

# GÎJIU Cristiana Luminița

## Lecturer

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### Contact information

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### Education and training

Dates	2010-2011
Title of qualification awarded	
Principal subjects/occupational skills covered	Postdoctoral research stage « Enzymatic synthesis of natural label esters in supercritical fluids»
Name and type of organisation providing education and training	Institut Européen des Membranes, Montpellier, France
Level in national or international classification	
Dates	2008-2009
Title of qualification awarded	
Principal subjects/occupational skills covered	Postdoctoral research stage « Modélisation de la chromatographie d'affinité sur membrane hybride alumine pour la purification de protéines »
Name and type of organisation providing education and training	Institut Européen des Membranes, Montpellier, France
Level in national or international classification	
Dates	1997-2006
Title of qualification awarded	PhD
Principal subjects/occupational skills covered	Membrane gas separation PhD thesis: <i>Étude et modélisation des mécanismes de transport de gaz à travers des membranes zéolithe</i>
Name and type of organization providing education and training	University POLITEHNICA of Bucharest, Romania – PhD diploma Laboratoire des Membranes et Procédés Membranaires, Montpellier, France – research stages
Level in national or international classification	
Dates	1994-1995
Title of qualification awarded	Master in Chemical Engineering
Principal subjects/occupational skills covered	Advanced separations and purifications modeling
Name and type of organization providing education and training	University POLITEHNICA of Bucharest
Level in national or international classification	
Dates	1989-1994
Title of qualification awarded	Chemical engineer
Principal subjects/occupational skills covered	Chemical process modeling, design of chemical equipment
Name and type of organisation providing education and training	University POLITEHNICA of Bucharest
Level in national or international classification	

## Professional experience

Dates	September 1995 onwards
Occupation or position held	Teaching assistant (1995-2003), lecturer (2003 onwards)
Main activities and responsibilities	Courses, laboratories, seminars and research activities
Name and address of employer	University POLITEHNICA of Bucharest
Type of business or sector	Higher Education/Research and development

## Academic and research interests

Membrane separations processes

## Teaching activity

*Se completeaza conform indicatiilor din tabel*

<i>Ciclu (Master/licenta)</i>	<i>studii</i>	<i>Denumire specializare</i>	<i>Cod disciplina din planul de invatamant</i>	<i>Titlu disciplina</i>	<i>Tip activitate (curs/proiect/laborator etc)</i>
<i>Licenta</i>		<i>Ingineria Informatica Proceselor Chimice Biochimice</i>	<i>si UPB.11.S.07.O.507</i>	<i>Separari cu membrane in biotehnologii</i>	<i>Curs/lucrari</i>
<i>Licenta</i>		<i>SIPOL</i>	<i>UPB.11.T.05.O.703</i>	<i>Operatii unitare in industriile de proces</i>	<i>Lucrari</i>
<i>Licenta</i>		<i>SIPOL</i>	<i>UPB.11.T.06.O.713</i>	<i>Operatii unitare in industriile de proces</i>	<i>Lucrari</i>
<i>Licenta</i>		<i>CATB</i>	<i>UPB.11.T.06.O.412</i>	<i>Operatii unitare in industriile de proces</i>	<i>Proiect</i>
<i>Licenta</i>		<i>CEPA</i>	<i>UPB.11.T.04.O.211</i>	<i>Operatii unitare in ind.alimentara 2</i>	<i>Lucrari/proiect</i>

## Publication (selective):

### Books

- R. Dima, C.L. Gijiu, V. Pleșu – Ingineria Separărilor cu Membrane, Ed. Bren (1999)
- T. Danciu, R. Isopescu, C.L. Gijiu *TURBO PASCAL – Travaux pratiques (pour les étudiants en Génie Chimique)* Bren Prod. S.R.L. (1999)

### Articles (eventual cu link-uri care lucrarile publicate on-line)

- J. Sanchez, C.L. Gijiu, V. Hynek, O. Muntean, A. Julbe *The application of transient time-lag method for the diffusion coefficient estimation on zeolite composite membranes* Sep. & Purif. Technol. 25 (2001) 467 – 474
- J. Romero, C. Gijiu, J. Sanchez, G.M. Rios *A unified approach of gas, liquid and supercritical solvent transport through microporous membranes*, Chem. Eng. Sci. 59 (2004) 1569 – 1576
- R. Dima, F. Zamfirescu, C.L. Gijiu, V. Dima *Modelarea procesului de dizolvare a sării geme din zăcământul Ocnele Mari* Revista de chimie 55(8) (2004) 609 – 613
- E. Stepan, S. Velea, C. Enășcuță, G.I. Marton, C.L. Gijiu *Cinetica reacției de transesterificare a uleiului de floarea soarelui* Revista de chimie 57(7) (2006) 693 – 698
- C.L. Gijiu, J. Sanchez, R. Isopescu, R. Dima, O. Muntean, *L'étude expérimentale de la perméation des gaz à travers les membranes zéolithe*, U.P.B. Sci. Bull., Series B, vol. 68(4) (2006) 3 – 12
- C.L. Gijiu, R. Dima, *Experimental HETP evaluation of KATAPAK®-s corrugated structured packing*, Revista de chimie 62(9) (2011) 908-910
- C.L. Gijiu, R. Dima, R.D. Isopescu, *Colmatarea membranelor la microfiltrarea frontală a suspensiilor de drojdie*, Revista de chimie 63 (1) (2012) 60-63

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

- Contract de cercetare UPB – MCT (Nr. 48-95-23) *Modelarea operațiilor de separare cu membrane* 1995 - 1997
- Grant CNCSIS (Nr. UPB 48-20-13) *Utilizarea membranelor lichide în procese de extracție cu regenerarea solventului* 2000 - 2001
- Proiect tehnic cu Ministerul mediului *Lichidarea situației din câmpul de sonde Ocnele Mari și reconstrucția ecologică a zonei – etapa a 2-a* noiembrie 2003
- Contract PNCDI, programul INVENT 1619/2004 *Tehnologie de sinteză a sărurilor acizilor grași în solvent* 2004 – 2006
- Proiect CEEEX nr. 1/6.10.2005 *Optimizarea moleculară a unei enzimei 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)