Civil status

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Associate Professor: Natural polymers processing

Professional experience

Since 2008	Associate Professor at ENSIACET (INPT Toulouse) in the Laboratory of Agro-Industrial Chemistry.
2004 - 2008	Research engineer in the Fractionation & Transformation of Agro-Resources group of the Laboratory of Agro-Industrial Chemistry. Co-management of the Agromat platform and projects in collaboration with Vegeplast, PMI, The Green Factory.
2003 - 2004	Postdoctoral fellowship in the Key Center for Polymer Colloids (University of Sydney, Australia): “Enhancement of starch films properties by addition of chemically modified natural rubber latex”. Supervisor: Prof. R.G. Gilbert.
1998 - 2002	PhD Thesis in collaboration with TIAG Industries (Tulles, France) in the Laboratory de Agro-Industrial Chemistry (INRA/INP Toulouse, France): “New agro-materials obtained by thermo-mechanical transformation of two agricultural by-products: sugar beet pulp & sunflower oil cake.” Thesis advisor: Dr L. Rigal. Reviewer: Dr J. Guéguen et Dr. J.-F. Thibault (INRA, Nantes, France).

Scientific production & awards

3 Book Chapters.
2 Books for general audience.
32 Papers in peer-reviewed international scientific journals.
2 Patents.
5 Invited conferences.
15 Proceedings of oral presentations.
17 Proceedings of poster presentations.
1 Thesis price of “Le Monde de l'Education”.

List of five significant publications of the past five years

Rebière, J. et al. Structural modifications of cellulose samples after dissolution into various solvent systems. Anal Bioanal Chem 408, 8403–8414 (2016).

Lopez Hurtado, P., Rouilly, A., Raynaud, C. & Vandenbossche, V. The properties of cellulose insulation applied via the wet spray process. Building and Environment 107, 43–51 (2016).

Heikkinen, S. et al. Comparison of two wheat bran extracts in the sheet extrusion process. Industrial Crops and Products 91, 1–5 (2016).

Pintiaux, T., Viet, D., Vandenbossche, V., Rigal, L. & Rouilly, A. Binderless Materials Obtained by Thermo-Compressive Processing of Lignocellulosic Fibers: A Comprehensive Review. BioResources 10, (2015).

Pintiaux, T., Viet, D., Vandenbossche, V., Rigal, L. & Rouilly, A. High Pressure Compression-Molding of alpha-Cellulose and Effects of Operating Conditions. Materials 6, 2240–2261 (2013).