

Lucile Broussous _ Invited Speakers



Dr. Lucile Broussous, R&D Engineer and Expert for Wet processes and Materials, in STMicroelectronics Digital Front-end Manufacturing and Technology department. Crolles, France.

Dr. Lucile Broussous, received a MS in Material science in 1996, then a PhD in physical-chemistry in 1999, both at the University of Montpellier, France. After 8 month of post-doctoral research at the Chemistry Institute of Araraquara, Sao Paulo, Brasil, she joined STMicroelectronics in 2001 as an R&D process engineer. In 2010, she received a certification for doctorate supervision (french HDR diploma) from the University of Grenoble, and was nominated as a STMicroelectronics Expert in 2013.

Over the past 15 years, she acquired a strong experience on surface preparation and cleaning, as well as materials characterizations for interconnection levels in integrated circuits and devices (CMOS, memories, photonics, and CMOS image sensors). Her fields of investigations, in collaboration with French Universities and CEA-LETI mainly focus on metals corrosion in solution, porous dielectrics modifications and “micro-fluidic” aspects related to wet clean processes (rinsing and drying kinetics, structures wetting characterization).