

**Nume:** Bozga Grigore

**Funcție:** profesor

**D epartament:** Inginerie Chimică și Biochimie

**G rupul de corectare (dacă este cazul):**

## FOTOGRAFIE

### Date biografice

Perioada	Pozitie ocupata
1996-prezent	Profesor
1990-1996	Conferentiar
1982-1990	Sef lucrari
1978-1982	Asistent
1971- 1978	Inginer; cercetator stiintific, Institutul Central de Informatica, Bucuresti
1985	Doctor in Inginerie Chimica, Institutul Politehnic Bucuresti, Conducator Stiintific: Prof.dr.ing. Raul Mihail
1966-1971	Student, Facultatea de Chimie Industriala, Institutul Politehnic Bucuresti

### Cercetare

- Analiza, modelarea matematica si optimizarea proceselor chimice
- Cinetica proceselor etrogene

### Proiecte cercetare la care am participat in calitate de director de proiect (selectie):

- *Procedeu nou de sinteză a TAME bazat pe distilarea reactivă, cu utilizarea umpluturilor structurate*, U.P. Bucureşti (CTTIP, Catedra de Inginerie Chimică) -AMCSIT Politehnica, Proiect RELANSIN, nr. 943/10.11.2000.
- *Optimizarea distributiei spatiale a componentelor active la catalizatori bifunctionali*, Grant CNCSIS, tip A/2003, Contract 40528/2003, cod CNCSIS: 747 (faze anuale in perioada 2003-2005).
- *Noi materiale catalitice pentru depoluarea efluentilor gazosi industriali*, contract in cadrul programului CEEX, U.P. Bucureşti (CTTIP, Catedra de Inginerie Chimică) –U.P.G. Ploiesti, nr.



40-3/2005 (UPB)-Contract CEEEX nr. 14/2005, titular U.P.G. Ploiești (faze anuale în perioada 2005-2008).

- *Noi procedee de valorificare a glicerinei rezultata la sinteza biodieselului – GLICEVAL*, Proiect PN2 nr. 71053 /14.09.2007 (faze anuale în perioada 2007-2010).

## Achiziții academice

### Activitate didactică (în prezent)

Program Studii	Specializare/Facultate	Cod	Titlu disciplina	Tip activitate
Licenta	Ingineria si informatica proceselor chimice si biochimice (IIPCB) /Facultatea de Chimie Aplicata si Stiinta Materialelor	.....	Reactoare chimice si biochimice	Curs
	Cimia si Ingineria Substanțelor Organice, Petrochimice si Carbochimie (CISOPC)/Facultatea de Chimie Aplicata si Stiinta Materialelor		Reactoare chimice	Curs
Master	-	-		

### Alte activități didactice (în trecut)

#### Curseuri predătoare:

- Dinamica proceselor chimice;
- Conducerea cu calculatorul a proceselor chimice.

#### Profesor invitat

Universitatea Claude Bernard, Lyon; mai-iunie 2003;

Institutul Politehnic Nancy, Franta; noiembrie-decembrie 2003.

#### Titluri și premii

##### Premii

- 2002 – Premiul “Nicolae Teclu” al Academiei Romane pentru lucrari stiintifice publicate in anul 2000;  
2004 - Diploma de Onoare a Societatii Romane de Chimie;

#### Membru în Organizații Profesionale

Membru al Societatii de Inginerie Chimica din Romania ;  
Membru al Societatii de Chimie din Romania;  
Membru corespondent al Academiei de Stiinte Tehnice din Romania;



### Alte activități semnificative

- Sef Catedra/Departament Inginerie Chimica si Biochimica, 1996- prezent ;
- Membru al Comisiei de Specialitate Inginerie Chimica si Stiinta Materialelor din cadrul CNATDCU- MECI (presedinte al comisiei in perioada 2006- 2010);
- Director Subprogram in cadrul Programului de Cercetare MATNANTECH (2001-2008);
- Presedinte executiv al Societatii de Inginerie Chimica din Romania- /1996-1999/)
- Prodecan al Facultatii de Chimie Industriala (1990-1992).
- referent la revistele stiintifice: Revista de Chimie (Bucuresti), Revue Roumaine de Chimie, Scientific Bulletin UPB, Chemical Engineering Science, Chemical Engineering and Technology, Chemical Engineering Journal, Polymer Engineering and Science, Journal of Hazardous Materials, Fuels Processing and Technology, Biochemical Engineering Journal, International Journal of Chemical Kinetics etc.

### Publicații

#### Nr.total carti, articole, conferinte, brevete

14 carti (din care 7 cursuri universitare si monografii), 77 de articole in reviste nationale si internationale (din care 58 in reviste cotate ISI), 51 lucrari publicate in volumele unor congrese si conferinte internationale, 45 de contracte de cercetare (director la 24).

#### Articole publicate in reviste de specialitate (selectie)

G. Bozga, "Optimization of Direct and Indirect Cooled Multiple-Bed Reactors Experiencing Catalyst Decay", *Chem. Engineering and Technology*, vol. 22, nr. 1, pg. 57-63, 1999.

J. P. Puaux, G. Bozga, Ainsler A., Residence Time Distribution in a Co-rotating Twin-Screw Extruder, *Chemical Engineering Science*, vol.55, 1641 –1651 (2000).

I. Iliuta, G. Bozga, M. Lupascu, Liquid-Phase Alkylation of Benzene with Propylene Catalysed by HY Zeolites, *Chem. Engineering and Technology*,24(9),pag. 933-944, 2001.

J. P. Puaux, Ph. Cassagnau, Gr. Bozga, I. Nagy, Modeling of Polyurethane Synthesis by Reactive Extrusion, *Chemical Engineering and Processing*, vol. 45 (6), pag. 481- 487, 2006.

J. P. Puaux, I. Banu, I. Nagy, Gr. Bozga, A Study of L-Lactide Ring-Opening Polymerization Kinetics, *Macromolecular Symposia*, vol. 259, 2007, pg. 318–326.

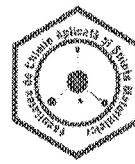
I. Banu, Gr. Bozga, I. Nagy, J. P. Puaux, A comparison of variational and genetic algorithms performances in the optimization of a polymerization process, *Chem. Engineering and Technology*, vol. 31, 10, 1516-1525 (2008).

Gr. Bozga, A. Motelica, R. Dima, V. Plesu, A. Toma, C. Simion, Evaluation of published kinetic models for tert-amyl ethyl ether synthesis, *Chemical Engineering and Processing*, vol. 47, 2247–2255(2008).

M. Bosomoiu, Gr. Bozga, D. Berger, C. Matei, Studies on combustion catalytic activity of some pure and doped lanthanum cobaltites, *Applied Catalysis B: Environmental*, 84 (2008), 758–765.

Gr. Pop, Gr. Bozga, R. Ganea, N. Natu, Methanol Conversion to Dimethyl Ether over H-SAPO-34 Catalyst, *Industrial & Eng. Chemistry Research*, 2009, 48, 7065–7071.

E. F. Tuta, Gr. Bozga, Performance Assessment by Simulation of a Gas-Recycle Oxsynthesis Plant with Propylene Recovery, *Industrial & Eng. Chemistry Research*, 2011, Volume 50, Issue 8, pag. 4545- 4552



C. M. Manta, Gr. Bozga, G. Bercaru and C. Sorin Bildea, A Study of White-Spirit Vapor Combustion on Pt/Al<sub>2</sub>O<sub>3</sub> Catalyst, *Chemical Engineering & Technology* 2011, 34, No. 10, pg. 1739-1744.

C. M. Manta, G. Bozga, G. Bercaru and C. Sorin Bildea, Kinetics of o-xylene combustion over Pt/alumina catalyst, *Chemical Engineering & Technology*, Vol. 35, (12), pg. 2147-2154, 2012.

E. Vlad, C.S. Bildea, G. Bozga, Robust Optimal Design of Glycerol Etherification Process, *Chemical Engineering & Technology*, 36(2), 2013, pp. 251-258.

E.F. Tuta, G. Bozga, A Kinetic Study of the Liquid Phase 2-ethyl-2-hexenal Hydrogenation over Ni-Cu/silica Catalyst, *Rev. Chimie*, 65 (5), 2014, pp. 603-607.

### Cărți (selectie) 1)

G. Bozga, I. Nagy, Réacteurs Chimiques. Théorie et Applications, Editura BREN, Bucureşti, 2001.

G. Bozga, O. Muntean, Reactoare Chimice, vol. I. și II. Ed. Tehnică, Bucureşti, 2000.

E. Danciu, G. Bozga, Bazele Inginieriei Chimice, vol. 1 și 2, Centrul de multipl. UPB, 1985.

O. Muntean, A. Woynaroschy, G. Bozga, Aplicații la Calculul Reactoarelor Chimice, Ed. Tehnică, Bucureşti, 1984.

### Capitole in cărți (selectie)

#### Conferințe științifice (selectie)

G. Soare, Gr. Bozga, R. Dima, V. Plesu, Experimental Study of Solid -- Liquid Mass Transfer in Column with Structured Packing, 15'th International Congress of Chemical and Process Engineering, CHISA, Praga, 2002.

M. Boșomoiu, Gr. Bozga, I. Nagy, Methane combustion in fluidized bed reactors. Mathematical modelling and simulation, Conferința RICCCE, U.P. Bucureşti, 2003.

J. P. Puaux, P. Cassagnau, Gr. Bozga, Modeling of Polyurethane Synthesis by Reactive Extrusion, International Conference "Polymer Reaction Engineering: Modelling, Optimisation and Control", Lyon, France, 2003.

Bumbac Gh., Bozga Gr., Dima R., Popescu D. C., Toma A., Kinetic Studies on the Etherification of C5 alkenes,to Fuel Ether TAME, 32nd Int. Conference of SSChE, Slovakia, 2005.

I. Nagy, J. P. Puaux, Gr. Bozga, The Influence of Macromixing on Polyurethane Synthesis by Reactive Extrusion, RICCCE XIV, Bucuresti 2005.

Bumbac Gh., Bozga Gr., Ivanescu I., Simion C., Toma A., Kinetic Studies on the Etherification of C5 alkenes,to Fuel Ether TAME, 33'rd Int. Conference of SSChE, Slovakia, 2006.

Gr. Bozga, D. Bombos, Optimization of Pd Distribution in a Pd/HZSM5-Al<sub>2</sub>O<sub>3</sub> Catalyst for Acetone reductive Condensation to MIBK, Invited conference, 5'th Int. Conference of Chemical Societies of SE Europ. Countries, Ohrid, 2006.

J. P. Puaux, I. Banu, I. Nagy and Gr. Bozga, Optimization of a tubular reactor for MMA polymerization in solution, International Conference "Modeling, Monitoring and Control of Polymer Properties ", Lyon, France, 2007.

M. Boșomoiu, Gr. Bozga, D. Berger, C. Matei, Kinetics of methane combustion on different catalysts, 18'th International Congress of Chemical and Process Engineering, Praga, 2008.

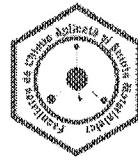
E. F. Tuță, I. Lepădatu-Mazilu, Gr. Bozga, Evaluation of some solid catalysts for 2-ethyl-2-hexenal synthesis, 35rd Int. Conference of SSChE, Slovakia, 2008.

Gr. Pop, Ganea R., Natu N., Bozga Gr., Catalysts for methanol conversion to dimethyl ether, 14'th International Congress on Catalysis, 2008, Seoul.

C. S. Bildea, C. Brunchi, Gr. Bozga, Analysis of chemical routes and processes for production of glycerol ethers, 19<sup>th</sup> European Symposium on Computer Aided Process Engineering, 2009.



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Facultatea de Chimie Aplicată și Știința Materialelor



C. S. Bildea, E. Zaharia, Gr. Bozga, Proiectarea conceptuală a unui proces de fabricare a propilen glicolului din glicerină, *Romanian International Conference in Chemistry and Chemical Engineering (RICCCE)*, 2009.

G. Bozga, Une étude du procédé de dépollution des mélanges gazeux par combustion catalytique, Conferinta invitata, Colloque Franco-Roumain de Chimie Appliquée, Orleans, 2010.

E. Vlad , C.S. Bildea, E. Zaharia, G. Bozga, Conceptual design of glycerol etherification processes, *21st European Symposium on Computer Aided Process Engineering, Computer Aided Chemical Engineering*, 2011.

I. Stoica, I. Banu, G. Bozga, An analysis of unsteady state autothermal catalytic fixed bed reactors, *Romanian International Conference in Chemistry and Chemical Engineering (RICCCE)*, 2013.