

## Harry Atwater



### Presentation title

Advanced Semiconductor Structures for Photovoltaics and Artificial Photosynthesis.

Harry Atwater is the Howard Hughes Professor of Applied Physics and Materials Science at the California Institute of Technology. Atwater's research has two themes: light-matter interactions in nanophotonic materials and structures as well as solar energy conversion.

Atwater is an early pioneer in nanophotonics and plasmonics; he gave the name to the field of plasmonics in 2001. He has also created new high efficiency solar cell designs, and has developed principles for light management in solar cells, and he currently serves as Director of the DOE Joint Center for Artificial Photosynthesis.

Harry Atwater is a Member of US National Academy of Engineering, and is also a Fellow of the American Physical Society, the Materials Research Society, and the National Academy of Inventors.

Atwater is the co-founder of Alta Devices, a solar photovoltaics company which has developed 1 and 2 junction solar cells with world record efficiency.