

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **DAN CASCAVAL**
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E-mail(s) dancasca@tuiasi.ro; dancasca@yahoo.com
Nationality Romanian
Date of birth 20/11/1964
Gender Male

Work experience

Dates **from 1 October 1990 until now**
Occupation or position held Teaching in Higher Education field;
 Professor
Main activities and responsibilities Teaching and research activities;
 2008-2016: Dean of the faculty of Chemical Engineering and Environmental Protection
 2016 until now: Rector
Name and address of employer "Gheorghe Asachi" Technical University of Iasi, Mangeron 67, 700050 Iasi (Romania)
Type of business or sector Education

Education and training

Dates 1984 - 1989
Title of qualification awarded Chemical engineer
Name and type of organisation providing education and training Polytechnic Institute of Iasi, Faculty of Chemical Technology
 Mangeron 73, 700050 Iasi (Romania)
Dates 1990 - 1997
Title of qualification awarded Ph.D
Principal subjects / occupational skills covered Liquid-liquid extraction; Reactive extraction.
Name and type of organisation providing education and training Polytechnic Institute from Iasi, Faculty of Industrial Chemistry
 Mangeron 67, 700050 Iasi (Romania)

Personal skills and competences

Mother tongue(s) **Romanian**
Other language(s)

Self-assessment
European level ()*

English
French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B1		C1		B2		B2		C1	
B2		B2		B1	Independent user	A2	Basic User	A2	Basic User

(*) [Common European Framework of Reference \(CEF\) level](#)

Social skills and competences	teamwork, native communication skills
Organisational skills and competences	Project management experience, team organizing and coordinating abilities
Technical skills and competences	Specialist in using chemical and biochemical operations and equipments.
Computer skills and competences	Competence with most of the Microsoft packages
Other skills and competences	Hobby: gardening, fishing, music
Additional information	<p>Main and co-author of 13 books, 10 chapters, over 350 published papers (over 140 ISI ranked publications) and 11 patents (H index: 18).</p> <p>Ph.D.-supervisor in the domain of Chemical Engineering (10 Ph.D.-thesis defended, 4 Ph.D.-students included now in the doctoral program, 5 postdoctoral programs finalized).</p> <ul style="list-style-type: none"> • Books and Chapters (selectively): • C. Oniscu, D. Cascaval, <i>Biochemical engineering and biotechnology</i>, vol. 1, InterGlobal, Iasi, 2002 (ISBN 973-99683-3-3) • D. Cascaval, C. Oniscu, A.I. Galaction, <i>Biochemical engineering and biotechnology</i>, vol. 2, InterGlobal, Iasi, 2002 (ISBN 973-99683-4-1) • D. Cascaval, C. Oniscu, A.I. Galaction, <i>Galaction, Biochemical engineering and biotechnology</i>, vol. 3, Performantica, Iasi, 2004 (ISBN 973-7994-23-X) • A.I. Galaction, D. Cascaval, <i>Secondary metabolites with pharmaceutical, cosmetic and food applications</i>, Venus, Iasi, 2006 (ISBN 973-756-000-0) • D. Cascaval, A.I. Galaction (Editors), <i>Biotechnology between science and art</i>, Venus, Iasi, 2007 (ISBN 978-973-756-052-0) • Published papers (selectively): • Alexandra Blaga, Corina Ciobanu, Dan Cașcaval, Anca-Irina Galaction, <i>Enhancement of ergosterol production by Saccharomyces cerevisiae in batch and fed-batch fermentation processes using oxygen-vectors</i>, <i>Biochemical Engineering J.</i> 2018, 131, 70-76. • Anca-Irina Galaction, Amalia-Stela Bompa, Lenuța Kloetzer, Marius Alexandru Turnea, Dan Cașcaval, <i>Synergic effects on pantothenic acid extraction and transport through liquid membranes</i>, <i>Bulletin of the Chemical Society of Japan</i> 2016, 89(1), 33-41. • Ramona-Mihaela Matran, Anca-Irina Galaction, Alexandra Cristina Blaga, Marius Turnea, Dan Cașcaval, <i>Distribution of Mixing Efficiency in a Split-Cylinder Gas-Lift Bioreactor with Immobilized Yarrowia Lipolytica Cells Used for Olive Oil Mill Wastewater Treatment</i>, <i>Chemical Engineering Communications</i> 2016, 203(5), 666-675. • Anca-Irina Galaction, Amalia-Stela Bompa, Lenuța Kloetzer, Marius Alexandru Turnea, Dan Cașcaval, <i>Synergic extraction and transport of folic acid through liquid membranes</i>, <i>Solvent Extraction and Ion Exchange</i> 2015, 33(3), 313-328. • Dan Cașcaval, Ramona Mihaela Matran, Marius Turnea, Alexandra Cristina Blaga, Anca-Irina Galaction, <i>Distribution of mixing efficiency in a split-cylinder gas-lift bioreactor for Yarrowia lipolytica suspensions</i>, <i>Canadian J. Chemical Engineering</i> 2015, 93(1), 18-28. • Anca-Irina Galaction, Madalina Poștaru, Lenuța Kloetzer, Alexandra Cristina Blaga, Dan Cașcaval, <i>Separation of rosmarinic acid by facilitated pertraction</i>, <i>Food and Bioproducts Processing</i> 2015, 94, 621-628. • Alexandra Cârlescu, Alexandra Cristina Blaga, Anca-Irina Galaction, Marius Turnea, Dan Cașcaval, <i>Interfacial mass transfer in the reactive extraction process of succinic acid from viscous aqueous solutions</i>, <i>Separation Science and Technology</i> 2014, 49(7), 974-980. • Lenuța Kloetzer, Dan Cașcaval, Anca-Irina Galaction, <i>Influence of solvent polarity on interfacial mechanism and efficiency of succinic acid reactive extraction with tri-n-octylamine</i>, <i>Chemical Engineering Communications</i> 2013, 200(5), 701-717. • Anca-Irina Galaction, Madalina Poștaru, Dan Cașcaval, Lenuța Kloetzer, <i>Selective separation of carboxylic acids obtained by succinic acid fermentation using facilitated pertraction</i>, <i>Solvent Extraction and Ion Exchange</i> 2013, 31(2), 171-183. • Lenuța Kloetzer, Mădălina Poștaru, Anca-Irina Galaction, Alexandra Cristina Blaga, Dan Cașcaval, <i>Comparative study on rosmarinic acid separation by reactive extraction with Amberlite LA-2 and D2EHPA. 1. Interfacial reaction mechanism and influencing factors</i>, <i>Industrial & Engineering Chemistry Research</i> 2013, 52(38), 13785–13794. • Dan Cașcaval, Anca-Irina Galaction, Marius Turnea, Anca Marcela Lupășteanu, <i>Biodegradation of lipids from olive oil mill wastewaters in a stationary basket bioreactor with immobilized Bacillus spp. cells – Influence of internal diffusion</i>, <i>Water Science and Technology</i> 2012, 65(5), 920-926.

- Anca-Irina Galaction, Lenuța Kloetzer, Marius Turnea, Colin Webb, Anestis Vlysidis, Dan Cașcaval, Succinic acid fermentation in a stationary-basket bioreactor with a packed bed of immobilized *Actinobacillus succinogenes*: 1. Influence of internal diffusion on substrate mass transfer and consumption rate, *J. of Industrial Microbiology and Biotechnology* 2012, 39(6), 877-888.
- Anca-Irina Galaction, Alexandra Cârlescu, Marius Turnea, Dan Cașcaval, Direct extraction of propionic acid from *Propionibacterium acidipropionici* broths with tri-*n*-octylamine, *Chemical Engineering & Technology* 2012, 35(9), 1657-1663.
- Dan Cașcaval, Marius Turnea, Anca-Irina Galaction, Alexandra Cristina Blaga, 6-Aminopenicillanic acid production in stationary basket bioreactor with packed bed of immobilized penicillin amidase - Penicillin G mass transfer and consumption rate under internal diffusion limitation, *Biochemical Engineering Journal* 2012, 69, 113-122.
- Dan Cașcaval, Lenuța Kloetzer, Anca-Irina Galaction, Influence of organic phase polarity on interfacial mechanism and efficiency of reactive extraction of acetic acid with tri-*n*-octylamine, *J. of Chemical & Engineering Data* 2011, 56(5), 2521-2526.
- Elena-Niculina Drăgoi, Silvia Curteanu, Florin Leon, Anca-Irina Galaction, Dan Cașcaval, Modeling of oxygen mass transfer in the presence of oxygen-vectors using neural networks developed by differential evolution algorithm, *Engineering Applications of Artificial Intelligence* 2011, 24, 1214-1226.
- Dan Cașcaval, Anca-Irina Galaction, Marius Turnea, Study of the influence of solute and carrier characteristics on facilitated pertraction mechanism in pseudosteady-state conditions, *J. of Membrane Science* 2009, 328 (1-2), 228-237.
- Dan Cașcaval, Anca-Irina Galaction, Nicoleta Nicuță, Alexandra-Cristina Blaga, Selective separation of gentamicins from the biosynthetic mixture by reactive extraction, *Separation and Purification Technology* 2007, 57(2), 264-269.
- Dan Cașcaval, Anca-Irina Galaction, Elena Folescu, Marius Turnea, Comparative study on the effects of *n*-dodecane addition on oxygen transfer in stirred bioreactors for simulated, bacterial and yeasts broths, *Biochemical Engineering Journal* 2006, 31(1), 56-66.
- Anca-Irina Galaction, Dan Cașcaval, Marius Turnea, Elena Folescu, Enhancement of oxygen mass transfer in stirred bioreactors using oxygen-vectors. 2. *Propionibacterium shermanii* broths, *Bioprocess and Biosystems Engineering*, 2005, 27(4), 263-271.
- Dan Cașcaval, Anca-Irina Galaction, Corneliu Oniscu, Selective pertraction of carboxylic acids obtained by citric fermentation, *Separation Science and Technology*, 2004, 39(8), 1907-1925.
- Anca-Irina Galaction, Dan Cașcaval, Corneliu Oniscu, Marius Turnea, Prediction of oxygen transfer coefficients in stirred bioreactors for bacteria, yeasts and fungus broths, *Biochemical Engineering J.* 2004, 20(1), 85-94.
- **Patents (selectively):**
 - Dan Cașcaval, Anca-Irina Galaction, Alexandra Blaga, Procedeu de separare a acidului cinamic, Patent RO 127015 B1/2014
 - Dan Cașcaval, Corneliu Oniscu, Procedeu de îndepărtare a acizilor carboxilici secundari din soluțiile apoase rezultate de la fermentația citrică, Patent RO 119629 B1/2005
 - Dan Cașcaval, Corneliu Oniscu, Instalație pentru studiul extracției și transportului printr-o membrană lichidă, Patent RO119690 B1/2005
 - Corneliu Oniscu, Veniamin Munteanu, Minodor Cojocar, Dan Cașcaval, Constantin Poncu, Adina Dumitrașcu, Procedeu de separare a sărurilor de penicilină G din soluție apoasă, Patent RO 107410 B1/30.11.1993
- **Grants and contracts:**
 - **grants:** 39 (4 international grants – 2 coordinator of Romanian partner; 35 national grants – 17 director)
 - **contracts:** 13 with research institutes and industrial companies (3 director)
 - **technologies applied at industrial scale:** 5