

## Energy

**Title:** Integrated Renewable Fuel Generation Process

**Description:** The technology identifies a process that utilizes generated hydrogen, atmospheric carbon dioxide and bacteria to produce bioethanol.

## Nanotech

**Title:** Polymers Attached to Carbon Nanotubes

**Description:** A method for producing polymer/nanotube composites in which the polymers are chemically bonded to the nanotubes. Effective for functionalization and solubilization of carbon nanotube materials.

## Advanced Materials

**Title:** Method of Fabricating Amorphous Coatings on Crystalline Substrates

**Description:** Method of processing iron based amorphous coating on metallic substrate presents tremendous potential for improving the properties of wear components such as dies, cutting tools, etc.

## Semiconductor

**Title:** Passive, Wireless Corrosion Sensors for Transportation Infrastructure

**Description:** A passive wireless sensor based on RFID tags to detect the egress of corrosive agents into concrete.

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