

Staff research scientist at CNR-IMM from 2011.

Laurea cum laude in Physics in 1998 and Ph.D in Physics in 2002 from University of Catania, Italy. During the Ph.D. she was summer student and visiting scientist at IBM T. J. Watson Research Center in Yorktown, USA, working on advanced metallization. In 2001 she received the Award for Young Scientist from the Italian Physical Society (SIF). From 2002 to 2004 she worked as a Post-Doc at the University of Catania. From 2004 to 2011 she held a permanent position as research staff member at the R&D department of STMicroelectronics, working on the development of a BiCMOS technology and on the integration of high precision trimmable resistors, acquiring high competence in manufacturing processes, CAD layout design and simulations, and electrical characterization of electronic devices. Her current research interests include electrical characterization of devices and electrochemical testing of materials for solar fuels production. Structural characterization and correlation of the functional and reliability properties to the materials structure.

She is author or co-author of about 43 technical reports registered in the Internal STMicroelectronics Library, 70 peer reviewed papers, 2 book chapters, and 6 issued US patents (6 US Patent Applications pending). She has been invited to 12 conferences and has about 1300 citations. S. M. S. Privitera has also participated in several committees and organized conferences and several symposia, one as leading organizer at the Materials Research Society (MRS) Spring Meeting in Phoenix, USA.

She is the Coordinator of the H2020 Project TELEGRAM, Toward Efficient Electrochemical Green Ammonia Cycle.