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## Photoelectrochemistry: from Solar Cells to Electrochemiluminescence of Single Nanocluster Collisions

Electrochemistry has been used for precise deposition of precursor file and and controlled electrical charge consumptial owns one to fabricate the CZT-abbigombing layers of desired composition on a conductive substrate, which convert light to electricity through their semiconducting properties. Electrochemiluminescence (ECL) is the

properties. Electrochemiluminescence (ECL) is the process in which electrogenerated radicals form excited species that emit light withleoneed for an external light source (electrons to photons). ECL is a powerful analytical technique that is fast, highly sensitive and selective, requires low quantity and is cost effective. I am going to present the above two aspects of photoelectrochemistry: first I will show how electrochemistry can be used to fabricate a light absorption layer for thin film solar cells, and how to

use photoelectrochemistry to saisse disglit conversion performance; I will then demonstrate how ECL can be to interrogate single collision events of monodispersed gold nanoclusters.

## Monday, September 14, 2015 at 2:30 pm Room 0153, Biological & Geological Sciences Building



If you require information in an alternate format, or if any other arrangements vantrackes sible to you,

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