Velumani S

List of Publications by Year in descending order

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195 papers 4,118 citations

126708 33 h-index 53 g-index

201 all docs

 $\begin{array}{c} 201 \\ \\ \text{docs citations} \end{array}$

201 times ranked

4941 citing authors

#	Article	lF	Citations
1	TiO2 thin film gas sensor for monitoring ammonia. Materials Characterization, 2007, 58, 680-684.	1.9	345
2	Experimental and SCAPS simulated formamidinium perovskite solar cells: A comparison of device performance. Solar Energy, 2020, 205, 349-357.	2.9	177
3	Structural and optical properties of hot wall deposited CdSe thin films. Solar Energy Materials and Solar Cells, 2003, 76, 347-358.	3.0	124
4	Microplastics in tourist beaches of Huatulco Bay, Pacific coast of southern Mexico. Marine Pollution Bulletin, 2016, 113, 530-535.	2.3	113
5	Structural and optical characterization of ball-milled copper-doped bismuth vanadium oxide (BiVO ₄). CrystEngComm, 2015, 17, 3366-3375.	1.3	101
6	Development of CdTe thin films on flexible substrates—a review. Solar Energy Materials and Solar Cells, 2003, 76, 293-303.	3.0	86
7	Characterization of zinc phthalocyanine (ZnPc) for photovoltaic applications. Applied Physics A: Materials Science and Processing, 2003, 77, 383-389.	1.1	82
8	Structural, optical and Raman scattering studies on DC magnetron sputtered titanium dioxide thin films. Solar Energy Materials and Solar Cells, 2005, 88, 199-208.	3.0	80
9	Comparative studies of CdS thin films by chemical bath deposition techniques as a buffer layer for solar cell applications. Journal of Materials Science: Materials in Electronics, 2020, 31, 7499-7518.	1.1	79
10	Structural and optical characterization of hot wall deposited CdSexTe1â^'x films. Solar Energy Materials and Solar Cells, 2003, 76, 359-368.	3.0	73
11	Synthesis and Characterization of Cadmium Sulfide Nanoparticles by Chemical Precipitation Method. Journal of Nanoscience and Nanotechnology, 2015, 15, 8434-8439.	0.9	65
12	Camphor-mediated synthesis of carbon nanoparticles, graphitic shell encapsulated carbon nanocubes and carbon dots for bioimaging. Scientific Reports, 2016, 6, 21286.	1.6	56
13	Perspectives of chalcopyrite-based CIGSe thin-film solar cell: a review. Journal of Materials Science: Materials in Electronics, 2020, 31, 7286-7314.	1.1	55
14	Structural and annealing studies of potentiostatically deposited Cu2O thin films. Solar Energy Materials and Solar Cells, 2005, 88, 209-216.	3.0	53
15	Electrical and optical properties of ultrasonically sprayed Al-doped zinc oxide thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 174, 31-37.	1.7	53
16	Mechanochemical synthesis of nanostructured BiVO4 and investigations of related features. Materials Chemistry and Physics, 2012, 135, 842-848.	2.0	53
17	Structural characterization of hot wall deposited cadmium selenide thin films. Semiconductor Science and Technology, 1998, 13, 1016-1024.	1.0	51
18	Nanostructured bismuth vanadate (BiVO4) thin films for efficient visible light photocatalysis. Materials Chemistry and Physics, 2018, 205, 325-333.	2.0	50

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19	Electrodeposition and characterization of Fe doped CdSe thin films from aqueous solution. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 174, 242-248.	1.7	48
20	Structural, electronic and optical features of molybdenum-doped bismuth vanadium oxide. Materials Science in Semiconductor Processing, 2015, 31, 618-623.	1.9	48
0.1	Effect of bismuth iodide (<mmi:math)="" 0.784314<="" 1="" etqq1="" ij="" td="" xmins:mmi="http://www.w3.org/1998/Math/Math/Math/ViL"><td></td><td></td></mmi:math>		
21	interfacial layer with different HTL's in FAPI based perovskite solar cell – SCAPS – 1D study. Solar	2.9	47
22	Characterization of vacuum-evaporated ZnSe thin films. Materials Characterization, 2007, 58, 794-799.	1.9	42
23	AC and dielectric properties of vacuum evaporated InTe bilayer thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 174, 269-272.	1.7	42
24	Influence of annealing on structural and optical properties of Zn3P2 thin films. Materials Characterization, 2007, 58, 745-749.	1.9	41
25	Plasmonic/Magnetic Multifunctional nanoplatform for Cancer Theranostics. Scientific Reports, 2016, 6, 34874.	1.6	41
26	Influence of surface phenomena in oxidative desulfurization with WOx/ZrO2 catalysts. Applied Physics A: Materials Science and Processing, 2004, 79, 2037-2040.	1.1	40
27	Mechanical and machinability behaviors of woven coir fiber-reinforced polyester composite. Fibers and Polymers, 2013, 14, 1505-1514.	1.1	40
28	Structural and optical characterization of CulnSe2 films deposited by hot wall vacuum evaporation method. Vacuum, 2007, 81, 813-818.	1.6	38
29	Fluorine doped zinc oxide thin films deposited by chemical spray, starting from zinc pentanedionate and hydrofluoric acid: Effect of the aging time of the solution. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 174, 46-49.	1.7	38
30	Effect of Al concentrations on the electrodeposition and properties of transparent Al-doped ZnO thin films. Journal of Materials Science: Materials in Electronics, 2014, 25, 1761-1769.	1.1	38
31	Electrochemical deposition and characterization of Ni–P alloy thin films. Materials Characterization, 2007, 58, 800-804.	1.9	36
32	Proposal of a hybrid CHP system: SOFC/microturbine/absorption chiller. International Journal of Energy Research, 2010, 34, 1088-1095.	2.2	35
33	Scanning fluorescence-based ultrasensitive detection of dengue viral DNA on ZnO thin films. Sensors and Actuators B: Chemical, 2014, 202, 1338-1348.	4.0	35
34	Formation of ZnS nanorods by simple evaporation technique. Applied Physics A: Materials Science and Processing, 2004, 79, 153-156.	1.1	33
35	Electrical resistivity of thermally evaporated bismuth telluride thin films. Solar Energy Materials and Solar Cells, 2004, 81, 305-312.	3.0	33
36	Characterization of Bismuth Telluride thin films â€" Flash evaporation method. Materials Characterization, 2007, 58, 782-785.	1.9	33

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37	Electrosynthesis and characterization of lead oxide thin films. Materials Characterization, 2007, 58, 817-822.	1.9	32
38	Effect of rapid thermal annealing on the properties of PECVD SiNx thin films. Materials Chemistry and Physics, 2007, 106, 130-133.	2.0	31
39	Structural studies of mechano-chemically synthesized CuIn1â°'xGaxSe2 nanoparticles. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 174, 216-221.	1.7	30
40	Aging effects on the stability of nitrogen-doped and un-doped InGaZnO thin-film transistors. Materials Science in Semiconductor Processing, 2015, 37, 129-134.	1.9	30
41	Structure-dependent anisotropy of the photoinduced optical nonlinearity in calcium doped ZnO nanorods grown by low cost hydrothermal method for photonic device applications. Journal of Alloys and Compounds, 2016, 658, 435-439.	2.8	30
42	Occurrence, distribution and provenance of micro plastics: A large scale quantitative analysis of beach sediments from southeastern coast of South Africa. Science of the Total Environment, 2020, 746, 141103.	3.9	30
43	Electronic and optical competence of TiO2/BiVO4 nanocomposites in the photocatalytic processes. Scientific Reports, 2020, 10, 13507.	1.6	30
44	Chalcogenide BaZrS3 perovskite solar cells: A numerical simulation and analysis using SCAPS-1D. Optical Materials, 2022, 126, 112250.	1.7	30
45	Structural studies on vacuum evaporated ZnSe/p-Si Schottky diodes. Materials Chemistry and Physics, 2007, 103, 305-311.	2.0	29
46	Experimental and theoretical investigations of structural and optical properties of CIGS thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 174, 205-208.	1.7	29
47	Properties of Mechanochemically Synthesized ZnS Nanoparticles. Journal of Nanoscience and Nanotechnology, 2009, 9, 6600-6605.	0.9	28
48	Structural and optical characterization of mechanochemically synthesized copper doped CdS nanopowders. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 1452-1459.	1.7	28
49	Hot injection synthesis of Cu(In, Ga)Se2 nanocrystals with tunable bandgap. Optical Materials, 2018, 79, 450-456.	1.7	28
50	Structure, magnetic and cytotoxic behaviour of solvothermally grown Fe3O4@Au core-shell nanoparticles. Materials Characterization, 2018, 142, 237-244.	1.9	28
51	Photocatalytic degradation of Orange G using TiO2/Fe3O4 nanocomposites. Journal of Materials Science: Materials in Electronics, 2018, 29, 15436-15444.	1.1	27
52	An investigation on silar Cu(In1â^'xAlx)Se2 thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 174, 209-215.	1.7	26
53	Effect of nitrate concentration on the electrochemical growth and properties of ZnO nanostructures. Journal of Materials Science: Materials in Electronics, 2015, 26, 1217-1224.	1.1	26
54	Solution-based synthesis of high yield CZTS (Cu 2 ZnSnS 4) spherical quantum dots. Superlattices and Microstructures, 2015, 77, 305-312.	1.4	26

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55	Dielectric behavior, conduction and EPR active centres in BiVO4 nanoparticles. Journal of Physics and Chemistry of Solids, 2013, 74, 1695-1702.	1.9	25
56	Manganese ferrite nanocubes as an MRI contrast agent. Materials Research Express, 2020, 7, 016107.	0.8	25
57	Deposition and characterization of ultrathin intrinsic zinc oxide (i-ZnO) films by radio frequency (RF) sputtering for propane gas sensing application. Journal of Materials Science: Materials in Electronics, 2018, 29, 15682-15692.	1.1	24
58	Structure and temperature dependence of conduction mechanisms in hot wall deposited CuInSe2 thin films and effect of back contact layer in CuInSe2 based solar cells. Vacuum, 2010, 84, 1220-1225.	1.6	22
59	Influence of working pressure on the structural, optical and electrical properties of sputter deposited AZO thin films. Materials Science in Semiconductor Processing, 2015, 37, 29-36.	1.9	22
60	Deposition and characterization of graded Cu(In1-xGax)Se2 thin filmsÂby spray pyrolysis. Materials Chemistry and Physics, 2015, 162, 59-68.	2.0	22
61	Parametric optimization of mechanochemical process for synthesis of Cu(In, Ga)0.5Se2 nanoparticles. Materials Science in Semiconductor Processing, 2015, 37, 151-158.	1.9	22
62	Cobalt ferrite nanowhiskers as T ₂ MRI contrast agent. RSC Advances, 2015, 5, 17223-17227.	1.7	22
63	Copper and Bismuth incorporated mixed cation perovskite solar cells by one-step solution process. Solar Energy, 2021, 218, 226-236.	2.9	21
64	ZrO ₂ /ZnO/TiO ₂ Nanocomposite Coatings on Stainless Steel for Improved Corrosion Resistance, Biocompatibility, and Antimicrobial Activity. ACS Applied Materials & Samp; Interfaces, 2022, 14, 13801-13811.	4.0	21
65	Preparation and characterization of MnSe thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 174, 257-262.	1.7	20
66	High Energy Ball-Milling Synthesis of Nanostructured Ag-Doped and BiVO ₄ -Based Photocatalysts. ChemistrySelect, 2016, 1, 1278-1286.	0.7	20
67	Structural analysis of cobalt titanate nanoparticles obtained by sol?gel process. Applied Physics A: Materials Science and Processing, 2004, 78, 531-536.	1.1	19
68	Structural properties of In2Se3 precursor layers deposited by spray pyrolysis and physical vapor deposition for CuInSe2 thin-film solar cell applications. Thin Solid Films, 2015, 587, 112-116.	0.8	19
69	Electrochemical synthesis and characterization of zinc selenide thin films. Journal of Materials Science, 2006, 41, 3553-3559.	1.7	18
70	Effect of milling time and heat treatment on the composition of Culn0.75Ga0.25Se2 nanoparticle precursors and films. Journal of Nanoparticle Research, 2011, 13, 3033-3042.	0.8	17
71	Size modulation of nanocrystalline silicon embedded in amorphous silicon oxide by Cat-CVD. Thin Solid Films, 2011, 519, 4498-4501.	0.8	17
72	Electrochemical growth and characterization of iron doped cadmium sulfide thin films. Materials Science in Semiconductor Processing, 2015, 37, 215-222.	1.9	17

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73	Structural studies of BaTiO3:Er3+ and BaTiO3:Yb3+ powders synthesized by hydrothermal method. Journal of Rare Earths, 2014, 32, 1016-1021.	2.5	16
74	Biofunctionalized MnFe ₂ O ₄ @Au core–shell nanoparticles for pH-responsive drug delivery and hyperthermal agent for cancer therapy. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 993-1003.	1.9	16
75	Mechanical activation of TiO2/Fe2O3 nanocomposite for arsenic adsorption: effect of ball-to-powder ratio and milling time. Journal of Nanostructure in Chemistry, 2021, 11, 619-632.	5.3	16
76	Electrosynthesis and studies on Cadmium-Indium-Selenide thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 174, 236-241.	1.7	15
77	Band structure calculations of Cu(In1â^xGax)Se2. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 174, 200-204.	1.7	15
78	Mathematical Modeling and Optimization of Mechanical Properties of Short Coir Fiber-Reinforced Vinyl Ester Composite Using Genetic Algorithm Method. Mechanics of Advanced Materials and Structures, 2014, 21, 559-565.	1. 5	15
79	Highly transparent RF magnetron-sputtered indium tin oxide films for a-Si:H/c-Si heterojunction solar cells amorphous/crystalline silicon. Materials Science in Semiconductor Processing, 2014, 24, 225-230.	1.9	15
80	Role of Schottky barrier height at source/drain contact for electrical improvement in high carrier concentration amorphous InGaZnO thin film transistors. Materials Science in Semiconductor Processing, 2015, 38, 50-56.	1.9	15
81	Fabrication and characterization of n-CdSe0.7Te0.3/p-CdSe0.15Te0.85 solar cell. Vacuum, 2010, 84, 1216-1219.	1.6	14
82	Uniform 3D hydrothermally deposited zinc oxide nanorods with high haze ratio. Materials Science in Semiconductor Processing, 2015, 37, 99-104.	1.9	14
83	SF6/Ar plasma textured periodic glass surface morphologies with high transmittance and haze ratio of ITO:Zr films for amorphous silicon thin film solar cells. Vacuum, 2015, 117, 91-97.	1.6	14
84	Structural and optical properties of CZTS nanoparticles prepared by a colloidal process. Rare Metals, 2021, 40, 2602-2609.	3.6	14
85	Impact of target power on the properties of sputtered intrinsic zinc oxide (i-ZnO) thin films and its thickness dependence performance on CISe solar cells. Optical Materials, 2021, 119, 111350.	1.7	14
86	Dielectric properties of vacuum deposited Bi2Te3 thin films. Solar Energy Materials and Solar Cells, 2005, 88, 187-198.	3.0	13
87	Optimization of mechanical properties of non-woven short sisal fibre-reinforced vinyl ester composite using factorial design and GA method. Bulletin of Materials Science, 2013, 36, 575-583.	0.8	13
88	Structural Properties of Ultrasonically Sprayed Al-Doped ZnO (AZO) Thin Films: Effect of ZnO Buffer Layer on AZO. Journal of Electronic Materials, 2015, 44, 699-705.	1.0	13
89	Effect of sodium doping on graded Cu(ln1â^'xGax)Se2 thin films prepared by chemical spray pyrolysis. Materials Science in Semiconductor Processing, 2015, 37, 37-45.	1.9	13
90	Cu ₂ ZnSn(S,Se) ₄ thin-films prepared from selenized nanocrystals ink. RSC Advances, 2019, 9, 18420-18428.	1.7	13

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91	Solution based synthesis of Cu(In,Ga)Se ₂ microcrystals and thin films. RSC Advances, 2019, 9, 35197-35208.	1.7	13
92	Graphene oxide decorated TiO2 and BiVO4 nanocatalysts for enhanced visible-light-driven photocatalytic bacterial inactivation. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 418, 113374.	2.0	13
93	Morphology control and optical properties of ZnO nanostructures grown by ultrasonic synthesis. Advances in Nano Research, 2013, 1, 59-70.	0.9	13
94	Electrochemical deposition and studies on CdCr2S4 thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 174, 249-252.	1.7	12
95	Regression modelling and optimisation of cutting parameters through Nelder-Mead simplex search and CCFD during drilling of sisal-glass/vinyl ester composites. International Journal of Machining and Machinability of Materials, 2013, 14, 1.	0.1	12
96	Lu2O3:Eu3+ glass ceramic films: Synthesis, structural and spectroscopic studies. Materials Research Bulletin, 2014, 51, 418-425.	2.7	12
97	Atomic Structure Characterization of Au–Pd Bimetallic Nanoparticles by Aberration-Corrected Scanning Transmission Electron Microscopy. Journal of Physical Chemistry C, 2014, 118, 22383-22388.	1.5	12
98	Effects of interface trap density on the electrical performance of amorphous InSnZnO thin-film transistor. Journal of Semiconductors, 2015, 36, 024007.	2.0	12
99	Optimization of Cu(In, Ga)Se2 (CIGSe) thin film solar cells parameters through numerical simulation and experimental study. Solar Energy, 2021, 224, 298-308.	2.9	12
100	Theoretical and Experimental analysis of ZnPc for its local ordering and electronic structure. Applied Physics A: Materials Science and Processing, 2004, 79, 1913-1918.	1.1	11
101	Characterization of Zinc-phthalocyanine–CdS composite thin films for photovoltaic applications. Vacuum, 2010, 84, 1212-1215.	1.6	11
102	Study of Low Resistivity and High Work Function ITO Films Prepared by Oxygen Flow Rates and N ₂ O Plasma Treatment for Amorphous/Crystalline Silicon Heterojunction Solar Cells. Journal of Nanoscience and Nanotechnology, 2014, 14, 9237-9241.	0.9	11
103	Synthesis of Culn <i>_{1-x}</i> Ga <i>_x</i> Se ₂ Nanoparticles by Thermal Decomposition Method with Tunable Ga Content. Journal of Nanoscience and Nanotechnology, 2015, 15, 8388-8394.	0.9	11
104	Water-dispersible magnetite nanoparticles as T 2 MR imaging contrast agent. Biomedical Physics and Engineering Express, 2017, 3, 015011.	0.6	11
105	Preparation and characterization of Cu ₂ ZnSnSe ₄ and Cu ₂ ZnSn(S,Se) ₄ powders by ball milling process for solar cells application. Materials Research Express, 2017, 4, 125501.	0.8	11
106	Engineered $Zr/Zn/Ti$ oxide nanocomposite coatings for multifunctionality. Applied Surface Science, 2021, 563, 150353.	3.1	11
107	Characterization of electrodeposited Zn1â^'xHgxSe thin films. Semiconductor Science and Technology, 2005, 20, 749-754.	1.0	10
108	Characterization on pulsed laser deposited nanocrystalline ZnO thin films. Vacuum, 2010, 84, 1199-1203.	1.6	10

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109	PLASMON RESONANCE AND RAMAN MODES IN Pb NANOPARTICLES OBTAINED IN EXTRACT OF <i>OPUNTIA FICUS-INDICA</i> PLANT. Nano, 2014, 09, 1450070.	0.5	10
110	Synthesis of ZnO nanorods using different precursor solutions and their two terminal device characterization. Journal of Materials Science: Materials in Electronics, 2015, 26, 5724-5734.	1.1	10
111	Structural and photoelectrical characterization of hot wall deposited CulnSe2 thin films and the fabrication of CulnSe2 based solar cells. Materials Characterization, 2007, 58, 701-707.	1.9	9
112	Electrosynthesis and studies on Cadmium-Iron-Sulphide thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 174, 231-235.	1.7	9
113	One-dimensional ordered growth of magneto-crystalline and biocompatible cobalt ferrite nano-needles. Materials Letters, 2014, 135, 67-70.	1.3	9
114	Light scattering effect of ITO:Zr/AZO films deposited on periodic textured glass surface morphologies for silicon thin film solar cells. Applied Physics A: Materials Science and Processing, 2015, 120, 823-828.	1.1	9
115	Light trapping by hydrothermally deposited zinc oxide nanostructures with high haze ratio. Materials Science in Semiconductor Processing, 2015, 37, 51-56.	1.9	9
116	Boosting the mobility and bias stability of oxide-based thin-film transistors with ultra-thin nanocrystalline InSnO:Zr layer. Applied Physics Letters, 2015, 106, 033501.	1.5	9
117	Electronic structure and optical properties of SnO2:F from PBEO hybrid functional calculations. Journal of Materials Science: Materials in Electronics, 2018, 29, 15423-15435.	1.1	9
118	Time-dependent evolution pathway of CIGSe nanocrystals by low-temperature process. Advanced Powder Technology, 2019, 30, 2980-2988.	2.0	9
119	Comparative study of optimised molybdenum back-contact deposition with different barriers (Ti, ZnO) on stainless steel substrate for flexible solar cell application. Journal of Materials Science: Materials in Electronics, 2020, 31, 7524-7538.	1.1	9
120	Review on the effects due to alkali metals on copper–indium–gallium–selenide solar cells. Materials Today Energy, 2021, 20, 100617.	2.5	9
121	Thickness dependent properties of hot wall deposited CdSe films. Journal of Materials Science Letters, 2003, 22, 25-28.	0.5	8
122	Dielectric and conduction studies on hot-wall deposited CdSe films. Solar Energy Materials and Solar Cells, 2004, 81, 323-338.	3.0	8
123	Electrical conduction in zinc phosphide thin films. Materials Characterization, 2007, 58, 730-734.	1.9	8
124	Effect of pH on Composition, Structure and Magnetic Properties of Electrodeposited Co-Ni Alloys. Advanced Materials Research, 2009, 68, 52-59.	0.3	8
125	Effect of the Milling Time of the Precursors on the Physical Properties of Sprayed Aluminum-Doped Zinc Oxide (ZnO:Al) Thin Films. Materials, 2012, 5, 1404-1412.	1.3	8
126	Synthesis and optical properties of BaTiO3:Eu3+@SiO2 glass ceramic nano particles. Journal of Sol-Gel Science and Technology, 2014, 72, 435-442.	1.1	8

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127	Influence of defect luminescence and structural modification on the electrical properties of Magnesium Doped Zinc Oxide Nanorods. Superlattices and Microstructures, 2017, 106, 58-66.	1.4	8
128	Design and evaluation of surface functionalized superparamagneto-plasmonic nanoparticles for cancer therapeutics. International Journal of Pharmaceutics, 2017, 524, 16-29.	2.6	8
129	Electrical, structural, and topographical properties of direct current (DC) sputtered bilayer molybdenum thin films. Journal of Materials Science: Materials in Electronics, 2018, 29, 15671-15681.	1.1	8
130	Telescoping synthesis and goldilocks of CZTS nanocrystals. Materials Research Bulletin, 2019, 111, 342-349.	2.7	8
131	Impact of selenization temperature on the performance of sequentially evaporated CuInSe2 thin film solar cells. Materials Science in Semiconductor Processing, 2022, 137, 106215.	1.9	8
132	Electrochemical Deposition and Characterization of Cd-Fe-Se Thin Films. Advanced Materials Research, 0, 68, 69-76.	0.3	7
133	Structural and electrochemical characterization of sputter-deposited nitrided NiCr alloys. Journal of Solid State Electrochemistry, 2005, 9, 535-546.	1.2	6
134	Electrodeposition and characterization of HgSe thin films. Materials Characterization, 2007, 58, 735-739.	1.9	6
135	Cytotoxicity of semiconductor nanoparticles in A549 cells is attributable to their intrinsic oxidant activity. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	6
136	Gold-Iron oxide yolk-shell nanoparticles (YSNPs) as magnetic probe for fluorescence-based detection of 3 base mismatch DNA. Colloids and Surfaces B: Biointerfaces, 2019, 176, 431-438.	2.5	6
137	Selective laser sintering of metallic oxide powder mixtures for bi/tri-metallic-oxide formation. Materials Letters, 2021, 286, 129215.	1.3	6
138	Photoluminescence and persistent photoconductivity of AlxGa1-xN/GaN heterostructures. Applied Physics A: Materials Science and Processing, 2007, 86, 521-524.	1.1	5
139	An (ITO or AZO)/ZnO/Cu(In <inf>1−x</inf> Ga <inf>x</inf>)Se <inf>2</inf> superstrate thin film solar cell structure prepared by spray pyrolysis. , 2011, , .		5
140	Structural and optical properties of molybdenum doped bismuth vanadate powders., 2014,,.		5
141	Structural, morphological and optical properties of sol-gel prepared Cu doped BiVO4 powders. , 2015, , .		5
142	Inorganic nanoflotillas as engineered particles for drug and gene delivery., 2016,, 429-483.		5
143	Unveiling the impact of Cu content on the physical properties and photovoltaic performance of solutionâ€processed Cu(ln,Ga)Se ₂ solar cell absorber. International Journal of Energy Research, 2021, 45, 6966-6984.	2.2	5
144	Efficient 2T CsKPb(IBr)3—Tin Incorporated Narrow Bandgap Perovskite Tandem Solar Cells: A Numerical Study with Current Matching Conditions. Advanced Theory and Simulations, 2021, 4, 2100121.	1.3	5

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145	Spectroscopic ellipsometry (SE) studies on vacuum-evaporated ZnSe thin films. Materials Characterization, 2007, 58, 715-720.	1.9	4
146	Electrical, optical, and topographical properties of RF magnetron sputtered aluminum-doped zinc oxide (AZO) thin films complemented by first-principles calculations. Journal of Materials Science: Materials in Electronics, 2018, 29, 15383-15395.	1.1	4
147	Selenization of CIS and CIGS layers deposited by chemical spray pyrolysis. Journal of Materials Science: Materials in Electronics, 2018, 29, 15369-15375.	1.1	4
148	Cu, Mo-doped and pristine-BiVO4 thin films prepared by rf sputtering process for photocatalytic applications. Journal of Materials Science: Materials in Electronics, 2018, 29, 15770-15775.	1.1	4
149	Effects of changes on temperature and fluorine concentration in the structural, optical and electrical properties of SnO2:F thin films. Journal of Materials Science: Materials in Electronics, 2019, 30, 15563-15581.	1.1	4
150	Numerical Optimization of Materials Properties for High-Efficiency CISe Thin Film Solar Cells Using SCAPS-1D Simulator. , 2021, , .		4
151	Space charge limited current conduction in Bi2Te3 thin films. Materials Characterization, 2007, 58, 842-846.	1.9	3
152	Effect of thickness on the structural, optical and electrical properties of MW-CBD CdZnS thin films. , 2009, , .		3
153	Structural and Optical Studies of Hot Wall Vacuum Evaporated CdTeSn Thin Films. Advanced Materials Research, 0, 68, 77-83.	0.3	3
154	Microstructural Characterization of Electro-Deposited CdSe Thin Films. Advanced Materials Research, 0, 68, 44-51.	0.3	3
155	Deposition and characterization of ZnO:Al thin films by ultrasonic spray pyrolysis. , 2009, , .		3
156	Properties of CulnGaSe thin films prepared by chemical spray pyrolysis. , 2010, , .		3
157	CO adsorption in PdxCoyXz (X = Au, Mo, Ni) tertiary alloy nanocatalysts for PEM fuel cells-a theoretical analysis. International Journal of Energy Research, 2011, 35, 594-600.	2.2	3
158	Structural, Morphological, Topographical, and Electrical Properties of Selenized Stacked CIGSe Layers by Evaporation Technique. , 2018 , , .		3
159	Unraveling rapid one-pot synthesis of Cu(ln,Ga)Se2 microcrystal light absorber with tunable morphology and its influence on the solar cell performance. Materials Letters, 2022, 306, 130928.	1.3	3
160	Large Area (10 x10 cm $<$ sup $>$ 2 $<$ /sup $>$) Production of CdS Buffer Layer for Solar Cells by Chemical Bath Method. , 2020, , .		3
161	Numerical Study of the Recombination Profiles in CIGSe Thin Film Solar Cells Through Silvaco Atlas Simulator after using Experimental Parameters. , 2021, , .		3
162	Laser damage studies on hot-wall-deposited cadmium selenide films. Journal of Materials Science Letters, 1997, 16, 1974-1976.	0.5	2

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163	Synthesis and Characterization of NiCr Self-Assembled Nanorings. Journal of Nano Research, 2010, 9, 101-108.	0.8	2
164	Characterizations of a Selenized Cu(In <inf>1-x</inf> Ga <inf>x</inf>)Se <inf>2</inf> Thin Film Absorber Layer Fabricated By a Three-Stage Hybrid Method. , 2018, , .		2
165	Statistical experimental design to optimize RF-sputtered NiTiO3 thin films. Journal of Materials Science: Materials in Electronics, 2020, 31, 7434-7444.	1.1	2
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