

Dorien BAETEN

Personalia

Address Hemelhof 8, 3520 Zonhoven, Belgium
Cell phone number +32 477/18 68 43
Email dorien.baeten@gmail.com
Date and Place of birth 26 October 1989, Hasselt, Belgium
Nationality Belgian

Education

Oct 2012 - Dec 2016 Doctor of Science in Chemistry, KU Leuven, Leuven, Belgium
2010 - 2012 Master of Science in Chemistry (*magna cum laude*), KU Leuven, Leuven, Belgium
 o Masterthesis: Crystallization of poly(lactic acid) in the presence of poly(alanine)
2007 - 2010 Bachelor of Science in Chemistry (*cum laude*), KU Leuven, Leuven, Belgium

Professional experience

Sep 2023 – present Teaching assistant – Master of Materiomics (Faculty of Scienc), UHasselt, Diepenbeek, Belgium

Jul 2018 - Sep 2022 Associate scientist, Koninklijke DSM NV, Geleen, the Netherlands
 o Thermal Analysis & Calorimetry, thermal analysis expert
 o Project lead/member in several projects (polymer crystallization kinetics modelling for optimizing polymer processing, coordinating analytical activities for Apple Innovation platform, coordinating analytical activities regarding backsheets development for PV modules, ...)

Sep 2017 - Jun 2018 R&D product leader, Soudal, Turnhout, Belgium
 o Prepolymer synthesis
 o Analytical characterization: IR, GPC, TGA, viscosity measurements, tensile testing

Jan 2017 - Aug 2017 Postdoctoral researcher, KU Leuven, Leuven, Belgium
Oct 2012 - Dec 2016 Doctoral researcher, KU Leuven, Leuven, Belgium (Promotor: Prof. B. Goderis)
 o Research: Fast scanning chip calorimetry combined with time resolved X-ray diffraction: a new view on polymer crystallization and melting
 o Thermal characterization: DSC, TGA, FSC
 o Morphological characterization: microscopy and (synchrotron) SAXS & WAXD
 o Plastic processing technology: extrusion
 o Teaching:
 o Daily supervisor of several master thesis students
 o Laboratory practicals for bio-engineering bachelor students

Feb 2011 - Jun 2011 Internship project, Teijin Aramid, Arnhem, the Netherlands (Promotor: J. Boelee)
Improved reproducibility of various reactors for lab-scale PPTA synthesis

Language skills

Dutch Native
English Fluent

Additional information

Achievements and distinctions

2016 ICTAC Travel Grant, ICTAC, USA
2015 Thermal Analysis award for young scientist, TAWN, the Netherlands
2014 Poster prize at “Workshop on Recent Advances and New Perspectives in Polymer Crystallization”, Italy
2012 KVCV-award for the most meritorious student, KVCV, Belgium

Competencies

responsible, committed to the job, results driven, analytical thinking, research background information, handle details, plan and arrange activities, meet deadlines, cooperate and work well with others, independent, listen attentively, communication

Additional courses

2014 - 2015	Academic English, KU Leuven, Leuven, Belgium
2014	Quality Control and Non-Destructive Testing, KU Leuven, Leuven, Belgium
2013	Intellectual Property Management, KU Leuven, Leuven, Belgium
2006 - 2007	Lifeguard, Bloso, Hasselt, Belgium

Responsibilities

2013 - 2016	Representing all the PhD and postdoctoral students of the Polymer Chemistry and Materials division in different councils and boards, KU Leuven, Leuven, Belgium
2008 - 2012	Responsible for the contact between students, professors and the student association Chemika vzw, KU Leuven, Leuven, Belgium
2008 - 2010	Responsible for the finances of the student association Chemika vzw, KU Leuven, Leuven, Belgium
Summer 2007 - 2012	Lifeguard, Heidestrand, Zonhoven, Belgium

Network

2019-2022	<u>Board member</u> , Thermische Analyse Werkgroep Nederland (TAWN)
-----------	---

Software

Microsoft office (Word, Excel, Powerpoint) and OriginLab

Interests

Finswimming, Travelling, Reading, Cooking, Board games

Publications

International peer reviewed publications (1st author)

- D. Baeten, V.B.F. Mathot, T.F.J. Pijpers, O. Verkinderen, G. Portale, P. Van Puyvelde, B. Goderis, Simultaneous Synchrotron WAXD and Fast Scanning (Chip) Calorimetry: On the (Isothermal) Crystallization of HDPE and PA11 at High Supercoolings and Cooling Rates up to 200 °Cs⁻¹, *Macromol. Rapid Commun.*, **2015**, *36*, 1184-1191
- D. Baeten, D. Cavallo, G. Portale, R. Androsch, V. Mathot, B. Goderis, Combining fast scanning chip-calorimetry with structural and morphological characterization techniques, In C. Schick and V. Mathot (Eds.), *Fast Scanning Calorimetry*, Springer, 2016

Conference presentations

Several international oral presentations (Italy, Spain, Switzerland, the Netherlands, USA and Poland) concerning fast scanning chip calorimetry combined with *in-situ* structural investigation techniques