VALENTINA GARGIULO

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Research areas: carbon-based nanomaterials, inorganic materials, waste to materials, energy, environment, analytical chemistry, material science.

Research keywords: graphene-related materials, metal organic frameworks, metal oxides, material synthesis, material structural characterization.

h-index: 30 (Scopus@ Aug 2025);
Citations: 2457 total citations @Aug 2025 (source Scopus).

Valentina Gargiulo is a permanent researcher at the Institute of Sciences and Technologies for Sustainable Energy and Mobility of the National Research Council of Italy (CNR-STEMS). She holds a PhD in Chemical Sciences (2009) and a full degree in Chemistry (cum laude,2005). Her research activities deal with: i) the synthesis and characterization of advanced materials (hybrid materials, metal organic frameworks, metal oxides) for CO_2 capture, gas storage, water remediation, sensing, photocatalysis; ii) the characterization and treatment of thermochemical feedstocks and products, iii) the synthesis and chemico-physical analysis of complex carbonaceous materials (graphene related materials, char, soot and other carbon-based commercial materials). She is involved in national and international research projects. She has been a visiting researcher at various national and international universities and research centers. She carries out teaching activities promoted by STEMS-CNR and outreach activities at regional and national events. She is a member of several COST Actions. She is a member of the Editorial Board of 4 MDPI journals. She has served as guest editor for different article collections. She is a reviewer for many Elsevier, Springer and MDPI journals. She co-authored more than 90 peer-reviewed articles and several proceedings of national and international meetings.