Rachmat Adhi Wibowo

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6991555/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Single step preparation of quaternary thin films by RF magnetron sputtering from binary chalcogenide targets. Journal of Physics and Chemistry of Solids, 2007, 68, 1908-1913.	4.0	151
2	Pulsed laser deposition of quaternary Cu ₂ ZnSnSe ₄ thin films. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3373-3379.	1.8	135
3	Highly transparent and conductive indium-doped zinc oxide films deposited at low substrate temperature by spray pyrolysis from water-based solutions. Journal of Materials Science, 2017, 52, 8591-8602.	3.7	57
4	Cu2ZnSn(S,Se)4 solar cells processed by rapid thermal processing of stacked elemental layer precursors. Thin Solid Films, 2013, 535, 5-9.	1.8	49
5	All-oxide solar cells based on electrodeposited Cu2O absorber and atomic layer deposited ZnMgO on precious-metal-free electrode. Solar Energy Materials and Solar Cells, 2017, 161, 449-459.	6.2	43
6	Nanocrystalline Ga ₂ O ₃ films deposited by spray pyrolysis from water-based solutions on glass and TCO substrates. Journal of Materials Chemistry C, 2019, 7, 69-77.	5.5	43
7	Properties of Al-doped ZnO thin film sputtered from powder compacted target. Materials Letters, 2006, 60, 1931-1935.	2.6	41
8	Comparison of chemical bath-deposited ZnO films doped with Al, Ga and In. Journal of Materials Science, 2017, 52, 9410-9423.	3.7	35
9	Synthesis of Cu2ZnSnSe4 compound powders by solid state reaction using elemental powders. Journal of Physics and Chemistry of Solids, 2010, 71, 1702-1706.	4.0	34
10	Polymer interlayers on flexible PET substrates enabling ultra-high performance, ITO-free dielectric/metal/dielectric transparent electrode. Materials and Design, 2019, 168, 107663.	7.0	33
11	Intermetallic compounds dynamic formation during annealing ofÂstacked elemental layers and its influences on the crystallization ofÂCu2ZnSnSe4 films. Materials Chemistry and Physics, 2013, 142, 311-317.	4.0	28
12	A study of kesterite Cu2ZnSn(Se,S)4 formation from sputtered Cu–Zn–Sn metal precursors by rapid thermal processing sulfo-selenization of the metal thin films. Thin Solid Films, 2013, 535, 57-61.	1.8	28
13	Solution-processed all-oxide solar cell based on electrodeposited Cu2O and ZnMgO by spray pyrolysis. Journal of Materials Science, 2018, 53, 12231-12243.	3.7	28
14	Properties of transparent and conductive Al:ZnO/Au/Al:ZnO multilayers on flexible PET substrates. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 200, 84-92.	3.5	27
15	Crystallization of Cu2ZnSnSe4 compound by solid state reaction using elemental powders. Materials Chemistry and Physics, 2010, 124, 1006-1010.	4.0	24
16	Formation of Cu2SnSe3 from stacked elemental layers investigated by combined in situ X-ray diffraction and differential scanning calorimetry techniques. Journal of Alloys and Compounds, 2014, 588, 254-258.	5.5	17
17	Influence of the acetic acid concentration on the growth of zinc oxide thin films prepared by spray pyrolysis of aqueous solutions. Thin Solid Films, 2015, 594, 238-244.	1.8	16
18	Influence of the aqueous solution composition on the morphology of Zn _{1â^x} Mg _x O films deposited by spray pyrolysis. Journal of Materials Chemistry C. 2019. 7, 3889-3900	5.5	16

Rachmat Adhi Wibowo

#	Article	IF	CITATIONS
19	Band gap engineering of RF-sputtered CuInZnSe2 thin films for indium-reduced thin-film solar cell application. Solar Energy Materials and Solar Cells, 2009, 93, 941-944.	6.2	13
20	Optimization of growth parameters for growth of high quality heteroepitaxial 3C–SiC films at 1200°C. Thin Solid Films, 2015, 577, 88-93.	1.8	12
21	Galvanostatically-electrodeposited Cu–Zn–Sn multilayers as precursors for crystallising kesterite Cu2ZnSnS4 thin films. Thin Solid Films, 2015, 582, 239-244.	1.8	10
22	Powder-to-film approach for fabricating critical raw material-free kesterite Cu2ZnSn(S,Se)4 thin film photovoltaic: A review. Solar Energy, 2018, 176, 157-169.	6.1	10
23	Fast sputter deposition of MoOx/metal/MoOx transparent electrodes on glass and PET substrates. Journal of Materials Science, 2021, 56, 9047-9064.	3.7	10
24	Real-time investigations on the formation of Cu(In,Ga)(S,Se)2 while annealing Cu–In–Ga precursors with different sulphur–selenium mixtures. Thin Solid Films, 2013, 535, 112-117.	1.8	8
25	The formation mechanism of secondary phases in Cu 2 ZnSnSe 4 absorber layer. Thin Solid Films, 2015, 582, 245-248.	1.8	8
26	Rapid Processing of In-Doped ZnO by Spray Pyrolysis from Environment-Friendly Precursor Solutions. Coatings, 2019, 9, 245.	2.6	7
27	Growth and Properties of Stannite-Quaternary Cu ₂ ZnSnSe ₄ Thin Films Prepared by Selenization of Sputtered Binary Compound Precursors. Advanced Materials Research, 2007, 29-30, 79-82.	0.3	5
28	Allâ€solutionâ€processed transparent front contact for monograin layer kesterite solar cells. Progress in Photovoltaics: Research and Applications, 2019, 27, 547-555.	8.1	5
29	Low-Temperature-Processed Transparent Electrodes Based on Compact and Mesoporous Titanium Oxide Layers for Flexible Perovskite Solar Cells. ACS Applied Energy Materials, 2022, 5, 5318-5330.	5.1	5
30	Growth of Cu(In _{1-x} Al _x)Se ₂ Thin Films by Atmospheric Pressure Selenization of Sputtered Precursors. Solid State Phenomena, 2007, 124-126, 931-934.	0.3	4
31	Design and implementation of an ultrathin dielectric/metal/dielectric transparent electrode for Cu2ZnSnS4 thin-film photovoltaics. Solar Energy Materials and Solar Cells, 2021, 230, 111247.	6.2	3
32	Flexible Transparent Heater Fabricated from Spray-Coated In:ZnO/Ag-NWs/In:ZnO Multilayers on Polyimide Foil. Nanomaterials, 2022, 12, 316.	4.1	3
33	Optimising The Parameters For The Synthesis Of Cuin-Nanoparticles By Chemical Reduction Method For Chalcopyrite Thin Film Precursors. Materials Research Society Symposia Proceedings, 2013, 1538, 203-208.	0.1	2
34	Investigation of Deposition Parameters Dependence on Sputtered Cu ₂ ZnSnSe ₄ Thin Films Properties. Advanced Materials Research, 0, 1125, 143-147.	0.3	2
35	Dynamic interplay of alkali cations and a natural organic binder in the microstructural evolution of Cu2ZnSnS4 thin films prepared from Cu2ZnSnS4 powder-containing inks. RSC Advances, 2019, 9, 28670-28677.	3.6	2
36	Transparent electrodes based on molybdenum–titanium–oxide with increased water stability for use as hole-transport/hole-injection components. Journal of Materials Science, 2022, 57, 8752-8766.	3.7	2

#	Article	IF	CITATIONS
37	Highly c-Axis Oriented Al-Doped ZnO Thin Films Grown in Premixed H ₂ /Ar Sputtering Gas. Advanced Materials Research, 2007, 29-30, 215-218.	0.3	1
38	Synthesis of Cu(In _{0.75} Al _{0.25})Se ₂ Thin Films from Binary Selenides Powder Compacted Targets by Sputtering and Selenization. Solid State Phenomena, 0, 135, 99-102.	0.3	1
39	Preparation and characterization of sputtered CuInSe <inf>2</inf> thin films using a single target composed of a mixture CuSe and InSe binary selenides powders. Optoelectronic and Microelectronic Materials and Devices (COMMAD), Conference on, 2008, , .	0.0	0
40	EFFECTS OF DEPOSITION PARAMETERS AND OXYGEN ADDITION ON PROPERTIES OF SPUTTERED INDIUM TIN OXIDE FILMS. MAKARA of Technology Series, 2013, 16, .	0.0	0
41	Cu2ZnSnSe4Thin Films Preparation by Pulsed Laser Deposition Using Powder Compacted Target. Journal of the Korean Institute of Surface Engineering, 2011, 44, 185-189.	0.1	0
42	Material investigation on magnetron sputtered \$ext{TiO}_{2-x}\$ alternative buffer layers for CIGSe absorber produced in an industrial roll-to-roll hybrid sputter co-evaporation process. , 2020, , .		0