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She graduated in Physics at the University of Rome “La Sapienza” in 1992 and received her PhD in Materials Engineering at University of Rome “Tor Vergata” in 2001. She worked for an 11 months fellowship at the Laser Zentrum Hannover (Germany) in the frame of the Human Capital Mobility Network, Project “High Quality Thin Films for Laser Applications”, and was awarded several national fellowships and post doc grants. Dr Grilli worked from 1997 to 2005 at the Department of Chemical Science and Technology of University of Rome “Tor Vergata” focusing on the fabrication and characterization of electrochemical CO<sub>2</sub>, CO, NO<sub>x</sub> and HCs gas sensors. She was assistant professor of Material Technology and Applied Chemistry from 2000 to 2005. Since 2009 she has been working permanently at ENEA Casaccia Research Centre. Main research topics are design, fabrication by PVD techniques and characterization of interferential coatings for laser and space applications, R&D of coatings for thin film solar cells and optoelectronic devices, R&D of nanostructured materials and metamaterials. Actually, she is involved in a national projects for the development of graphene oxide-based membranes for CO<sub>2</sub> capture. She is the coordinator of the Italy-China Great Relevance Project “On demand refractive index for remote sensing” and WGs coordinator within the COST Action “Solutions for critical raw materials under extreme conditions”. She is the Italian responsible of the H2020 ERAMIN2 project MONAMIX, “New concepts for efficient extraction of mixed rare earths oxides from monazite concentrates and their potential use as dopant in high-temperature coatings and sintered materials”. She is tutor of master degree and PhD students. She is member of the peer reviewer board of several international Journals, Guest Editor for *Physica Status Solidi* and *Metals* (MPDI), and external reviewer of H2020 Projects. She is co-organizer and member of the Scientific Committee of several International Conferences. She is coauthor of more than 100 papers in peer reviewed international journals and conference proceedings (citations 995, H index 18 according to Scopus).