



# 北京大学百年物理讲坛

*Centennial Physics Lectures at Peking University*

## Lecture 19

### Nanomaterials for energy conversion devices

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**University of Toronto**

时间： 2018年5月24日(周四) 上午10点

地点： 北京大学物理学院西楼202会议室

#### Abstract

Advances in colloidal quantum dots, perovskites, and nanostructured metals have increased dramatically our ability to construct new functional optoelectronic and electrochemical devices. I will highlight recent advances in light sensors, solar cells, and lasers based on quantum dots; perovskites in both solar cells and light-emitting devices; and new electrocatalysis systems for the upgrade of renewable electricity + CO<sub>2</sub> into fuels and chemical feedstocks.



#### Biography

Edward H. Sargent holds the rank of University Professor at the University of Toronto. He also serves as Vice-President International. His publications have been cited over 25,000 times; 86 of his publications have been cited 86 times or more. He founded InVisage Technologies, Xagenic, and QDSolar. He earned his degrees in Engineering Physics (Queen's, 1995) and Electrical and Computer Engineering (Toronto, 1998). He has been Visiting Professor at MIT (2004-5) and at Berkeley (2017).

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