

PERSONAL INFORMATION

Ignazio Blanco



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 BLNGNZ71M04C351L

Gender male | Date of Birth 04/08/1971 | Nationality Italian

JOB POSITION

Full Professor of Chemical Foundations of Technologies SSD CHIM/07 @ Department of Civil Engineering and Architecture, University of Catania.

QUALIFICATION

Ph.D in "Materiali Polimerici per Usi Speciali" @ Department of Physical and Chemical Methodologies for Engineering, University of Catania

WORK EXPERIENCE

since December 2018 Full Professor of Chemical Foundations of Technologies (SSD CHIM/07) @ Department of Civil Engineering and Architecture, University of Catania
January 2011 – November 2018 Associate Professor of Chemical Foundations of Technologies (SSD CHIM/07) @ Department of Industrial Engineering, University of Catania
November 2007 – December 2010 Researcher of Chemical Foundations of Technologies (SSD CHIM/07) @ Department of Physical and Chemical Methodologies for Engineering, University of Catania
January 2004 – October 2007 Researcher of Science and Technology of Materials (SSD ING-IND/22) @ Department of Physical and Chemical Methodologies for Engineering, University of Catania

EDUCATION AND TRAINING

November 1999 – October 2002 Ph.D in "Materiali Polimerici per Usi Speciali", 23th March 2003, @ Department of Physical and Chemical Methodologies for Engineering, University of Catania
November 1990 – March 1998 Graduation in Industrial Chemistry, 27th March 1998, evaluation 110/110, @ Science Faculty of the University of Catania
September 1985 – July 1990 Scientific High School, July 1990, evaluation 48/60, @ Liceo Scientifico Statale Archimede, Acireale (CT)

PERSONAL SKILLS

Mother tongue Italian

other tongue

English

UNDERSTANDING		SPEAKING		WRITTEN
Listening	Reading	Interplay	Oral production	
B1	B1	B1	B1	B1

Communication skills

▪ good communication skills acquired during my twenty-five years teaching experience at the Engineering Courses of the University of Catania

Organisational / managerial skills

- Elected General Secretary of the International Confederation for Thermal Analysis and Calorimetry (ICTAC)(2024).
- Elected Member of the Board of the Italian Association of Thermal Analysis and Calorimetry (AICAT) (2026).
- Chairperson of the Standards & Nomenclature Scientific Committees of the International Confederation for Thermal Analysis and Calorimetry (ICTAC) (2020-2024).
- Elected Coordinator of the Interdivisional Group of Calorimetry and Thermal Analysis (GICAT) of the Italian Society of Chemistry (2023-2025).
- Italian Councilor of the International Confederation for Thermal Analysis and Calorimetry (ICTAC) (2019-2025).
- Editor in Chief of Hybrid Advances (Elsevier); Advisory Editorial Board Member of Applied Surface Science 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).
- Coordination, planning and carrying out of the activities of different national and international research groups.
- Elected Coordinator of the bachelor's degree in Civil, Environmental and Management Engineering.
- Organizing Committee Member of the VIII Convegno Nazionale AICInG; Scientific Committee Member of the 3rd Central and Eastern European Conference on Thermal Analysis and Calorimetry; Technical Session Organizer and Session Chair of the Lifetime Prediction session at the 16th International Confederation for Thermal Analysis and Calorimetry Congress; Scientific Committee Member of the 1st Journal of Thermal Analysis and Calorimetry and 6th V4 (Joint Czech–Hungarian–Polish–Slovakian) Thermoanalytical Conference (JTACC+V4); Chair of the Workshop "Kinetics and Lifetime prediction of materials" organized by CEEC-TAC; Scientific Committee Member of the XL National Congress on Calorimetry, Thermal Analysis and Applied Thermodynamics; Vice Chair of the 14th Mediterranean Conference on Calorimetry and Thermal Analysis (Medicta) & 5th Central and Eastern European Conference for Thermal Analysis and Calorimetry (CEEC-TAC) joint meeting; Scientific Committee Member del XLII National Congress on Calorimetry, Thermal Analysis and Applied Thermodynamics; Scientific Committee Member of the 17th International Confederation for Thermal Analysis and Calorimetry Congress (ICTAC 2020); Scientific Program Chair of 6th Central and Eastern European Conference on Thermal Analysis and Calorimetry (CEEC-TAC6) and 15th Mediterranean Conference on Calorimetry and Thermal Analysis (Medicta2021); Conference Committee Member of Polymers 2022 - New Trends in Polymer Science: Health of the Planet, Health of the People; Member of the National Organizing Committee of the 13th European Symposium on Thermal Analysis and Calorimetry; Scientific Committee; Member of the 8th International Seminar on Modern Polymeric Materials for Environmental Applications (MPM 2023); Member of the International Advisory Committee of the 16th Mediterranean Conference on Calorimetry and Thermal Analysis (MEDICTA 2023); Scientific Committee Member of the 3rd Journal of Thermal Analysis and Calorimetry Conference (JTACC 3). Member of the Scientific Committee of the 15th Polish Conference on Calorimetry and Thermal Analysis (CCTA 15 2024). Member of the Scientific Committee of the XLV Italian National Conference on Calorimetry, Thermal Analysis and Applied Thermodynamics (2024). Member of the Scientific Committee of the 17th Mediterranean Conference on Calorimetry and Thermal Analysis (MEDICTA2025) (2025). Member of the International Organizing Committee of the 8th Central and Eastern European Conference on Thermal Analysis and Calorimetry (CEEC-TAC8).
- Editor of the Bulletin of the Italian Association for Thermal Analysis and Calorimetry; Expert Evaluator of the "Banca dati MIUR"; Grant proposal reviewer for the National Science Center, Poland; Grant proposal reviewer for the Kazakhstan National Center of Science and Technology Evaluation; Grant proposal reviewer for the French National Research Agency (ANR); Grant proposal reviewer for the Qatar National Research Fund; CEV @ ANVUR;

Job-related skills

- Research activities are focused on the following themes: Synthesis and characterization of toughened thermoset blends; Process technology of polymeric fiber-reinforced composites; Heat Capacities, Fusion, Solid to solid transition of series of organic molecules; Comparative kinetic study of the thermal degradation of model polymers; Comparative kinetic study of the thermal degradation of nanocomposites; Synthesis and thermal characterization of aromatic copolymers; Thermal characterization of films used on food packaging application; Synthesis and thermal characterization of nanoparticles, POSS synthesis and thermal characterization; Material characterization for rapid prototyping and additive manufacturing; Specific Heat Capacity and Thermal Conductivity Measurements of polymer for 3D-Printing. Ability to use the following instrumental analysis techniques: Thermogravimetric Analysis; Differential Scanning Calorimetry; Dynamic Mechanical Analysis; Infrared spectroscopy; Laser Flash Technique.

Driving licence

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ADDITIONAL INFORMATION

Publications

My scientific activity has resulted in 168 records in Scopus / ISI indexed international journals, 4 books, 3 book chapters and more than 100 presentations in national and international conference. My publications received 4476 citations and my current H-index is 40. <https://www.scopus.com/authid/detail.uri?authorId=7006352466>

- 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
- Polylactide (PLA) filaments a biobased solution for additive manufacturing: Correlating rheology and thermomechanical properties with printing quality Materials, 2018, 11(7), 1191
- Poly(lactic acid)-modified films for food packaging application: Physical, mechanical, and barrier behavior

- Journal of Applied Polymer Science, 2012, 125(SUPPL. 2)
- The rediscovery of POSS: A molecule rather than a filler Polymers, 2018, 10(8), 904
- The use of composite materials in 3d printing Journal of Composites Science, 2020, 4(2), 42

Projects

- (2004-2006) "Synthesis and development of nanocomposites for packaging based on novel functionalised copolymers of PET and PEN" National Project PRIN prot. 2004099185_004 (Role: Participant, granted 54.300,00 €);
- (2008-2010) "Development of selective polymeric membranes for gas separation: optimization by the integrated use of the synthesis, the characterization and the multiscale molecular modeling techniques." (PRIN prot. 2007CNJTAH, Role: Participant, granted 56.777,00 €);
- (2011-2013) "Soluble and nano-loaded textiles for composites obtained in RTM" (PRIN NanoSolTex, Role: Participant);
- (2011-2013) "Characterization of polymeric materials for use in food packaging and their environmental sustainability" (University research project, Role: Coordinator, granted 5.350,00 €);
- (2001-2012) "Comparative study of thermal and rheological properties of polymers" (University research project, Role: Coordinator, granted 3.425,19 €);
- (2011-2014) "MATRECO – Advanced materials for eco-sustainable transports" (PON02239 project, Role: Participant, Granted 711.450,00€);
- (2011-2014) "Advanced components for drag reduction" (PON01750 project, Role: Participant, granted 651.200,00€);
- (2011-2014) "Ambition Power" (PON0700 project, Role: Participant, granted 250.200,00€);
- (2012-2015) "Low noise" (PON Asse 1 project, Role: Participant);
- (2015) "MedETNA - Mediterranean network for emerging nanomaterials" (PO FESR 2007-2013 - Asse IV - Obiettivo 4.1.2 - Linea 4.1.2.A. project, Role: Participant);
- (2016-2018) "MATERials Lfife foreCAst (MATELICA)" (Department research project, Role: Coordinator, granted 11.612,36 €);
- (2018) ANVUR Funding of basic research activities (granted 3.000,00 €);
- (2022) SiciliAn MicronanOTech Research And Innovation Center (SAMOTHRACE) (Role: Participant, granted 119.000.000 €);
- 2023-2025) 3DCircle (PRINPNRR 2022, Role: Participant, granted: 80.270,00 €);
- (2024-2027) MIMIT Project (RE-COMP, Role: Participant granted: 3.900.000 €)

Conferences

- Invited Lecture @ 1st Summer School on Renewable Energy Systems and Green Nanotechnologies for a Clean Environment 2014;
- Invited lecture @ XXXVIII National Congress on Calorimetry, Thermal Analysis and Applied Thermodynamics 2016;
- Invited Lecture @ Russian-Italy Round Table 2016 New Functional Materials and Prebiotic Compounds 2016;
- Invited Lecture @ 4th Central and Eastern European Conference on Thermal Analysis and Calorimetry (CEEC-TAC4) 2017;
- Invited Teacher @ Short Summer School on Thermal Analysis & Calorimetry organized by CEEC-TAC 2017;
- Invited Lecture @ 13th Conference on Calorimetry and Thermal Analysis of the Polish Society of Calorimetry and Thermal Analysis, Zakopane 2018;
- Invited Lecture @ "Workshop on editorial aspects of ISI journals and ethics in publishing scientific articles" at the University of Craiova 2019;
- Plenary Lecture @ "EASTWEST Chemistry Conference" 2019;
- Invited lecture @ XII Congresso Brasileiro de Análise Térmica e Calorimetria & V PAN 2021;
- Invited lecture @ 17th International Congress on Thermal Analysis and Calorimetry (ICTAC17) 2021;
- Invited lecture @ MDPI webinar "Polyhedral Oligomeric Silsesquioxanes (POSS) — Synthesis, Functionalization, Applications" <https://molecules-18.sciforum.net/> 2021;
- Invited lecture @ 30th Symposium on Thermal Analysis and Calorimetry "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy - CATCAR30 2021;
- Invited lecture @ 1st Central and Eastern European Conference on Physical Chemistry (CEEC-PHYSCHEM2022) and 2nd Croatian Conference on Thermal Analysis and Calorimetry (CCTAC2) (2022);
- Plenary Lecture @ RSC Thermal Methods Group Conference (TAC 2023);
- Plenary Lecture @ 16th Mediterranean Conference on Calorimetry and Thermal Analysis (Medicta 2023);
- Plenary Lecture @ 7th Central and Eastern European Conference on Thermal Analysis and Calorimetry (CEEC-TAC7)
- Invited Teacher @ Short Summer School on Thermal Analysis and Calorimetry (SSS on TAC) organized by CEEC-TAC 7.
- Keynote Speaker @ 15th Conference on Calorimetry and Thermal Analysis of the Polish Society of Calorimetry and Thermal Analysis (CCTA 15).
- Invited Lecture @ 33rd Symposium "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy (CATCAR33).
- Invited Teacher @ Short Summer School on Thermal Analysis & Calorimetry organized by CEEC-TAC 8.
- Keynote speaker @ 28th International Symposium "The Environment and Industry" - SIMI 2025.
- Plenary Lecture @ 34th Symposium "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy (CATCAR33).

- Invited Lecture @ International Extended School on Thermal and Associated Methods in Materials Science, Publishing and Ethical Concerns (INEXS-TAMMSPEC).

Honors and awards

I was included in the volume "Who is Who in Thermal Analysis and Calorimetry 2nd Ed" among the 300 world leading scientists for Thermal Analysis and Calorimetry; Best Reviewer Award 2017" from the Journal of Thermal Analysis and Calorimetry." Top 2% world's Scientists (2020, 2021, 2022, 2023, 2024, 2025) by Stanford University, published by Elsevier; Best POSTER @ THERMAL ANALYSIS AND CALORIMETRY CONFERENCE 2021 organized by Thermal Methods Group (TMG) of Royal Society of Chemistry; Świętosławski Medal awarded by General Assembly of the Polish Society for Calorimetry and Thermal Analysis (PTKA), (16 June 2023).

Data consent

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV)