Sofia Research Station Uses High-Efficiency Photovoltaic Cell Cabinets

NLR"s solar energy research leverages our expertise--from materials to systems to commercialization--to continually improve the affordability, performance, and reliability of this ...

Idaho National Laboratory

We are key players in developing low-cost, manufacturable techniques for increasing the efficiency of advanced silicon cells and are at the forefront of developing the highest-efficiency III-V ...

High-efficiency multijunction devices use multiple bandgaps, or junctions, that are tuned to absorb a specific region of the solar spectrum to create solar cells having record efficiencies over 45%.

The total power of laboratory equipment, PV power generation efficiency, and system cost of the field observation station were calculated and analyzed. The design scheme and scale of ...

We found that despite substantial delays in reaching operational capacity, SOFIA remains capable of contributing to the scientific body of knowledge and many in the science community view the ...

To understand when specific tandem architectures should be utilized, we evaluate the cost-effectiveness of different II-VI-based thin-film tandem solar cells and compare them to the SJ subcells.

Because these new instru-ments can be tested and adjusted, SOFIA can serve as a testbed for technology that may one day fly in space. The observatory can also be used to train NASA"s next ...

Although weather conditions such as heavy rain or snowfall may occasionally impact solar PV efficiency in Sofia, its location within the Northern Temperate Zone ensures sufficient sunlight ...

Search across a wide variety of disciplines and sources: articles, theses, books, abstracts and court opinions.

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