

# Md. Akhtaruzzaman

## List of Publications by Year in descending order

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173  
papers

4,160  
citations

101384

36  
h-index

155451

55  
g-index

173  
all docs

173  
docs citations

173  
times ranked

4358  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning the bandgap of Cd <sub>1-x</sub> Zn <sub>x</sub> S (x = 0–1) buffer layer and CIGS absorber layer for obtaining high efficiency. Superlattices and Microstructures, 2022, 161, 107100.	1.4	14
2	Reproducible perovskite solar cells using a simple solvent-mediated sol-gel synthesized NiO hole transport layer. Applied Physics Express, 2022, 15, 015504.	1.1	6
3	Effect of CuCl <sub>2</sub> treatment on RF magnetron-sputtered CdSe thin films for potential photovoltaic usage. Japanese Journal of Applied Physics, 2022, 61, 065504.	0.8	2
4	Green Synthesis of Lead Sulphide Nanoparticles for High-Efficiency Perovskite Solar Cell Applications. Nanomaterials, 2022, 12, 1933.	1.9	12
5	Impedance analysis of charge transfer upon nickel doping in TiO <sub>2</sub> -based flexible dye-sensitized solar cell. Polymer Bulletin, 2021, 78, 5755-5768.	1.7	7
6	Energy use efficiency and cost-benefits analysis of rice cultivation: A study on conventional and alternative methods in Myanmar. Energy, 2021, 214, 119104.	4.5	19
7	Current trends and prospects of tidal energy technology. Environment, Development and Sustainability, 2021, 23, 8179-8194.	2.7	95
8	Biosynthesis of NiO Nanoparticles Using Soursop (Annona muricata L.) Fruit Peel Green Waste and Their Photocatalytic Performance on Crystal Violet Dye. Journal of Cluster Science, 2021, 32, 949-958.	1.7	20
9	Developing of Chemically Treated Waste Biomass Adsorbent for Dye Removal. Journal of Natural Fibers, 2021, 18, 968-977.	1.7	12
10	Energetic and exergetic investigation of a mixed flow dryer: A case study of maize grain drying. Drying Technology, 2021, 39, 466-480.	1.7	22
11	PROSPECT OF AEROGELS AS DESICCANT MATERIALS: POSSIBILITIES AND CHALLENGES. Journal of Porous Media, 2021, 24, 49-56.	1.0	3
12	Spray Pyrolyzed TiO <sub>2</sub> Embedded Multi-Layer Front Contact Design for High-Efficiency Perovskite Solar Cells. Nano-Micro Letters, 2021, 13, 36.	14.4	50
13	Recovery of FTO coated glass substrate via environment-friendly facile recycling perovskite solar cells. RSC Advances, 2021, 11, 14534-14541.	1.7	27
14	Effect of Cd <sup>2+</sup> Molar Concentration in Cd <sub>x</sub> Zn <sub>(1-x)</sub> S Thin Film by Chemical Bath Deposition Technique Using Alternative Sulfur Precursor. ECS Journal of Solid State Science and Technology, 2021, 10, 025009.	0.9	7
15	The viability of alternative and nontoxic chlorine containing compounds for thermal treatment of ultrathin CdTe (100 nm) films. International Journal of Energy Research, 2021, 45, 13771-13785.	2.2	3
16	Diluted chemical bath deposition of CdZnS as prospective buffer layer in CIGS solar cell. Ceramics International, 2021, 47, 11003-11009.	2.3	28
17	Ionic liquid infused starch-cellulose derivative based quasi-solid dye-sensitized solar cell: exploiting the rheological properties of natural polymers. Cellulose, 2021, 28, 5545.	2.4	9
18	Defect Study and Modelling of SnX <sub>3</sub> -Based Perovskite Solar Cells with SCAPS-1D. Nanomaterials, 2021, 11, 1218.	1.9	81

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19	Organosoluble, esterified starch as quasi-solid biopolymer electrolyte in dye-sensitized solar cell. Journal of Materials Research and Technology, 2021, 12, 1638-1648.	2.6	9
20	The benefits of ionic liquids for the fabrication of efficient and stable perovskite photovoltaics. Chemical Engineering Journal, 2021, 411, 128461.	6.6	70
21	New insights of phenolic compounds from optimized fruit extract of Ficus auriculata. Scientific Reports, 2021, 11, 12503.	1.6	5
22	Impact of Ar Flow Rates on Micro-Structural Properties of WS <sub>2</sub> Thin Film by RF Magnetron Sputtering. Nanomaterials, 2021, 11, 1635.	1.9	9
23	High-Aspect-Ratio Silicon Nanostructures on N-type Silicon Wafer Using Metal-Assisted Chemical Etching (MACE) Technique. , 2021, , .		0
24	Create High-Aspect-Ratio Silicon Nanostructures Using Metal-Assisted Chemical Etching (MACE) Technique. , 2021, , .		0
25	Effects of Texturing Silicon Wafer Surfaces Using Metal-Assisted Chemical Etching (MACE) Technique. , 2021, , .		0
26	Effects of oxygen concentration variation on the structural and optical properties of reactive sputtered WO <sub>x</sub> thin film. Solar Energy, 2021, 222, 202-211.	2.9	26
27	Efficiency enhancement of CIGS solar cell by cubic silicon carbide as prospective buffer layer. Solar Energy, 2021, 224, 271-278.	2.9	28
28	Improved Nanophotonic Front Contact Design for High-Performance Perovskite Single-Junction and Perovskite/Perovskite Tandem Solar Cells. Solar Rrl, 2021, 5, 2100509.	3.1	23
29	Performance analysis of tungsten disulfide (WS <sub>2</sub> ) as an alternative buffer layer for CdTe solar cell through numerical modeling. Optical Materials, 2021, 120, 111296.	1.7	24
30	Near field control for enhanced photovoltaic performance and photostability in perovskite solar cells. Nano Energy, 2021, 89, 106388.	8.2	25
31	Vacuum annealed Ga:ZnO (GZO) thin films for solar cell integrated transparent antenna application. Materials Letters, 2021, 304, 130551.	1.3	6
32	Low-temperature treated anatase TiO <sub>2</sub> nanophotonic-structured contact design for efficient triple-cation perovskite solar cells. Chemical Engineering Journal, 2021, 426, 131831.	6.6	22
33	Green Synthesis and Characterization of CuO Nanoparticles Derived from Papaya Peel Extract for the Photocatalytic Degradation of Palm Oil Mill Effluent (POME). Sustainability, 2021, 13, 796.	1.6	58
34	Muntingia calabura Leaves Mediated Green Synthesis of CuO Nanorods: Exploiting Phytochemicals for Unique Morphology. Materials, 2021, 14, 6379.	1.3	19
35	Enhancing spectral response towards high-performance dye-sensitised solar cells by multiple dye approach: A comprehensive review. Applied Materials Today, 2021, 25, 101204.	2.3	11
36	Transformation of Oil Palm Waste-Derived Cellulose into Solid Polymer Electrolytes: Investigating the Crucial Role of Plasticizers. Polymers, 2021, 13, 3685.	2.0	3

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37	Design and Modelling of Eco-Friendly CH <sub>3</sub> NH <sub>3</sub> SnI <sub>3</sub> -Based Perovskite Solar Cells with Suitable Transport Layers. <i>Energies</i> , 2021, 14, 7200.	1.6	25
38	Paste Aging Spontaneously Tunes TiO <sub>2</sub> Nanoparticles into Reproducible Electrospayed Photoelectrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 53758-53766.	4.0	3
39	Effect of Compression Pressure and Coal Binding on the Fuel Properties of Biomass Pellet. <i>Solid Fuel Chemistry</i> , 2021, 55, 429-438.	0.2	0
40	Degradation of Perovskite Thin Films and Solar Cells with Candle Soot C/Ag Electrode Exposed in a Control Ambient. <i>Nanomaterials</i> , 2021, 11, 3463.	1.9	7
41	Effect of Selective Lateral Chromium Doping by RF Magnetron Sputtering on the Structural, and Opto-Electrical Properties of Nickel Oxide. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11546.	1.3	7
42	Phytochemical-Assisted Green Synthesis of Nickel Oxide Nanoparticles for Application as Electrocatalysts in Oxygen Evolution Reaction. <i>Catalysts</i> , 2021, 11, 1523.	1.6	20
43	Innovative semitransparent photo-thermoelectric cells based on bismuth antimony telluride alloy. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152593.	2.8	12
44	An overview of solar photovoltaic panels' end-of-life material recycling. <i>Energy Strategy Reviews</i> , 2020, 27, 100431.	3.3	328
45	Resorcinol-Formaldehyde (RF) as a Novel Plasticizer for Starch-Based Solid Biopolymer Electrolyte. <i>Polymers</i> , 2020, 12, 2170.	2.0	10
46	Efficiency enhancement of CIGS solar cell by WS <sub>2</sub> as window layer through numerical modelling tool. <i>Solar Energy</i> , 2020, 207, 479-485.	2.9	61
47	Electrical and Optical Properties of Nickel Oxide Films for Efficient Perovskite Solar Cells. <i>Small Methods</i> , 2020, 4, 2000454.	4.6	37
48	An Investigation on Structural and Optical Properties of Zn <sub>1-x</sub> Mg <sub>x</sub> S Thin Films Deposited by RF Magnetron Co-Sputtering Technique. <i>Coatings</i> , 2020, 10, 766.	1.2	5
49	Metal Oxide Compact Electron Transport Layer Modification for Efficient and Stable Perovskite Solar Cells. <i>Materials</i> , 2020, 13, 2207.	1.3	42
50	Development of effective and sustainable adsorbent biomaterial from an agricultural waste material: Cu(II) removal. <i>Materials Chemistry and Physics</i> , 2020, 249, 123128.	2.0	31
51	Perceiving of Defect Tolerance in Perovskite Absorber Layer for Efficient Perovskite Solar Cell. <i>IEEE Access</i> , 2020, 8, 106346-106353.	2.6	38
52	Organosoluble Starch-Cellulose Binary Polymer Blend as a Quasi-Solid Electrolyte in a Dye-Sensitized Solar Cell. <i>Polymers</i> , 2020, 12, 516.	2.0	16
53	Effect of zinc doping on the optoelectronic properties of cadmium sulphide (CdS) thin films deposited by chemical bath deposition by utilising an alternative sulphur precursor. <i>Optik</i> , 2020, 218, 165197.	1.4	21
54	Influence of oxygen on structural and optoelectronic properties of CdS thin film deposited by magnetron sputtering technique. <i>Chinese Journal of Physics</i> , 2020, 67, 170-179.	2.0	25

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55	In vitro antioxidant activity of Ficus carica L. latex from 18 different cultivars. Scientific Reports, 2020, 10, 10852.	1.6	38
56	Organosoluble starch derivative as quasi-solid electrolytes in DSSC: Unravelling the synergy between electrolyte rheology and photovoltaic properties. Solar Energy, 2020, 197, 144-153.	2.9	20
57	WS2: A New Window Layer Material for Solar Cell Application. Scientific Reports, 2020, 10, 771.	1.6	67
58	Optoelectronic properties of electron beam-deposited NiOx thin films for solar cell application. Results in Physics, 2020, 17, 103122.	2.0	26
59	Investigation on the post-treatment after pulsed Nd:YAG laser texturing on silicon solar cells surfaces. , 2020, , .		4
60	Air-stable perovskite photovoltaic cells with low temperature deposited NiOx as an efficient hole-transporting material. Optical Materials Express, 2020, 10, 1801.	1.6	19
61	Reducing Reflectance on Silicon Solar Cells Surfaces by Controlling X-Y Translation Table Speeds of Pulsed Nd:YAG Laser System. , 2020, , .		1
62	Salsa20 based lightweight security scheme for smart meter communication in smart grid. Telkomnika (Telecommunication Computing Electronics and Control), 2020, 18, 228.	0.6	3
63	Physical and electrical properties of molybdenum thin films grown by DC magnetron sputtering for photovoltaic application. Results in Physics, 2019, 14, 102515.	2.0	32
64	High mobility and transparent ZTO ETM prepared by RF reactive co-sputtering for perovskite solar cell application. Results in Physics, 2019, 14, 102518.	2.0	22
65	Synthesis of new simple hole-transport materials bearing benzodithiazole based core for perovskite solar cells. Solar Energy, 2019, 194, 431-435.	2.9	5
66	Biomass and Industrial Wastes as Resource Materials for Aerogel Preparation: Opportunities, Challenges, and Research Directions. Industrial & Engineering Chemistry Research, 2019, 58, 17621-17645.	1.8	56
67	Stable perovskite based photodetector in impedance and capacitance mode. Results in Physics, 2019, 15, 102699.	2.0	11
68	Effects of growth temperature on the photovoltaic properties of RF sputtered undoped NiO thin films. Results in Physics, 2019, 14, 102360.	2.0	51
69	Influence of deposition time in CdTe thin film properties grown by Close-Spaced Sublimation (CSS) for photovoltaic application. Results in Physics, 2019, 14, 102371.	2.0	38
70	An investigation on titanium doping in reduced graphene oxide by RF magnetron sputtering for dye-sensitized solar cells. Solar Energy, 2019, 188, 10-18.	2.9	13
71	Evolution of Pb-Free and Partially Pb-Substituted Perovskite Absorbers for Efficient Perovskite Solar Cells. Electronic Materials Letters, 2019, 15, 525-546.	1.0	12
72	Laser Direct Writing of Microstructure on Graphene Oxide/Metal Oxide Hybrid Film. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2019, 32, 223-226.	0.1	1

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73	Investigating the Impact of Deposition Power on PVD Growth WS <sub>2</sub> for Solar Cell Application. , 2019, , .		0
74	Koch Fractal Loop Circular Polarization (CP) Antenna Integrated with Solar Cells. , 2019, , .		5
75	Integration of NiO Layer as Hole Transport Material in Perovskite Solar Cells. , 2019, , .		0
76	Airborne particles in the city center of Kuala Lumpur: Origin, potential driving factors, and deposition flux in human respiratory airways. <i>Science of the Total Environment</i> , 2019, 650, 1195-1206.	3.9	26
77	Emerging sustainable solutions for depollution: Geopolymers. <i>Construction and Building Materials</i> , 2019, 199, 540-548.	3.2	88
78	A comprehensive defect study of tungsten disulfide (WS <sub>2</sub> ) as electron transport layer in perovskite solar cells by numerical simulation. <i>Results in Physics</i> , 2019, 12, 1097-1103.	2.0	90
79	Effect of defect density and energy level mismatch on the performance of perovskite solar cells by numerical simulation. <i>Optik</i> , 2019, 182, 1204-1210.	1.4	82
80	Elucidating the role of interfacial MoS <sub>2</sub> layer in Cu <sub>2</sub> ZnSnS <sub>4</sub> thin film solar cells by numerical analysis. <i>Solar Energy</i> , 2019, 178, 162-172.	2.9	64
81	Fabrication of Cu <sub>2</sub> SnS <sub>3</sub> thin film solar cells by sulphurization of sequentially sputtered Sn/CuSn metallic stacked precursors. <i>Solar Energy</i> , 2019, 177, 262-273.	2.9	24
82	Implementation of a novel home energy management system (HEMS) architecture with solar photovoltaic system as supplementary source. <i>Renewable Energy</i> , 2018, 125, 108-120.	4.3	85
83	Prospects of Ternary Cd <sup>1-x</sup> Zn <sup>x</sup> S as an Electron Transport Layer and Associated Interface Defects in a Planar Lead Halide Perovskite Solar Cell via Numerical Simulation. <i>Journal of Electronic Materials</i> , 2018, 47, 3051-3058.	1.0	13
84	Local and transboundary factors' impacts on trace gases and aerosol during haze episode in 2015 El Niño in Malaysia. <i>Science of the Total Environment</i> , 2018, 630, 1502-1514.	3.9	28
85	Nanostructured NiOx as hole transport material for low temperature processed stable perovskite solar cells. <i>Materials Letters</i> , 2018, 223, 109-111.	1.3	20
86	A low cost and single source atmospheric pressure vapor phase epitaxy of ZnS for thin film photovoltaic applications. <i>Materials Letters</i> , 2018, 221, 216-219.	1.3	10
87	An overview on prospects of new generation single-phase transformerless inverters for grid-connected photovoltaic (PV) systems. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 515-530.	8.2	44
88	Panchromatic absorption of dye sensitized solar cells by co-Sensitization of triple organic dyes. <i>Sustainable Energy and Fuels</i> , 2018, 2, 209-214.	2.5	31
89	Fabrication techniques and morphological analysis of perovskite absorber layer for high-efficiency perovskite solar cell: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 98, 469-488.	8.2	46
90	Benzodithiazole-Based Hole-Transporting Material for Efficient Perovskite Solar Cells. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 2497-2503.	1.3	8

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91	Growth optimization of $Zn_xCd_{1-x}S$ films on ITO and FTO coated glass for alternative buffer application in CdTe thin film solar cells. <i>Optical Materials</i> , 2018, 86, 270-277.	1.7	29
92	Deposition and characterization of RF-sputtered-Ta <sub>2</sub> O <sub>5</sub> thin films for O <sub>2</sub> reduction reaction in polymer electrolyte membrane fuel cells (PEMFC). <i>Optik</i> , 2018, 170, 295-303.	1.4	5
93	Properties of sputtered ZnS thin films for photovoltaic application. <i>Materials Research Express</i> , 2018, 5, 096409.	0.8	17
94	Synthesis of sphere-like-crystal CdS powder and thin films using chemical residue in chemical bath deposition (CBD) for thin film solar cell application. <i>Solar Energy</i> , 2018, 173, 120-125.	2.9	13
95	A comparative study on thermally and laser annealed copper and silver doped CdTe thin film solar cells. <i>Solar Energy</i> , 2018, 173, 1-6.	2.9	14
96	Low temperature processed inverted planar perovskite solar cells by r-GO/CuSCN hole-transport bilayer with improved stability. <i>Solar Energy</i> , 2018, 171, 652-657.	2.9	56
97	Effect of laser annealing on thermally evaporated CdTe thin films for photovoltaic absorber application. <i>Solar Energy</i> , 2018, 173, 1051-1057.	2.9	25
98	Interplay between variable direct current sputtering deposition process parameters and properties of ZnO:Ga thin films. <i>Thin Solid Films</i> , 2018, 660, 538-545.	0.8	13
99	Dependence of tissue inhomogeneity correction factors on photon-beam energy. <i>Nukleonika</i> , 2018, 63, 3-7.	0.3	1
100	A computational study on the energy bandgap engineering in performance enhancement of CdTe thin film solar cells. <i>Results in Physics</i> , 2017, 7, 1066-1072.	2.0	13
101	Design prospects of cadmium telluride/silicon (CdTe/Si) tandem solar cells from numerical simulation. <i>Optik</i> , 2017, 139, 397-406.	1.4	41
102	Quasi-inverse pendulum model of 12 DoF bipedal walking. <i>International Journal of Automation and Computing</i> , 2017, 14, 179-190.	4.5	2
103	An intelligent system architecture in home energy management systems (HEMS) for efficient demand response in smart grid. <i>Energy and Buildings</i> , 2017, 138, 154-164.	3.1	201
104	Fabrication of high efficiency sputtered CdS:O/CdTe thin film solar cells from window/absorber layer growth optimization in magnetron sputtering. <i>Solar Energy Materials and Solar Cells</i> , 2017, 172, 384-393.	3.0	47
105	Hole-Transport Materials Containing Triphenylamine Donors with a Spiro[fluorene-9,9'-xanthene] Core for Efficient and Stable Large Area Perovskite Solar Cells (Solar RRL 9 <sup>th</sup> 2017). <i>Solar Rrl</i> , 2017, 1, 1770134.	3.1	3
106	Effects of RF magnetron sputtering deposition process parameters on the properties of molybdenum thin films. <i>Thin Solid Films</i> , 2017, 638, 213-219.	0.8	52
107	Hole-Transport Materials Containing Triphenylamine Donors with a Spiro[fluorene-9,9'-xanthene] Core for Efficient and Stable Large Area Perovskite Solar Cells. <i>Solar Rrl</i> , 2017, 1, 1700096.	3.1	19
108	Surface morphological properties of $Cd_xZn_{(1-x)}S$ thin films deposited by low-cost atmospheric pressure metal organic chemical vapour deposition technique (AP-MOCVD). <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 271, 012063.	0.3	1

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109	Growth of MoO <sub>x</sub> nanobelts from molybdenum bi-layer thin films for thin film solar cell application. Thin Solid Films, 2017, 621, 240-246.	0.8	15
110	Voice command based Matlab GUI for microcontroller. , 2017, , .		0
111	Development of an experimental setup for analyzing the influence of Magnus effect on the performance of airfoil. AIP Conference Proceedings, 2017, , .	0.3	1
112	Compact planar UWB antenna with 3.5/5.8 GHz dual band-notched characteristics for IoT application. , 2017, , .		8
113	Solar Photovoltaic Technologies: From Inception Toward the Most Reliable Energy Resource. , 2017, , 11-26.		11
114	Roles of different fertilizer management practices on mulberry leaf yield and quality. International Journal of Agricultural and Biological Engineering, 2017, 10, 104-114.	0.3	1
115	Preparation and Characterization of Flexible Substrate Material from Phenyl-Thiophene-2-Carbaldehyde Compound. Materials, 2016, 9, 358.	1.3	11
116	Prospects of Graphene as a Potential Carrier-Transport Material in Third-Generation Solar Cells. Chemical Record, 2016, 16, 614-632.	2.9	14
117	Electromagnetic Performances Analysis of an Ultra-wideband and Flexible Material Antenna in Microwave Breast Imaging: To Implement A Wearable Medical Bra. Scientific Reports, 2016, 6, 38906.	1.6	65
118	GAIT ANALYSIS: SYSTEMS, TECHNOLOGIES, AND IMPORTANCE. Journal of Mechanics in Medicine and Biology, 2016, 16, 1630003.	0.3	49
119	Ge-rich SiGe thin film deposition by co-sputtering in in-situ and ex-situ solid phase crystallization for photovoltaic applications. Materials Science in Semiconductor Processing, 2016, 56, 160-165.	1.9	10
120	Enhanced Photovoltaic Performances of Dye-Sensitized Solar Cells by Co-Sensitization of Benzothiadiazole and Squaraine-Based Dyes. ACS Applied Materials & Interfaces, 2016, 8, 4616-4623.	4.0	61
121	Dye-sensitized solar cells: Sensitized with triple dyes in ultraviolet to near infrared. , 2016, , .		0
122	A REVIEW ON LOWER APPENDICULAR MUSCULOSKELETAL SYSTEM OF HUMAN BODY. IIUM Engineering Journal, 2016, 17, 83-102.	0.5	2
123	Investigation of the annealing time effects on Cu deposited CdTe thin films for photovoltaic application. , 2015, , .		0
124	Nanostructured and wide bandgap CdS:O thin films grown by reactive RF sputtering. AIP Conference Proceedings, 2015, , .	0.3	2
125	Structural and electrical characteristics of room temperature sputtered ZnO. , 2015, , .		0
126	An improved position based power aware routing algorithm in mobile ad-hoc networks. , 2015, , .		1



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127	High Quality CdS Thin Film Growth by Avoiding Anomalies in Chemical Bath Deposition for Large Area Thin Film Solar Cell Application. Journal of Nanoscience and Nanotechnology, 2015, 15, 9240-9245.	0.9	8
128	Synthesis and Performance of New Organic Dyes and Functional Fullerenes for Organic Solar Cells. ACS Symposium Series, 2015, , 193-236.	0.5	2
129	Effects of sulfurization temperature on Cu <sub>2</sub> ZnSnS <sub>4</sub> thin film deposited by single source thermal evaporation method. Japanese Journal of Applied Physics, 2015, 54, 08KC18.	0.8	19
130	Effect of Sn Doping on the Properties of Nano-Structured ZnO Thin Films Deposited by Co-Sputtering Technique. Journal of Nanoscience and Nanotechnology, 2015, 15, 9184-9191.	0.9	7
131	A Comprehensive Study on Mo/CdTe Metal-Semiconductor Interface Deposited by Radio Frequency Magnetron Sputtering. Journal of Nanoscience and Nanotechnology, 2015, 15, 9291-9297.	0.9	4
132	Tuning of spectral response by co-sensitization in black-dye based dye-sensitized solar cell. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 651-656.	0.8	14
133	Growth and characterization of RF-sputtered ZnS thin film deposited at various substrate temperatures for photovoltaic application. Applied Surface Science, 2015, 334, 138-144.	3.1	90
134	Annealing effect in structural and electrical properties of sputtered Mo thin film. Applied Surface Science, 2015, 334, 129-137.	3.1	41
135	Prospects of novel CdZnTe thin film solar cells from numerical analysis. , 2014, , .		2
136	Design optimization of CdTe thin film solar cells from numerical analysis. , 2014, , .		9
137	Thieno[2,3-a]carbazole-based donor-acceptor organic dyes for efficient dye-sensitized solar cells. Tetrahedron, 2014, 70, 6211-6216.	1.0	18
138	Simple indoline based donor-acceptor dye for high efficiency dye-sensitized solar cells. Materials Chemistry and Physics, 2013, 142, 82-86.	2.0	10
139	Theoretical Analysis on the Optoelectronic Properties of Single Crystals of Thiophene-furan-phenylene Co-Oligomers: Efficient Photoluminescence due to Molecular Bending. Journal of Physical Chemistry C, 2013, 117, 8072-8078.	1.5	30
140	Functional 2-benzyl-1,2-dihydro[60]fullerenes as acceptors for organic photovoltaics: facile synthesis and high photovoltaic performances. Tetrahedron, 2013, 69, 1302-1306.	1.0	12
141	Structure-property relationship of different electron donors: novel organic sensitizers based on fused dithienothiophene $\pi$ -conjugated linker for high efficiency dye-sensitized solar cells. Tetrahedron, 2013, 69, 3444-3450.	1.0	27
142	Single crystal biphenyl end-capped furan-incorporated oligomers: influence of unusual packing structure on carrier mobility and luminescence. Journal of Materials Chemistry C, 2013, 1, 4163.	2.7	73
143	Effect of substrate temperature on the growth of CZTS thin films by RF magnetron sputtering. , 2013, , .		0
144	Potential buffer layers for Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) solar cells from numerical analysis. , 2013, , .		6

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145	Multiwall Carbon Nanotube Coated with Conducting Polyaniline Nanocomposites for Quasi-Solid-State Dye-Sensitized Solar Cells. <i>Journal of Chemistry</i> , 2013, 2013, 1-5.	0.9	4
146	Improving the Spectral Response of Black Dye by Cosensitization with a Simple Indoline Based Dye in Dye-Sensitized Solar Cell. <i>Journal of Chemistry</i> , 2013, 2013, 1-5.	0.9	10
147	Functional Dyes. <i>Journal of Chemistry</i> , 2013, 2013, 1-2.	0.9	0
148	A Qualitative Approach to Mobile Robot Navigation Using RFID. <i>IOP Conference Series: Materials Science and Engineering</i> , 2013, 53, 012064.	0.3	4
149	Structure-property relationship of naphthalene based donor-acceptor organic dyes for dye-sensitized solar cells: remarkable improvement of open-circuit photovoltage. <i>Journal of Materials Chemistry</i> , 2012, 22, 22550.	6.7	39
150	Donor-acceptor dyes incorporating a stable dibenzosilole $\pi$ -conjugated spacer for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 10771.	6.7	45
151	Cascade cyclization of aryldiynes using iodine: synthesis of iodo-substituted benzo[b]naphtho[2,1-d]thiophene derivatives for dye-sensitized solar cells. <i>Tetrahedron Letters</i> , 2012, 53, 1946-1950.	0.7	36
152	A novel metal-free panchromatic TiO <sub>2</sub> sensitizer based on a phenylenevinylene-conjugated unit and an indoline derivative for highly efficient dye-sensitized solar cells. <i>Chemical Communications</i> , 2011, 47, 12400.	2.2	64
153	Evolution of Humanoid Robot and contribution of various countries in advancing the research and development of the platform. , 2010, , .		17
154	Study on Stability of Pentacene-Based Metal-Oxide Semiconductor Diodes in Air Using Capacitance-Voltage Characteristics. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 04C178.	0.8	4
155	Modeling and Control of a Multi Degree of Freedom Flexible Joint Manipulator. , 2009, , .		6
156	Mathematical and Geometrical Analysis and Representation of North Indian Musical Rhythms Based on Multi Polygonal Model. , 2009, , .		0
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