuprous oxide (Cu_2O). <i>Vacuum</i> , 2008, 82, 623-629.	3.5	185
50	Carbon monoxide gas-sensing properties of CeO_2/ZnO thin films. <i>Applied Surface Science</i> , 2008, 255, 3033-3039.	6.1	72
51	Effect of biasing voltages and electrode metals and materials on the sensitivity of electron beam evaporated HfO_2 thin film CO sensor. <i>Materials Chemistry and Physics</i> , 2008, 109, 56-60.	4.0	21
52	Investigation of $\text{ZnO}/\text{Al}/\text{ZnO}$ multilayers as transparent conducting coatings. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 215302.	2.8	30
53	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
54	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

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55	Characterization of thin films produced by the thermal evaporation of silver oxide. Journal Physics D: Applied Physics, 2007, 40, 2847-2853.	2.8	75
56	Optical properties of erbium oxide thin films deposited by electron beam evaporation. Thin Solid Films, 2007, 515, 2885-2890.	1.8	26
57	Optical properties of chromium oxide thin films deposited by electron-beam evaporation. Optical Materials, 2007, 29, 709-713.	3.6	85
58	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
59	Determination of the optical constants (n and k) of inhomogeneous thin films with linear index profiles. Applied Optics, 2006, 45, 4591.	2.1	7
60	A study of the fluorescent properties of spin-coated sodium salicylate thin films. Journal of Luminescence, 2006, 117, 209-216.	3.1	8
61	Chemical inhomogeneity in zinc telluride thin films prepared by thermal evaporation. Thin Solid Films, 2005, 485, 16-21.	1.8	16
62	CO-sensing properties of undoped and doped tin oxide thin films prepared by electron beam evaporation. Talanta, 2005, 65, 1162-1167.	5.5	28
63	Characterization of hafnium oxide thin films prepared by electron beam evaporation. Journal Physics D: Applied Physics, 2004, 37, 1254-1261.	2.8	55
64	Optical properties of hafnium oxide thin films and their application in energy-efficient windows. Optical Materials, 2004, 27, 383-387.	3.6	165
65	Dielectric/Ag/dielectric coated energy-efficient glass windows for warm climates. Energy and Buildings, 2004, 36, 891-898.	6.7	71
66	A study of thin films of V2O5 containing molybdenum from an evaporation boat. Thin Solid Films, 2004, 460, 30-35.	1.8	31
67	Optical properties of scandium oxide films prepared by electron beam evaporation. Thin Solid Films, 2003, 426, 178-185.	1.8	17
68	Optical properties of gallium oxide films deposited by electron-beam evaporation. Applied Physics Letters, 2003, 83, 4533-4535.	3.3	96
69	Determination of average refractive index of thin CeO2 films with large inhomogeneities. Journal Physics D: Applied Physics, 2003, 36, 545-551.	2.8	28
70	Electroreflectance of hexagonal gallium nitride at the fundamental and E1 spectral regions. Applied Physics Letters, 2003, 82, 1203-1205.	3.3	1
71	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
72	Effects of preparation conditions on the optical properties of thin films of tellurium oxide. Journal Physics D: Applied Physics, 2002, 35, 910-915.	2.8	40

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73	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
74	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
75	Collective effects in the ionization of calcium atoms following resonant laser pumping of 4s4p3P1 metastable state. <i>Journal Physics D: Applied Physics</i> , 1993, 26, 1614-1621.	2.8	12
76	CW laser pumping of the 4s21S0-4s4p3P1 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