

Nowshad Amin

List of Publications by Year in descending order

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385
papers

7,659
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53794

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98798

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387
docs citations

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times ranked

6555
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A comprehensive study and performance analysis of deep neural network-based approaches in wind time-series forecasting. <i>Journal of Reliable Intelligent Environments</i> , 2023, 9, 183-200. | 5.2 | 6 |
| 2 | Transparent Antenna for Green Communication Feature: A Systematic Review on Taxonomy Analysis, Open Challenges, Motivations, Future Directions and Recommendations. <i>IEEE Access</i> , 2022, 10, 12286-12321. | 4.2 | 9 |
| 3 | Microstructural evolution of oxygen incorporated CdTe thin films deposited by close-spaced sublimation. <i>Materials Letters</i> , 2022, 306, 130552. | 2.6 | 10 |
| 4 | Growth and characterization of Ag-Al ₂ O ₃ composites thin films for thermoelectric power generation applications. <i>Ceramics International</i> , 2022, 48, 3647-3651. | 4.8 | 5 |
| 5 | Graphene and Its Derivatives for Supercapacitor Application. , 2022, , 465-474. | | 2 |
| 6 | Mixture deposition method for graphene quantum dots-based dye-sensitized solar cell. <i>Electrochimica Acta</i> , 2022, 404, 139732. | 5.2 | 20 |
| 7 | Cubic Silicon Carbide (3C-SiC) as a buffer layer for high efficiency and highly stable CdTe solar cell. <i>Optical Materials</i> , 2022, 123, 111911. | 3.6 | 17 |
| 8 | Commercial viability of different photovoltaic technologies. , 2022, , 347-393. | | 1 |
| 9 | Optoelectrical impact of alternative window layer composition in CdTe thin film solar cells performance. <i>Solar Energy</i> , 2022, 233, 523-530. | 6.1 | 14 |
| 10 | Sulfurization temperature induced enhancement in thermoelectric properties of polycrystalline WS ₂ nanomaterials. <i>Optical Materials</i> , 2022, 124, 112004. | 3.6 | 4 |
| 11 | Enhancement in structural and optical properties of copper tin sulphide (CTS) thin films via sulphurization process. <i>Materials Science in Semiconductor Processing</i> , 2022, 143, 106496. | 4.0 | 6 |
| 12 | Current advancement of flexible dye sensitized solar cell: A review. <i>Optik</i> , 2022, 254, 168089. | 2.9 | 34 |
| 13 | Development of green photocatalytic geopolymers for dye removal. <i>Materials Chemistry and Physics</i> , 2022, 283, 126020. | 4.0 | 7 |
| 14 | An In-Depth Analysis of CdTe Thin-Film Deposition on Ultra-Thin Glass Substrates via Close-Spaced Sublimation (CSS). <i>Coatings</i> , 2022, 12, 589. | 2.6 | 7 |
| 15 | A Comparative Study on p- and n-Type Silicon Heterojunction Solar Cells by AFORS-HET. <i>Materials</i> , 2022, 15, 3508. | 2.9 | 5 |
| 16 | Green Synthesis of Lead Sulphide Nanoparticles for High-Efficiency Perovskite Solar Cell Applications. <i>Nanomaterials</i> , 2022, 12, 1933. | 4.1 | 12 |
| 17 | IoT-based Distribution and Control System for Smart Home Applications. , 2022, , . | | 4 |
| 18 | Enhancing microstructural and optoelectronic properties of CZTS thin films by post deposition ionic treatment. <i>Materials Letters</i> , 2021, 285, 129117. | 2.6 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Sorbent-based air water-harvesting systems: progress, limitation, and consideration. Reviews in Environmental Science and Biotechnology, 2021, 20, 257-279. | 8.1 | 17 |
| 20 | Current trends and prospects of tidal energy technology. Environment, Development and Sustainability, 2021, 23, 8179-8194. | 5.0 | 95 |
| 21 | Developing of Chemically Treated Waste Biomass Adsorbent for Dye Removal. Journal of Natural Fibers, 2021, 18, 968-977. | 3.1 | 12 |
| 22 | The Role of Deposition Temperature in the Photovoltaic Properties of RF-Sputtered CdSe Thin Films. Crystals, 2021, 11, 73. | 2.2 | 16 |
| 23 | A Portable Electromagnetic Head Imaging System Using Metamaterial Loaded Compact Directional 3D Antenna. IEEE Access, 2021, 9, 50893-50906. | 4.2 | 20 |
| 24 | Recovery of FTO coated glass substrate <i>via</i> environment-friendly facile recycling perovskite solar cells. RSC Advances, 2021, 11, 14534-14541. | 3.6 | 27 |
| 25 | Effect of Cd ²⁺ Molar Concentration in Cd _x Zn _(1-x) S Thin Film by Chemical Bath Deposition Technique Using Alternative Sulfur Precursor. ECS Journal of Solid State Science and Technology, 2021, 10, 025009. | 1.8 | 7 |
| 26 | Prospective Methodologies in Hybrid Renewable Energy Systems for Energy Prediction Using Artificial Neural Networks. Sustainability, 2021, 13, 2393. | 3.2 | 62 |
| 27 | 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. | 4.5 | 3 |
| 28 | Design and Implementation of Telehealth Device: Linking IoT Sensors to Cloud Networks. , 2021, , . | | 2 |
| 29 | Diluted chemical bath deposition of CdZnS as prospective buffer layer in CIGS solar cell. Ceramics International, 2021, 47, 11003-11009. | 4.8 | 28 |
| 30 | An Adaptive TE-PV Hybrid Energy Harvesting System for Self-Powered IoT Sensor Applications. Sensors, 2021, 21, 2604. | 3.8 | 24 |
| 31 | High Mobility Reactive Sputtered Cu ₂ O Thin Film for Highly Efficient and Stable Perovskite Solar Cells. Crystals, 2021, 11, 389. | 2.2 | 13 |
| 32 | Performance simulation of single and dual-junction GaInP/GaAs tandem solar cells using AMPS-1D. Sustainable Energy Technologies and Assessments, 2021, 44, 101067. | 2.7 | 9 |
| 33 | Ionic liquid infused starch-cellulose derivative based quasi-solid dye-sensitized solar cell: exploiting the rheological properties of natural polymers. Cellulose, 2021, 28, 5545. | 4.9 | 9 |
| 34 | Impact of CdCl ₂ Treatment in CdTe Thin Film Grown on Ultra-Thin Glass Substrate via Close Spaced Sublimation. Crystals, 2021, 11, 390. | 2.2 | 16 |
| 35 | Defect Study and Modelling of Sn ₃ -Based Perovskite Solar Cells with SCAPS-1D. Nanomaterials, 2021, 11, 1218. | 4.1 | 81 |
| 36 | Organosoluble, esterified starch as quasi-solid biopolymer electrolyte in dye-sensitized solar cell. Journal of Materials Research and Technology, 2021, 12, 1638-1648. | 5.8 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | New insights of phenolic compounds from optimized fruit extract of <i>Ficus auriculata</i> . Scientific Reports, 2021, 11, 12503. | 3.3 | 5 |
| 38 | A comprehensive comparative study of CdTe thin films grown on ultra-thin glass substrates by close-spaced sublimation and RF magnetron sputtering. Materials Letters, 2021, 293, 129655. | 2.6 | 11 |
| 39 | An Improved Vulnerability Exploitation Prediction Model with Novel Cost Function and Custom Trained Word Vector Embedding. Sensors, 2021, 21, 4220. | 3.8 | 5 |
| 40 | Delamination-and Electromigration-Related Failures in Solar Panels—A Review. Sustainability, 2021, 13, 6882. | 3.2 | 18 |
| 41 | Self-Sustained Autonomous Wireless Sensor Network with Integrated Solar Photovoltaic System for Internet of Smart Home-Building (IoSHB) Applications. Micromachines, 2021, 12, 653. | 2.9 | 22 |
| 42 | Impact of Ar Flow Rates on Micro-Structural Properties of WS ₂ Thin Film by RF Magnetron Sputtering. Nanomaterials, 2021, 11, 1635. | 4.1 | 9 |
| 43 | Design and Implementation of an IoT-Enabled Smart Plug Socket for Home Energy Management. , 2021, , . | | 6 |
| 44 | Effects of oxygen concentration variation on the structural and optical properties of reactive sputtered WO _x thin film. Solar Energy, 2021, 222, 202-211. | 6.1 | 26 |
| 45 | Design optimization of CdTe/Si tandem solar cell using different transparent conducting oxides as interconnecting layers. Journal of Alloys and Compounds, 2021, 870, 159351. | 5.5 | 12 |
| 46 | Study of Black Silicon Wafer through Wet Chemical Etching for Parametric Optimization in Enhancing Solar Cell Performance by PC1D Numerical Simulation. Crystals, 2021, 11, 881. | 2.2 | 5 |
| 47 | Successful growth of Zinc Nitride thin films by vacuum tube furnace using nitrogen as source gas. Ceramics International, 2021, 47, 18964-18968. | 4.8 | 3 |
| 48 | A Numerical Investigation on the Combined Effects of MoSe ₂ Interface Layer and Graded Bandgap Absorber in CIGS Thin Film Solar Cells. Coatings, 2021, 11, 930. | 2.6 | 7 |
| 49 | Optical Losses of Frontal Layers in Superstrate CdS/CdTe Solar Cells Using OPAL2. Coatings, 2021, 11, 943. | 2.6 | 3 |
| 50 | Fabrication of Black Silicon via Metal-Assisted Chemical Etching—A Review. Sustainability, 2021, 13, 10766. | 3.2 | 15 |
| 51 | Sol-gel prepared Cu ₂ ZnSnS ₄ (CZTS) semiconductor thin films: Role of solvent removal processing temperature. Materials Science in Semiconductor Processing, 2021, 132, 105874. | 4.0 | 14 |
| 52 | A comparative study of CdS thin films grown on ultra-thin glass substrates by RF magnetron sputtering and chemical bath deposition. Materials Science in Semiconductor Processing, 2021, 133, 105935. | 4.0 | 21 |
| 53 | Performance analysis of tungsten disulfide (WS ₂) as an alternative buffer layer for CdTe solar cell through numerical modeling. Optical Materials, 2021, 120, 111296. | 3.6 | 24 |
| 54 | Vacuum annealed Ga:ZnO (GZO) thin films for solar cell integrated transparent antenna application. Materials Letters, 2021, 304, 130551. | 2.6 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Numerical Insights into the Influence of Electrical Properties of n-CdS Buffer Layer on the Performance of SLG/Mo/p-Absorber/n-CdS/n-ZnO/Ag Configured Thin Film Photovoltaic Devices. <i>Coatings</i> , 2021, 11, 52. | 2.6 | 15 |
| 56 | A Comparative Performance Analysis of ANN Algorithms for MPPT Energy Harvesting in Solar PV System. <i>IEEE Access</i> , 2021, 9, 102137-102152. | 4.2 | 60 |
| 57 | Enhancing spectral response towards high-performance dye-sensitised solar cells by multiple dye approach: A comprehensive review. <i>Applied Materials Today</i> , 2021, 25, 101204. | 4.3 | 11 |
| 58 | Design and Modelling of Eco-Friendly CH ₃ NH ₃ SnI ₃ -Based Perovskite Solar Cells with Suitable Transport Layers. <i>Energies</i> , 2021, 14, 7200. | 3.1 | 25 |
| 59 | Probabilistic Load Flow-Based Optimal Placement and Sizing of Distributed Generators. <i>Energies</i> , 2021, 14, 7857. | 3.1 | 3 |
| 60 | Effect of Compression Pressure and Coal Binding on the Fuel Properties of Biomass Pellet. <i>Solid Fuel Chemistry</i> , 2021, 55, 429-438. | 0.7 | 0 |
| 61 | Microcontroller and Android Based Automatic Identification System for Inland Waterway. , 2021, , . | | 0 |
| 62 | 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. | 4.1 | 7 |
| 63 | 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. | 2.5 | 7 |
| 64 | Role of a Mine in Changing Its Surroundings—Land Use and Land Cover and Impact on the Natural Environment in Barapukuria, Bangladesh. <i>Sustainability</i> , 2021, 13, 13602. | 3.2 | 3 |
| 65 | Innovative semitransparent photo-thermoelectric cells based on bismuth antimony telluride alloy. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152593. | 5.5 | 12 |
| 66 | Optimizing the electrical transport properties of ZnSnO thin films by post growth annealing in air. <i>Optik</i> , 2020, 204, 164148. | 2.9 | 18 |
| 67 | An overview of solar photovoltaic panels—end-of-life material recycling. <i>Energy Strategy Reviews</i> , 2020, 27, 100431. | 7.3 | 328 |
| 68 | Hydrolytic cleavage of glycosidic bonds for cellulose nanoparticles (CNPs) production by BmimHSO ₄ ionic liquid catalyst. <i>Thermochimica Acta</i> , 2020, 684, 178484. | 2.7 | 16 |
| 69 | Effect of deep-level defect density of the absorber layer and n/i interface in perovskite solar cells by SCAPS-1D. <i>Results in Physics</i> , 2020, 16, 102839. | 4.1 | 128 |
| 70 | Annealing temperature assisted microstructural and optoelectrical properties of CdSe thin film grown by RF magnetron sputtering. <i>Superlattices and Microstructures</i> , 2020, 148, 106716. | 3.1 | 20 |
| 71 | An Investigation of Optical Absorption of Pulsed Nd:YAG Laser Texturing on Silicon Solar Cells Surfaces Before and After Post Treatment. , 2020, , . | | 0 |
| 72 | Resorcinol-Formaldehyde (RF) as a Novel Plasticizer for Starch-Based Solid Biopolymer Electrolyte. <i>Polymers</i> , 2020, 12, 2170. | 4.5 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Efficiency enhancement of CIGS solar cell by WS ₂ as window layer through numerical modelling tool. <i>Solar Energy</i> , 2020, 207, 479-485. | 6.1 | 61 |
| 74 | Electrical and Optical Properties of Nickel Oxide Films for Efficient Perovskite Solar Cells. <i>Small Methods</i> , 2020, 4, 2000454. | 8.6 | 37 |
| 75 | An Investigation on Structural and Optical Properties of Zn _{1-x} Mg _x S Thin Films Deposited by RF Magnetron Co-Sputtering Technique. <i>Coatings</i> , 2020, 10, 766. | 2.6 | 5 |
| 76 | A mutual coupled concentric crossed-Line split ring resonator (CCSRR) based epsilon negative (ENG) metamaterial for Tri-band microwave applications. <i>Results in Physics</i> , 2020, 18, 103292. | 4.1 | 11 |
| 77 | An Overview of the Building Energy Management System Considering the Demand Response Programs, Smart Strategies and Smart Grid. <i>Energies</i> , 2020, 13, 3299. | 3.1 | 34 |
| 78 | An Autonomous Home Energy Management System Using Dynamic Priority Strategy in Conventional Homes. <i>Energies</i> , 2020, 13, 3312. | 3.1 | 8 |
| 79 | Effect of annealing temperature on thermoelectric properties of zinc nitride thin films grown by thermal evaporation method. <i>Ceramics International</i> , 2020, 46, 25992-25995. | 4.8 | 11 |
| 80 | Temperature difference in close-spaced sublimation (CSS) growth of CdTe thin film on ultra-thin glass substrate. <i>Results in Physics</i> , 2020, 18, 103213. | 4.1 | 20 |
| 81 | Influence of Sputtering Temperature of TiO ₂ Deposited onto Reduced Graphene Oxide Nanosheet as Efficient Photoanodes in Dye-Sensitized Solar Cells. <i>Molecules</i> , 2020, 25, 4852. | 3.8 | 5 |
| 82 | Tailoring of the Structural and Optoelectronic Properties of Zinc-Tin-Oxide Thin Films via Oxygenation Process for Solar Cell Application. <i>IEEE Access</i> , 2020, 8, 193560-193568. | 4.2 | 15 |
| 83 | An approach to alternative post-deposition treatment in CdTe thin films for solar cell application. <i>Superlattices and Microstructures</i> , 2020, 147, 106687. | 3.1 | 15 |
| 84 | IoT-Enabled High Efficiency Smart Solar Charge Controller with Maximum Power Point Tracking Design, Hardware Implementation and Performance Testing. <i>Electronics (Switzerland)</i> , 2020, 9, 1267. | 3.1 | 21 |
| 85 | Prospective Efficient Ambient Energy Harvesting Sources for IoT-Equipped Sensor Applications. <i>Electronics (Switzerland)</i> , 2020, 9, 1345. | 3.1 | 45 |
| 86 | Development of graphene based nanocomposites towards medical and biological applications. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2020, 48, 1189-1205. | 2.8 | 33 |
| 87 | Improving the thermoelectric performance of hydrothermally synthesized FeS ₂ nanoparticles by post sulfurization. <i>Ceramics International</i> , 2020, 46, 20496-20499. | 4.8 | 23 |
| 88 | Effect of substrate temperature on the properties of RF sputtered CdS thin films for solar cell applications. <i>Results in Physics</i> , 2020, 17, 103132. | 4.1 | 33 |
| 89 | Development of effective and sustainable adsorbent biomaterial from an agricultural waste material: Cu(II) removal. <i>Materials Chemistry and Physics</i> , 2020, 249, 123128. | 4.0 | 31 |
| 90 | Perceiving of Defect Tolerance in Perovskite Absorber Layer for Efficient Perovskite Solar Cell. <i>IEEE Access</i> , 2020, 8, 106346-106353. | 4.2 | 38 |

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|-----|--|-----|-----------|
| 91 | Influence of Temperature Reaction for the CdSe@TiO ₂ Nanotube Thin Film Formation via Chemical Bath Deposition in Improving the Photoelectrochemical Activity. <i>Materials</i> , 2020, 13, 2533. | 2.9 | 1 |
| 92 | Improved thermoelectric performance of Al and Sn doped ZnO nano particles by the engineering of secondary phases. <i>Ceramics International</i> , 2020, 46, 15013-15017. | 4.8 | 27 |
| 93 | Impact of high resistivity transparent (HRT) layer in cadmium telluride solar cells from numerical simulation. <i>Journal of Renewable and Sustainable Energy</i> , 2020, 12, . | 2.0 | 24 |
| 94 | Organosoluble Starch-Cellulose Binary Polymer Blend as a Quasi-Solid Electrolyte in a Dye-Sensitized Solar Cell. <i>Polymers</i> , 2020, 12, 516. | 4.5 | 16 |
| 95 | Modulation of secondary phases in hydrothermally grown zinc oxide nanostructures by varying the Cu dopant concentration for enhanced thermo power. <i>Journal of Alloys and Compounds</i> , 2020, 843, 156081. | 5.5 | 22 |
| 96 | 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. | 2.9 | 21 |
| 97 | 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. | 3.9 | 25 |
| 98 | In vitro antioxidant activity of <i>Ficus carica</i> L. latex from 18 different cultivars. <i>Scientific Reports</i> , 2020, 10, 10852. | 3.3 | 38 |
| 99 | An investigation of the stirring duration effect on synthesized graphene oxide for dye-sensitized solar cells. <i>PLoS ONE</i> , 2020, 15, e0228322. | 2.5 | 8 |
| 100 | Impact of preheating environment on microstructural and optoelectronic properties of Cu ₂ ZnSnS ₄ (CZTS) thin films deposited by spin-coating. <i>Superlattices and Microstructures</i> , 2020, 140, 106452. | 3.1 | 41 |
| 101 | Organosoluble starch derivative as quasi-solid electrolytes in DSSC: Unravelling the synergy between electrolyte rheology and photovoltaic properties. <i>Solar Energy</i> , 2020, 197, 144-153. | 6.1 | 20 |
| 102 | WS ₂ : A New Window Layer Material for Solar Cell Application. <i>Scientific Reports</i> , 2020, 10, 771. | 3.3 | 67 |
| 103 | A comprehensive study on the effects of alternative sulphur precursor on the material properties of chemical bath deposited CdS thin films. <i>Ceramics International</i> , 2020, 46, 18716-18724. | 4.8 | 25 |
| 104 | Development of hydrophobic reduced graphene oxide as a new efficient approach for photochemotherapy. <i>RSC Advances</i> , 2020, 10, 12851-12863. | 3.6 | 39 |
| 105 | Optoelectronic properties of electron beam-deposited NiOx thin films for solar cell application. <i>Results in Physics</i> , 2020, 17, 103122. | 4.1 | 26 |
| 106 | PbS/CdS/ZnO nanowire arrays: Synthesis, structural, optical, electrical, and photoelectrochemical properties. <i>Chemical Physics Letters</i> , 2020, 750, 137486. | 2.6 | 26 |
| 107 | A Gap Coupled Hexagonal Split Ring Resonator Based Metamaterial for S-Band and X-Band Microwave Applications. <i>IEEE Access</i> , 2020, 8, 68239-68253. | 4.2 | 54 |
| 108 | Effect of temperature on synthesis of cellulose nanoparticles via ionic liquid hydrolysis process. <i>Journal of Molecular Liquids</i> , 2020, 308, 113030. | 4.9 | 24 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Investigation on the post-treatment after pulsed Nd:YAG laser texturing on silicon solar cells surfaces. , 2020, , . | | 4 |
| 110 | A lightweight security scheme for advanced metering infrastructures in smart grid. Bulletin of Electrical Engineering and Informatics, 2020, 9, 777-784. | 0.8 | 2 |
| 111 | Air-stable perovskite photovoltaic cells with low temperature deposited NiOx as an efficient hole-transporting material. Optical Materials Express, 2020, 10, 1801. | 3.0 | 19 |
| 112 | Solid Oxide Fuel Cell (SOFC); A New Approach of Energy Generation during the Pandemic COVID-19. International Journal of Integrated Engineering, 2020, 12, . | 0.4 | 12 |
| 113 | Effect of Annealing Temperature on the Structural and Optical Properties of CdS Thin Films Deposited by CBD. , 2020, , . | | 1 |
| 114 | The Role of CdS:O/CdS Bilayer in the Formation of CdS _{1-x} Te _x Intermixed Layer in CdTe Absorber. , 2020, , . | | 1 |
| 115 | Reducing Reflectance on Silicon Solar Cells Surfaces by Controlling X-Y Translation Table Speeds of Pulsed Nd:YAG Laser System. , 2020, , . | | 1 |
| 116 | A Novel Method to Evaluate Irradiance in PV Field without Irradiance Sensors. , 2020, , . | | 0 |
| 117 | Energy Usage Prediction for Smart Home with Regression Based Ensemble Model. , 2020, , . | | 2 |
| 118 | Optical Characterization of Sputter Deposited CdS Thin Films and Measurement of Deposition Rate. , 2020, , . | | 0 |
| 119 | Tunable morphology and band gap alteration of CuO-ZnO nanostructures based photocathode for solar photoelectrochemical cells. Materials Research Express, 2020, 7, 125010. | 1.6 | 6 |
| 120 | Salsa20 based lightweight security scheme for smart meter communication in smart grid. Telkomnika (Telecommunication Computing Electronics and Control), 2020, 18, 228. | 0.8 | 3 |
| 121 | Incident photon-to-current efficiency of thermally treated SWCNTs-based nanocomposite for dye-sensitized solar cell. Ionics, 2019, 25, 747-761. | 2.4 | 3 |
| 122 | Effects of growth temperatures on the structural and optoelectronic properties of sputtered zinc sulfide thin films for solar cell applications. Optical and Quantum Electronics, 2019, 51, 1. | 3.3 | 8 |
| 123 | Effect of graphene doping on the charge carrier and thermoelectric properties of RCF-Bi ₂ S ₃ composites. AIP Conference Proceedings, 2019, , . | 0.4 | 7 |
| 124 | Physical and electrical properties of molybdenum thin films grown by DC magnetron sputtering for photovoltaic application. Results in Physics, 2019, 14, 102515. | 4.1 | 32 |
| 125 | High mobility and transparent ZTO ETM prepared by RF reactive co-sputtering for perovskite solar cell application. Results in Physics, 2019, 14, 102518. | 4.1 | 22 |
| 126 | Effect of tin concentration on the structural, optical and thermoelectric properties of CZTS thin films grown by chemical solution method. Ceramics International, 2019, 45, 22513-22516. | 4.8 | 20 |

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|-----|--|------|-----------|
| 127 | Recycled carbon fibre/Bi ₂ Te ₃ and Bi ₂ S ₃ hybrid composite doped with MWCNTs for thermoelectric applications. <i>Composites Part B: Engineering</i> , 2019, 175, 107085. | 12.0 | 21 |
| 128 | Synthesis of new simple hole-transport materials bearing benzodithiazole based core for perovskite solar cells. <i>Solar Energy</i> , 2019, 194, 431-435. | 6.1 | 5 |
| 129 | Biomass and Industrial Wastes as Resource Materials for Aerogel Preparation: Opportunities, Challenges, and Research Directions. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 17621-17645. | 3.7 | 56 |
| 130 | A Modified Meander Line Microstrip Patch Antenna With Enhanced Bandwidth for 2.4 GHz ISM-Band Internet of Things (IoT) Applications. <i>IEEE Access</i> , 2019, 7, 127850-127861. | 4.2 | 77 |
| 131 | Stable perovskite based photodetector in impedance and capacitance mode. <i>Results in Physics</i> , 2019, 15, 102699. | 4.1 | 11 |
| 132 | Impact of CdTe thin film thickness in Zn _x Cd _{1-x} S/CdTe solar cell by RF sputtering. <i>Solar Energy</i> , 2019, 180, 559-566. | 6.1 | 37 |
| 133 | Effects of growth temperature on the photovoltaic properties of RF sputtered undoped NiO thin films. <i>Results in Physics</i> , 2019, 14, 102360. | 4.1 | 51 |
| 134 | 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. | 4.1 | 38 |
| 135 | Key factors of desiccant-based cooling systems: Materials. <i>Applied Thermal Engineering</i> , 2019, 159, 113946. | 6.0 | 32 |
| 136 | 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. | 6.1 | 13 |
| 137 | High performance supercapattery with rGO/TiO ₂ nanocomposites anode and activated carbon cathode. <i>Journal of Alloys and Compounds</i> , 2019, 796, 13-24. | 5.5 | 38 |
| 138 | Monitoring of the Human Body Signal through the Internet of Things (IoT) Based LoRa Wireless Network System. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1884. | 2.5 | 79 |
| 139 | Evolution of Pb-Free and Partially Pb-Substituted Perovskite Absorbers for Efficient Perovskite Solar Cells. <i>Electronic Materials Letters</i> , 2019, 15, 525-546. | 2.2 | 12 |
| 140 | Deposition of CdS Thin Film by Thermal Evaporation. , 2019, , . | | 10 |
| 141 | Modulation of structural, optical and thermoelectric properties of sol-gel grown CZTS thin films by controlling the concentration of zinc. <i>Ceramics International</i> , 2019, 45, 12820-12824. | 4.8 | 43 |
| 142 | Effect of Cd _{1-x} Zn _x S Window Layer Incorporation in CdTe Solar Cell by Numerical Simulation. , 2019, , . | | 1 |
| 143 | Growth of Cu ₂ InO ₄ thin films on Si substrate by thermal evaporation technique and enhancement of thermoelectric properties by post-growth annealing. <i>Physica B: Condensed Matter</i> , 2019, 562, 59-62. | 2.7 | 26 |
| 144 | Prospect of Back Contact for A Highly Efficient InGaN Thin Film Solar Cell from Numerical Analysis. , 2019, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | A two step technique to remove the secondary phases in CZTS thin films grown by sol - gel method. Ceramics International, 2019, 45, 10876-10881. | 4.8 | 55 |
| 146 | Structural Properties of CdS Thin-films Deposited by RF Magnetron Sputtering. , 2019, , . | | 0 |
| 147 | Structural properties of bi-layer Molybdenum Thin-film deposited by RF magnetron sputtering for CZTS solar cells. , 2019, , . | | 0 |
| 148 | Characterization of Intrinsic and Doped ZnO Thin-Films Deposited by RF Magnetron Sputtering for Chalcogenide Based Solar Cell Applications. , 2019, , . | | 0 |
| 149 | IoT Based Health Monitoring System with LoRa Communication Technology. , 2019, , . | | 36 |
| 150 | Effect of growth temperature on the structural and optical properties of CdS:O thin films for CdTe solar cells. , 2019, , . | | 1 |
| 151 | Investigating the Impact of Deposition Power on PVD Growth WS ₂ for Solar Cell Application. , 2019, , . | | 0 |
| 152 | Koch Fractal Loop Circular Polarization (CP) Antenna Integrated with Solar Cells. , 2019, , . | | 5 |
| 153 | The role of laser ablation technique parameters in synthesis of nanoparticles from different target types. Journal of Nanoparticle Research, 2019, 21, 1. | 1.9 | 40 |
| 154 | Electrical Properties of CSS Deposited CdTe Thin Films for Solar Cell Applications. , 2019, , . | | 3 |
| 155 | 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. | 8.0 | 26 |
| 156 | Emerging sustainable solutions for depollution: Geopolymers. Construction and Building Materials, 2019, 199, 540-548. | 7.2 | 88 |
| 157 | A comprehensive defect study of tungsten disulfide (WS ₂) as electron transport layer in perovskite solar cells by numerical simulation. Results in Physics, 2019, 12, 1097-1103. | 4.1 | 90 |
| 158 | Effect of defect density and energy level mismatch on the performance of perovskite solar cells by numerical simulation. Optik, 2019, 182, 1204-1210. | 2.9 | 82 |
| 159 | Elucidating the role of interfacial MoS ₂ layer in Cu ₂ ZnSnS ₄ thin film solar cells by numerical analysis. Solar Energy, 2019, 178, 162-172. | 6.1 | 64 |
| 160 | Fabrication of Cu ₂ SnS ₃ thin film solar cells by sulphurization of sequentially sputtered Sn/CuSn metallic stacked precursors. Solar Energy, 2019, 177, 262-273. | 6.1 | 24 |
| 161 | Left-Handed Metamaterial-Inspired Unit Cell for S-Band Glucose Sensing Application. Sensors, 2019, 19, 169. | 3.8 | 45 |
| 162 | Growth of Zn ₂ GeO ₄ thin film by thermal evaporation on ITO substrate for thermoelectric power generation applications. Ceramics International, 2019, 45, 312-316. | 4.8 | 32 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 163 | Water Adsorption Characteristics and Microcalorimetric Studies of MOF-5 and MOF-199 Synthesized Using "Green" Sol-Gel. <i>Acta Physica Polonica A</i> , 2019, 135, 1119-1122. | 0.5 | 2 |
| 164 | Cyber Vulnerabilities in Smart Grid and Safety Measures for Energy Meters in Advanced Metering System and Smart Meter Communications. <i>International Journal of Advanced Trends in Computer Science and Engineering</i> , 2019, 8, 324-330. | 0.2 | 1 |
| 165 | Controllable formation of MoS ₂ via preferred crystallographic orientation modulation of DC-sputtered Mo thin film. <i>Materials Letters</i> , 2018, 219, 174-177. | 2.6 | 14 |
| 166 | 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. | 8.9 | 85 |
| 167 | Prospects of Ternary Cd _{1-x} Zn _x 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. | 2.2 | 13 |
| 168 | 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. | 2.6 | 10 |
| 169 | Compositional disparity in Cu ₂ ZnSnS ₄ (CZTS) thin film deposited by RF-sputtering from a single quaternary compound target. <i>Materials Letters</i> , 2018, 221, 201-205. | 2.6 | 27 |
| 170 | Effects of Cr doping in the structural and optoelectronic properties of Cu ₂ ZnSnS ₄ (CZTS) thin film by magnetron co-sputtering. <i>Materials Letters</i> , 2018, 221, 22-25. | 2.6 | 19 |
| 171 | Investigation of rheological and corrosion properties of graphene-based eutectic salt. <i>Journal of Materials Science</i> , 2018, 53, 692-707. | 3.7 | 8 |
| 172 | Performance assessment of Cu ₂ SnS ₃ (CTS) based thin film solar cells by AMPS-1D. <i>Current Applied Physics</i> , 2018, 18, 79-89. | 2.4 | 38 |
| 173 | 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. | 16.4 | 44 |
| 174 | Modeling and characterization of a grid-connected photovoltaic system under tropical climate conditions. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 2094-2105. | 16.4 | 16 |
| 175 | A Case Study on Cost-efficient Solar Powered Drinking Water System for Isolated Communities. , 2018, , . | | 4 |
| 176 | Solar Photovoltaic Assisted Cost-efficient Brackish Water Purification System. , 2018, , . | | 4 |
| 177 | Volatile Organic Compound Analysis by Sorbent Tube-Thermal Desorption-Gas Chromatography: A Review. <i>International Journal of Engineering and Technology(UAE)</i> , 2018, 7, 165. | 0.3 | 4 |
| 178 | A Polarization Independent Quasi-TEM Metamaterial Absorber for X and Ku Band Sensing Applications. <i>Sensors</i> , 2018, 18, 4209. | 3.8 | 75 |
| 179 | Room Temperature Synthesis and Characterizations of ZIF-8 Formation at Water-Fatty Alcohols Interface. <i>Journal of Physics: Conference Series</i> , 2018, 1082, 012046. | 0.4 | 8 |
| 180 | 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. | 16.4 | 46 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 181 | Benzodithiazole-Based Hole-Transporting Material for Efficient Perovskite Solar Cells. Asian Journal of Organic Chemistry, 2018, 7, 2497-2503. | 2.7 | 8 |
| 182 | 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. | 3.6 | 29 |
| 183 | Numerical Analysis of PbSe/GaAs Quantum Dot Intermediate Band Solar Cell (QDIBSC). , 2018, , . | | 4 |
| 184 | Transformation of Conventional Houses to Smart Homes by Adopting Demand Response Program in Smart Grid. , 2018, , . | | 1 |
| 185 | Deposition and characterization of RF-sputtered-Ta2O5 thin films for O2 reduction reaction in polymer electrolyte membrane fuel cells (PEMFC). Optik, 2018, 170, 295-303. | 2.9 | 5 |
| 186 | Cost effective thermoelectric composites from recycled carbon fibre: From waste to energy. Journal of Cleaner Production, 2018, 195, 1015-1025. | 9.3 | 34 |
| 187 | Properties of sputtered ZnS thin films for photovoltaic application. Materials Research Express, 2018, 5, 096409. | 1.6 | 17 |
| 188 | Synthesis of sphere-like-crystal CdS powder and thin films using chemical residue in chemical bath deposition (CBD) for thin film solar cell application. Solar Energy, 2018, 173, 120-125. | 6.1 | 13 |
| 189 | A comparative study on thermally and laser annealed copper and silver doped CdTe thin film solar cells. Solar Energy, 2018, 173, 1-6. | 6.1 | 14 |
| 190 | The role of existing infrastructure of fuel stations in deploying solar charging systems, electric vehicles and solar energy: A preliminary analysis. Technological Forecasting and Social Change, 2018, 137, 317-326. | 11.6 | 33 |
| 191 | A review of thermoelectric power generation systems: Roles of existing test rigs/ prototypes and their associated cooling units on output performance. Energy Conversion and Management, 2018, 174, 138-156. | 9.2 | 34 |
| 192 | Effect of laser annealing on thermally evaporated CdTe thin films for photovoltaic absorber application. Solar Energy, 2018, 173, 1051-1057. | 6.1 | 25 |
| 193 | Interplay between variable direct current sputtering deposition process parameters and properties of ZnO:Ga thin films. Thin Solid Films, 2018, 660, 538-545. | 1.8 | 13 |
| 194 | A computational study on the energy bandgap engineering in performance enhancement of CdTe thin film solar cells. Results in Physics, 2017, 7, 1066-1072. | 4.1 | 13 |
| 195 | Numerical modeling of SnS ultra-thin solar cells. , 2017, , . | | 12 |
| 196 | Highly efficient ultra thin Cu(In, Ga)Se ₂ solar cell with Tin Selenide BSF. , 2017, , . | | 6 |
| 197 | Design of ultra-thin CZTS solar cells with indium selenide as buffer layer. , 2017, , . | | 7 |
| 198 | Performance improvement of highly stable molybdenum telluride solar cells with CZT BSF. , 2017, , . | | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 199 | Process optimisation for n-type Bi ₂ Te ₃ films electrodeposited on flexible recycled carbon fibre using response surface methodology. <i>Journal of Materials Science</i> , 2017, 52, 11467-11481. | 3.7 | 18 |
| 200 | Design prospects of cadmium telluride/silicon (CdTe/Si) tandem solar cells from numerical simulation. <i>Optik</i> , 2017, 139, 397-406. | 2.9 | 41 |
| 201 | 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. | 6.7 | 201 |
| 202 | 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. | 6.2 | 47 |
| 203 | Effects of RF magnetron sputtering deposition process parameters on the properties of molybdenum thin films. <i>Thin Solid Films</i> , 2017, 638, 213-219. | 1.8 | 52 |
| 204 | Influence of deposition temperature in the fabrication of CdTe thin films using RF magnetron sputtering. , 2017, , . | | 0 |
| 205 | Surface morphological properties of Cd _x Zn(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. | 0.6 | 1 |
| 206 | Growth of MoO _x nanobelts from molybdenum bi-layer thin films for thin film solar cell application. <i>Thin Solid Films</i> , 2017, 621, 240-246. | 1.8 | 15 |
| 207 | Prospects for introducing hydrogen fuel cell vehicles in Malaysia. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 9125-9134. | 7.1 | 50 |
| 208 | Modeling and simulation of highly efficient ultra-thin CIGS solar cell with MoSe ₂ tunnel. , 2017, , . | | 2 |
| 209 | Modeling of high efficient perovskite-Si tandem solar cell. , 2017, , . | | 4 |
| 210 | Study of ultra-thin and stable alsb solar cell with potential copper telluride BSF. , 2017, , . | | 3 |
| 211 | Effect of Different Solar Radiation Data Sources on the Variation of Techno-Economic Feasibility of PV Power System. <i>E3S Web of Conferences</i> , 2017, 23, 01007. | 0.5 | 1 |
| 212 | Concise Approach for Determining the Optimal Annual Capacity Shortage Percentage using Techno-Economic Feasibility Parameters of PV Power System. <i>E3S Web of Conferences</i> , 2017, 23, 07003. | 0.5 | 0 |
| 213 | Solar Photovoltaic Technologies: From Inception Toward the Most Reliable Energy Resource. , 2017, , 11-26. | | 11 |
| 214 | Characterization of Transparent Conducting Carbon Nanotube Thin Films Prepared via Different Methods. <i>Sains Malaysiana</i> , 2017, 46, 1103-1109. | 0.5 | 6 |
| 215 | Prospects of Graphene as a Potential Carrier-Transport Material in Third-Generation Solar Cells. <i>Chemical Record</i> , 2016, 16, 614-632. | 5.8 | 14 |
| 216 | An investigation on copper doping to CdTe absorber layers in CdTe thin film solar cells. , 2016, , . | | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 217 | Study of molybdenum sulphide as a novel buffer layer for CZTS solar cells. , 2016, , . | | 10 |
| 218 | Design of highly stable and efficient molybdenum telluride PV cells with arsenic telluride BSF. , 2016, , . | | 12 |
| 219 | Enhancement the performance of Molybdenum Telluride solar cells with Zinc Telluride BSF. , 2016, , . | | 9 |
| 220 | High efficient and stable ultra-thin CdTe solar cell with a potential Copper Telluride BSF. , 2016, , . | | 11 |
| 221 | Solar powered ferry boat for the rural area of Bangladesh. , 2016, , . | | 11 |
| 222 | Modeling of Cu$_{2}$/ZnSnS$_{4}$ solar cells with Bismuth Sulphide as a potential buffer layer. , 2016, , . | | 8 |
| 223 | Silicon back contact solar cell configuration: A pathway towards higher efficiency. Renewable and Sustainable Energy Reviews, 2016, 60, 1516-1532. | 16.4 | 57 |
| 224 | High performance and stable molybdenum telluride PV cells with Indium Telluride BSF. , 2016, , . | | 16 |
| 225 | 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. | 4.0 | 10 |
| 226 | Investigation of the annealing time effects on Cu deposited CdTe thin films for photovoltaic application. , 2015, , . | | 0 |
| 227 | Nanostructured and wide bandgap CdS:O thin films grown by reactive RF sputtering. AIP Conference Proceedings, 2015, , . | 0.4 | 2 |
| 228 | Effects on crystal structure of CZTS thin films owing to deionized water and sulfurization treatment. AIP Conference Proceedings, 2015, , . | 0.4 | 0 |
| 229 | Design of high performance and ultra-thin CdTe solar cells with SnTe BSF from numerical analysis. , 2015, , . | | 7 |
| 230 | Structural and electrical characteristics of room temperature sputtered ZnO. , 2015, , . | | 0 |
| 231 | Fabrication and Analysis of Micro Contact Based Probe Cell for IC Testing. Research Journal of Applied Sciences, Engineering and Technology, 2015, 10, 376-384. | 0.1 | 0 |
| 232 | Study on the prospects of Sb ₂ Te ₃ back surface field in ZnCdS/ZnCdTe thin film solar cell. , 2015, , . | | 1 |
| 233 | 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 |
| 234 | Numerical analysis of hybrid perovskite solar cells using inorganic hole conducting material. , 2015, , . | | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 235 | Influence of laser wavelength variation on the laser annealed CdTe thin films grown by thermal evaporation. , 2015, , . | | 1 |
| 236 | Effect of deposition power in fabrication of highly efficient CdS:O/CdTe thin film solar cell by the magnetron sputtering technique. Materials Science in Semiconductor Processing, 2015, 40, 90-98. | 4.0 | 13 |
| 237 | Effect of oxidation on structural, optical and electrical properties of CdS thin films grown by sputtering. Optik, 2015, 126, 3177-3180. | 2.9 | 46 |
| 238 | Analysis of absorber layer properties effect on CIGS solar cell performance using SCAPS. Optik, 2015, 126, 681-686. | 2.9 | 76 |
| 239 | Recent advances in utilization of graphene for filtration and desalination of water: A review. Desalination, 2015, 365, 389-397. | 8.2 | 205 |
| 240 | Phase transformation from cubic ZnS to hexagonal ZnO by thermal annealing. Journal of Semiconductors, 2015, 36, 033001. | 3.7 | 8 |
| 241 | Effects of sulfurization temperature on Cu ₂ ZnSnS ₄ thin film deposited by single source thermal evaporation method. Japanese Journal of Applied Physics, 2015, 54, 08KC18. | 1.5 | 19 |
| 242 | Properties of a-SiGe Thin Films on Glass by Co-Sputtering for Photovoltaic Absorber Application. Journal of Nanoscience and Nanotechnology, 2015, 15, 9275-9280. | 0.9 | 11 |
| 243 | 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 |
| 244 | Bulk substrate porosity verification by applying Monte Carlo modeling and Castaing's formula using energy-dispersive x-rays. Journal of Electronic Imaging, 2015, 24, 061105. | 0.9 | 3 |
| 245 | 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 |
| 246 | Design of high efficient and stable ultra-thin CdTe solar cells with ZnTe as a potential BSF. , 2015, , . | | 12 |
| 247 | Growth and characterization of RF-sputtered ZnS thin film deposited at various substrate temperatures for photovoltaic application. Applied Surface Science, 2015, 334, 138-144. | 6.1 | 90 |
| 248 | Annealing effect in structural and electrical properties of sputtered Mo thin film. Applied Surface Science, 2015, 334, 129-137. | 6.1 | 41 |
| 249 | Deposition of Micro Contact Based Probe Cell for IC Testing by Dc Magnetron Sputtering Technique. Research Journal of Applied Sciences, Engineering and Technology, 2014, 7, 2701-2704. | 0.1 | 2 |
| 250 | Prospects of Zinc Sulphide as an alternative buffer layer for CZTS solar cells from numerical analysis. , 2014, , . | | 11 |
| 251 | Postdeposition Annealing Effect on Cu ₂ ZnSnS ₄ Thin Films Grown at Different Substrate Temperature. International Journal of Photoenergy, 2014, 2014, 1-7. | 2.5 | 7 |
| 252 | An Integrated Hybrid Energy Harvester for Autonomous Wireless Sensor Network Nodes. International Journal of Photoenergy, 2014, 2014, 1-8. | 2.5 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 253 | Nd:YAG Laser Texturization on Silicon Surface. <i>Advanced Materials Research</i> , 2014, 894, 201-205. | 0.3 | 3 |
| 254 | Prospects of novel CdZnTe thin film solar cells from numerical analysis. , 2014, , . | | 2 |
| 255 | Design optimization of CdTe thin film solar cells from numerical analysis. , 2014, , . | | 9 |
| 256 | Influence of thermal annealing on CdTe thin film deposited by thermal evaporation technique. , 2014, , . | | 3 |
| 257 | Synthesis and Characterization of Silver Nanoparticles and Silver Inks: Review on the Past and Recent Technology Roadmaps. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 3541-3550. | 2.5 | 38 |
| 258 | Analysis on Multiple Perforated Plate Sound Absorber Made of Coir Fiber. <i>International Journal of Acoustics and Vibrations</i> , 2014, 19, . | 0.3 | 5 |
| 259 | Characterization of Si nanowires synthesized using metal-assisted wet-chemical etching. <i>Malaysian Journal of Fundamental and Applied Sciences</i> , 2014, 8, . | 0.8 | 1 |
| 260 | Comparison of Structural and Optical Properties of CdS Thin Films Grown by CSVT, CBD and Sputtering Techniques. <i>Energy Procedia</i> , 2013, 33, 203-213. | 1.8 | 93 |
| 261 | Effect of CdCl ₂ treatment on physical properties of CdTe films with different compositions fabricated by chemical molecular beam deposition. <i>Applied Solar Energy (English Translation of Geliotekhnika)</i> , 2013, 49, 35-39. | 1.6 | 14 |
| 262 | High quality 1 μ m thick CdTe absorber layers grown by magnetron sputtering for solar cell application. <i>Current Applied Physics</i> , 2013, 13, S115-S121. | 2.4 | 55 |
| 263 | Effect of Annealing on the Properties of Zn _x Cd _{1-x} S Thin Film Growth by RF Magnetron Co-sputtering. <i>Energy Procedia</i> , 2013, 33, 214-222. | 1.8 | 24 |
| 264 | An Investigation on Structural and Electrical Properties of RF-Sputtered Molybdenum Thin Film Deposited on Different Substrates. <i>Energy Procedia</i> , 2013, 33, 186-197. | 1.8 | 20 |
| 265 | Broadband photon harvesting capability enhancement with plasmonic inspired nanostructure based solar cell. , 2013, , . | | 0 |
| 266 | CdZnTe thin films growth by RF sputtering for CdTe solar cells. , 2013, , . | | 3 |
| 267 | Numerical modeling and analysis of CdS/Cd _{1-x} Zn _x Te solar cells as a function of CdZnTe doping, lifetime and thickness. , 2013, , . | | 4 |
| 268 | Effect of p-type transition metal dichalcogenide molybdenum ditelluride (p-MoTe ₂) layer formation in Cadmium Telluride solar cells from numerical analysis. , 2013, , . | | 4 |
| 269 | Effects of germanium layer on silicon/germanium superlattice solar cells. , 2013, , . | | 3 |
| 270 | Growth optimization of Zn _x Cd _{1-x} S thin films by radio frequency magnetron co-sputtering for solar cell applications. <i>Thin Solid Films</i> , 2013, 548, 202-209. | 1.8 | 26 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 271 | Silicon Nitride Passivation of Silicon Nanowires Solar Cell. Journal of Physics: Conference Series, 2013, 431, 012021. | 0.4 | 5 |
| 272 | Effect of CdCl ₂ treatment on structural and electronic property of CdTe thin films deposited by magnetron sputtering. Thin Solid Films, 2013, 546, 367-374. | 1.8 | 53 |
| 273 | Research and development aspects on decentralized electrification options for rural household. Renewable and Sustainable Energy Reviews, 2013, 24, 314-324. | 16.4 | 86 |
| 274 | Design of a cost-efficient solar energy based electrical power generation system for a remote Island - Pulau Perhentian Besar in Malaysia. , 2013, , . | | 10 |
| 275 | Effect of substrate temperature on the growth of CZTS thin films by RF magnetron sputtering. , 2013, , . | | 0 |
| 276 | ZnO doping profile effect on CIGS solar cells efficiency and parasitic resistive losses based on cells equivalent circuit. , 2013, , . | | 8 |
| 277 | Potential buffer layers for Cu ₂ ZnSnS ₄ (CZTS) solar cells from numerical analysis. , 2013, , . | | 6 |
| 278 | Revolutionary novel and low cost CMBD method for fabrication of CdTe absorber layer for use in thin film solar cells. Materials Technology, 2013, 28, 15-20. | 3.0 | 8 |
| 279 | Mathematical Modeling of Growth Conditions and Interpretation of Phase Diagram for In _x Ga _{1-x} N Epitaxial Layer. Applied Mechanics and Materials, 2013, 372, 70-74. | 0.2 | 2 |
| 280 | Numerical Analysis of Novel Back Surface Field for High Efficiency Ultrathin CdTe Solar Cells. International Journal of Photoenergy, 2013, 2013, 1-8. | 2.5 | 27 |
| 281 | Effect of growth techniques on the properties of CdTe thin films for photovoltaic application. , 2013, , . | | 1 |
| 282 | High performance In _x Ga _{1-x} N Tandem solar cells designed from numerical analysis. , 2013, , . | | 3 |
| 283 | Structural electrical and optical properties of Zn rich CZTS thin film. , 2013, , . | | 1 |
| 284 | A comparative study on ZnS thin films grown by thermal evaporation and magnetron sputtering. , 2013, , . | | 3 |
| 285 | Recent Developments of Flexible CdTe Solar Cells on Metallic Substrates: Issues and Prospects. International Journal of Photoenergy, 2012, 2012, 1-10. | 2.5 | 28 |
| 286 | Design of MEMS Based Energy Harvester to Profile Environmental Parameter Using Autonomous WSN Components. Applied Mechanics and Materials, 2012, 152-154, 1846-1851. | 0.2 | 0 |
| 287 | Absorption performance of the micro concentrating photovoltaic with multimode waveguide and slanted micro-hole cell. , 2012, , . | | 0 |
| 288 | Amorphous Silicon Single-Junction Thin-Film Solar Cell Exceeding 10% Efficiency by Design Optimization. International Journal of Photoenergy, 2012, 2012, 1-7. | 2.5 | 55 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 289 | Solar Energy: Materials, Devices, and Applications. Advances in Materials Science and Engineering, 2012, 2012, 1-1. | 1.8 | 4 |
| 290 | High quality indium tin oxide (ITO) film growth by controlling pressure in RF magnetron sputtering. , 2012, , . | | 3 |
| 291 | Effects of Transition Metal Dichalcogenide Molybdenum Disulfide Layer Formation in Copperâ€Zincâ€Tinâ€Sulfur Solar Cells from Numerical Analysis. Japanese Journal of Applied Physics, 2012, 51, 10NC32. | 1.5 | 16 |
| 292 | Effects of thermal annealing on structural and optical properties of sputtered CdS thin films for photovoltaic application. , 2012, , . | | 8 |
| 293 | Low complexity non decision directed blind carrier phase recovery algorithm for 16-QAM optical coherent receiver. , 2012, , . | | 5 |
| 294 | Numerical Modelling of Ultra Thin Cu(In,Ga)Se ₂ Solar Cells. Energy Procedia, 2012, 15, 291-298. | 1.8 | 60 |
| 295 | Influence of Annealing Temperature on the Properties of ZnO Thin Films Grown by Sputtering. Energy Procedia, 2012, 25, 55-61. | 1.8 | 66 |
| 296 | Research and development aspects of pico-hydro power. Renewable and Sustainable Energy Reviews, 2012, 16, 5861-5878. | 16.4 | 64 |
| 297 | Evaluation of Studentsâ€™ Achievement in the Final Exam Questions for Microelectronic (KKKL3054) using the Rasch Model. Procedia, Social and Behavioral Sciences, 2012, 60, 119-123. | 0.5 | 4 |
| 298 | Comparative study of ZnS thin films grown by chemical bath deposition and magnetron sputtering. , 2012, , . | | 10 |
| 299 | Effect of the composition on physical properties of CdTe absorber layer fabricated by chemical molecular beam deposition for use in thin film solar cells. Journal of Applied Physics, 2012, 112, 023517. | 2.5 | 12 |
| 300 | An analysis on structural and optical properties of Zn<inf>x</inf>Cd<inf>1−x</inf>S thin film deposited by RF magnetron sputtering. , 2012, , . | | 1 |
| 301 | A practical acoustical absorption analysis of coir fiber based on rigid frame modeling. Acoustical Physics, 2012, 58, 246-255. | 1.0 | 12 |
| 302 | Effects of Transition Metal Dichalcogenide Molybdenum Disulfide Layer Formation in Copperâ€Zincâ€Tinâ€Sulfur Solar Cells from Numerical Analysis. Japanese Journal of Applied Physics, 2012, 51, 10NC32. | 1.5 | 22 |
| 303 | Optical Absorption Enhancement in Slanted Micro-Hole C-Si for Photovoltaic Applications. , 2012, , . | | 1 |
| 304 | Mechanical design and analysis of innovative integrated circuit test socket. , 2011, , . | | 2 |
| 305 | Investigation of buffer layers, front and back contacts for Zn<inf>x</inf>Cd<inf>1−x</inf>S/CdTe photovoltaic. , 2011, , . | | 1 |
| 306 | Physical and optical properties of In<inf>2</inf>S<inf>3</inf> thin films deposited by thermal evaporation technique for CIGS solar cells. , 2011, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 307 | The Effect on Physical, Electrical and Structural Parameters of RF Sputtered Molybdenum Thin Film. <i>Advanced Materials Research</i> , 2011, 403-408, 5092-5096. | 0.3 | 1 |
| 308 | A numerical model for the simulation of double-diffusive natural convection in a triangular solar collector. , 2011, , . | | 2 |
| 309 | The Effect of Rapid Thermal Annealing Towards the Performance of Screen-Printed Si Solar Cell. <i>American Journal of Applied Sciences</i> , 2011, 8, 267-270. | 0.2 | 5 |
| 310 | A Review on Progress of Amorphous and Microcrystalline Silicon Thin-Film Solar Cells. <i>Recent Patents on Electrical Engineering</i> , 2011, 4, 50-62. | 0.4 | 11 |
| 311 | ZnIn/CdS as prospective window layer in CdTe thin film solar cells from numerical analysis. , 2011, , . | | 4 |
| 312 | Design aspects of small-scale photovoltaic brackish water reverse osmosis (PV-BWRO) system. <i>Desalination and Water Treatment</i> , 2011, 27, 210-223. | 1.0 | 8 |
| 313 | Numerical analysis on ZnIn/CdS/CdTe solar cells with different buffer layers, front and back contacts. , 2011, , . | | 1 |
| 314 | Promises of Cu (In, Ga)Se ₂ Thin Film Solar Cells from the Perspective of Material Properties, Fabrication Methods and Current Research Challenges. <i>Journal of Applied Sciences</i> , 2011, 11, 401-410. | 0.3 | 14 |
| 315 | Performance analysis of copperInGadiselenide (CIGS) solar cells with various buffer layers by SCAPS. <i>Current Applied Physics</i> , 2010, 10, S387-S391. | 2.4 | 143 |
| 316 | Effect of structural variations in amorphous silicon based single and multi-junction solar cells from numerical analysis. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 1542-1545. | 6.2 | 29 |
| 317 | Prospects of novel front and back contacts for high efficiency cadmium telluride thin film solar cells from numerical analysis. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 1496-1500. | 6.2 | 64 |
| 318 | Prospects of Back Surface Field Effect in Ultra-Thin High-Efficiency CdS/CdTe Solar Cells from Numerical Modeling. <i>International Journal of Photoenergy</i> , 2010, 2010, 1-8. | 2.5 | 32 |
| 319 | Computer Aided Design of an Active Notch Filter for HF Band RFID. <i>Frequenz</i> , 2010, 64, . | 0.9 | 1 |
| 320 | Characterization of thin GaAs films grown on nanostructured silicon substrates. , 2010, , . | | 2 |
| 321 | Optical absorption in microstructured crystalline silicon thin films. , 2010, , . | | 1 |
| 322 | The Optimization Aspect of Screen Printed Si Solar Cell. <i>ECS Transactions</i> , 2010, 27, 1117-1122. | 0.5 | 0 |
| 323 | Prospects of CuZnSnS (CZTS) solar cells from numerical analysis. , 2010, , . | | 17 |
| 324 | Optimization on Junction Formation by Three-Stack Furnace POCl ₃ Diffusion and Analysis on Solar Cell Performance. <i>ECS Transactions</i> , 2010, 27, 1053-1059. | 0.5 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 325 | RFID reader design: Diminutive dependency of antenna orientation exploiting revolving field. , 2010, , . | | 1 |
| 326 | Effect of Different Factors on the Acoustic Absorption of Coir Fiber. Journal of Applied Sciences, 2010, 10, 2887-2892. | 0.3 | 42 |
| 327 | Effect of Plasma Cleaning Process in the Wettability of Flip Chip PBGA Substrate of Integrated Circuit Packages. Journal of Applied Sciences, 2010, 10, 772-776. | 0.3 | 10 |
| 328 | Electroplating of plasma doped back surface contact silicon solar cells. , 2009, , . | | 0 |
| 329 | Investigation of optical absorption in thin-film Si/Ge solar cells. , 2009, , . | | 1 |
| 330 | Semiconductor final test fixture design with microstructure alloy contacts using Finite Element Analysis. , 2009, , . | | 4 |
| 331 | Investigation of different buffer layers, front and back contacts for CdS/CdTe PV from numerical analysis. , 2009, , . | | 2 |
| 332 | A practical investigation on nickel plated copper heat spreader with different catalytic activation processes for flip-chip ball grid array packages. Microelectronics Reliability, 2009, 49, 537-543. | 1.7 | 7 |
| 333 | A practical field study of various solar cells on their performance in Malaysia. Renewable Energy, 2009, 34, 1939-1946. | 8.9 | 92 |
| 334 | Performance of a PV–wind hybrid system for hydrogen production. Renewable Energy, 2009, 34, 1973-1978. | 8.9 | 97 |
| 335 | Microcontroller based smart charge controller for standalone solar photovoltaic power systems. , 2009, , . | | 9 |
| 336 | Enhancing the efficiency of CdTe thin film solar cells by inserting novel back contact buffer layers. , 2009, , . | | 0 |
| 337 | A numerical analysis on CdS:O window layer for higher efficiency CdTe solar cells. , 2009, , . | | 6 |
| 338 | Analysis of high efficiency amorphous silicon single and multijunction solar cells. , 2009, , . | | 0 |
| 339 | BGA lead-free C5 solder system improvement by Germanium addition to Sn3.5Ag and Sn-3.8Ag-0.7Cu solder alloy. , 2009, , . | | 4 |
| 340 | The Temperature Dependence Coefficients of Amorphous Silicon and Crystalline Photovoltaic Modules Using Malaysian Field Test Investigation. American Journal of Applied Sciences, 2009, 6, 586-593. | 0.2 | 10 |
| 341 | Modeling the Effect of P-N Junction Depth on the Output of Planer and Rectangular Textured Solar Cells. American Journal of Applied Sciences, 2009, 6, 667-671. | 0.2 | 3 |
| 342 | A Novel Active Sun Tracking Controller for Photovoltaic Panels. Journal of Applied Sciences, 2009, 9, 4050-4055. | 0.3 | 18 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 343 | Fast Clock Tree Generation Using Exact Zero Skew Clock Routing Algorithm. Journal of Applied Sciences, 2009, 9, 2150-2155. | 0.3 | 0 |
| 344 | RF MEMS tunable filter: Design, simulation and fabrication process. , 2008, , . | | 1 |
| 345 | An efficient first order sigma delta modulator design. Canadian Conference on Electrical and Computer Engineering, 2008, , . | 0.0 | 2 |
| 346 | Zero skew clock routing for fast clock tree generation. Canadian Conference on Electrical and Computer Engineering, 2008, , . | 0.0 | 7 |
| 347 | Development of cost effective charge controller with data acquisition options for PV powered sensor nodes. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , . | 0.0 | 6 |
| 348 | Microcontroller based standalone PV system for wireless sensor node. , 2008, , . | | 6 |
| 349 | The effect of clean and no-clean flux in enhancing the wettability of eutectic solder bump flip chip PBGA. , 2008, , . | | 3 |
| 350 | Implementation of novel reflow profile of no-clean fluxes to enhance flux stability and oxide layer removal of the high lead solder bump. , 2008, , . | | 1 |
| 351 | A practical investigation on the root causes of the mechanical damages of pogo pin type test sockets to IC packages in final test. , 2008, , . | | 13 |
| 352 | A Study of Lead-Free BGA Backward Compatibility Through Solderability Testing at Component Level. , 2008, , . | | 0 |
| 353 | A Study of SnAgNiCo vs Sn3.8AgO. 7Cu C5 Lead Free Solder Alloy on Mechanical Strength of BGA Solder Joint. , 2008, , . | | 6 |
| 354 | An approach on underfill material selection for the low-k Flip Chip Plastic Ball Grid Array (FCPBGA). , 2008, , . | | 1 |
| 355 | An investigation of three-dimensional texturing in silicon solar cells for enhanced optical absorption. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , . | 0.0 | 0 |
| 356 | Characterization of nickel plated copper heat spreaders with different catalytic activation processes for flip-chip ball grid array package. , 2008, , . | | 0 |
| 357 | Effect of treated silver nanoparticles to electrical conductivity improvement of electrically conductive adhesive (ECA)., 2008, , . | | 1 |
| 358 | Plasma implantation of silicon solar cells for emitter and localized BSF formation. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , . | 0.0 | 1 |
| 359 | Can silicon photovoltaics be a cottage industry?. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , . | 0.0 | 0 |
| 360 | Code rate-diversity tradeoff with linear block codes for MIMO wireless systems. , 2008, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 361 | Absorption enhancement in thin-film silicon solar cells in SOI configuration using physical and geometrical optics. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , . | 0.0 | 1 |
| 362 | Lead-free solder ball attach improvement on FCPBGA with SOP pad finishing. , 2008, , . | | 0 |
| 363 | A comparison study on SnAgNiCo and Sn _{3.8} Ag _{0.7} Cu C5 lead free solder system. , 2008, , . | | 0 |
| 364 | Direct sequence ultra wideband system design for wireless sensor network. , 2008, , . | | 2 |
| 365 | A study of lead-free BGA backward compatibility through solderability testing at component level. , 2008, , . | | 0 |
| 366 | FCPBGA with SOP Pad Finishing A Study of Lead-Free Solder Ball Attach Improvement. , 2008, , . | | 0 |
| 367 | Numerical Modeling of the Copper-Indium-Selenium (CIS) based Solar Cell Performance by AMPS-1D. , 2007, , . | | 4 |
| 368 | Design and Optimization of Power Rectifiers for Passive RFID Systems in Monolithic CMOS Circuit. , 2007, , . | | 1 |
| 369 | Interface development for cost effective automated IC orientation checking systems. , 2007, , . | | 2 |
| 370 | VLSI implementation of Inverse Discrete Wavelet Transform for JPEG 2000. , 2007, , . | | 1 |
| 371 | A BPSK Backscatter Modulator Design for RFID Passive Tags. , 2007, , . | | 8 |
| 372 | Numerical modeling of CdS/CdTe and CdS/CdTe/ZnTe solar cells as a function of CdTe thickness. Solar Energy Materials and Solar Cells, 2007, 91, 1202-1208. | 6.2 | 173 |
| 373 | Prospective development in diffusion barrier layers for copper metallization in LSI. Microelectronics Journal, 2007, 38, 777-782. | 2.0 | 35 |
| 374 | Effect of ZnTe and CdZnTe Alloys at the Back Contact of 1- μ m-Thick CdTe Thin Film Solar Cells. Japanese Journal of Applied Physics, 2002, 41, 2834-2841. | 1.5 | 55 |
| 375 | Highly efficient 1 $\frac{1}{4}$ μ m thick CdTe solar cells with textured TCOs. Solar Energy Materials and Solar Cells, 2001, 67, 195-201. | 6.2 | 75 |
| 376 | Prospects of Thickness Reduction of the CdTe Layer in Highly Efficient CdTe Solar Cells Towards 1 μ m. Japanese Journal of Applied Physics, 1999, 38, 4666-4672. | 1.5 | 30 |
| 377 | Characterization of Highly Efficient CdTe Thin Film Solar Cells by Low-Temperature Photoluminescence. Japanese Journal of Applied Physics, 1998, 37, 3894-3899. | 1.5 | 51 |
| 378 | Photoluminescence study of highly efficient CdTe thin film solar cells. , 0, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 379 | ZnTe insertion at the back contact of 1 μ m-CdTe thin film solar cells. , 0, , . | | 0 |
| 380 | Investigation for Optimum Structure of CdS:O/CdTe Solar Cell from Numerical Analysis. Advanced Materials Research, 0, 622-623, 1194-1198. | 0.3 | 5 |
| 381 | Towards Ultra Thin and High Efficiency ZnxCd1-xS/CdTe Solar Cell by AMPS 1D. Advanced Materials Research, 0, 622-623, 1183-1187. | 0.3 | 0 |
| 382 | Influence of RF Power in the Growth of Aluminium Zinc Oxide (AZO) Thin Films by RF Sputtering. Advanced Materials Research, 0, 925, 295-299. | 0.3 | 2 |
| 383 | A Comparative Study between Silicon Germanium and Germanium Solar Cells by Numerical Simulation. Applied Mechanics and Materials, 0, 761, 341-346. | 0.2 | 2 |
| 384 | Closeâ€‘paced Sublimation (CSS): A Lowâ€‘Cost, Highâ€‘Yield Deposition System for Cadmium Telluride (CdTe) Thin Film Solar Cells. , 0, , . | | 4 |
| 385 | Assessing the Impact of Spectral Irradiance on the Performance of Different Photovoltaic Technologies. , 0, , . | | 3 |