

Ionut BANU Lecturer

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Faculty of Applied Chemistry and Materials Science
Department of Chemical Engineering



Contact information

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Education and training

Dates	July 2009
Title of qualification awarded	PhD in Chemical Engineering/Materials Science
Principal subjects/occupational skills covered	„Modeling and optimization of tubular polymerization reactors”
Name and type of organisation providing education and training	“Politehnica” University of Bucharest, Faculty of Applied Chemistry and Materials Science; University “Claude Bernard, Lyon 1, France
Dates	October 1998 –July 2003
Title of qualification awarded	Bachelor of Science
Principal subjects/occupational skills covered	Chemical engineering
Name and type of organisation providing education and training	„Politehnica” University of Bucharest, Faculty of Industrial Chemistry

Professional experience

Dates	2010-2012	2012-Present
Occupation or position held	Research/Teaching Associate	Lecturer
Main activities and responsibilities	Research and development of catalytic processes for petrochemical industries	Lectures, seminars, laboratories and projects in chemical engineering fields
Name and address of employer	The Petroleum Institute, Abu Dhabi, UAE	“Politehnica” University of Bucharest
Type of business or sector	Teaching, research and development	Teaching, research and development

Academic and research interests

Chemical process modeling and optimization; Kinetics of catalytic and polymerization processes; Reactive extrusion of polymers;

Teaching activity

Study cycle (MSc/BSc)	Specialization name	Discipline code in Curricula	Discipline name	Activity type (course, project, laboratory, etc)
MSc	PFC		Design of experiments	Lecture
BSc	CISOPP		Chemical Reactors	Lecture

Publication (selective):**Articles** (eventual cu link-uri care lucrarile publicate on-line)

1. J. P. Puaux, I. Banu, I. Nagy, G. Bozga, *A study of L-lactide ring-opening polymerization kinetics*, Macromolecular Symposia, 259 (1), **2007**, 318 – 326.
2. Banu I., G. Bozga, I. Nagy, J. P. Puaux, *A Comparison of Variational and Genetic Algorithm Performances in the Optimization of a Polymerization Process*, Chemical Engineering and Technology, 31(10), **2008**, 1516-1525.
3. Banu I., S. Bildea, G. Bozga, J. P. Puaux, *Simulation of a laminar flow tubular reactor*, Studia Universitatis Babes-Bolyai Chemia, (Romania) 1, **2009**, 227-242.
4. Banu I., N. D. Stanciu, J. P. Puaux, G. Bozga, *A study of L-lactide ring-opening polymerization in molten state*, U.P.B. Sci. Bull., Series B, (Romania) 71(2), **2009**.
5. Banu I., J. P. Puaux, G. Bozga, I. Nagy, *Modeling of L-lactide polymerization by reactive extrusion*, Macromolecular Symposia, 289(1), **2010**, 108-118.
6. I. Stoica, I. Banu, G. Bozga, *An analysis of the stabilization mechanism of reverse flow reactors with applications in catalytic VOC combustion*, Studia Universitatis Babes-Bolyai Chemia , 58 (4), 227-241, **2013**

Research projects (eventual cu link-uri care paginile web daca exista)**Other information**