

Photochemical Conversion of Carbon Dioxide to Fuels

Disclosure Number

201303193

Technology Summary

Renewable energy is at the forefront of the nation-wide discussion on energy independence as a means for meeting society's ever increasing energy demands. Sunlight provides abundant energy to the earth's surface and is a form of renewable energy. Practical (cheap), large-scale employment of solar energy, however, necessitates an effective mechanism of storing the solar energy for when the sun is not shine. One method to achieve high density storage of solar energy is in chemical bonds, specifically in transforming low energy bonds to higher energy bonds. The invention relates to a photoelectrochemical devise that is capable of taking carbon dioxide to fuels.

Inventor

LUTTERMAN, DANIEL A
Chemical Sciences Division

Licensing Contact

CALDWELL, JENNIFER T
UT-Battelle, LLC
Oak Ridge National Laboratory
Rm 137, Bldg 4500N, 6196
1 Bethel Valley Road
Oak Ridge, TN 37831

Office Phone: (865) 574-4180
E-mail: CALDWELLJT@ORNL.GOV

Note: The technology described above is an early stage opportunity. Licensing rights to this intellectual property may be limited or unavailable. Patent applications directed towards this invention may not have been filed with any patent office.