

Academic Profile: Prof. Giuseppe Consiglio



Giuseppe Consiglio is an **Associate Professor** of Chemical Foundations of Technology at the Department of Chemical Sciences, **University of Catania**.

Career and Education

After graduating with honors in Chemistry and earning his PhD at the University of Catania, he furthered his expertise abroad with a postdoctoral research fellowship at the **University of Bath** (United Kingdom). He has served as an Associate Professor since 2018 and has obtained the **National Scientific Habilitation (ASN) as a Full Professor**.

Research Activities

His scientific activity is characterized by a strong multidisciplinary approach, focusing on the design and characterization of **advanced molecular materials**. His primary research interests include:

- **Renewable Energy:** computational (DFT) and experimental studies of dyes for Dye-Sensitized Solar Cells (DSSC).
- **Supramolecular Chemistry:** aggregation of metal complexes with Schiff bases for sensing applications.
- **Nanotechnology:** development of hybrid nanoplatfoms based on graphene oxide and carbondots for bio-interfacial applications and controlled drug delivery.
- **Synthetic Chemistry:** organo-phosphorus, organo-boron and macrocyclic chemistry.

Collaborations

Professor Consiglio maintains a robust network of collaborations with several national and international Universities. He is author of numerous publications in international peer-reviewed journals (90 articles) and co-inventor of a US patent regarding membranes for fuel cells.

Institutional Roles

Actively involved in the academic life of the University of Catania, he is a member of the Departmental Board and has served as “Staff-Student Joint Committee” member and the President of the “State Examination Commission for the professional licensing of Chemists”. He is also member of the PhD School Committee in “Materials Science and Nanotechnology”.