

the spherical glass solar energy generator uses the advantageous strategy of implementing a ball lens and specific geometrical structure to improve energy efficiency by 35%.

Solar energy collection has had some vast improvements over the last few years; however these new prototypes from German-born, Barcelona-based architect Andr s Broessel are quite striking since his ...

Unlike conventional flat solar cells, Sphelar's cell takes on a spherical shape, which makes it capable of power generation with greater efficiency. This tiny solar cell, measuring a mere 1-2 mm ...

Shaped as a sphere that functions like a magnifying glass, this spherical solar collector concentrates the incoming diffuse sunlight on its surface through the spherical lens to a collector containing solar ...

In order to obtain maximum energy from spherical lens, a microcontroller based spherical lens system has been developed that takes into account both solar azimuth and altitude angles. Thus, the sun ...

The spherical lens can also function during the night, utilizing the light from the moon to generate power. At night time, the spherical lens transforms into high-power lamps that illuminates the site by using a ...

Acting as a lens, the rig's large water-filled orb concentrates diffused daylight or moonlight onto a solar cell with the help of optical tracking to harvest electricity. In certain configurations, the apparatus can ...

Herein, a new design is presented where a liquid spherical lens acts as a secondary optical element of the concentrating solar system, refracting the light beam while participating in ...

His simple but effective sphere design incorporates different materials into a striking installation that delivers solar-generated electricity, even at night. The technology has real potential ...

The glass sphere is used to concentrate diffused sunlight into a small surface of tiny solar panels. The ball lens is able to concentrate and diffuse light on one small focal point, which means less material ...

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