



Kyoung-Shin Choi UW-Madison

Prof. Kyoung-Shin Choi received her B.S. and M.S. degrees from Seoul National University in South Korea in 1993 and 1995, respectively. She received a Ph.D. degree from Michigan State University in 2000, and then spent two years at the University of California, Santa Barbara as a postdoctoral researcher. She joined the chemistry faculty at Purdue University as an assistant professor in 2002, and was promoted to an associate professor in 2008. She was a visiting scholar at the National Renewable Energy Laboratory (NREL) in 2008.

In 2012, she joined the chemistry faculty at University of Wisconsin-Madison as a full professor. Her research combines solid state chemistry, electrochemistry, and materials chemistry in order to address materials-related issues of electrode materials for use in photoelectrochemical and electrochemical applications (e.g. solar water splitting to produce H_2 as a clean fuel, electrochemical and photoelectrochemical biomass conversion, electrochemical and photoelectrochemical water desalination). Her research employs electrochemistry as the primary synthetic tool to fabricate a variety of solid state materials as thin-film type electrodes and catalysts with rationally controlled compositions and morphologies to study composition-morphology-property relationships. By enabling both atomic level understanding and efficiency enhancement of electrode materials, her research aims to bridge the gap between chemistry and engineering.

She was a recipient of a 2006 Alfred P. Sloan Research Fellowship, the 2007 ACS ExxonMobil Faculty Fellowship in Solid-State Chemistry, and the 2010 Iota Sigma Pi Agnes Fay Morgan Research Award. She also received the 2008 Purdue College of Science Outstanding Undergraduate Teaching Award and the 2015 Wisconsin Alumni Research Foundation Innovation Award. She has organized numerous symposia for the American Chemical Society (ACS) meetings and Materials Research Society (MRS) meetings as well as for the Gordon Research Conference. She served as the 2011 Chair of the ACS Division of Inorganic Chemistry, Solid State Chemistry sub-division and is currently serving as an Associate Editor for Chemistry of Materials.