

# ALD 2016 Ireland

**Ying-Bing Jiang**

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Ying-Bing Jiang is a research associate professor in Chemical Engineering as well as the manager of TEM&FIB facilities at the University of New Mexico (UNM), Albuquerque, USA. He is also the founder and the president of Angstrom Thin Film Technologies LLC. He received his Ph.D. in Chemical Engineering from UNM in 2005, followed by a postdoctoral training at Sandia National Laboratories until 2008.

Dr. Jiang's background is in thin film deposition and plasma processing, as well as electron microscopy and materials characterization. In recent years his researches focus on tuning nanostructures by ALD and plasma-ALD, and their applications in ultra-thin membranes for gas separation and selective ion transport. In 2011, one of his ultra-thin ALD membrane works together with Sandia scientists received the prestigious "R&D 100 Award" from *R&D Magazine*.

In 2015, Dr. Jiang's work on ultra-thin liquid CO<sub>2</sub> separation membranes received another "R&D 100 Award" that was entitled "Green Technology Special Recognition Gold Award". Dr. Jiang has also received other awards such as FLC (Federal Laboratory Council) Notable Technology Development Award, and served as the (co-)organizers of 3 technical symposiums for the MRS meetings.