

# DINCULESCU Daniel Dumitru

## Lecturer

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### Contact information

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### Education and training

Dates	2009-2010
Title of qualification awarded	
Principal subjects/occupational skills covered	Postdoctoral research stage "Fatty acid esters purification through a membrane process: experimental and modelling studies"
Name and type of organisation providing education and training	Institut Européen des Membranes, Montpellier, France
Level in national or international classification	
Dates	October – December 2006
Title of qualification awarded	
Principal subjects/occupational skills covered	Postdoctoral research stage "Experimental study of local axial mixing in a pilot-scale cold burner"
Name and type of organisation providing education and training	Vrije Universiteit Brussel, Belgium
Level in national or international classification	
Dates	1993-1999
Title of qualification awarded	PhD
Principal subjects/occupational skills covered	Mass transport investigation PhD thesis: <i>Mass transport through mobile interfaces</i>
Name and type of organisation providing education and training	University POLITEHNICA of Bucharest, Romania
Level in national or international classification	
Dates	May – July 1997
Title of qualification awarded	
Principal subjects/occupational skills covered	TEMPUS grant - characterization of liquid membranes, modeling of mass transfer with liquid membranes
Name and type of organisation providing education and training	Dip. Scienza dei Materiali e Ingegneria Chimica, Politecnico di Torino, Italy
Level in national or international classification	
Dates	1981-1986
Title of qualification awarded	Mechanical&Chemical engineer
Principal subjects/occupational skills covered	Chemical process modeling, design of chemical equipment
Name and type of organization providing education and training	University POLITEHNICA of Bucharest
Level in national or international classification	

## Professional experience

Dates	September 1991 onwards
Occupation or position held	Teaching assistant (1991-1999), assistant professor (1999 onwards)
Main activities and responsibilities	Courses, laboratories, seminars and research activities
Name and address of employer	University POLITEHNICA of Bucharest, 313 Splaiul Independentei, 060042 Bucharest
Type of business or sector	Higher Education/Research and development
Dates	1986-1991
Occupation or position held	Chemical engineer
Main activities and responsibilities	Chemical production and equipments maintenance and design
Name and address of employer	Victoria Factory, Targoviste, Dambovita County, Romania
Type of business or sector	Industry

## Academic and research interests

Separation processes, liquid membranes, solid membranes

## Teaching activity

*Se completeaza conform indicatiilor din tabel*

Ciclu (Master/licenta)	studii specializare	Denumire	Cod disciplina din planul de invatamant	Titlu disciplina de	Tip activitate (curs/proiect/laborator etc)
Licenta	Anul I		UPB.11.F.02.O.015	Elemente de mecanica si inginerie mecanica	Curs/Seminar
Master		Biocombustibili, biorafinarii si tehnologii conexe	UPB.11S.09.O.0104	Transfer de masă în sisteme polifazice	Curs/Seminar
Master		Managementul si ingineria afacerilor	UPB.11.S.11.O.1604	Managementul riscurilor	Curs/Seminar
Licenta	IIPCB		UPB.11.S.06.O.521	Evaluarea riscului in industria chimica si biochimica	Lucrari
Licenta	IIPCB		UPB.11S.07.O.501	Operații de transfer de masă	Proiect/Laborator
Licenta	CEPA		UPB.11.T.03.O.204	Operatii unitare in ind.alimentara 1	Lucrari
Licenta	CEPA		UPB.11.T.04.O.211	Operatii unitare in ind.alimentara 2	Lucrari/Proiect

## Publication (selective):

### Articles

D. Dinculescu, A. Guzun-Stoica, T. Dobre, O. Floarea *Experimental investigation of citric acid reactive extraction with solvent recycling*, 2000, Bioprocess Engineering, 22(6), pg. 529-531

Daniel Dinculescu, Vasile Lavric, *Recycled liquid membranes use for oxalic acid recovery. Mathematical model and functional optimization*, 17th European Symposium on Computer Aided Process Engineering – ESCAPE17, 27-30 May 2007, Bucharest (publicată în 17<sup>th</sup> European Symposium on Computer Aided Process Engineering - ESCAPE 17 (Eds. V. Pleșu and P.Ș. Agachi), Computer-Aided Chemical Engineering, vol. 24, p. 201 - 206, Elsevier, 2007

D. Dinculescu, V. Lavric, *Mathematical Model of the Liquid Membrane Extractive Column. Sensitivity to Operating Parameters*, Revista de chimie, 59 (3) 2008, p. 336-342.

D. Dinculescu, V. Lavric, *Statistical optimum operating parameters search for the extraction-back-extraction column*, Revista de chimie, 60 (2) 2009, p. 164-170.

Daniel Dumitru Dinculescu, Elena Daniela Lavric, Alexander A. Konnov, Jacques De Ruyck and Vasile Lavric, *Experimental Study of Local Axial Mixing in a Pilot –Scale Cold Burner*, Ind. Eng. Chem. Res., 50 (2), 2011, p 1070-1078

### **Research projects**

- Contract CCMMM 48-93-11/1993 *Utilizarea membranelor celulozice în separările prin ultrafiltrare*
- Proiect CEEEX nr. 1/6.10.2005 *Optimizarea moleculară a unei enzime centrale din calea metabolică a conversiei xilozei. Reactor optimizat pentru transformarea enzimatică a xilozei rezultate din deșeurile celulozice (OMEXIL) 2005 – 2008*
- Proiect AGRAL nr. 70/2006, Subcontract nr. 5/02.10.2006 *Tehnologie de concentrare prin materiale permselective a complexșilor bioactivi din țesuturile tinere ale plantelor (BIOCOMPLEX) 2006 – 2008*
- Programul CEEEX nr. 273/12.09.2006 *Combustibili emulsionați pentru o ardere curată (CEPAC) 2006 – 2008*
- Contract de finanțare subsidiar (FEDR) nr. 43555/08.06.2012 *Programul de Cooperare Transfrontalieră România - Bulgaria 2007-2013 Danube WATER - Managementul integrat al apelor (WATER) (2SR-2.1-1, MIS ETC 161) 2012 – 2014*