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: 38 (Scopus@ Aug 2026); **43** (Google Scholar@Aug 2026)
Citations:4620 total citations @ Aug 2026 (source Scopus); 5769 total citations @Aug 2026 (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 (CO_2 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 CO_2 Capture, Utilisation, Transport and Storage. She has authored more than 115 papers published in ISI journals and as book chapters.