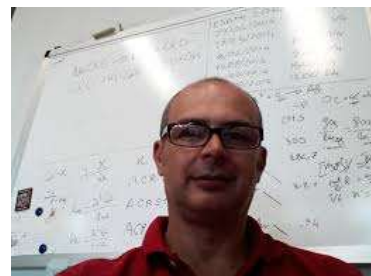




Personal Information

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Education and positions: Industrial Chemistry, University of Catania (1990-1997); PhD Polymeric Materials for Special Uses, University of Catania (2000-2003), Aggregate Professor Science and Technology of Materials (2004-2010); Associate Professor Chemical Foundations of Technologies (2011-2018); Full Professor Chemical Foundations of Technologies (2018).

Main fields of interest: Physico-Chemical characterization of organic molecules; Kinetic studies of the thermal degradation of polymers and nanocomposites; Thermal analysis of polymers, biopolymers, geopolymers, nanoparticles and nanocomposites. Synthesis and thermal characterization of POSS; Material characterization for rapid prototyping and additive manufacturing; Specific Heat Capacity and Thermal Conductivity Measurements of polymer for 3D-Printing.

Methods: Thermogravimetric Analysis (TGA), Differential Thermal Analysis (DTA), Differential Scanning Calorimetry (DSC), Dynamic Mechanical Analysis (DMA), Thermal diffusivity and thermal conductivity analysis (LFA).

Professional activities: Editor in Chief of Hybrid Advances (Elsevier); Senior Editors of Thermal Advances (Elsevier); Editorial Advisory Board Member of Science and Engineering of Composite Materials (De Gruyter); Editorial Board Member of Polymers (MDPI); Editorial Board Member of Journal of Composites Science (MDPI); Editorial Board Member of Thermo (MDPI); Advisory Board Member of Sci (MDPI);

Publication record Scopus (January 2026): documents (168), citations (4476), *h*-index (40)

Equipments: Mettler TA 3000, Mettler DSC 20, Mettler DSC 30, Mettler TC 10 A, Shimadzu DTG-60, Shimadzu DSC 60, TRITEC Dynamic Mechanical Thermal Analyzer, Mettler TG1, Mettler DSC 1; NETZSCH Laser Flash LFA 467 Hyperflash.

5 most important publications:

Siracusa, V., Blanco, I. Bio-polyethylene (Bio-PE), Bio-polypropylene (Bio-PP) and Bio-poly(ethylene terephthalate) (Bio-PET): Recent developments in bio-based polymers analogous to petroleum-derived ones for packaging and engineering applications. *Polymers* 2020;12(8):1641 <https://doi.org/10.3390/polym12081641>

Blanco, I. The use of composite materials in 3d printing. *Journal of Composites Science* 2020;4(2):42 <https://doi.org/10.3390/jcs4020042>

Cicala, G., Giordano, D., Tosto, C., ...Recca, A., Blanco, I. Polylactide (PLA) filaments a biobased solution for additive manufacturing: Correlating rheology and thermomechanical properties with printing quality. *Materials* 2018;11(7):1191 <https://doi.org/10.3390/ma11071191>

Blanco, I. The rediscovery of POSS: A molecule rather than a filler. *Polymers* 2018;10(8):904 <https://doi.org/10.3390/polym10080904>

Blanco, I. Lifetime prediction of polymers: To bet, or not to bet-is this the question? *Materials* 2018;11(8):1383 <https://doi.org/10.3390/ma11081383>