

## Europass Curriculum Vitae



### Personal information

**First name(s) / Surname(s)** **Sandra Budžaki**  
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**Nationality** Croatian  
**Date of birth** 27. 1. 1974.  
**Gender** Female

### Education and training

**Dates** 6.2.2009. -  
**Title of qualification awarded** PhD in Biotechnical Science, Food Technology, Engineering  
**Principal subjects/occupational skills covered** Topic: „Determination and prediction of thermal properties of unleavened dough during processing“  
**Name and type of organisation providing education and training** J. J. Strossmayer University of Osijek, Faculty of Food Technology Osijek, Croatia

**Dates** 16.4.2003.  
**Title of qualification awarded** MSc in Biotechnical Science, Food Technology, Engineering  
**Principal subjects/occupational skills covered** Topic: „Thermal properties of dough and heat and mass transfer in deep fat frying process“  
**Name and type of organisation providing education and training** J. J. Strossmayer University of Osijek, Faculty of Food Technology Osijek, Croatia

**Dates** 20.10.1997.  
**Title of qualification awarded** BSc in Biotechnical Science, Food Technology, Engineering  
**Principal subjects/occupational skills covered** Topic: „Application of image analysis to the analysis of emulsions“  
**Name and type of organisation providing education and training** J. J. Strossmayer University of Osijek, Faculty of Food Technology Osijek, Croatia

### Employment/Occupation

#### Work experience

**Dates** 13.7.2021. -  
**Occupation or position held** Full Professor  
**Main activities and responsibilities** TEACHING ACTIVITIES  
Teacher at the undergraduate and graduate level in the courses Engineering Thermodynamics, Thermotechnics, Energy and Environment, Process Ecological Engineering within the Department of Energy, Environment and Sustainable Development.  
Teacher at the postgraduate university study Food Technology and Nutrition in the course Energy Efficiency of the Food Industry Process.  
Teacher at the interdisciplinary graduate study programme "Biotechnology" in English in the courses

Enzyme Immobilization Techniques, Biofuels and Biorefineries, Energy Efficiency in Biotechnological Processing Facilities, Techno-Economic Assessment and Risk Analysis of Biotechnological Processes.

Teacher from the course Selected Chapters in Engineering within the Program for Acquiring Missing Knowledge, Skills and Competences for Enrollment in Graduate University Studies at the Faculty of Food Technology Osijek.

PROJECTS:

Project leader "Immobilization of Lipases on Functionalised Carriers Produced from Selected Agro-Food Industrial Waste", HRZZ, IP-02-2020-6878, 2021-2025.

Researcher on the project "Bioconversion of lignocellulosic material into high-quality animal feed - Bio4Feed", (KK.01.1.1.04.0107), funded by the European Regional Development Fund, 2019-2022.

Development of a lifelong learning program in the field of food technology, biotechnology and nutrition through the APA, member of Working Group 2, European Social Fund, 2019-2022.

Development of an Integrated Biocatalytic Microreactor System for Biodiesel Production, HRZZ, (IP-2016-06-7993), 2017-2021.

Potential of agroindustrial waste as a carrier for the immobilization of lipase in biodiesel production, leader, Osijek-Baranja County, 2018 - 2019.

Investment in innovative solutions and development of low-energy dryers, PTFOS Coordinator, European Regional Development Fund and Cohesion Fund of the Republic of Croatia, 2017-2019.

Development of an innovative process for biological treatment of agricultural waste in biogas production - ProBioTech, researcher, European Regional Development Fund, 2014-20163., 2014-2016.

THE MOST IMPORTANT SCIENTIFIC COLLABORATIONS:

Volker Hessel, Smith Sundaram, Enzyme Immobilization and Application in Microstructured Reactors, Eindhoven University of Technology, Eindhoven; Netherlands. Nam Nghiep Tran, Yung Ngothai, Chemical and enzymatic synthesis of biodiesel from waste oils and fats, The University of Adelaide, Adelaide, Australia. Bruno Zelić, Biocatalytic Biodiesel Production in Micro Reactors, University of Zagreb, Faculty of Chemical Engineering and Technology, Zagreb, R. Croatia. Johana Maia Dias, Biocatalytic hydrolysis, esterification and transesterification of waste oils and fats, Faculty of Engineering University of Porto, Porto, Portugal.

Name and address of employer	J. J. Strossmayer University of Osijek, Faculty of Food Technology Osijek, Croatia
Type of business or sector	Science and Higher Education
Dates	26.2.2016. – 13.7.2021.
Occupation or position held	Associate Professor
Name and address of employer	J. J. Strossmayer University of Osijek, Faculty of Food Technology Osijek, Croatia
Type of business or sector	Science and Higher Education
Dates	26.1.2010. – 26.2.2016.
Occupation or position held	Assistant Professor
Name and address of employer	J. J. Strossmayer University of Osijek, Faculty of Food Technology Osijek, Croatia
Type of business or sector	Science and Higher Education
Dates	25.11.1999. – 26.1.2010.
Occupation or position held	Assistant
Name and address of employer	J. J. Strossmayer University of Osijek, Faculty of Food Technology Osijek, Croatia
Type of business or sector	Science and Higher Education
Dates	1.12.1997. – 1.12.1998.
Occupation or position held	Young Researcher
Name and address of employer	Saponia d.d. Osijek, Matije Gupca 2, Croatia
Type of business or sector	Chemical industry, Research and Development

**Professional Development**

University of Novi Sad, Faculty of Technology Novi Sad, Serbia, 25.6.-15.7.2021. (CEEPUS fellowship)

Slovak University of Technology in Bratislava, Faculty of Chemical and Food Technology, Institute of Biotechnology, Department of Biochemical Technology, Bratislava, Slovakia, 3.1.-12.1.2020. (Erasmus+)

University of Novi Sad, Faculty of Technology Novi Sad, Serbia, 17.6.-5.7.2019. (CEEPUS fellowship)

Faculty of Engineering University of Porto, Department of Metallurgical and Materials Engineering, Portugal, 1.7.-30.7.2016. (Erasmus+ fellowship)

Eindhoven University of Technology, Department of Chemical Engineering and Chemistry/Micro Flow Chemistry and Process Technology, The Netherlands, 15. 6. – 30. 7. 2014. (Erasmus+ fellowship).

University of Ljubljana, Faculty of Chemistry and Chemical Technology, Slovenia, 1. 4. – 4. 4. 2010. (postdoc Scholarship from the National Science Foundation of the Republic of Croatia)

## Personal skills and competences

Mother tongue(s)

Other language(s)

Self-assessment

European level (\*)

**English**

**Croatian**

Understanding		Speaking		Writing	
Listening	Reading	Spoken interaction	Spoken production		
C2/C1	C2/C1	B2/C2	B2/C2	B2/C2	

(\*) *Common European Framework of Reference for Languages*

Organisational skills and competences

Coordinator at PTF Osijek for the CEEPUS student and teacher mobility program, 2012 - present  
Vice President of Organizing Committee 10th International Congress Flour-Bread '19 and 12th Croatian Congress of Cereal Technologists, 11-14.6.2019., Osijek, Croatia

As a member of the Secretariat of the conference, she participated in the organization of the international scientific congress "Flour-Bread" (2001, 2003, 2005, 2007 and 2009), and since 2011 she has been a member of the Organizing Committee.

Head of the Department of Thermodynamics and Reaction Engineering, Faculty of Food Technology Osijek, 2014 – 2019

2021 - Guest editor of a special issue of the journal Sustainability: Food Technology and Food Waste Utilization

2019 - Member of the editorial board of the Croatian Journal of Food Science and Technology

Computer skills and competences

MS Office, Corel Draw, Statistica

Awards

2005 Award to young scientist "Vera Johanides" of the Academy of Technical Sciences of Croatia

2021 Charter for respective work and achievements in teaching, scientific and professional activities of the Faculty of Food Technology Osijek

Artistic skills and competences

Active member of the Academic Choir "Strossmayer"

Memberships

2019 Global Harmonization Initiative, member

2014 Hrvatsko društvo kemijskih inženjera i tehnologa, member

2011 Association TechnOS - Association of Former Students and Friends of the Faculty of Food Technology Osijek, member

1997 European Federation of Chemical Engineering, member

1997 Društvo kemičara i tehnologa Osijek, member

Driving licence

B category

**Additional information**

Married and mother of two (Iva 17 and Jan 16)

6 months (from 1.10.2003. to 1.4.2004.) maternity and parental leave

15 months (from 30.3.2005. to 27.6.2006.) maternity and parental leave

**List of relevant publications in the last 5 years**

<https://bib.irb.hr/lista-radova?autor=232430>