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**Short biography:**

Mohamed Chaker has been a professor at the Institut National de la Recherche Scientifique (INRS) in Varennes, Quebec, Canada since 1989. He held a Tier 1 Canada Research Chair in Plasmas applied to micro and nanomanufacturing technologies from 2003 to 2024 and published over 360 articles in peer-review journals (19765 citations, H-index=76 according to Google Scholar) in various domains, including advanced plasma sources characterization (high-density plasmas and laser-induced plasmas) for applications to thin film and nanomaterials synthesis, nanometer pattern transfer and device fabrication. From 1999 to 2002, he has been the director of the Center Energie et Matériaux of INRS, then from 2002 to 2005, the director of the Center Énergie Matériaux Télécommunications. He played a leadership role in the development of Quebec consortia (Prompt-Québec, NanoQuébec). From 2005, he is the director of the Laboratory of Micro and Nanofabrication (LMN) of INRS.

*Email: mohamed.chaker@inrs.ca*