

Ian Forbes

List of Publications by Year in descending order

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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	Effects of irradiation of ZnO/CdS/Cu ₂ ZnSnSe ₄ /Mo/glass solar cells by 10 ⁶ MeV electrons on photoluminescence spectra. <i>Materials Science in Semiconductor Processing</i> , 2021, 121, 105301.	4.0	4
2	Diamond-doped silica aerogel for solar geoengineering. <i>Diamond and Related Materials</i> , 2021, 117, 108474.	3.9	2
3	A PL and PLE Study of High Cu Content Cu ₂ ZnSnSe ₄ Films on Mo/Glass and Solar Cells. <i>Physics of the Solid State</i> , 2019, 61, 908-917.	0.6	2
4	A combined model for PV system lifetime energy prediction and annual energy assessment. <i>Solar Energy</i> , 2019, 183, 738-744.	6.1	20
5	Suppression of thermal conductivity without impeding electron mobility in n-type XNiSn half-Heusler thermoelectrics. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27124-27134.	10.3	18
6	Effects of selenisation temperature on photoluminescence and photoluminescence excitation spectra of ZnO/CdS/Cu ₂ ZnSnSe ₄ /Mo/glass. <i>Thin Solid Films</i> , 2019, 672, 146-151.	1.8	1
7	Effects of Ar ⁺ etching of Cu ₂ ZnSnSe ₄ thin films: An x-ray photoelectron spectroscopy and photoluminescence study. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018, 36, .	1.2	6
8	Revealing the beneficial effects of Ge doping on Cu ₂ ZnSnSe ₄ thin film solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11759-11772.	10.3	46
9	Environmental assessment of vacuum and non-vacuum techniques for the fabrication of Cu ₂ ZnSnSe ₄ thin film photovoltaic cells. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 08RC14.	1.5	8
10	Impact of Interstitial Ni on the Thermoelectric Properties of the Half-Heusler TiNiSn. <i>Materials</i> , 2018, 11, 536.	2.9	35
11	Boosting and Grain Growth Enhancing Ge-Doping Strategy for Cu ₂ ZnSnSe ₄ Photovoltaic Absorbers. <i>Journal of Physical Chemistry C</i> , 2016, 120, 9661-9670.	3.1	69
12	Earth abundant thin film solar cells from co-evaporated Cu ₂ SnS ₃ absorber layers. <i>Journal of Alloys and Compounds</i> , 2016, 689, 182-186.	5.5	24
13	Radiative recombination in Cu ₂ ZnSnSe ₄ thin films with Cu deficiency and Zn excess. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 475109.	2.8	20
14	The influence of precursor Cu content and two-stage processing conditions on the microstructure of Cu ₂ ZnSnSe ₄ . <i>Thin Solid Films</i> , 2015, 582, 220-223.	1.8	19
15	Short-term performance variations of different photovoltaic system technologies under the humid subtropical climate of Kanpur in India. <i>IET Renewable Power Generation</i> , 2015, 9, 438-445.	3.1	9
16	Optical spectroscopy studies of Cu ₂ ZnSnSe ₄ thin films. <i>Thin Solid Films</i> , 2015, 582, 154-157.	1.8	14
17	Evolution of phases in two-stage vacuum processed thin film Cu ₂ ZnSnSe ₄ absorber layers. <i>Materials Research Innovations</i> , 2014, 18, 515-518.	2.3	8
18	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

#	ARTICLE	IF	CITATIONS
19	New Chalcogenide Materials for Thin Film Solar Cells. RSC Energy and Environment Series, 2014, , 160-208.	0.5	1
20	Electronic and structural characterisation of Cu ₃ BiS ₃ thin films for the absorber layer of sustainable photovoltaics. Thin Solid Films, 2014, 562, 195-199.	1.8	36
21	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
22	Chalcogenisation of Cu-Sb metallic precursors into Cu ₃ Sb(SexS _{1-x}) ₃ . Solar Energy Materials and Solar Cells, 2013, 113, 186-194.	6.2	34
23	Crystallographic properties and elemental migration in two-stage prepared CuIn _{1-x} AlxSe ₂ thin films for photovoltaic applications. Journal of Alloys and Compounds, 2013, 566, 180-186.	5.5	12
24	Study of the Al-grading effect in the crystallisation of chalcopyrite CuIn _{1-x} AlxSe ₂ thin films. Materials Chemistry and Physics, 2013, 140, 236-242.	4.0	5
25	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
26	A meshed multiband solar patch array antenna. , 2012, , .		10
27	Design of a highly efficient wideband suspended solar array antenna. , 2012, , .		7
28	A triband short-circuited suspended solar patch antenna. , 2012, , .		6
29	Single Phase, Large Grain, p-Conductivity-type SnS Layers Produced using the Thermal Evaporation Method. Energy Procedia, 2012, 15, 354-360.	1.8	36
30	A solar parabolic reflector antenna design for digital satellite communication systems. , 2012, , .		7
31	Rocking disc electro-deposition of CuIn alloys, selenisation, and pinhole effect minimisation in CuSe solar absorber layers. Electrochimica Acta, 2012, 79, 141-147.	5.2	14
32	Rocking disc electro-deposition of copper films on Mo/MoSe ₂ substrates. Thin Solid Films, 2011, 519, 7458-7463.	1.8	5
33	Metal-organic chemical vapor deposition of ultra-thin photovoltaic devices using a pyrite based p-n structure. Thin Solid Films, 2011, 519, 7360-7363.	1.8	8
34	Annealing studies and electrical properties of SnS-based solar cells. Thin Solid Films, 2011, 519, 7425-7428.	1.8	57
35	Electrical, morphological and structural properties of RF magnetron sputtered Mo thin films for application in thin film photovoltaic solar cells. Journal of Materials Science, 2011, 46, 4913-4921.	3.7	52
36	CuInSe ₂ precursor films electro-deposited directly onto MoSe ₂ . Journal of Electroanalytical Chemistry, 2010, 645, 16-21.	3.8	8

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37	Characterisation of thin film chalcogenide PV materials using MeV ion beam analysis. , 2009, , .		2
38	Cu ₂ ZnSnSe ₄ thin film solar cells produced by selenisation of magnetron sputtered precursors. Progress in Photovoltaics: Research and Applications, 2009, 17, 315-319.	8.1	276
39	Thin films of tin sulphide for use in thin film solar cell devices. Thin Solid Films, 2009, 517, 2485-2488.	1.8	83
40	Thermally evaporated thin films of SnS for application in solar cell devices. Thin Solid Films, 2009, 517, 4702-4705.	1.8	125
41	Effect of composition gradient in Cu(In,Al)Se ₂ solar cells. Solar Energy Materials and Solar Cells, 2009, 93, 922-925.	6.2	31
42	New routes to sustainable photovoltaics: evaluation of Cu ₂ ZnSnS ₄ as an alternative absorber material. Physica Status Solidi (B): Basic Research, 2008, 245, 1772-1778.	1.5	322
43	Deposition and Characterization of Copper Chalcopyrite Based Solar Cells using Electrochemical Techniques. ECS Transactions, 2007, 6, 535-546.	0.5	9
44	Inorganic photovoltaic cells. Materials Today, 2007, 10, 20-27.	14.2	1,135
45	Photovoltaic solar cells: An overview of state-of-the-art cell development and environmental issues. Progress in Crystal Growth and Characterization of Materials, 2005, 51, 1-42.	4.0	229
46	Heat Transfer Modelling of Glass Media within TPV Systems. AIP Conference Proceedings, 2004, , .	0.4	2
47	The potential of thermophotovoltaic heat recovery for the UK industry. International Journal of Ambient Energy, 2004, 25, 19-25.	2.5	27
48	Title is missing!. Journal of Materials Science: Materials in Electronics, 2003, 14, 567-571.	2.2	7
49	Title is missing!. Journal of Materials Science Letters, 2001, 20, 921-923.	0.5	2
50	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
51	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