



Instituto Universitario de Investigación
en Nanociencia de Aragón
Universidad Zaragoza



LMA SEMINARS

Prof. Nichols Research Profile

He currently heads a research team investigating aspects of conduction in single molecules, single molecule electrochemistry, molecular electronics, nanoscience, scanning probe microscopy, nanoscale electrochemistry, interfacial electrochemistry, metal plating and in-situ spectroscopic methods for studying electrode surfaces. He is an expert in the field of scanning probe microscopy, particularly as applied to in-situ electrochemical measurements and single molecule electronics. He has over 140 publications in peer-reviewed journals (h-index 43) and he is known internationally for pioneering in-situ electrochemical STM work. He was one of the first to carry out high-resolution studies of electrode processes, including the growth of metal electrodeposits. He received the 2003 Tajima prize from the International Society of Electrochemistry and was elected a Fellow of the International Society of Electrochemistry in 2008. In 2016 he was awarded the Geoffrey Barker Medal. Since 2000 he has been developing techniques for the measurement of molecular electrical properties.