

# 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	An overview of solar photovoltaic panels's end-of-life material recycling. <i>Energy Strategy Reviews</i> , 2020, 27, 100431.	3.3	328
2	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
3	Current trends and prospects of tidal energy technology. <i>Environment, Development and Sustainability</i> , 2021, 23, 8179-8194.	2.7	95
4	Growth and characterization of RF-sputtered ZnS thin film deposited at various substrate temperatures for photovoltaic application. <i>Applied Surface Science</i> , 2015, 334, 138-144.	3.1	90
5	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
6	Emerging sustainable solutions for depollution: Geopolymers. <i>Construction and Building Materials</i> , 2019, 199, 540-548.	3.2	88
7	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
8	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
9	Defect Study and Modelling of SnX <sub>3</sub> -Based Perovskite Solar Cells with SCAPS-1D. <i>Nanomaterials</i> , 2021, 11, 1218.	1.9	81
10	Single crystal biphenyl end-capped furan-incorporated oligomers: influence of unusual packing structure on carrier mobility and luminescence. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4163.	2.7	73
11	The benefits of ionic liquids for the fabrication of efficient and stable perovskite photovoltaics. <i>Chemical Engineering Journal</i> , 2021, 411, 128461.	6.6	70
12	WS <sub>2</sub> : A New Window Layer Material for Solar Cell Application. <i>Scientific Reports</i> , 2020, 10, 771.	1.6	67
13	Electromagnetic Performances Analysis of an Ultra-wideband and Flexible Material Antenna in Microwave Breast Imaging: To Implement A Wearable Medical Bra. <i>Scientific Reports</i> , 2016, 6, 38906.	1.6	65
14	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
15	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
16	Enhanced Photovoltaic Performances of Dye-Sensitized Solar Cells by Co-Sensitization of Benzothiadiazole and Squaraine-Based Dyes. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 4616-4623.	4.0	61
17	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
18	Green Synthesis and Characterization of CuO Nanoparticles Derived from Papaya Peel Extract for the Photocatalytic Degradation of Palm Oil Mill Effluent (POME). <i>Sustainability</i> , 2021, 13, 796.	1.6	58

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19	Synthesis and Characterization of Novel Dipyridylbenzothiadiazole and Bisbenzothiadiazole Derivatives. <i>Journal of Organic Chemistry</i> , 2004, 69, 2953-2958.	1.7	56
20	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
21	Biomass and Industrial Wastes as Resource Materials for Aerogel Preparation: Opportunities, Challenges, and Research Directions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 17621-17645.	1.8	56
22	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
23	Effects of growth temperature on the photovoltaic properties of RF sputtered undoped NiO thin films. <i>Results in Physics</i> , 2019, 14, 102360.	2.0	51
24	Synthesis, characterization and FET properties of novel dithiazolylbenzothiadiazole derivatives. <i>Chemical Communications</i> , 2005, , 3183.	2.2	50
25	Spray Pyrolyzed TiO <sub>2</sub> Embedded Multi-Layer Front Contact Design for High-Efficiency Perovskite Solar Cells. <i>Nano-Micro Letters</i> , 2021, 13, 36.	14.4	50
26	GAIT ANALYSIS: SYSTEMS, TECHNOLOGIES, AND IMPORTANCE. <i>Journal of Mechanics in Medicine and Biology</i> , 2016, 16, 1630003.	0.3	49
27	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
28	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
29	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
30	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
31	Synthesis and Characterization of New Linear $\pi$ -Conjugated Molecules Containing Bis(ethynylpyridine) Units with a Benzothiadiazole Spacer. <i>Journal of Organic Chemistry</i> , 2002, 67, 7813-7818.	1.7	43
32	Metal Oxide Compact Electron Transport Layer Modification for Efficient and Stable Perovskite Solar Cells. <i>Materials</i> , 2020, 13, 2207.	1.3	42
33	Annealing effect in structural and electrical properties of sputtered Mo thin film. <i>Applied Surface Science</i> , 2015, 334, 129-137.	3.1	41
34	Design prospects of cadmium telluride/silicon (CdTe/Si) tandem solar cells from numerical simulation. <i>Optik</i> , 2017, 139, 397-406.	1.4	41
35	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
36	Influence of deposition time in CdTe thin film properties grown by Close-Spaced Sublimation (CSS) for photovoltaic application. <i>Results in Physics</i> , 2019, 14, 102371.	2.0	38

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37	Perceiving of Defect Tolerance in Perovskite Absorber Layer for Efficient Perovskite Solar Cell. IEEE Access, 2020, 8, 106346-106353.	2.6	38
38	In vitro antioxidant activity of Ficus carica L. latex from 18 different cultivars. Scientific Reports, 2020, 10, 10852.	1.6	38
39	Electrical and Optical Properties of Nickel Oxide Films for Efficient Perovskite Solar Cells. Small Methods, 2020, 4, 2000454.	4.6	37
40	Cascade cyclization of aryldiynes using iodine: synthesis of iodo-substituted benzo[b]naphtho[2,1-d]thiophene derivatives for dye-sensitized solar cells. Tetrahedron Letters, 2012, 53, 1946-1950.	0.7	36
41	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
42	Panchromatic absorption of dye sensitized solar cells by co-Sensitization of triple organic dyes. Sustainable Energy and Fuels, 2018, 2, 209-214.	2.5	31
43	Development of effective and sustainable adsorbent biomaterial from an agricultural waste material: Cu(II) removal. Materials Chemistry and Physics, 2020, 249, 123128.	2.0	31
44	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
45	Growth optimization of ZnxCd1-xS films on ITO and FTO coated glass for alternative buffer application in CdTe thin film solar cells. Optical Materials, 2018, 86, 270-277.	1.7	29
46	Local and transboundary factors' impacts on trace gases and aerosol during haze episode in 2015 El Niño in Malaysia. Science of the Total Environment, 2018, 630, 1502-1514.	3.9	28
47	Diluted chemical bath deposition of CdZnS as prospective buffer layer in CIGS solar cell. Ceramics International, 2021, 47, 11003-11009.	2.3	28
48	Efficiency enhancement of CIGS solar cell by cubic silicon carbide as prospective buffer layer. Solar Energy, 2021, 224, 271-278.	2.9	28
49	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
50	Recovery of FTO coated glass substrate <i>via</i> environment-friendly facile recycling perovskite solar cells. RSC Advances, 2021, 11, 14534-14541.	1.7	27
51	Airborne particles in the city center of Kuala Lumpur: Origin, potential driving factors, and deposition flux in human respiratory airways. Science of the Total Environment, 2019, 650, 1195-1206.	3.9	26
52	Optoelectronic properties of electron beam-deposited NiOx thin films for solar cell application. Results in Physics, 2020, 17, 103122.	2.0	26
53	Effects of oxygen concentration variation on the structural and optical properties of reactive sputtered WOx thin film. Solar Energy, 2021, 222, 202-211.	2.9	26
54	Effect of laser annealing on thermally evaporated CdTe thin films for photovoltaic absorber application. Solar Energy, 2018, 173, 1051-1057.	2.9	25

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55	Influence of oxygen on structural and optoelectronic properties of CdS thin film deposited by magnetron sputtering technique. Chinese Journal of Physics, 2020, 67, 170-179.	2.0	25
56	Near field control for enhanced photovoltaic performance and photostability in perovskite solar cells. Nano Energy, 2021, 89, 106388.	8.2	25
57	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. Energies, 2021, 14, 7200.	1.6	25
58	Fabrication of Cu <sub>2</sub> SnS <sub>3</sub> thin film solar cells by sulphurization of sequentially sputtered Sn/CuSn metallic stacked precursors. Solar Energy, 2019, 177, 262-273.	2.9	24
59	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
60	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
61	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
62	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
63	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
64	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. Optik, 2020, 218, 165197.	1.4	21
65	Nanostructured NiOx as hole transport material for low temperature processed stable perovskite solar cells. Materials Letters, 2018, 223, 109-111.	1.3	20
66	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
67	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
68	Phytochemical-Assisted Green Synthesis of Nickel Oxide Nanoparticles for Application as Electrocatalysts in Oxygen Evolution Reaction. Catalysts, 2021, 11, 1523.	1.6	20
69	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
70	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, 2017, 1, 1700096.	3.1	19
71	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
72	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

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73	Muntingia calabura Leaves Mediated Green Synthesis of CuO Nanorods: Exploiting Phytochemicals for Unique Morphology. <i>Materials</i> , 2021, 14, 6379.	1.3	19
74	Thieno[2,3-a]carbazole-based donor-acceptor organic dyes for efficient dye-sensitized solar cells. <i>Tetrahedron</i> , 2014, 70, 6211-6216.	1.0	18
75	Synthesis, characterization and electroluminescence properties of new iridium complexes based on cyclic phenylvinylpyridine derivatives: tuning of emission colour and efficiency by structural control. <i>Journal of Materials Chemistry</i> , 2007, 17, 841-849.	6.7	17
76	Evolution of Humanoid Robot and contribution of various countries in advancing the research and development of the platform. , 2010, , .		17
77	Properties of sputtered ZnS thin films for photovoltaic application. <i>Materials Research Express</i> , 2018, 5, 096409.	0.8	17
78	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
79	Growth of MoO <sub>x</sub> nanobelts from molybdenum bi-layer thin films for thin film solar cell application. <i>Thin Solid Films</i> , 2017, 621, 240-246.	0.8	15
80	Tuning of spectral response by co-sensitization in black-dye based dye-sensitized solar cell. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 651-656.	0.8	14
81	Prospects of Graphene as a Potential Carrier-Transport Material in Third-Generation Solar Cells. <i>Chemical Record</i> , 2016, 16, 614-632.	2.9	14
82	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
83	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. <i>Superlattices and Microstructures</i> , 2022, 161, 107100.	1.4	14
84	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
85	Prospects of Ternary Cd <sub>1-x</sub> Zn <sub>x</sub> 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
86	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
87	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
88	An investigation on titanium doping in reduced graphene oxide by RF magnetron sputtering for dye-sensitized solar cells. <i>Solar Energy</i> , 2019, 188, 10-18.	2.9	13
89	Organic/inorganic supramolecular channel frameworks containing a photosensitive azobenzene molecule as an included guest. <i>Chemical Communications</i> , 2002, , 2322-2323.	2.2	12
90	Functional 2-benzyl-1,2-dihydro[60]fullerenes as acceptors for organic photovoltaics: facile synthesis and high photovoltaic performances. <i>Tetrahedron</i> , 2013, 69, 1302-1306.	1.0	12

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91	Evolution of Pb-Free and Partially Pb-Substituted Perovskite Absorbers for Efficient Perovskite Solar Cells. <i>Electronic Materials Letters</i> , 2019, 15, 525-546.	1.0	12
92	Innovative semitransparent photo-thermoelectric cells based on bismuth antimony telluride alloy. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152593.	2.8	12
93	Developing of Chemically Treated Waste Biomass Adsorbent for Dye Removal. <i>Journal of Natural Fibers</i> , 2021, 18, 968-977.	1.7	12
94	Green Synthesis of Lead Sulphide Nanoparticles for High-Efficiency Perovskite Solar Cell Applications. <i>Nanomaterials</i> , 2022, 12, 1933.	1.9	12
95	Preparation and Characterization of Flexible Substrate Material from Phenyl-Thiophene-2-Carbaldehyde Compound. <i>Materials</i> , 2016, 9, 358.	1.3	11
96	Solar Photovoltaic Technologies: From Inception Toward the Most Reliable Energy Resource. , 2017, , 11-26.		11
97	Stable perovskite based photodetector in impedance and capacitance mode. <i>Results in Physics</i> , 2019, 15, 102699.	2.0	11
98	Enhancing spectral response towards high-performance dye-sensitized solar cells by multiple dye approach: A comprehensive review. <i>Applied Materials Today</i> , 2021, 25, 101204.	2.3	11
99	Simple indoline based donor-acceptor dye for high efficiency dye-sensitized solar cells. <i>Materials Chemistry and Physics</i> , 2013, 142, 82-86.	2.0	10
100	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
101	Ge-rich SiGe thin film deposition by co-sputtering in in-situ and ex-situ solid phase crystallization for photovoltaic applications. <i>Materials Science in Semiconductor Processing</i> , 2016, 56, 160-165.	1.9	10
102	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
103	Resorcinol-Formaldehyde (RF) as a Novel Plasticizer for Starch-Based Solid Biopolymer Electrolyte. <i>Polymers</i> , 2020, 12, 2170.	2.0	10
104	Linear molecules with ethynylpyridine and bisbenzothiadiazole units. <i>Synthetic Metals</i> , 2003, 137, 873-874.	2.1	9
105	Design optimization of CdTe thin film solar cells from numerical analysis. , 2014, , .		9
106	Ionic liquid infused starch-cellulose derivative based quasi-solid dye-sensitized solar cell: exploiting the rheological properties of natural polymers. <i>Cellulose</i> , 2021, 28, 5545.	2.4	9
107	Organosoluble, esterified starch as quasi-solid biopolymer electrolyte in dye-sensitized solar cell. <i>Journal of Materials Research and Technology</i> , 2021, 12, 1638-1648.	2.6	9
108	Impact of Ar Flow Rates on Micro-Structural Properties of WS <sub>2</sub> Thin Film by RF Magnetron Sputtering. <i>Nanomaterials</i> , 2021, 11, 1635.	1.9	9

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109	4,7-Diiodo-2,1,3-benzothiadiazole and 7,7-diiodo-4,4-bi(2,1,3-benzothiadiazole). Acta Crystallographica Section C: Crystal Structure Communications, 2002, 58, o373-o375.	0.4	8
110	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
111	Compact planar UWB antenna with 3.5/5.8 GHz dual band-notched characteristics for IoT application. , 2017, , .		8
112	Benzodithiazole-Based Hole-Transporting Material for Efficient Perovskite Solar Cells. Asian Journal of Organic Chemistry, 2018, 7, 2497-2503.	1.3	8
113	DESIGN AND DEVELOPMENT OF AN INTELLIGENT AUTONOMOUS MOBILE ROBOT FOR A SOCCER GAME COMPETITION. , 2009, , .		8
114	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
115	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
116	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
117	Degradation of Perovskite Thin Films and Solar Cells with Candle Soot C/Ag Electrode Exposed in a Control Ambient. Nanomaterials, 2021, 11, 3463.	1.9	7
118	Effect of Selective Lateral Chromium Doping by RF Magnetron Sputtering on the Structural, and Opto-Electrical Properties of Nickel Oxide. Applied Sciences (Switzerland), 2021, 11, 11546.	1.3	7
119	Unusual Hydrogen-bonding Networks Consisting of $\pi$ -Extended 4,4'-Bipyridines and Chloranilic Acid. Supramolecular Chemistry, 2003, 15, 239-243.	1.5	6
120	Modeling and Control of a Multi Degree of Freedom Flexible Joint Manipulator. , 2009, , .		6
121	Potential buffer layers for Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) solar cells from numerical analysis. , 2013, , .		6
122	Vacuum annealed Ga:ZnO (GZO) thin films for solar cell integrated transparent antenna application. Materials Letters, 2021, 304, 130551.	1.3	6
123	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
124	An Experiment on Electric Power Steering (EPS) System of a CAR. Applied Mechanics and Materials, 0, 110-116, 4941-4950.	0.2	5
125	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). Optik, 2018, 170, 295-303.	1.4	5
126	Synthesis of new simple hole-transport materials bearing benzodithiazole based core for perovskite solar cells. Solar Energy, 2019, 194, 431-435.	2.9	5



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127	Koch Fractal Loop Circular Polarization (CP) Antenna Integrated with Solar Cells. , 2019, , .		5
128	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. Coatings, 2020, 10, 766.	1.2	5
129	New insights of phenolic compounds from optimized fruit extract of Ficus auriculata. Scientific Reports, 2021, 11, 12503.	1.6	5
130	Glycinin A4A5 Subunit Digesting Protease in Soybean Seeds. Bioscience, Biotechnology and Biochemistry, 1992, 56, 878-883.	0.6	4
131	Purification and Characterization of a CM-Glycinin Digesting Protease from Soybean Seeds. Bioscience, Biotechnology and Biochemistry, 1993, 57, 1119-1124.	0.6	4
132	Study on Stability of Pentacene-Based Metal-Oxide Semiconductor Diodes in Air Using Capacitance-Voltage Characteristics. Japanese Journal of Applied Physics, 2009, 48, 04C178.	0.8	4
133	Multiwall Carbon Nanotube Coated with Conducting Polyaniline Nanocomposites for Quasi-Solid-State Dye-Sensitized Solar Cells. Journal of Chemistry, 2013, 2013, 1-5.	0.9	4
134	A Qualitative Approach to Mobile Robot Navigation Using RFID. IOP Conference Series: Materials Science and Engineering, 2013, 53, 012064.	0.3	4
135	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
136	Investigation on the post-treatment after pulsed Nd:YAG laser texturing on silicon solar cells surfaces. , 2020, , .		4
137	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 9-2017). Solar Rrl, 2017, 1, 1770134.	3.1	3
138	PROSPECT OF AEROGELS AS DESICCANT MATERIALS: POSSIBILITIES AND CHALLENGES. Journal of Porous Media, 2021, 24, 49-56.	1.0	3
139	The viability of alternative and nontoxic chlorine containing compounds for thermal treatment of ultrathin CdTe (1.0-1.4 μm) films. International Journal of Energy Research, 2021, 45, 13771-13785.	2.2	3
140	Transformation of Oil Palm Waste-Derived Cellulose into Solid Polymer Electrolytes: Investigating the Crucial Role of Plasticizers. Polymers, 2021, 13, 3685.	2.0	3
141	Salsa20 based lightweight security scheme for smart meter communication in smart grid. Telkomnika (Telecommunication Computing Electronics and Control), 2020, 18, 228.	0.6	3
142	Paste Aging Spontaneously Tunes TiO <sub>2</sub> Nanoparticles into Reproducible Electrospayed Photoelectrodes. ACS Applied Materials & Interfaces, 2021, 13, 53758-53766.	4.0	3
143	Sequential optimization of highly efficient all inorganic CsGeI <sub>3</sub> perovskite solar cell by numerical simulation. Japanese Journal of Applied Physics, 0, , .	0.8	3
144	4,7-Bis(4-pyridylethynyl)-2,1,3-benzothiadiazole and its dipyridinium diperchlorate. Acta Crystallographica Section C: Crystal Structure Communications, 2001, 57, 751-753.	0.4	2

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145	Prospects of novel CdZnTe thin film solar cells from numerical analysis. , 2014, , .		2
146	Nanostructured and wide bandgap CdS:O thin films grown by reactive RF sputtering. AIP Conference Proceedings, 2015, , .	0.3	2
147	Synthesis and Performance of New Organic Dyes and Functional Fullerenes for Organic Solar Cells. ACS Symposium Series, 2015, , 193-236.	0.5	2
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149	Influence of Fe <sub>2</sub> O <sub>3</sub> in ZnO/GO-based dye-sensitized solar cell. Polymer Bulletin, 0, , 1.	1.7	2
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