

B.A.L. Gwandu, D.J. Creasey. Pages 313-316 View PDF. Article preview. select article The theoretical and experimental investigation of the phase-change solar thermosyphon. ... Energy generation from biomass and waste in the Netherlands: A brief overview and perspective. H.A.M. Knoef, H.E.M. Stassen.

The use of solar energy by solar systems depends on several geometrical parameters. To increase the solar radiation reaching the solar panels, the panels of solar energy systems must install in ...

List of Selected Publications. 1. H. G. Ahmed., M.D. Magaji.M.E, Aken"Ova, and A. Abubakar (2000). Changes in in-Sacco dry matter degradability of gero and maiwa types of pearl millet (*Pennisetum glaucum* L) at different stages of growth.

Humidity is an ambient parameter which refracts, reflects and diffracts the direct visible solar radiation. This dispersion effect results in deterring the reception of the direct component of solar radiation by water vapour particles present in the atmosphere. Tropical Sudan Savannah region is known to be a hot climatic area with a highly humidified atmosphere. This paper investigates ...

This paper investigates the effect of humidity on the reception of solar radiation and the resulting effect on the generated electrical power in this climatic region. A monocrystalline ...

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Aug 1995; B.A.L. Gwandu; D.J. Creasey; Formal methods of design are neglected areas with very little current work. At present, requirements analysis and high-level design are rarely treated in a ...

B.A.L. Gwandu and D.J. Creasey. Renewable Energy, 1995, vol. 6, issue 3, 313-316 Abstract: Humidity is an ambient parameter which refracts, reflects and diffracts the direct visible solar radiation. This dispersion effect results in deterring the reception of the direct component of solar radiation by water vapour particles present in the ...

B. A. L. Gwandu and D. J. Creasey, "The Importance of Formal Specification in the Design of Hardware Systems," School of Electron & Electrical Engineering, Birmingham University, Birmingham, 1994. has been cited by the following article:

B.A.L. Gwandu's 20 research works with 658 citations and 524 reads, including: The co-measurement of curvature and temperature using a single LPG in a standard single mode fibre

DOI: 10.1049/EL:20020900 Corpus ID: 110452108; Microwave photonic filtering using Gaussian-profiled

superstructured fibre Bragg grating and dispersive fibre @article{Gwandu2002MicrowavePF, title={Microwave photonic filtering using Gaussian-profiled superstructured fibre Bragg grating and dispersive fibre}, author={Bashir A. L. Gwandu and ...

Zinc-air batteries deliver great potential as emerging energy storage systems but suffer from sluggish kinetics of the cathode oxygen redox reactions that render unsatisfactory cycling lifespan. The exploration on bifunctional electrocatalysts for oxygen reduction and evolution constitutes a key solution, where rational design strategies to ...

1. Introduction1.1. Employing solar energy for flight. Solar cells or photovoltaic (PV) cells, as devices of converting solar energy into electricity, were produced in the late 1950s, and throughout the 1960s were exclusively used to provide electrical power for earth-orbiting satellites [1]. Gradually as a result of technology advances, serious environmental awareness, growing ...

B. A. L. Gwandu and D. J. Creasey. Humidity: A factor in the appropriate positioning of a photovoltaic power station. ... Solar Energy, 6:313--316, 1999. Google Scholar [42] C. M. Tan, B. K. E. Chen, and K. P. Toh. Humidity study of a-si pv cell. Microelectronics Reliability, 50:1871--1874, 2010. ... Costa S Diniz A Kazmerski L (2018) Solar ...

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The first purpose of this paper is to present a brief introduction to the behavior and functioning of a PV device and write its basic equation, without the intention of providing an in-depth ...

In Proceedings of the Workshop on the Physics of Non-Conventional Energy Sources and Materials Science for Energy, pages 353--367, September 1985. Google Scholar B. Nimmo and SAM Said.

[18] B.A.L. Gwandu and D.J. Creasey. Humidity: A factor in the appropriate ... Renewable Energy, 6(3):313 - 316, 1995. World Renewable Energy Congress Climate Change, Energy and the Environment.

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B.A.L. Gwandu et al. Humidity: a factor in the appropriate positioning of a photovoltaic power station. *Renew Energy* (1995) S. Ghazi et al. The effect of weather conditions on the efficiency of PV panels in the southeast of UK. *Renew Energy* (2014) ... *Renew Energy* (2001) S.A.M. Said

As the energy transition progresses and solar photovoltaics (PV) comprise an ever-larger share of the global energy portfolio it will become increasingly important to improve predictions of electricity output, especially for large, utility-scale ground-mounted systems (Bhandari et al., 2015, Breyer et al., 2017, Agoua et al., 2018).

The use of photovoltaic solar energy has been growing remarkably over the last years due to environmental concerns and a decline in fossil fuel resources, increasing the ...

Humidity is an ambient parameter which refracts, reflects and diffracts the direct visible solar radiation. This dispersion effect results in deterring the reception of the direct component of ...

Highlights. o. In water vapor environment, the Si-Si bonds are more stretched under irradiation than those in vacuum. o. Water cluster is strongly couples to the surface of Si cluster ...

The Plateau department, where the first 25 MWp grid-connected solar plant was installed, is also an industrial cement zone, with high-energy demand, located in the south of Benin.

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Article citations More>>. Gwandu, B. and Creasey, D.J. (1995) Humidity: A Factor in the Appropriate Positioning of a Photovoltaic Power Station. *Renewable Energy*, 6, 313-316.

They suggest enhancing the use of various renewable energy resources such as solar, wind, bioenergy, and others [4, 5], and among these, solar energy is popular. It has the advantage of being free ...

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