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inorganic chemistry from Wayne State University. After receiving his PhD degree, he joined Union Oil Company of California (UNOCAL) as a senior research chemist. His research at UNOCAL was on photoelectrochemistry and the electrochemical processing of photovoltaic cells. In 1986, Switzer joined the Materials Science and Engineering Department of the University of Pittsburgh as an associate professor. In 1990, he moved to the University of Missouri, Rolla, as a professor of chemistry. Switzer has spent most of his career working on the electrodeposition of nanostructured metal oxide semiconductors, magnetic materials, and catalysts. He is best known for his work on the electrodeposition of epitaxial metal oxides, oxide superlattices, and chiral surfaces. Switzer is a principal editor for the *Journal of Materials Research*.



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Hodes has been with the Weizmann Institute of Science, Israel, since 1972. He obtained both his BSc degree in chemistry and PhD degree in electrochemical H/D separation on Pd from the Queen's University of Belfast in 1968 and 1971, respectively. His research has covered liquid

junction and thin-film solar cells, chemical and electrochemical deposition of semiconductors, and quantum dot films. More recently, Hodes has concentrated on chemical bath deposition of semiconductors, in particular ZnO, and uses this deposition method to make semiconductor-sensitized nanoporous solar cells, which is another of his research interests.



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Jang is a postdoctoral research associate in the Department of Chemistry at Purdue University with professor Kyoung-Shin Choi, where they work on the development of multi-junction electrodes with controlled nanostructures and up-conversion nanoparticles for solar energy conversion. He received his BS degree in materials science and engineering from Korea University, Seoul, Korea, in 2003, and his MS and

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Lincot is director of the Institute for Research and Development of Photovoltaic Energy, a joint institution between the Centre National de la Recherche Scientifique (CNRS), Électricité de France (EDF), and École nationale supérieure de chimie de Paris (Chimie ParisTech). He started research in 1978, with a PhD degree in the field of cadmium telluride solar cells at the solid-state physics laboratory of CNRS. After earning his PhD degree, Lincot joined CNRS at the laboratory of electrochemistry and analytical chemistry of Chimie-ParisTech in the field of semiconductor photoelectrochemistry. He became director of the Institute of Research and Development of Photovoltaic Energy in 2009. His research has a strong background in chemical and electrochemical processes for the synthesis of semiconductor thin films from solutions, especially chalcogenides (CdS, CdTe, ZnO, CuInSe₂) for photovoltaic applications. Lincot received the silver medal of CNRS in 2004.



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Osherov is currently a PhD degree student working under the supervision of professor Yuval Golan in the Materials Engineering Department and the Ilse Katz Institute for Nanoscale Science and Technology at Ben-Gurion University. Her PhD degree research is focused mainly on investigation of the correlation between the growth conditions of thin lead chalcogenide films, their microstructure, and their physical properties.

Osherov's work to date has been summarized in 13 papers published—of which she is the lead author of six. Osherov is a recipient of the SIG4 prize awarded in 2010 by the electron crystallography special group of interest founded by the European Crystallography Association. She also received an award for the promotion of women in sciences and technology, funded by the Israeli Ministry of Science.



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Penner is a professor at the University of California, Irvine (UCI). He attended Gustavus Adolphus College in Saint Peter, MN, where he obtained BA degrees in chemistry and biology in 1983. Penner attended graduate school at Texas A&M University from 1983 to 1987, where he earned his PhD degree in chemistry while working with professor Charles Martin. Penner proceeded to postdoctoral appointments at Stanford University and California Institute of Technology, working with professor Nate Lewis, before joining UCI in 1990. Penner is an electrochemist whose research group develops methods based upon electrodeposition for making nanomaterials, such as nanowires, composed of metals, semiconductors, and polymers.



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Read is a PhD degree candidate in chemistry at Purdue University working under the supervision of Kyoung-Shin Choi. She received her BA degree in chemistry from the University of Virginia's College at Wise in 2006. Her research has focused on electrochemical shape control of cuprous oxide crystals, shape-dependent properties, and selective deposition of noble metal particles via preferential adsorption of additives. Read's current research focuses on delafossite-based electrodes for solar energy conversion.



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