



## Personal Information

Name: Ignazio Blanco  
Location: Catania, IT  
AICAT member since: 2000



**Position:** Full Professor of Chemical Foundations of Technologies CHIM/07

**Affiliation:** Department of Civil Engineering and Architecture University of Catania, V.le A. Doria 6, 95125 Catania



[iblanco@unict.it](mailto:iblanco@unict.it)



<http://www.dmfc.unict.it/users/iblanco/>

**ORCID** 0000-0001-9252-9435

**ResearcherID** F-3406-2010

**Scopus** 7006352466

**Education and positions:** Industrial Chemistry, University of Catania (1990-1997); P.h.D. Polymeric Materials for Special Uses, University of Catania (2000-2003), Aggregate Professor Science and Technology of Materials (2003); 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.

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

**Professional activities:** Member of the Editorial Board of Polymers (MDPI); Member of the Editorial Advisory Board of Science and Engineering of Composite Materials (De Gruyter); Member of the Editorial Board of Journal of Composites Science (MDPI); Member of the Advisory Board of Sci (MDPI);

**Publication record Scopus** (April 2019): documents (84), citations (1366), *h*-index (26)

**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:

Abate, L., Badea, E., Blanco, I., Della Gatta, G. Heat capacities and enthalpies of solid-solid transitions and fusion of a series of eleven primary alkylamides by differential scanning calorimetry. *J. Chem. Eng. Data* 2008;53(4):959-965  
<https://doi.org/10.1021/je700662a>

Blanco, I., Abate, L., Bottino, F.A., Bottino, P., Chiacchio, M.A. Thermal degradation of differently substituted Cyclopentyl Polyhedral Oligomeric Silsesquioxane (CP-POSS) nanoparticles. *J. Therm. Anal. Calorim.* 2012;107(3):1083-1091  
<https://doi.org/10.1007/s10973-011-1848-3>

Blanco, I., Bottino, F.A., Bottino, P. Influence of symmetry/asymmetry of the nanoparticles structure on the thermal stability of polyhedral oligomeric silsesquioxane/polystyrene nanocomposites *Polym. Compos.* 2012;33(11):1903-1910  
<https://doi.org/10.1002/pc.22330>

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>