



## Europass Curriculum Vitae

### Personal information

**First name(s) / Surname(s)** **DAN CASCAVAL**  
**Address** Barnova 29 C, 700284 Iasi (Romania)  
**Telephone(s)** +40232278683  
**Fax(es)** +40232271311  
**E-mail(s)** dancasca@ch.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;  
 Dean of the faculty of Chemical Engineering and Environmental Protection  
**Name and address of employer** "Gheorghe Asachi" Technical University from Iasi, Mangeron 73, 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 |                  |         |                 |
| C1            | Proficient user  | B2      | Independent user | B2                 | Independent user | B1                | Independent user | C1      | Proficient user |
| B2            | Independent user | B2      | Independent user | B1                 | Independent user | A2                | Basic User       | A1      | 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 equipments.  |
| Computer skills and competences       | Competence with most of the Microsoft packages  |
| Other skills and competences          | Hobby: gardening, fishing, music  |
| <b>Additional information</b>         | <p>Main and co-author of 13 books, 10 chapters, over 300 published papers (over 120 ISI ranked publications) and 8 patents (<b>H index: 17</b>).</p> <p><b>Ph.D.-supervisor</b> in the domain of Chemical Engineering (8 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"> <li>• <b>Books and Chapters</b>(selectively):</li> <li>• C. Oniscu, D. Cascaval, <i>Biochemical engineering and biotechnology</i>, vol. 1, InterGlobal, Iasi, 2002 (ISBN 973-99683-3-3)</li> <li>• D. Cascaval, C. Oniscu, A.I. Galaction, <i>Biochemical engineering and biotechnology</i>, vol. 2, InterGlobal, Iasi, 2002 (ISBN 973-99683-4-1)</li> <li>• D. Cascaval, C. Oniscu, A.I. Galaction, <i>Galaction, Biochemical engineering and biotechnology</i>, vol. 3, Performantica, Iasi, 2004 (ISBN 973-7994-23-X)</li> <li>• A.I. Galaction, D. Cascaval, <i>Secondary metabolites with pharmaceutical, cosmetic and food applications</i>, Venus, Iasi, 2006 (ISBN 973-756-000-0)</li> <li>• D. Cascaval, A.I. Galaction (Editors), <i>Biotechnology between science and art</i>, Venus, Iasi, 2007 (ISBN 978-973-756-052-0)</li> <li>• <b>Published papers</b> (selectively):</li> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> <li>• 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 &amp; Engineering Chemistry Research</i> 2013, 52(38), 13785–13794.</li> <li>• 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.</li> <li>• Anca-Irina Galaction, Lenuța Kloetzer, Marius Turnea, Colin Webb, Anestis Vlysidis, Dan Cașcaval, <i>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</i>, <i>J. of Industrial Microbiology and Biotechnology</i> 2012, 39(6), 877-888.</li> <li>• Mădălina Poștaru, Alexandra Cârlescu, Anca-Irina Galaction, Dan Cașcaval, <i>Direct separation of propionic acid from Propionibacterium acidipropionici broths by reactive extraction 1. Interfacial mechanism and influencing factors</i>, <i>Environmental Engineering and Management Journal</i> 2012, 11(4), 709-716.</li> <li>• Anca-Irina Galaction, Alexandra Cârlescu, Marius Turnea, Dan Cașcaval, <i>Direct extraction of propionic acid from Propionibacterium acidipropionici broths with tri-n-octylamine</i>, <i>Chemical</i></li> </ul> |

*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.
- Lenuța Kloetzer, Anca-Irina Galaction, Dan Cașcaval, Facilitated pertraction of p-aminobenzoic acid with Amberlite LA-2 in presence of 1-octanol, *Separation Science and Technology* 2010, 45(10), 1440-1447.
- 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.
- Dan Cașcaval, Corneliu Oniscu, Selective Separation of Penicillin V from Phenoxyacetic Acid Using Liquid Membranes, *Biochemical Engineering J.* 2000, 5(1), 45-50.
- **Patents (selectively):**
  - Dan Cașcaval, Anca-Irina Galaction, Alexandra Blaga, Procedeu de separare a acidului cinamic, Brevet RO 127015 B1/2014
  - Dan Cașcaval, Corneliu Oniscu, Procedeu de îndepărtare a acizilor carboxilici secundari din soluțiile apoase rezultate de la fermentația citrică, Brevet RO 119629 B1/2005
  - Dan Cașcaval, Corneliu Oniscu, Instalație pentru studiul extracției și transportului printr-o membrană lichidă, Brevet 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, Brevet 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

