

Dr. Andreas Germanos Karydas is Research Director at the Institute of Nuclear and Particle Physics of the National Center for Scientific Research "Demokritos" and Head of the XRF Laboratory. He holds a BSc in Physics from the University of Athens and received his Ph.D. in the field of Analytical Applications of Nuclear Techniques from the National Technical University of Athens (1994). Dr. Andreas Karydas has more than twenty-five (25) years of research experience, including six (6) years (2009-2015) as leader of the XRF group of the Nuclear Science and Instrumentation Laboratory (NSIL) at the IAEA and one (1) year as senior staff of the IAEA Physics Section (2016). His research team interests focus towards 1) the study of fundamental X-ray interactions with matter and de-excitation processes of ionized atoms and 2) the development of analytical methodologies, instrumentation and interdisciplinary applications of X-ray fluorescence and Ion Beam Analysis techniques, with emphasis on the areas of cultural heritage, materials science and environmental monitoring. He has published more than 170 articles in peer-review journals and conference proceedings, including two (2) book chapters