

MICHELA ALFE



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Research areas: Material Chemistry, Environmental Chemistry, Analytical Chemistry, Organic Chemistry

Research keywords: Carbon Capture and Storage (CCS), Graphene-related materials (GRM); multifunctional material synthesis; Metal Organic Framework (MOF); biocompatible materials; bioinspired materials; End of Life (EOF) materials valorisation.

h-index: 35 (Scopus@ Aug 2024); 39 (Google Scholar@Aug 2024),
Citations:3650 total citations @ Aug 2024 (source Scopus); 4271 total citations @ Aug 2024 (source Google Scholars).

Michela Alfè is a Senior Researcher at Institute of Science and Technology for Sustainable Energy and Mobility (STEMS) of Italian National Research Council (CNR). She holds a degree in Chemistry (New strategies for solid phase synthesis of oligonucleotides, University of Naples “Federico II”, 2000) and a Ph.D. in Chemical Engineering (Evaluation and characterization of fine particulates (< 100 nm) produced from controlled combustion sources, University of Naples “Federico II”, 2004).

Her research work is gathered in the areas of **Materials Science** and **Energy & Environment** and include the synthesis of new low-cost carbon-based materials and composites for energy applications (CO₂ capture and storage, water remediation, bio-inspired interfaces, biomasses and end-of-life materials valorization into value-added products). These research activities are highly inter- or multidisciplinary, spanning the fields of engineering, chemistry and physics. Beside the coordination and participation at many national and international research projects and the collaboration with several research centers both International and National, she is also active in research networking as member of scientific societies (including COST Actions), as Editorial Board Member of indexed journals and in outreach activities. She is currently CNR delegate to the EERA Carbon Dioxide Capture and Storage Joint Program (CCS JP) International Board and responsible of the MADE4CO₂-Lab, an infrastructure part of the European CCUS Research Infrastructure ECCSEL ERIC for CO₂ Capture, Utilisation, Transport and Storage. The IR node is expected to be fully operative from the first semester of 2025. She has authored more than 100 papers published in ISI journals and as book chapters.