

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Sandra Budžaki**
Address(es) Stonska 1b, 31 000 Osijek, Croatia
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E-mail sandra.budzaki@ptfos.hr
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 26.2.2016. -
Occupation or position held Associate Professor

Associate Professor at the Faculty of Food Technology Osijek

Main activities and responsibilities	<p>TEACHING ACTIVITIES: 2010 – Scientific area: Biotechnical Sciences (Thermodynamics, Energy and Environmental, Thermotechnics, Process ecological engineering Supervision of doctoral students and postdoctoral researchers, 2010 – 2018 15 BSc</p> <p>ORGANISATION OF SCIENTIFIC MEETINGS: 2019 10th International Congress Flour-Bread '19 and 12th Croatian Congress of Cereal Technologists, 11.-14.6.2019., Osijek, vice-president of Organization committee, R. Croatia 2017 9th International Congress Flour-Bread '17 and 11th Croatian Congress of Cereal Technologists, 25.-27.10.2017., Opatija, member of Organization committee / sci. / 220 /R. Croatia 2013 7th International Congress Flour-Bread '13 and 9th Croatian Congress of Cereal Technologists, 16.-18.10.2013., Opatija, member of Organization committee / sci. / 212 /R. Croatia 2011 6th International Congress Flour-Bread '11 and 8th Croatian Congress of Cereal Technologists, 12.-14.10.2011., Opatija, member of Organization committee / sci. / 209 /R. Croatia</p> <p>PROJECTS: 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. European Regional Development Fund and Cohesion Fund of the Republic of Croatia, 2017-2019. Development of an Integrated Biocatalytic Microreactor System for Biodiesel Production (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, associate, European Regional Development Fund, 2014-20163., 2014-2016.</p> <p>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.</p>
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, 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
 Head of the Department of Thermodynamics and Reaction Engineering, Faculty of Food Technology Osijek, 2014 - 2019

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

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 15 and Jan 14)
 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>

Tišma, M., Tadić, T., **Budžaki, S.**, Ostojčić, M., Šalić, A., Zelić, B., Tran, N.N., Ngothai, Y., Hessel, V.: Lipase Production by Solid-State Cultivation of *Thermomyces lanuginosus* on By-Products from Cold-Pressing Oil Production. *Processes*. 7 (2019), 465

Budžaki, S., Sundaram, S., Tišma, M., Hessel, V: Cost analysis of oil cake-to-biodiesel production in packed bed micro-flow reactors with immobilized lipases. *Journal of Bioscience and Bioengineering*. 128 (2019), 98-102.

Budžaki, S., Strelec, I., Krnić, M., Alilović, K., Tišma, M., Zelić, B: Proximate analysis of cold-press oil cakes after biological treatment with *Trametes versicolor* and *Humicola grisea*. *Engineering in life sciences*. 18 (2018), 924-931.

Budžaki, S., Miljić, G., Sundaram, S., Tišma, M., Hessel, V: Cost analysis of enzymatic biodiesel production in small-scaled packed-bed reactors. *Applied energy*. 210 (2018), 268-278.

Tran, N. N., Tišma, M., **Budžaki, S.**, McMurchie, E. I., Morales Gonzalez, O. M., Hessel, V., Ngothai, Y: Scale-up and economic analysis of biodiesel production from recycled grease trap waste. *Applied energy*. 229 (2018), 142-150.

Budžaki, S., Miljić, G., Tišma, M., Sundaram, S., Hessel, V: Is there a future for enzymatic biodiesel industrial production in microreactors?. *Applied energy*. 201 (2017), 124-134.

Budžaki, S., Šalić, A., Zelić, B., Tišma, M: Enzyme catalyzed biodiesel production from edible and waste cooking oil. *Chemical and biochemical engineering quarterly*. 29 (2015), 329-333.

Borges, J., Alvim-Ferraz, C., Almeida, M. F. Dias, J. M. **Budžaki, S.**: Enzymatic esterification of pre-treated and untreated acid oil soapstock. *WASTES – Solutions, Treatments and Opportunities II: Selected Papers from the 4th Edition of the International Conference on Wastes: Solutions, Treatments and Opportunities*. Vilarinho, C., Castro, F., de Lurdes L. M. (Eds.). London : CRC Press (Taylor & Francis Group), 2017, 241-246.