How about photosynthetic solar power generation

DOI: 10.1016/J.JPOWSOUR.2017.03.014 Corpus ID: 99549656; Self-sustaining, solar-driven bioelectricity generation in micro-sized microbial fuel cell using co-culture of heterotrophic and photosynthetic bacteria

Three ways of converting solar energy into other forms of energy: (a) producing chemical fuel via artificial photosynthesis, (b) generating electricity by exciting electrons in a ...

Systems Biotechnology, Department of Solar Materials, Helmholtz Centre for Environmental Research, Leipzig, Germany; Biophotovoltaics is a relatively new discipline in microbial fuel cell research. ...

Natural photosynthesis holds great potential to generate clean electricity from solar energy. In order to utilize this process for power generation, it is necessary to rewire photosynthetic ...

As scientists investigate new mechanisms for large-scale conversion processes to meet the needs of our energy transition, an important pathway to explore is that of artificial photosynthesis, which seeks to emulate ...

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But by collecting electrons naturally transported within plant cells, scientists can generate electricity as part of a "green," biological solar cell. Now, researchers reporting in ACS Applied Materials & Interfaces have, for ...

Solar energy--A look into power generation, challenges, and a solar-powered future ... Photosynthesis is a chemical process by which plants store energy from the sun in the form of ...

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The processes include photoelectrochemical hydrogen generation, solar thermochemical hydrogen generation, photovoltaic or concentrating solar power for electricity production, electrolysis of water to ...

Sustainable power generation from live freshwater photosynthetic filamentous macroalgae Pithophora Anamika ... These kinds of bio solar cells utilize the photosynthetic properties of ...

The basic idea is the conversion of light energy into electrical energy using photosynthetic microorganisms. The microbes will use their photosynthetic apparatus and the incoming light to split the water molecule. ...

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