

Discovery

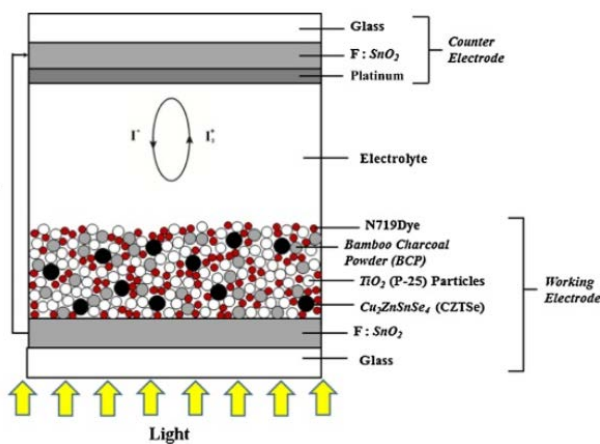
We SHARE to inspire and ignite ideas for Engineering Product Development (EPD) Pillar!

The titles featured here are to give you a peek into the wealth of resources we have. We hope, through this will encourage you to explore and read further. Share with us topics of importance to ISTD and we can introduce relevant titles from some [400,000 eBooks](#) we carry.

March 2016

PUBLICATIONS BY EPD

Design and fabrication of multi-functional working electrodes with TiO₂/CZTSe/bamboo-charcoal-powder composite particles for use in dye-sensitized solar cells

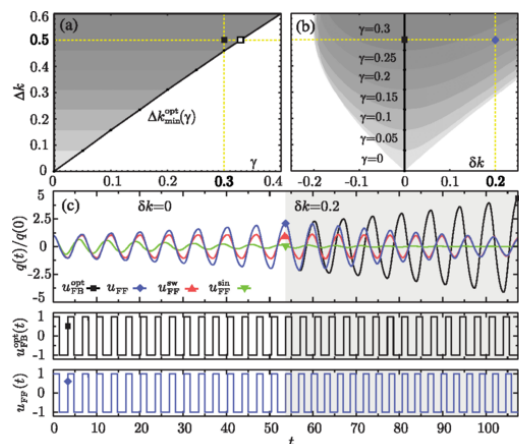


SUTD researchers: Yuan Peng & Wu Ping

This study developed a multi-functional electrode with composite particles for use in high-efficiency dye-sensitized solar cells. Principles on which the proposed electrode was designed could be extended to PV devices.

Source: [Solar Energy](#) (March 2016)

Optimal Parametric Feedback Excitation of Nonlinear Oscillators



SUTD researchers: David Braun

An optimal parametric feedback excitation principle is sought, found, and investigated. The principle is shown to provide an adaptive resonance condition that enables unprecedentedly robust movement generation in a large class of oscillatory dynamical systems.

Source: [Physical Review Letters](#) (January 2016)

INNOVATIVE PRODUCT DESIGN

Brilliant shoe grows five sizes so kids can wear it for five years



There are more than 300 million children without proper foot wear around the world. Kenton Lee, who noticed that a little girl was wearing shoes that were too small, envisioned the need for a shoe that can 'grow' over time, so they can fit for at least 5 years down the road. Check out this meaningful and smart design that can help people in need.

Source: [Inhabitat](#) (March 2016)

The 2015 Innovation By Design Awards Winners: Product Design



Check out the best product designs of 2015, ranging from high-tech products such as Google's Cardboard VR, Cinder sensing cooker that can cook food with high, precise temperatures, or IKEA's wireless charger, to simple yet powerful designs of stackable chairs, multi-purpose steel bracelet and a compact set of utensils, and many more innovative products for you to explore.

Source: [Fast Company](#) (September 2015)

VIRTUAL REALITY

11 Great Virtual Reality Apps That You Should Try Out Right Now



There has been an explosion of VR content on both iOS and Android platforms over the past year. If you are passionate about VR, these are the 11 apps not to miss. Download and explore them in your smart phone!

Source: [Macworld](#) (April 2016)

Attracting a Digital Crowd



Virtual reality can provide a user with immersive experience, but now people are exploring how to enable social features in VR. Such games or apps connect users all over the world and create new experiences.

Source: [Broadcasting & Cable](#) (March 2016)