Marco Di Giovannantonio

CNR – Istituto di Struttura della Materia (CNR-ISM), 00133 Roma, Italy

Marco Di Giovannantonio received his Ph.D. in Physics from the University of Rome "Tor Vergata" (Italy) in 2015, focusing on surface-confined polymerization reactions under ultrahigh vacuum conditions and at solid–liquid interfaces. In 2016, he joined the *nanotech@nurfaces laboratory* at Empa (Swiss Federal Laboratories for Materials Science and Technology, Dübendorf, Switzerland), under the supervision of Prof. Roman Fasel. He worked as a scientist at Empa until 2020, when he was appointed as a permanent research scientist at CNR-ISM in Rome. In 2021, he established the *ONSET Lab* (https://www.ism.cnr.it/en/onset-on-surface-chemistry-laboratory.html), where he currently leads research activities and manages a combined photoemission/microscopy UHV system by Omicron. Since 2023, he is visiting researcher at the Okinawa Institute of Science and Technology (OIST), Okinawa, Japan.

Dr. Di Giovannantonio has a robust background in experimental physics, with particular expertise in surface-confined chemical reactions. His technical competencies span a wide range of surface science techniques, including scanning probe microscopy and spectroscopy (STM/STS, nc-AFM), electron diffraction (LEED), photoelectron spectroscopy (XPS/UPS) and absorption spectroscopy (NEXAFS), both in laboratory and synchrotron environments.

His research focuses on the on-surface synthesis of carbon-based nanostructures, aiming to unravel the microscopic mechanisms governing their formation. In recent years, he has also explored the development of covalent organic platforms for anchoring single metal atoms. He is the author of over 50 publications in high-impact, peer-reviewed journals and currently holds an h-index of 30 with >2667 citations (Source: Google Scholar).