

Ian Forbes

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4092461/publications.pdf>

Version: 2024-02-01

51
papers

2,935
citations

394421

19
h-index

223800

46
g-index

51
all docs

51
docs citations

51
times ranked

3997
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Inorganic photovoltaic cells. <i>Materials Today</i> , 2007, 10, 20-27. | 14.2 | 1,135 |
| 2 | New routes to sustainable photovoltaics: evaluation of $\text{Cu}_2\text{ZnSnS}_4$ as an alternative absorber material. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 1772-1778. | 1.5 | 322 |
| 3 | $\text{Cu}_2\text{ZnSnSe}_4$ thin film solar cells produced by selenisation of magnetron sputtered precursors. <i>Progress in Photovoltaics: Research and Applications</i> , 2009, 17, 315-319. | 8.1 | 276 |
| 4 | Photovoltaic solar cells: An overview of state-of-the-art cell development and environmental issues. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2005, 51, 1-42. | 4.0 | 229 |
| 5 | Thermally evaporated thin films of SnS for application in solar cell devices. <i>Thin Solid Films</i> , 2009, 517, 4702-4705. | 1.8 | 125 |
| 6 | Thin films of tin sulphide for use in thin film solar cell devices. <i>Thin Solid Films</i> , 2009, 517, 2485-2488. | 1.8 | 83 |
| 7 | <i>V</i> Boosting and Grain Growth Enhancing Ge-Doping Strategy for $\text{Cu}_2\text{ZnSnSe}_4$ Photovoltaic Absorbers. <i>Journal of Physical Chemistry C</i> , 2016, 120, 9661-9670. | 3.1 | 69 |
| 8 | Annealing studies and electrical properties of SnS-based solar cells. <i>Thin Solid Films</i> , 2011, 519, 7425-7428. | 1.8 | 57 |
| 9 | Electrical, morphological and structural properties of RF magnetron sputtered Mo thin films for application in thin film photovoltaic solar cells. <i>Journal of Materials Science</i> , 2011, 46, 4913-4921. | 3.7 | 52 |
| 10 | Revealing the beneficial effects of Ge doping on $\text{Cu}_2\text{ZnSnSe}_4$ thin film solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11759-11772. | 10.3 | 46 |
| 11 | Single Phase, Large Grain, p-Conductivity-type SnS Layers Produced using the Thermal Evaporation Method. <i>Energy Procedia</i> , 2012, 15, 354-360. | 1.8 | 36 |
| 12 | Electronic and structural characterisation of Cu_3BiS_3 thin films for the absorber layer of sustainable photovoltaics. <i>Thin Solid Films</i> , 2014, 562, 195-199. | 1.8 | 36 |
| 13 | Impact of Interstitial Ni on the Thermoelectric Properties of the Half-Heusler TiNiSn . <i>Materials</i> , 2018, 11, 536. | 2.9 | 35 |
| 14 | Chalcogenisation of $\text{Cu}^{\text{II}}\text{Sb}$ metallic precursors into $\text{Cu}_3\text{Sb}(\text{SexS}_{1-x})_3$. <i>Solar Energy Materials and Solar Cells</i> , 2013, 113, 186-194. | 6.2 | 34 |
| 15 | Effect of composition gradient in $\text{Cu}(\text{In,Al})\text{Se}_2$ solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 922-925. | 6.2 | 31 |
| 16 | The potential of thermophotovoltaic heat recovery for the UK industry. <i>International Journal of Ambient Energy</i> , 2004, 25, 19-25. | 2.5 | 27 |
| 17 | Simplified levelised cost of the domestic photovoltaic energy in the UK: the importance of the feed-in tariff scheme. <i>IET Renewable Power Generation</i> , 2014, 8, 451-458. | 3.1 | 27 |
| 18 | Earth abundant thin film solar cells from co-evaporated Cu_2SnS_3 absorber layers. <i>Journal of Alloys and Compounds</i> , 2016, 689, 182-186. | 5.5 | 24 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Growth of high-quality CuInSe ₂ films by selenising sputtered Cu-In bilayers using a closed graphite box. Materials Letters, 1998, 37, 57-62. | 2.6 | 20 |
| 20 | Radiative recombination in Cu ₂ ZnSnSe ₄ thin films with Cu deficiency and Zn excess. Journal Physics D: Applied Physics, 2015, 48, 475109. | 2.8 | 20 |
| 21 | A combined model for PV system lifetime energy prediction and annual energy assessment. Solar Energy, 2019, 183, 738-744. | 6.1 | 20 |
| 22 | The influence of precursor Cu content and two-stage processing conditions on the microstructure of Cu ₂ ZnSnSe ₄ . Thin Solid Films, 2015, 582, 220-223. | 1.8 | 19 |
| 23 | A SOLAR CELL STACKED SLOT-LOADED SUSPENDED MICROSTRIP PATCH ANTENNA WITH MULTIBAND RESONANCE CHARACTERISTICS FOR WLAN AND WiMAX SYSTEMS. Progress in Electromagnetics Research, 2013, 142, 321-332. | 4.4 | 18 |
| 24 | Suppression of thermal conductivity without impeding electron mobility in n-type XNiSn half-Heusler thermoelectrics. Journal of Materials Chemistry A, 2019, 7, 27124-27134. | 10.3 | 18 |
| 25 | Rocking disc electro-deposition of CuIn alloys, selenisation, and pinhole effect minimisation in CuInSe solar absorber layers. Electrochimica Acta, 2012, 79, 141-147. | 5.2 | 14 |
| 26 | Optical spectroscopy studies of Cu ₂ ZnSnSe ₄ thin films. Thin Solid Films, 2015, 582, 154-157. | 1.8 | 14 |
| 27 | Crystallographic properties and elemental migration in two-stage prepared CuIn _{1-x} Al _x Se ₂ thin films for photovoltaic applications. Journal of Alloys and Compounds, 2013, 566, 180-186. | 5.5 | 12 |
| 28 | A meshed multiband solar patch array antenna. , 2012, , . | | 10 |
| 29 | Production of high quality CuInSe ₂ thin films from magnetron sputtered ultra-thin Cu-In multilayers. Journal of Materials Science Letters, 1996, 15, 478-481. | 0.5 | 9 |
| 30 | Deposition and Characterization of Copper Chalcopyrite Based Solar Cells using Electrochemical Techniques. ECS Transactions, 2007, 6, 535-546. | 0.5 | 9 |
| 31 | Short-term performance variations of different photovoltaic system technologies under the humid subtropical climate of Kanpur in India. IET Renewable Power Generation, 2015, 9, 438-445. | 3.1 | 9 |
| 32 | CuInSe ₂ precursor films electro-deposited directly onto MoSe ₂ . Journal of Electroanalytical Chemistry, 2010, 645, 16-21. | 3.8 | 8 |
| 33 | Metal-organic chemical vapor deposition of ultra-thin photovoltaic devices using a pyrite based structure. Thin Solid Films, 2011, 519, 7360-7363. | 1.8 | 8 |
| 34 | Evolution of phases in two-stage vacuum processed thin film Cu ₂ ZnSnSe ₄ absorber layers. Materials Research Innovations, 2014, 18, 515-518. | 2.3 | 8 |
| 35 | Investigation of the Structural, Optical and Electrical Properties of Cu ₃ BiS ₃ Semiconducting Thin Films. Energy Procedia, 2014, 60, 166-172. | 1.8 | 8 |
| 36 | Environmental assessment of vacuum and non-vacuum techniques for the fabrication of Cu ₂ ZnSnS ₄ thin film photovoltaic cells. Japanese Journal of Applied Physics, 2018, 57, 08RC14. | 1.5 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Title is missing!. Journal of Materials Science: Materials in Electronics, 2003, 14, 567-571. | 2.2 | 7 |
| 38 | Design of a highly efficient wideband suspended solar array antenna. , 2012, , . | | 7 |
| 39 | A solar parabolic reflector antenna design for digital satellite communication systems. , 2012, , . | | 7 |
| 40 | A triband short-circuited suspended solar patch antenna. , 2012, , . | | 6 |
| 41 | Effects of Ar+ etching of Cu ₂ ZnSnSe ₄ thin films: An x-ray photoelectron spectroscopy and photoluminescence study. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2018, 36, . | 1.2 | 6 |
| 42 | Rocking disc electro-deposition of copper films on Mo/MoSe ₂ substrates. Thin Solid Films, 2011, 519, 7458-7463. | 1.8 | 5 |
| 43 | Study of the Al-grading effect in the crystallisation of chalcopyrite CuIn ^x Al _{1-x} Se ₂ thin films. Materials Chemistry and Physics, 2013, 140, 236-242. | 4.0 | 5 |
| 44 | Effects of irradiation of ZnO/CdS/Cu ₂ ZnSnSe ₄ /Mo/glass solar cells by 10 Å MeV electrons on photoluminescence spectra. Materials Science in Semiconductor Processing, 2021, 121, 105301. | 4.0 | 4 |
| 45 | Title is missing!. Journal of Materials Science Letters, 2001, 20, 921-923. | 0.5 | 2 |
| 46 | Heat Transfer Modelling of Glass Media within TPV Systems. AIP Conference Proceedings, 2004, , . | 0.4 | 2 |
| 47 | Characterisation of thin film chalcogenide PV materials using MeV ion beam analysis. , 2009, , . | | 2 |
| 48 | A PL and PLE Study of High Cu Content Cu ₂ ZnSnSe ₄ Films on Mo/Glass and Solar Cells. Physics of the Solid State, 2019, 61, 908-917. | 0.6 | 2 |
| 49 | Diamond-doped silica aerogel for solar geoengineering. Diamond and Related Materials, 2021, 117, 108474. | 3.9 | 2 |
| 50 | New Chalcogenide Materials for Thin Film Solar Cells. RSC Energy and Environment Series, 2014, , 160-208. | 0.5 | 1 |
| 51 | Effects of selenisation temperature on photoluminescence and photoluminescence excitation spectra of ZnO/CdS/Cu ₂ ZnSnSe ₄ /Mo/glass. Thin Solid Films, 2019, 672, 146-151. | 1.8 | 1 |